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NORTHERN REGION GRID REPORT FOR THE MONTH OF MAY 2005

A) Summary Report

1. Grid Overview during the Month

In the month of May 2005 the Power supply in the region was satisfactory . The average energy and peak MW shortages were 8.62% and 8.78%. The average system frequency was 49.64 Hz and frequency remained in normal band i.e. between 49.00 & 50.50 for 91.45 % of time . The average frequency variation index during the month was 3.37 and standard deviation was 0.36 . The maximum regional availability during the month was 23773 MW . The average demand met was 21147 MW and 471.81 MU in terms of energy . The maximum requirement was 26060 MW and average requirement was 516.33 MU in terms of energy.

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

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

- (i) 400 KV D/C Rihand-Allahabad along with associated bays at Allahabad s/s
- (ii) 400 KV D/C Allahabad-Mainpuri S/S along with associated bays at Allahabad s/s and Mainpuri s/s
- (iii) 400 KV D/C Mainpuri-Ballabgarh along with associated bays at Mainpuri S/S and Ballabgarh s/s

3. Monthly Frequency Profile :

Maximum frequency 50.86 Hz at 18.03 hrs 04.05.2005
 Minimum frequency 48.53 Hz at 05.16 hrs 23.05.2005

Average frequency 49.64 Hz

Frequency distribution in %

Hz	< 48.50	<49.00	49.00-50.50	> 50.50
% of time	0.00	7.75	91.45	0.80

Monthly Frequency Variation Index 3.37
 Maximum 9.25
 Minimum 0.53

4. Power Supply Position :

a. Average Energy/day (Net)

State / U.T.	Demand met MU/Day	Requirement MU/Day	Shortage MU/Day	Shortage %
Punjab	89.18	91.72	2.54	2.77
Haryana	61.58	65.83	4.25	6.46
Rajasthan	81.93	84.73	2.80	3.30
U.P.	126.60	151.82	25.22	16.61
Uttanchal	13.53	13.74	0.21	1.53
Delhi	62.49	62.98	0.49	0.78
H.P.	10.03	10.08	0.05	0.50
J & K *	21.34	30.30	8.96	29.57
Chandigarh	3.56	3.56	0.00	0.00
N.F.F./Rail	1.58	1.58	0.00	0.00
Total	471.81	516.33	44.52	8.62

b. Peak MW

State / U.T.	MAX. Demand met MW	MAX. Requirement MW	Shortage MW	Shortage %
	A	B	C	(C/B)*100
Punjab	4559	5220	661	12.66
Haryana	3419	3696	277	7.49
Rajasthan	4212	4490	278	6.19
U.P.	6493	8175	1682	20.57
Uttanchal	780	843	63	7.47
Delhi	3222	3269	47	1.44
H.P.	632	642	10	1.56
J & K *	1166	1316	150	11.40
Chandigarh	202	202	0	0.00
N.F.F./Rail	69	69	0	0.00
Region	23773	26060	2287	8.78
Diversity Factor = 1.09				

* 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	1362.05	1286.57	-75.48
Haryana	865.92	973.24	107.32
Rajasthan	948.58	1109.94	161.36
U.P.	1892.35	2025.78	133.43
Uttranchal	109.19	58.50	-50.69
Delhi	1186.53	1087.91	-98.62
H.P.	48.54	39.14	-9.40
J & K	619.72	585.66	-34.06
Chandigarh	121.53	117.11	-4.42
N.F.F./Rail	51.99	49.11	-2.88

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

a)	From WR over HVDC Vindhyachal B/B	0.00
b)	From WR over 220 kV Ujjain-Kota	0.00
c)	From ER over HVDC Sasaram B/B	92.96
d)	From ER over 220 kV Pusauli-Sahupuri	104.45

Export

e)	To WR over HVDC Vindhyachal B/B	110.95
f)	To WR (MP) over 220 kV Auraiya-Malanpur	8.76
g)	To WR(MP) over 220 kV Kota-Ujjain	0.00
h)	To ER over 220 kV/132kV lines	1.48
i)	To ER over HVDC Sasaram B/B	0.00
j)	To Nepal over 132 kV Tanakpur-Mahendernagar	5.80

B). Detailed Report**I. Details of Installed/Effective Capacity at the end of May 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+1x500 1500.00	2x500 1500.00
(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	8684.04	8669.04
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)		13844.04	13633.24
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+2x250	1360.00	4x110+2x210+2x250	1360.00
	Total Thermal		1540.00		1525.00
(d)	Magnum Diesel (IPP)	4x6.3	25.20	4x6.3	25.20
	Total Haryana		1627.60		1612.60
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)	Jhalkei 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		434.85		434.85
	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		3108.09		3108.09
					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)		32632.51		32106.35

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	6325.00	2344.04	0.00	0.00	8669.04	27.00%
NHPC	2284.20	0.00	0.00	0.00	0.00	2284.20	7.11%
SJVNL	1500.00	0.00	0.00	0.00	0.00	1500.00	4.67%
NPC	0.00	0.00	0.00	0.00	1180.00	1180.00	3.68%
BBMB	2866.30	0.00	0.00	0.00	0.00	2866.30	8.93%
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	3.10%
HARYANA	62.40	1525.00	25.20	0.00	0.00	1612.60	5.02%
HIMACHAL	712.20	0.00	0.00	0.00	0.00	712.20	2.22%
J&K	311.69	0.00	182.18	0.00	0.00	493.87	1.54%
PUNJAB	1145.10	2130.00	0.00	0.00	0.00	3275.10	10.20%
RAJASTHAN	434.85	2295.00	110.50	267.74	0.00	3108.09	9.68%
UP	501.00	3909.00	0.00	0.00	0.00	4410.00	13.74%
UTTRANCHAL	999.05	0.00	0.00	0.00	0.00	999.05	3.11%
Total	10816.79	16566.50	3275.32	267.74	1180.00	32106.35	100.00%
% of TOTAL	33.69%	51.60%	10.20%	0.83%	3.68%	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 31.03.2005

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	0.00	0.00	98.78	86.39	1.22	0.00	0.00
02	0.00	0.00	0.00	0.28	97.47	71.56	2.53	0.00	0.00
03	0.00	0.00	0.00	0.35	97.33	80.52	2.67	0.00	0.00
04	0.00	0.00	0.00	0.76	94.65	83.65	5.35	0.00	0.00
05	0.00	0.00	0.24	6.91	98.99	50.96	0.76	0.00	0.00
06	0.00	0.00	0.35	7.81	98.30	42.14	1.35	0.00	0.00
07	0.00	0.00	0.00	10.80	95.76	51.63	4.24	0.00	0.00
08	0.00	0.00	0.00	1.60	95.63	80.17	4.38	0.00	0.00
09	0.00	0.00	0.00	6.29	98.92	56.81	1.08	0.00	0.00
10	0.00	0.00	0.21	15.24	99.79	45.05	0.00	0.00	0.00
11	0.00	0.00	0.73	29.07	99.27	19.59	0.00	0.00	0.00
12	0.00	0.00	2.05	37.60	97.78	11.56	0.17	0.00	0.00
13	0.00	0.00	3.55	42.26	96.45	12.88	0.00	0.00	0.00
14	0.00	0.00	7.77	40.56	92.23	12.44	0.00	0.00	0.00
15	0.00	0.00	11.84	57.64	88.06	5.49	0.10	0.00	0.00
16	0.00	0.00	5.38	63.01	94.62	2.92	0.00	0.00	0.00
17	0.00	00.07	11.11	70.31	88.39	2.29	0.00	0.00	0.00
18	0.00	0.00	3.89	51.44	96.11	15.32	0.00	0.00	0.00
19	0.00	0.00	20.41	83.93	79.59	00.73	0.00	0.00	0.00
20	0.00	0.00	34.80	93.12	65.20	0.10	0.00	0.00	0.00
21	0.00	0.00	32.29	86.11	67.71	3.89	0.00	0.00	0.00
22	0.00	0.00	10.11	62.21	89.89	06.70	0.00	0.00	0.00
23	0.00	0.00	25.23	84.35	74.77	01.15	0.00	0.00	0.00
24	0.00	0.00	41.32	94.03	58.68	0.66	0.00	0.00	0.00
25	0.00	0.00	19.70	93.88	80.30	0.00	0.00	0.00	0.00
26	0.00	0.00	12.53	69.77	87.47	03.82	0.00	0.00	0.00
27	0.00	0.00	16.15	82.22	83.85	0.17	0.00	0.00	0.00
28	0.00	0.00	09.69	75.31	90.31	02.08	0.00	0.00	0.00
29	0.00	0.00	0.73	38.47	99.06	17.26	0.21	0.00	0.00
30	0.00	0.00	01.54	57.16	98.46	02.32	0.00	0.00	0.00
31	0.00	0.00	04.10	55.00	95.90	02.40	0.00	0.00	0.00
Max	0.00	0.00	41.32	94.03	99.79	86.39	5.35	0.00	0.00
Min	0.00	0.00	0.00	0.00	58.68	0.00	0.00	0.00	0.00
Average	0.00	0.00	7.75	42.82	91.45	25.89	0.80	0.00	0.00

Frequency (Hz)				Average Frequency Hz	Frequency Variation Index
Maximum		Minimum			
Freq	Time	Freq	Time		
50.72	6:05	49.68	0:15	50.19	0.65
50.71	19:01	49.42	0:18	50.11	0.53
50.75	18:40	49.36	11:12	50.18	0.74
50.86	18:03	49.26	19:22	50.19	0.84
50.54	9:02	48.97	20:00	49.97	0.70
50.64	1:12	48.87	23:07	49.94	0.96
50.62	18.48	49.01	14:00	49.96	1.13
50.62	18.48	49.39	19:26	50.17	0.82
50.78	18.02	49.21	23:19	50.02	0.81
50.78	18.02	48.95	23:33	49.88	1.24
50.40	18.00	48.86	20:18	49.71	1.78
50.64	13.01	48.63	23:08	49.61	2.50
50.44	13:55	48.70	17:26	49.59	2.76
50.28	06.00	48.62	11:08	49.59	3.14
50.54	11:31	48.56	20:07	49.42	4.78
50.27	04.02	48.71	1:55	49.44	3.98
50.30	18.31	48.53	12.54	49.38	4.82
50.45	07.38	48.59	23:05	49.57	3.15
50.30	06.01	48.57	22.21	49.23	6.65
50.03	07.21	48.54	11.02	49.12	8.46
50.35	20.00	48.54	5:02	49.17	8.18
50.50	2:38	48.77	4:19	49.43	4.48
50.40	2:52	48.53	5:16	49.21	7.13
50.10	07.04	48.53	10:04	49.08	9.25
49.92	05.45	48.60	4:19	49.19	6.99
50.35	20.09	48.58	14.37	49.35	5.26
50.17	19.02	48.60	16.43	49.26	6.12
50.23	18.31	48.64	1:55	49.35	5.03
50.54	18.30	48.92	04.46	49.65	2.41
50.28	19.32	48.55	21.04	49.48	3.34
50.25	19.47	48.65	22.37	49.45	3.74
50.86		49.68		50.19	9.25
49.92		48.53		49.08	0.53
50.44		48.82		49.64	3.37

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	413	03.09	399	19.43	412	06.06	399	23.32	222	02.50	215	19.44	416	03.35	397	19.51
02	414	18.01	394	10.46	420	18.01	397	00.03	222	03.46	212	10.38	414	17.59	395	11.42
03	414	18.35	393	14.22	418	19.02	398	14.22	222	03.26	212	14.20	411	02.46	394	09.41
04	414	18.03	392	11.46	410	04.02	399	11.50	219	03.00	210	12.00	412	02.51	394	19.22
05	412	04.06	389	19.50	414	06.54	398	19.52	222	04.01	209	19.53	409	06.08	391	19.48
06	410	06.29	393	19.45	416	06.23	398	23.05	221	04.04	210	19.27	408	06.27	394	19.45
07	414	18.04	394	10.37	412	18.29	399	10.06	222	18.48	211	11.09	413	18.04	397	08.52
08	414	18.10	392	19.44	410	06.04	391	19.50	222	18.05	211	19.42	411	00.34	392	19.44
09	413	18.00	392	19.50	413	18.02	393	23.11	221	02.38	211	10.27	412	03.08	392	19.48
10	413	02.19	392	00.05	414	13.08	393	04.56	222	02.16	213	10.06	408	14.09	394	19.54
11	411	18.00	392	10.33	412	18.00	395	19.45	221	04.02	202	10.32	410	18.01	393	19.01
12	410	08.04	391	19.38	410	01.52	397	22.05	221	07.20	212	15.33	408	03.12	392	19.37
13	416	16.11	390	10.23	416	16.11	395	4.51	220	7.31	211	10.28	409	13.18	394	5.22
14	409	19.03	390	10.11	412	13.01	396	10.11	220	06.01	211	10.09	409	13.04	393	19.38
15	421	18.55	394	00.45	418	18.06	395	20.05	224	18.48	215	00.01	414	18.01	394	19.37
16	410	06.01	388	14.29	413	13.01	392	08.57	221	4.02	209	14.31	411	18.02	390	19.42
17	415	12.36	382	15.02	407	09.00	391	15.00	218	06.00	208	11.00	408	08.00	392	20.00
18	410	08.02	388	11.49	414	18.04	393	00.35	220	05.02	207	14.27	408	03.36	392	11.55
19	412	06.02	394	10.34	412	06.02	398	00.13	222	06.01	211	19.25	408	05.01	395	19.55
20	414	07.19	392	11.01	413	18.04	395	07.49	221	07.22	208	19.30	412	17.35	389	20.23
21	412	06.01	394	10.33	411	19.01	395	22.37	221	06.01	210	11.55	409	06.06	394	21.01
22	416	18.01	397	14.48	416	18.57	194	13.32	221	08.49	214	14.49	413	18.01	391	19.57
23	414	18.11	390	10.57	414	18.11	395	08.01	221	06.45	213	10.54	411	18.04	390	20.18
24	410	18.52	391	12.40	410	02.18	392	13.45	220	07.02	208	12.41	409	18.51	394	19.44
25	411	18.11	391	11.19	410	19.59	394	07.48	221	03.47	208	10.57	410	18.05	394	12.01
26	409	21.39	386	10.31	414	18.05	392	12.27	220	05.16	207	11.16	410	17.59	387	12.37
27	410	01.58	390	16.43	411	19.01	394	12.43	221	05.28	206	16.43	410	17.59	387	12.37
28	408	07.30	387	10.56	413	07.30	395	04.53	220	07.29	210	11.32	408	06.24	393	10.23
29	412	18.30	394	13.42	411	17.33	391	13.42	222	18.30	213	19.49	409	06.10	391	12.22
30	409	06.06	382	15.50	408	05.15	391	15.31	221	05.10	205	15.33	409	06.10	392	15.41
31	408	18.57	389	08.47	408	12.58	392	02.24	220	05.57	212	08.55	405	06.35	392	08.47
Max	421		399		420		399		224		215		416		397	
Min	408		382		407		194		218		202		405		387	

V. Regional Power Supply Position

(All Figs In MUs)

Date	Availability (Gross)	Peak Hrs. Requirement	Shortage/ Restriction	Availability (Gross)	Off Peak Hrs. Requirement	Shortage/ Restriction*	Regional Availability
	MW	MW	MW	MW	MW	MW	MU
01	21516	22966	1450	19331	19761	430	445.64
02	21167	22317	1150	19762	20192	430	452.22
03	20857	21505	648	18703	19133	430	445.07
04	21646	23096	1450	17933	18063	130	442.57
05	22464	23916	1452	20012	20742	730	462.10
06	22018	23517	1499	20627	21357	730	472.78
07	20621	22077	1456	20160	20590	430	463.47
08	22099	23567	1468	19378	19508	130	466.88
09	22539	24029	1490	19816	19946	130	472.85
10	22361	24039	1678	20411	20841	430	474.38
11	22645	24098	1453	21312	21742	430	484.33
12	22747	24635	1888	21068	21798	730	485.38
13	22276	23942	1666	20868	22047	1179	482.39
14	22739	24224	1485	21871	22301	430	471.97
15	22414	23864	1450	21220	22605	1385	487.68
16	22696	24347	1651	21730	22725	995	491.48
17	22361	24333	1972	21619	22819	1200	490.92
18	23674	25294	1620	22038	22768	730	498.20
19	23327	25044	1717	21870	22963	1093	493.55
20	23102	25175	2073	21498	23105	1607	485.87
21	22862	24679	1817	21319	23775	2456	479.40
22	23171	24623	1452	21555	22913	1358	484.44
23	23305	25122	1817	21476	23932	2456	484.92
24	23135	25131	1996	21301	23477	2176	486.67
25	23261	25331	2070	21594	23847	2253	490.71
26	22357	23811	1454	21827	23755	1928	492.40
27	23740	25728	1873	21346	22156	810	496.36
28	23598	25425	1827	22128	24347	2219	504.09
29	23371	25001	1630	22751	23951	1200	504.11
30	23512	25457	1945	22075	23066	991	502.99
31	23452	24940	1488	22353	23815	1462	506.20
Maximum	23740	25728	2073	22751	24347	2456	506.20
Minimum	20621	21505	648	17933	18063	130	442.57
Average	22614	24233	1616	20998	22066	1067	480.71

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	3603	3674	2834	2692	3408	2839	2752	2065	5097	5590
02	3674	3433	2699	2389	3397	3194	2348	2032	4670	5817
03	4022	3090	2925	2331	3378	3207	2671	1995	4284	5560
04	4122	3456	3039	2511	3375	3187	2786	1970	4847	4607
05	3700	3590	3050	2625	3564	3188	2912	1946	4806	5788
06	3937	3636	3228	2706	3323	3312	3027	2158	4895	5912
07	3494	3437	2488	2840	3480	3117	2816	2318	4327	5958
08	4142	3002	3032	2368	3413	3391	2858	2281	5229	5897
09	4023	2893	3278	2335	3575	3418	2969	2361	4975	6406
10	4041	3742	3130	2704	3548	3628	2923	2245	5081	5849
11	3919	3789	3193	2845	3483	3517	2982	2287	5131	6180
12	3949	3816	3114	2887	3679	3290	3061	2355	4962	6065
13	3944	3910	2963	2608	3627	3318	3148	2431	5082	6112
14	3960	3682	3233	2891	3745	3650	3053	2425	5027	6009
15	4012	3843	3051	2802	3720	3443	2897	2482	5035	5474
16	4079	3912	3119	2748	3722	3506	3082	2439	5110	6373
17	4071	3772	2920	2864	3711	3460	3119	2575	5188	6296
18	4174	3890	3339	2669	3988	3611	3141	2667	5259	6451
19	4015	3954	3156	2803	3742	3569	3168	2691	5155	6071
20	4229	3927	2973	2628	3676	3376	3152	2674	5081	5891
21	4046	3910	3072	2694	3863	3456	3109	2724	4724	5825
22	3933	3944	3258	2688	3681	3600	2961	2627	5009	5998
23	4008	3869	3309	2640	3664	3431	2994	2666	4927	5859
24	3987	3915	2564	2753	3749	3503	3155	2683	5260	5688
25	4077	3900	3099	2619	3595	3566	2989	2676	5352	5864
26	3534	4005	2455	2873	3775	3701	3125	2675	5083	6001
27	4042	3918	3278	2487	3864	3720	3153	2694	5303	5746
28	4138	3962	3475	2836	3762	3615	3124	2665	5026	6099
29	3970	4056	3270	3118	3542	3416	2951	2716	5292	6272
30	3789	4094	3136	2783	3807	3448	3163	2637	6148	6356
31	3964	4248	3419	2970	3926	3501	3105	2665	5413	6285
Maximum	4229	4248	3475	3118	3988	3720	3168	2724	6148	6451
Minimum	3494	2893	2455	2331	3323	2839	2348	1946	4284	4607
Average	3955	3751	3068	2700	3638	3425	2990	2446	5056	5945

Remarks: Peak - 1900 hrs offpeak - 0300 hrs

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

State Date	Uttaranchal		Chandigarh		Himachal Pradesh		Jammu & Kashmir	
	Peak	Off Peak	Peak	Off Peak	Peak	Off Peak	Peak	Off Peak
	713	383	136	104	530	358	1087	936
	677	535	160	100	564	346	960	780
	629	471	158	99	558	346	1046	781
	632	447	169	99	568	347	990	797
	628	462	165	104	546	358	1022	776
	626	475	170	106	570	403	1003	918
	642	502	170	104	565	410	910	787
	644	504	159	118	566	281	988	558
	678	543	165	121	543	374	970	740
	627	571	169	120	536	365	1064	879
	650	596	169	115	550	387	1093	826
	714	567	175	118	567	398	1089	936
	467	605	168	119	535	392	954	931
	643	416	170	124	551	366	1067	756
	725	578	154	126	494	384	1028	959
	739	541	175	126	506	380	1059	916
	677	517	184	133	534	394	1020	891
	677	503	186	135	574	372	1070	804
	669	563	149	145	538	369	1047	851
	636	580	186	149	565	358	1046	857
	480	562	171	148	533	391	1078	885
	718	488	167	130	545	368	1056	914
	741	559	183	129	578	353	1061	921
	712	571	186	140	576	381	1067	895
	660	550	191	140	577	381	1094	917
	690	586	190	149	529	430	963	929
	722	523	181	151	540	450	1019	915
	724	587	180	142	554	381	1072	955
	673	565	166	145	549	447	1110	934
	694	561	177	145	559	389	1027	769
	693	560	186	141	559	390	1075	989
Maximum	741	605	191	151	578	450	1110	989
Minimum	467	383	136	99	494	281	910	558
Average	665	531	171	127	550	379	1037	861

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	83.138	55.060	74.902	51.590	124.823	11.793	2.609	9.782	21.670	1.635	437.002
02	82.907	55.639	78.940	56.680	120.503	12.942	3.169	9.859	20.769	1.603	443.010
03	83.008	54.202	76.326	55.630	119.379	12.383	3.121	9.736	21.206	1.617	436.607
04	85.923	57.250	76.989	56.120	113.531	12.024	3.251	10.024	21.315	1.590	438.017
05	85.117	58.834	80.303	57.050	122.446	12.711	3.308	9.596	21.355	1.586	452.306
06	89.862	62.075	78.195	59.870	120.345	12.912	3.381	9.824	22.190	1.660	460.315
07	85.271	58.845	78.419	60.340	120.669	12.942	3.354	9.795	21.156	1.587	452.379
08	82.142	57.707	80.789	57.790	130.073	13.237	3.085	9.643	19.543	1.643	455.652
09	83.023	61.592	84.659	61.210	129.334	13.756	3.501	9.475	18.777	1.561	466.888
10	89.521	63.364	84.475	60.600	126.399	13.294	3.425	9.306	21.292	1.581	473.257
11	89.645	64.730	82.390	60.760	128.036	13.648	3.432	9.995	21.995	1.628	476.259
12	88.478	63.193	81.647	60.850	129.606	13.885	3.456	10.193	21.807	1.600	474.714
13	89.865	60.586	82.187	64.190	126.620	12.763	3.475	10.207	20.403	1.629	471.924
14	89.418	64.701	81.622	61.990	124.598	12.552	3.446	10.304	20.176	1.600	470.407
15	88.611	61.847	83.692	59.520	132.467	13.882	3.128	10.021	21.628	1.498	476.294
16	91.802	63.966	82.532	63.760	130.705	13.355	3.701	9.977	21.504	1.558	482.860
17	93.114	62.954	78.523	65.550	130.687	13.682	3.749	9.969	21.163	1.609	481.000
18	89.029	63.638	87.889	66.540	131.564	13.625	3.869	9.887	20.402	1.534	487.977
19	92.636	63.444	83.029	66.320	128.478	13.856	3.929	9.807	21.066	1.648	484.213
20	92.476	62.094	81.196	66.150	123.158	13.834	3.914	10.001	21.756	1.613	476.192
21	88.554	59.338	81.545	65.430	124.378	13.561	3.706	10.207	22.545	1.599	470.863
22	88.934	63.176	83.955	62.110	125.534	12.747	3.396	10.052	21.968	1.577	473.450
23	88.713	62.711	83.542	64.580	123.043	14.439	3.847	10.245	21.607	1.581	474.308
24	89.114	60.296	82.510	66.530	127.191	14.254	4.002	10.518	21.779	1.586	477.779
25	90.324	60.006	81.848	67.160	129.537	14.212	3.983	10.327	22.247	1.614	481.258
26	88.623	60.821	85.210	67.890	127.586	14.244	3.994	9.987	21.207	1.456	481.019
27	90.958	62.245	86.035	67.510	128.179	14.333	4.015	10.279	22.122	1.486	487.162
28	93.424	65.970	84.268	65.940	131.193	14.952	3.900	10.487	22.315	1.648	494.097
29	95.982	67.253	84.216	62.720	131.221	14.681	3.491	10.306	21.309	1.466	492.645
30	96.281	65.370	82.746	67.640	133.547	14.441	3.967	10.431	20.988	1.567	496.977
31	98.712	66.025	85.326	67.350	129.872	14.463	3.991	10.540	22.200	1.549	500.028
Maximum	98.712	67.253	87.889	67.890	133.547	14.952	4.015	10.540	22.545	1.660	500.028
Minimum	82.142	54.202	74.902	51.590	113.531	11.793	2.609	9.306	18.777	1.456	436.607
Average	89.181	61.578	81.932	62.496	126.603	13.529	3.568	10.025	21.337	1.584	471.834
Month Total	2764.605	1908.931	2539.905	1937.370	3924.701	419.403	110.595	310.782	661.460	49.109	14626.861

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-May-2005	40319	39720	25217	27141	28262	29042	32031	27539	57461	58904	2570	1408
2-May-2005	42154	38775	26831	26900	29642	34286	35807	33265	59931	63893	2652	2067
3-May-2005	43902	41293	26171	26138	31298	33338	36453	34900	60310	60338	2729	1379
4-May-2005	42832	43867	26777	30818	31254	33666	36422	35027	58032	56995	2772	365
5-May-2005	44014	40345	27887	32074	31608	37432	37654	34223	62607	71172	2786	582
6-May-2005	45188	43360	28616	31651	31931	37578	39104	36908	63386	69211	2195	869
7-May-2005	43852	40101	27671	28553	30567	38132	40908	38480	59127	64550	1897	760
8-May-2005	43322	41110	27358	27658	32222	40927	39102	37182	62010	64879	2015	468
9-May-2005	43900	38776	29749	31418	32750	43417	40933	39202	63584	68840	1963	1320
10-May-2005	44429	39935	30500	32390	32600	42286	40675	33407	67155	71415	1975	1340
11-May-2005	43738	39246	29558	34435	31862	39107	41303	31702	67066	72827	1973	2248
12-May-2005	43518	38142	29358	37003	31529	38427	42945	31122	66095	71225	2058	3199
13-May-2005	43661	39568	28897	33621	30487	36240	38434	32823	64747	70317	1818	1606
14-May-2005	43654	38900	28700	32507	30980	39070	38562	31724	64963	72689	2644	578
15-May-2005	41372	38851	27916	28670	29901	37282	37568	29051	62516	70677	2439	1805
16-May-2005	44452	38928	27909	31426	29022	35719	37067	32835	59478	65091	2022	1560
17-May-2005	45636	41275	28720	31542	30525	38744	38056	35668	63652	65769	2609	2464
18-May-2005	46684	40883	29569	38362	31431	38101	39114	39730	63583	64118	5181	1458
19-May-2005	43461	40428	27491	30314	29365	33679	37794	40542	57923	59504	4839	2001
20-May-2005	41451	39749	26059	27410	27796	31070	36686	39712	54662	57630	4212	2577
21-May-2005	41841	40810	25517	27462	27100	29959	35913	35466	54336	58453	4311	2477
22-May-2005	42110	41407	26385	34563	28485	32848	35965	31667	59123	62654	4941	1275
23-May-2005	43822	43321	27020	31016	28880	31930	36592	34741	59848	65166	5096	2379
24-May-2005	44183	43617	27521	30010	29243	31365	37513	37245	59069	64280	5140	2495
25-May-2005	44556	43547	27809	29845	29878	33876	37412	36552	59085	62963	5004	2552
26-May-2005	44274	42652	27481	27463	30130	34324	37168	36889	58062	62333	4980	2207
27-May-2005	44452	43366	28198	28093	30907	34364	37915	36749	58635	64690	5109	2242
28-May-2005	45003	45196	28226	31390	31401	34231	37927	35321	60441	65467	5282	3118
29-May-2005	45911	47838	28586	35958	31598	36249	39406	33503	60659	65197	5299	3519
30-May-2005	46954	45752	29116	39358	32701	35667	42443	37778	61885	66685	5392	2700
31-May-2005	47404	45807	29111	38048	33228	37585	41659	36961	62921	67850	5288	3482
Total MU	1362.049	1286.565	865.924	973.237	948.583	1109.941	1186.531	1087.914	1892.352	2025.782	109.191	58.500
Max. MWH	47404	47838	30500	39358	33228	43417	42945	40542	67155	72827	5392	3519
Min MWH	40319	38142	25217	26138	27100	29042	32031	27539	54336	56995	1818	365
Avg. MWH	43937	41502	27933	31395	30599	35805	38275	35094	61044	65348	3522	1887

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-May-2005	1968	4021	17792	19311	3481	2788	144	76	1064	1559
2-May-2005	2536	2658	18727	18379	3678	3381	144	81	764	1522
3-May-2005	2639	1543	19902	18914	3741	3299	144	83	832	1534
4-May-2005	2869	1868	20031	18971	3791	3445	144	79	769	1511
5-May-2005	3451	886	20241	19067	3938	3506	144	68	791	1518
6-May-2005	3772	619	20258	19933	3959	3617	144	62	974	1598
7-May-2005	3050	-475	19606	18954	3747	3569	144	63	1237	1524
8-May-2005	275	-2018	20237	17149	3946	3291	144	61	1277	1582
9-May-2005	489	-2473	20237	16365	3965	3775	144	54	1157	1507
10-May-2005	-857	-383	20406	18880	4033	3732	144	71	925	1510
11-May-2005	-268	1182	20473	19546	4092	3660	144	64	1178	1564
12-May-2005	-538	1286	20207	19510	4035	3719	144	63	1410	1537
13-May-2005	-129	1169	20241	18024	3876	3767	144	64	1529	1565
14-May-2005	219	1291	20215	17917	3996	3684	144	72	2069	1528
15-May-2005	524	1079	19233	19259	3804	3321	144	0	1433	1498
16-May-2005	256	-230	18712	19166	3672	3897	144	76	1921	1482
17-May-2005	504	290	19715	18632	4091	4013	144	83	1902	1526
18-May-2005	721	827	20038	18080	4162	4083	144	83	1955	1451
19-May-2005	510	1616	19380	18613	3978	4078	144	82	1796	1566
20-May-2005	1526	2191	18655	19306	3924	4125	144	81	2058	1532
21-May-2005	1824	2651	18692	20057	3853	3926	144	81	2136	1518
22-May-2005	2364	2430	20065	19632	3844	3517	144	79	2085	1498
23-May-2005	2483	2039	20231	18891	3875	4121	144	85	1915	1496
24-May-2005	2619	2465	20277	19113	3909	4214	144	83	1780	1503
25-May-2005	2437	2142	20408	19679	3935	4192	144	70	1845	1544
26-May-2005	2528	1888	20226	18579	3919	4154	144	67	1839	1389
27-May-2005	1796	2207	20372	19433	3985	4267	144	63	1835	1423
28-May-2005	2469	1903	20823	19615	4049	4063	144	67	1784	1581
29-May-2005	2224	1103	21238	18578	4003	3630	144	62	1849	1404
30-May-2005	2067	1228	21461	18586	4111	4113	144	69	1699	1498
31-May-2005	2209	2138	21620	19523	4137	4164	144	60	1722	1489
Total MU	48.537	39.141	619.719	585.662	121.529	117.111	4.464	2.152	47.530	46.957
Max. MWH	3772	4021	21620	20057	4162	4267	144	85	2136	1598
Min MWH	-857	-2473	17792	16365	3481	2788	144	0	764	1389
Avg. MWH	1566	1263	19991	18892	3920	3778	144	69	1533	1515

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-May-2005	39864	39712	21960	21988	11966	11947	8918	8951	4219	4333	10252	9961
2-May-2005	39591	39645	21907	22023	14148	14621	9043	9140	4408	4501	10429	10173
3-May-2005	38507	38323	21336	21630	13902	13825	8797	8818	4196	4238	9355	9044
4-May-2005	39270	39068	21401	21461	13900	13935	8650	8716	4038	4145	8634	8126
5-May-2005	39540	39681	21576	22099	14792	15776	8818	9183	4181	4435	10182	9149
6-May-2005	39567	39864	19131	19588	15668	17397	9084	9317	4681	4673	12128	11769
7-May-2005	39373	39859	8468	8709	17456	17615	9081	9218	8336	8355	11328	10762
8-May-2005	37918	37921	17896	18495	14606	14619	8865	8954	8544	8633	10173	9990
9-May-2005	39291	39457	21399	22081	16186	16418	9046	9224	8860	9103	10569	10991
10-May-2005	39864	40070	21776	22430	15579	16305	9138	9352	9030	9341	12153	12116
11-May-2005	39864	40218	21960	22587	16199	18405	9230	9429	9171	9372	12673	12536
12-May-2005	39864	40425	21818	22463	18345	18877	9240	9438	9192	9316	12447	12293
13-May-2005	37028	37188	21960	22658	13685	14058	9288	9478	9192	9375	12854	12781
14-May-2005	39602	40089	21960	22467	13920	14232	9288	9474	9192	9368	13196	12582
15-May-2005	39779	40219	18149	18842	13920	14195	9288	9471	7138	7322	12783	12837
16-May-2005	39864	40120	10560	11112	13920	14219	9288	9476	4633	4654	13001	12830
17-May-2005	40205	40577	18628	19336	13920	14210	9288	9468	9167	9257	12976	12823
18-May-2005	43709	44209	21960	22670	13920	14161	9228	9384	9192	9373	12918	12786
19-May-2005	33420	33206	22030	22648	13920	14058	9168	9359	9192	9372	12531	12904
20-May-2005	28181	28644	22080	22698	13520	13875	6804	6871	9192	9362	13915	14038
21-May-2005	32300	32744	22080	22741	12943	13181	4440	4547	9132	9312	14889	14939
22-May-2005	39864	40264	22003	22632	13920	14090	7814	7967	9192	9365	14456	14564
23-May-2005	39864	40180	22026	22637	13920	14063	9168	9360	9192	9365	14789	14596
24-May-2005	39624	39865	22080	22725	13920	14062	9192	9373	9192	9366	15755	15754
25-May-2005	39544	39895	22080	22663	13920	14267	9219	9419	9192	9368	15586	15820
26-May-2005	39686	40010	22080	22576	13920	14198	9240	9419	5094	5190	15302	15466
27-May-2005	39720	39961	21720	22245	13920	14213	9240	9427	5076	5174	15084	15379
28-May-2005	39720	40064	22011	22530	13920	14188	9240	9423	9192	9364	15382	15555
29-May-2005	39720	39949	21881	22424	15855	16292	9240	9421	9192	9363	14512	14622
30-May-2005	39611	39894	21840	22383	18552	18928	9240	9422	9192	9365	14603	14604
31-May-2005	39600	39926	21715	22251	18000	18180	9240	9422	9192	9366	14568	14596
Total MU	1203.554	1211.247	639.471	655.792	456.262	468.410	274.823	279.921	238.592	243.126	399.423	396.386
Max. MWH	43709	44209	22080	22741	18552	18928	9288	9478	9192	9375	15755	15820
Min MWH	28181	28644	8468	8709	11966	11947	4440	4547	4038	4145	8634	8126
Avg. MWH	38824	39072	20628	21155	14718	15110	8865	9030	7697	7843	12885	12787

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-May-2005	5069	5022	8206	7981	5390	5317	4368	4119	2490	2492	13818	13939
2-May-2005	5338	5279	8796	8422	3888	3792	5407	5107	3323	3342	15081	15191
3-May-2005	5359	5218	7805	7432	3912	3826	9000	8688	3927	3953	15848	15962
4-May-2005	4766	4830	6845	6685	3960	3819	9024	8878	3824	3853	15828	15930
5-May-2005	5721	5515	8923	8759	3936	3840	8952	9001	4296	4333	15774	15890
6-May-2005	6719	6620	9988	9800	3936	3761	9000	9011	4296	4323	15510	15666
7-May-2005	6617	6581	9219	8922	3936	3777	9096	9067	4296	4317	15693	15847
8-May-2005	6226	6095	8821	8604	3864	3791	8856	8749	4296	4301	15696	15788
9-May-2005	5197	5200	9408	9229	3864	3828	9168	8565	4296	4329	15410	15534
10-May-2005	5951	5755	10802	10363	3888	3823	9048	9124	4296	4321	15600	15757
11-May-2005	7142	6999	10953	10516	3888	3785	9120	9157	3942	3967	15617	15764
12-May-2005	7140	7173	10933	10359	3888	3717	9192	9102	3913	3926	15351	15500
13-May-2005	7108	7037	11243	10509	3840	3742	9240	9089	4060	4086	15539	15693
14-May-2005	7175	7267	11174	10602	3744	3780	9120	9061	3529	3557	15483	15629
15-May-2005	7373	7460	11524	10847	3816	3749	9096	8979	3736	3768	14733	14877
16-May-2005	6986	7039	11212	11052	3816	3702	9072	8987	4060	4096	15216	15359
17-May-2005	6898	6855	11088	11048	3792	3621	9024	8944	3780	3811	15122	15256
18-May-2005	7124	7124	11304	11160	3758	3669	9096	9014	4031	4060	15096	15228
19-May-2005	7446	7575	11687	11658	3696	3623	9048	8934	3942	3971	15156	15298
20-May-2005	7867	7887	12376	12383	3720	3660	9096	8825	3677	3710	14260	14397
21-May-2005	7862	7824	12592	12645	3672	3734	9000	8862	3706	3739	13998	14137
22-May-2005	7633	7651	11935	11438	3696	3836	8880	8871	3500	3530	12899	13011
23-May-2005	8114	8124	11102	10905	3768	3765	8904	8895	3913	3948	13220	13350
24-May-2005	8366	8377	8767	8616	3768	3716	8904	8868	3972	4009	13870	14008
25-May-2005	8427	8073	8604	8578	3768	3643	8928	8905	4149	4186	14149	14283
26-May-2005	8223	8168	8566	8443	3768	3459	8928	8862	4060	4096	14594	14731
27-May-2005	8259	8242	8456	8397	5814	5518	8976	8852	3765	3794	14610	14741
28-May-2005	8093	8114	8646	8580	7200	7391	8928	8853	3765	3792	14365	14506
29-May-2005	7954	7824	8299	8160	7440	7477	9384	8926	4090	4110	14946	15081
30-May-2005	8013	7973	9409	9219	7512	7444	9384	8891	4031	4050	15107	15284
31-May-2005	7637	7664	12048	11873	7536	7494	9480	8861	3883	3903	15720	15839
Total MU	217.803	216.565	310.731	303.185	136.474	134.099	272.719	268.047	120.844	121.673	463.309	467.476
Max. MWH	8427	8377	12592	12645	7536	7494	9480	9157	4296	4333	15848	15962
Min MWH	4766	4830	6845	6685	3672	3459	4368	4119	2490	2492	12899	13011
Avg. MWH	7026	6986	10024	9780	4402	4326	8797	8647	3898	3925	14945	15080

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-May-2005	985	991	5830	5998	11376	11492	15143	14941	11293	11051	5778	5658
2-May-2005	1002	1016	8633	8710	11376	11465	14913	14875	11505	11202	5783	5737
3-May-2005	1028	1035	8388	8432	11342	11407	14116	13849	12365	11855	5839	5919
4-May-2005	1156	1167	9167	9671	11224	11308	13556	13473	12675	12169	5407	5164
5-May-2005	1160	1171	12416	12896	11216	11352	13574	13390	12715	12625	4543	4441
6-May-2005	1303	1327	12816	12909	11216	11371	13845	13960	12853	12712	4357	4287
7-May-2005	1231	1251	11125	11231	11180	11429	14066	13925	13773	13889	3723	3603
8-May-2005	1350	1367	10391	10517	11327	11329	14253	14048	15168	14634	4087	3865
9-May-2005	1451	1464	10680	10775	11257	11221	14521	14252	15703	15398	4465	4432
10-May-2005	1557	1575	12772	12903	11274	11399	13913	14023	15328	14998	3855	3856
11-May-2005	1375	1392	12816	12930	11198	11443	14906	14598	12630	12546	3140	3081
12-May-2005	1174	1186	11926	12445	11266	11465	15011	14880	13048	12829	2971	3015
13-May-2005	1180	1193	9212	9306	11266	11199	14887	14795	12675	12748	2770	2783
14-May-2005	1206	1218	9078	9173	11266	11097	15159	14844	12043	11865	3177	3139
15-May-2005	1190	1204	9212	9305	11223	11444	15263	15023	10203	9520	2923	2886
16-May-2005	1216	1236	9078	9171	11215	11417	15115	14971	13170	13440	2543	2565
17-May-2005	1281	1322	10013	10281	11211	11370	15043	14833	12690	12841	2768	2656
18-May-2005	1291	1307	9434	9675	11157	11389	15192	15296	13375	13409	2570	2577
19-May-2005	1262	1278	9100	9186	11244	11424	15381	15163	11505	11235	3219	3122
20-May-2005	1313	1325	8811	8890	11254	11384	15293	15113	10365	10328	2670	2639
21-May-2005	1353	1372	7610	7682	11211	11391	13337	12858	9970	10183	2593	2546
22-May-2005	1333	1346	6141	6324	11243	11449	13511	13209	11490	11297	2348	2281
23-May-2005	1306	1304	7476	7547	11203	11322	13412	13207	11928	11861	1949	1948
24-May-2005	1243	1260	8811	8895	11209	11412	13412	13140	12230	11619	1998	1972
25-May-2005	1210	1230	8366	8444	11241	11437	13360	13214	12048	12148	2980	2936
26-May-2005	1276	1298	9212	9290	11222	11446	13412	13179	12205	11976	3432	3351
27-May-2005	1288	1312	9723	9815	11291	11482	13864	13609	12585	12550	4294	4242
28-May-2005	1197	1216	9701	9787	11283	11515	13728	13660	11248	11092	4506	4452
29-May-2005	1210	1225	6987	7309	11286	11453	13851	13966	12620	13381	4480	4501
30-May-2005	1266	1282	9167	9247	11229	11276	13803	13766	12915	12470	5822	5781
31-May-2005	1157	1161	9612	9702	10507	10694	13883	13729	12900	12392	7083	7004
Total MU	38.550	39.031	293.704	298.446	348.013	352.282	442.723	437.789	387.221	382.263	118.073	116.439
Max. MWH	1557	1575	12816	12930	11376	11515	15381	15296	15703	15398	7083	7004
Min MWH	985	991	5830	5998	10507	10694	13337	12858	9970	9520	1949	1948
Avg. MWH	1244	1259	9474	9627	11226	11364	14281	14122	12491	12331	3809	3756

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-May-2005	20773	20963	5569	5617
2-May-2005	25113	25164	6176	6230
3-May-2005	29613	29614	6858	6910
4-May-2005	30538	30606	6287	6340
5-May-2005	31650	31872	6410	6468
6-May-2005	31740	31877	6886	6952
7-May-2005	31725	31927	7155	7220
8-May-2005	31725	31980	7128	7192
9-May-2005	31725	31962	7128	7192
10-May-2005	31725	32040	7128	7194
11-May-2005	31335	31639	6448	6507
12-May-2005	30130	30341	6039	6093
13-May-2005	31380	31608	6138	6195
14-May-2005	30163	30466	6584	6644
15-May-2005	28306	28574	6147	6201
16-May-2005	30423	30724	7128	7198
17-May-2005	28920	28388	6462	6522
18-May-2005	28284	28596	6651	6711
19-May-2005	24296	24547	5852	5877
20-May-2005	22290	22494	5571	5623
21-May-2005	21824	22044	5247	5295
22-May-2005	21973	22041	5247	5292
23-May-2005	22996	23216	5940	5996
24-May-2005	23443	23647	6138	6194
25-May-2005	23719	23958	6615	6680
26-May-2005	24083	24265	7128	7194
27-May-2005	23428	23672	7128	7194
28-May-2005	23888	24107	6831	6895
29-May-2005	25915	26074	7232	7299
30-May-2005	25947	26074	7211	7279
31-May-2005	24343	24561	7241	7308
Total MU	843.413	849.041	201.703	203.512
Max. MWH	31740	32040	7241	7308
Min MWH	20773	20963	5247	5292
Avg. MWH	27207	27388	6507	6565

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	26.629	15.470	20.243	0.903	40.682	1.095	57.986	1.030	10.692	12.106	5.819	2.38	195.04
02	27.653	15.380	20.607	0.812	39.631	0.949	52.652	1.029	10.996	10.509	7.274	2.41	189.90
03	25.114	14.679	20.370	0.614	38.092	0.787	52.646	1.066	11.283	10.237	8.276	2.32	185.48
04	26.075	14.825	21.459	0.961	37.997	1.252	50.046	1.143	11.874	10.002	8.238	2.37	186.24
05	27.813	15.077	20.855	0.990	40.309	1.052	44.587	0.652	12.185	10.996	8.798	2.31	185.63
06	28.533	16.790	21.931	0.944	39.481	0.935	44.073	2.128	12.228	11.365	9.298	2.28	189.99
07	26.833	15.872	22.577	0.842	38.975	0.911	48.526	2.325	12.501	11.130	10.374	2.22	193.09
08	24.974	14.818	21.619	0.980	38.665	0.839	56.713	1.736	13.002	11.389	11.779	2.42	198.93
09	26.990	15.760	21.089	1.026	39.895	0.870	49.963	2.544	12.630	10.641	12.069	2.44	195.91
10	31.407	16.740	21.651	1.027	41.003	0.865	43.488	2.643	12.057	13.545	9.787	2.44	196.65
11	32.974	16.076	20.848	1.010	41.925	0.881	45.421	2.594	11.367	14.664	8.902	2.47	199.14
12	32.342	16.511	17.418	0.947	41.572	1.156	46.253	3.208	10.738	15.826	8.997	2.32	197.29
13	33.194	15.989	18.260	0.857	41.784	0.930	45.168	3.851	10.866	16.198	9.129	2.40	198.63
14	32.924	16.792	23.369	0.957	37.265	1.003	42.184	3.831	11.579	15.509	9.104	2.28	196.80
15	32.264	16.409	24.418	0.910	41.377	1.065	52.509	3.831	11.729	15.981	9.032	2.39	211.92
16	33.040	18.432	23.357	0.893	41.574	1.065	53.480	3.574	11.558	15.870	10.310	2.36	215.51
17	34.091	16.396	21.463	0.969	34.661	0.997	53.279	2.970	11.053	15.626	9.777	2.56	203.84
18	32.587	14.472	16.617	0.963	44.631	1.011	55.606	2.732	11.996	14.564	9.152	2.35	206.68
19	33.799	17.083	23.158	0.881	44.105	1.025	55.965	3.762	11.637	15.985	8.274	2.48	218.15
20	33.234	17.398	24.363	0.879	44.497	1.136	55.046	3.614	11.222	14.636	7.889	2.48	216.39
21	29.336	16.619	21.555	0.875	46.480	0.947	54.653	3.772	10.675	14.915	7.632	2.51	209.97
22	29.445	16.702	18.731	0.757	45.935	1.012	54.110	3.524	11.000	15.578	7.699	2.36	206.85
23	29.381	15.369	21.461	0.868	46.118	1.045	50.756	0.392	11.862	15.037	8.289	2.74	203.32
24	29.248	14.780	20.221	0.870	45.810	1.162	50.146	4.019	11.847	15.249	8.134	2.69	204.18
25	29.287	15.750	20.004	0.880	42.472	1.331	54.933	3.722	11.548	15.465	8.268	2.59	206.25
26	29.040	15.491	23.275	0.833	45.363	1.040	54.084	3.841	11.770	15.740	8.181	2.66	211.31
27	29.529	16.437	24.570	0.810	46.458	1.052	50.531	3.831	11.805	15.744	8.154	2.72	211.64
28	29.829	16.990	24.472	0.821	46.227	0.964	53.139	3.851	11.354	15.272	8.671	2.73	214.32
29	30.873	16.267	22.319	0.851	46.441	1.047	54.521	3.079	10.964	14.771	9.296	2.76	213.19
30	31.525	17.584	17.503	0.852	45.713	0.885	53.376	2.970	11.435	14.479	9.296	2.43	208.04
31	34.065	17.336	19.788	0.862	42.620	1.162	50.689	3.841	10.858	15.371	8.487	2.70	207.78
Maximum	34.09	18.43	24.57	1.03	46.48	1.33	57.99	4.02	13.00	16.20	12.07	2.76	218.15
Minimum	24.97	14.47	16.62	0.61	34.66	0.79	42.18	0.39	10.68	10.00	5.82	2.22	185.48
Average	30.13	16.14	21.28	0.89	42.19	1.02	51.18	2.81	11.56	14.01	8.85	2.47	202.52
Month Total	934.03	500.29	659.57	27.65	1307.76	31.47	1586.53	87.11	358.31	434.40	274.39	76.56	6278.06

Month Total

XI. Performance Of Generating Stations

S.No.	Power Station	Effective Capacity MW	Energy Generated during May 2005 (Ex Bus MU)	Cummulative from 01.04.2005 (Ex-bus MU)
1	CENTRAL SECTOR			
A	NTPC (Thermal)			
(a)	Badarpur TPS	705.00	417.06	773.64
(b)	Singrauli STPS	2000.00	1211.02	2346.28
(c)	Rihand STPS	1500.00	655.86	1313.47
(d)	Dadri NCTPS	840.00	468.58	875.63
(e)	Unchahar-I TPS	420.00	280.37	562.20
(f)	Unchahar-II TPS	420.00	243.41	475.71
(g)	Tanda TPS	440.00	264.62	479.97
(h)	Anta GPS	419.33	216.57	397.80
(i)	Auraiya GPS	663.36	303.12	494.30
(j)	Dadri GPS	829.78	396.78	769.42
(k)	Faridabad GPS	431.57	242.06	464.56
	Total NTPC	8669.04	4699.45	8952.98
B	NHPC			
(a)	Bairasiul	180.00	121.67	234.61
(b)	Salal	690.00	467.48	835.10
(c)	Tanakpur HPS	94.20	39.03	67.15
(d)	Chamera HPS	540.00	297.69	560.64
(e)	Uri HPS	480.00	352.28	660.46
(f)	Chamera2 HPS	300.00	203.52	342.90
	Total NHPC	2284.20	1481.67	2700.86
C	Nathpa-Jhakri	1500.00	849.04	1276.97
D	NPC			
(a)	RAPS -A	300.00	70.90	153.19
(b)	RAPS -B	440.00	268.09	423.96
(c)	NAPS	440.00	134.12	359.95
	Total NPC	1180.00	473.11	937.10
2	JOINTLY OWNED (BBMB)			
(a)	Bhakra Complex	1480.30	441.55	788.05
(b)	Dehar	990.00	384.85	696.97
(c)	Pong	396.00	118.14	186.41
	Total BBMB	2866.30	944.54	1671.43
3	DELHI			
(a)	Indra Prastha	247.50	64.70	141.89
(b)	Rajghat	135.00	54.34	108.43
(c)	Gas Turbines	282.00	128.41	256.25
(d)	Pragati Gas	330.00	186.67	392.33
	Total DELHI	994.50	434.13	898.91
4	HARYANA			
(a)	WYC	62.40	27.92	53.99
(b)	Faridabad (New)	165.00	50.84	117.50
(c)	Panipat	1360.00	699.39	1197.87
(d)	Magnum Diesel(IPP)*	25.20	0.00	1.44
	Total Haryana	1612.60	778.15	1370.80

contd/-

5 HP				
(a)	Giri	60.00	5.98	14.49
(b)	Bassi	60.00	37.05	63.38
(c)	Binwa	6.00	4.30	8.55
(d)	Rongtong (+Nogli+Micro+Thirot+Sal-2)	15.25	6.18	8.71
(e)	Andhra	16.95	9.82	18.76
(f)	Bhabha (H)	120.00	75.51	103.10
(g)	Baner (H)	12.00	4.45	9.44
(h)	Gaj (H)	10.50	8.63	15.80
(i)	Gumma	3.00	0.00	1.29
(j)	Ghanvi	22.50	9.35	17.41
(k)	Malana (IPP)	86.00	31.08	55.04
(l)	Baspa (IPP)	300.00	114.52	148.59
	Total HP	712.20	306.87	464.55
6 J & K				
(a)	Lower Jhelum	105.00	62.98	119.14
(b)	Upper Sindh	127.60	8.54	16.80
(c)	Ganderbal	15.00	2.56	5.72
(d)	Mohra	9.00	0.00	0.00
(e)	Chenani	32.80	2.41	2.41
(f)	Stakna	9.75	0.00	0.00
(g)	Small Hydel	3.54	1.02	2.10
(h)	Sewa	9.00	0.00	0.00
(i)	Diesel gen set	7.18	0.00	0.00
(j)	Pampore GT St - I	75.00	0.00	0.00
(k)	Pampore GT St - II	100.00	0.00	0.00
	Total J & K	493.87	77.52	146.18
7 PUNJAB				
(a)	Jogindernagar/ Shanan	110.00	78.15	131.97
(b)	UBDC	90.00	57.35	95.53
(c)	Mukerian	207.00	101.77	164.31
(d)	Anandpur Sahib (APS)	134.00	51.30	76.37
(e)	Ranjit Sagar HPS	600.00	204.81	338.81
(f)	Small Hydel	4.10	0.00	0.30
(g)	GNDTPS (Bhatinda)	440.00	184.21	344.90
(h)	GGSTPS (Ropar)	1260.00	590.58	1174.64
(i)	Jhalkeri	10.00	0.00	6.00
	Peda & Sugarmill		0.00	11.00
(j)	Lehra Mohabbat TPS	420.00	149.46	283.52
	Total Punjab	3275.10	1417.63	2627.35
8 RAJASTHAN				
(a)	Mahi Bajaj Sagar	140.00	29.09	265.79
(b)	Rana Pratap Sagar (RPS)	172.00	1.12	2.53
(c)	Jawahar Sagar (JS)	99.00	1.16	2.11
(d)	Gandhi sagar	115.00		
(d)	ACW	9.00	0.00	1.05
(e)	MMH	14.85	0.52	1.08
(f)	Kota TPS	1045.00	485.23	1072.31
(g)	RAMGARH GT			
(h)	RAMGARH GT EXT	110.50	31.80	58.99
(i)	Suratgarh TPS	1250.00	799.72	1590.66
(j)	Wind Farm	259.94	40.86	63.78
(k)	Others	7.80	3.83	7.95
	Total Rajasthan	3108.09	1393.32	3066.24

contd/-

9 U.P.				
	<u>HYDRO</u>			
(a)	Rihand	300.00	34.71	66.10
(b)	Obra	99.00	14.49	27.56
(c)	Matatilla	30.00	11.04	11.04
(d)	Khara	72.00	31.38	62.42
	Total U.P. (Hydro)	501.00	91.62	167.11
	<u>THERMAL</u>			
(e)	Obra	1442.00	453.95	918.12
(f)	Panki	242.00	80.38	137.19
(g)	Harduaganj	375.00	47.92	75.26
(h)	Paricha	220.00	72.95	150.06
(i)	Anpara	1630.00	924.95	1838.87
	Total U.P. (Thermal)	3909.00	1580.15	3119.50
	Total U.P.	4410.00	1671.77	3286.61
10 UTTRANCHAL				
(a)	Khatima	41.40	16.57	29.79
(b)	Ramganga	198.00	40.48	61.24
(c)	Ganga Canal	32.70	48.30	102.34
(d)	Yamuna (I & IV)	114.75	15.25	62.07
(e)	Chibro	240.00	70.22	135.41
(f)	Khodri	120.00	34.20	65.32
(g)	Chilla	144.00	65.82	114.70
(h)	Maneri Bhali	90.00	64.97	73.96
(i)	Sibla+Small hydel	18.20		
	Total Uttranchal	999.05	355.80	644.82
11 CHANDIGARH				
	Diesel gen set	1.40		
	Total Region	32106.35	14882.98	28044.79

* 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% |
| Rajghat---11% | Panipat---12.0% |
| | Suratgarh---10.0% |
| | 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 MAY 2005

(ALL FIGS IN MUs)

FROM / TO	PUNJAB	HARYANA	RAJASTHAN	DELHI	UP	UTTRANCHAL	HP	J & K	CHANDIGARH	MALANA
PUNJAB	-		-		-				-	-
HARYANA	-	-	-	15.408***		-		-	-	25.127*
RAJASTHAN		-	-		-	-	-	-		
DELHI	-		-		-	-	134.858****	-	-	-
UP	-	-	-	-	-	44.352*		-	-	-
UTTRANCHAL		-	-	-	-	-		-	-	-
HP	15.516***		-		4.092***	37.791***	-	-	-	-
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 MAY 2005

(ALL FIGS IN MUs)									
FROM / TO	GRIDCO	CESC	WBPCL	HP	Uttaranchal	PSEB	Sikkim	Assam	TRIPURA
PUNJAB		17.735*						-	17.415*
HARYANA									
APTRANSCO						2.7*WR+0.5*			
DELHI	13.373*					--			
UP			7.025***				2.354****	30.890*	
MPEB	-			57.860*WR		-	-	-	
MSEB					-	31.350*WR	-	-	
CHANDIGARH									

* Through PTC

(+) Import by NR constituents

** Through Tata

(-) Export by NR constituents

*** Throgh NVVN

**** Through ADANI

REMARKS : Figures are provisional and indicative only

POWERGRID CORPORATION OF INDIA LTD.
NRLDC, New Delhi

Operational data

Smmary of inter regional exchanges for May 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	50	-150	200	150	0.29	1.23	-0.94	-27	-28	0	34	0.00	0.52	-0.52
02	0	-50	250	150	0.31	1.02	-0.71	-10	-6	0	12	0.00	0.50	-0.50
03	-200	-150	100	250	0.10	3.17	-3.07	-25	-26	0	28	0.00	0.55	-0.55
04	0	-137	0	250	0.00	2.94	-2.94	-32	-30	0	35	0.00	0.57	-0.57
05	0	-126	50	228	0.02	2.69	-2.67	-32	-27	0	36	0.00	0.58	-0.58
06	0	-126	50	250	0.01	2.63	-2.61	-30	-28	0	38	0.00	0.60	-0.60
07	-250	-126	0	500	0.00	4.90	-4.90	-22	-20	0	35	0.00	0.61	-0.61
08	-350	-450	0	500	0.00	10.27	-10.27	-29	-24	0	35	0.00	0.55	-0.55
09	-200	-500	0	500	0.00	9.39	-9.39	0	-25	0	30	0.00	0.21	-0.21
10	-250	-450	0	500	0.00	10.26	-10.26	0	0	0	0	0.00	0.00	0.00
11	-300	-442	0	500	0.00	9.85	-9.85	0	0	0	0	0.00	0.00	0.00
12	-175	-442	0	450	0.00	8.10	-8.10	0	0	0	0	0.00	0.00	0.00
13	-146	-398	150	398	0.09	6.85	-6.76	0	0	0	0	0.00	0.00	0.00
14	-146	275	50	374	0.04	6.12	-6.08	0	0	0	0	0.00	0.13	-0.13
15	-122	-250	0	320	0.00	5.19	-5.19	26	20	0	0	0.00	0.40	-0.40
16	-122	-130	100	316	0.05	3.16	-3.11	26	20	0	0	0.00	0.40	-0.40
17	-121	-172	150	300	0.32	2.86	-2.54	-24	-20	0	28	0.00	0.45	-0.45
18	-122	-122	100	240	0.05	3.26	-3.21	-20	-22	0	26	0.00	0.41	-0.41
19	-122	-122	100	230	0.03	2.70	-2.67	-20	-22	0	26	0.00	0.48	-0.48
20	-122	25	250	181	0.41	1.78	-1.37	-28	-16	0	28	0.00	0.46	-0.46
21	-50	-49	400	157	0.38	1.23	-0.85	-26	-18	0	27	0.00	0.49	-0.49
22	-50	-25	100	157	0.23	1.03	-0.80	-27	-24	0	27	0.00	0.49	-0.49
23	-50	50	100	157	0.16	1.09	-0.93	0	-23	0	27	0.00	0.33	-0.33
24	-50	-50	150	100	0.42	0.86	-0.44	0	0	0	0	0.00	0.00	0.00
25	-50	-50	0	160	0.00	1.65	-1.65	0	0	0	0	0.00	0.00	0.00
26	-250	-50	0	450	0.00	2.57	-2.57	0	0	0	0	0.00	0.00	0.00
27	-50	-50	250	100	0.04	1.85	-1.81	0	0	0	0	0.00	0.00	0.00
28	-49	-50	50	214	0.05	3.06	-3.01	0	0	0	0	0.00	0.00	0.00
29	-49	200	300	300	0.83	2.61	-1.79	0	0	0	0	0.00	0.00	0.00
30	-100	-49	250	100	0.48	0.91	-0.43	0	0	0	0	0.00	0.00	0.00
31	-50	-49	100	100	0.20	0.90	-0.70	0	0	0	0	0.00	0.00	0.00
Maximum	50	275	400	500	0.83	10.27	-0.43	26	20	0	38	0.00	0.61	0.00
Minimum	-350	-500	0	100	0.00	0.86	-10.27	-32	-30	0	0	0.00	0.00	-0.61
Average	-113	-136	105	277	0.15	3.75	-3.60	-10	-10	0	15	0.00	0.28	-0.28
Month Tota					4.52	116.12	-111.60					0.00	8.71	-8.71

POWERGRID CORPORATION OF INDIA LTD.
NRLDC, New Delhi

Operational data

Summary of inter regional exchanges for May 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	0	100	300	200	2.04	0.65	1.39
02	0	0	0	0	0.00	0.00	0.00	0	300	350	150	2.04	0.65	1.39
03	0	0	0	0	0.00	0.00	0.00	-50	-50	150	150	0.22	1.12	-0.90
04	0	0	0	0	0.00	0.00	0.00	50	150	250	200	0.30	1.93	-1.64
05	0	0	0	0	0.00	0.00	0.00	150	200	350	0	4.15	0.00	4.15
06	0	0	0	0	0.00	0.00	0.00	0	300	300	0	2.46	0.00	2.46
07	0	0	0	0	0.00	0.00	0.00	0	100	300	0	1.89	0.00	1.89
08	0	0	0	0	0.00	0.00	0.00	0	50	400	0	1.95	0.00	1.95
09	0	0	0	0	0.00	0.00	0.00	0	50	250	0	0.97	0.00	0.97
10	0	0	0	0	0.00	0.00	0.00	0	-300	100	300	0.25	5.65	-5.40
11	0	0	0	0	0.00	0.00	0.00	0	100	300	100	0.10	2.35	-2.25
12	0	0	0	0	0.00	0.00	0.00	0	75	350	50	1.81	0.01	1.80
13	0	0	0	0	0.00	0.00	0.00	0	75	400	0	3.43	0.00	3.43
14	0	0	0	0	0.00	0.00	0.00	0	150	250	0	3.25	0.00	3.25
15	0	0	0	0	0.00	0.00	0.00	100	100	350	0	3.59	0.00	3.59
16	0	0	0	0	0.00	0.00	0.00	50	220	400	0	3.65	0.00	3.65
17	0	0	0	0	0.00	0.00	0.00	100	50	400	0	3.68	0.00	3.68
18	0	0	0	0	0.00	0.00	0.00	50	150	350	0	3.04	0.00	3.04
19	0	0	0	0	0.00	0.00	0.00	0	150	450	0	4.55	0.00	4.55
20	0	0	0	0	0.00	0.00	0.00	50	250	450	0	6.56	0.00	6.56
21	0	0	0	0	0.00	0.00	0.00	50	300	500	0	5.87	0.00	5.87
22	0	0	0	0	0.00	0.00	0.00	50	150	350	0	5.76	0.00	5.76
23	0	0	0	0	0.00	0.00	0.00	0	175	450	0	4.29	0.00	4.29
24	0	0	0	0	0.00	0.00	0.00	50	100	400	0	3.93	0.00	3.93
25	0	0	0	0	0.00	0.00	0.00	100	200	400	0	3.80	0.00	3.80
26	0	0	0	0	0.00	0.00	0.00	-100	100	300	150	1.99	0.00	1.99
27	0	0	0	0	0.00	0.00	0.00	-100	75	250	200	2.72	0.03	2.69
28	0	0	0	0	0.00	0.00	0.00	0	150	400	0	4.12	0.00	4.12
29	0	0	0	0	0.00	0.00	0.00	0	200	370	50	4.31	0.00	4.31
30	0	0	0	0	0.00	0.00	0.00	-50	250	400	50	3.00	0.00	3.00
31	0	0	0	0	0.00	0.00	0.00	-100	50	350	200	1.72	0.40	1.32
Maximum	0	0	0	0	0.00	0.00	0.00	150	300	500	300	6.56	5.65	6.56
Minimum	0	0	0	0	0.00	0.00	0.00	-100	-300	100	0	0.10	0.00	-5.40
Average	0	0	0	0	0.00	0.00	0.00	13	128	343	58	2.95	0.41	2.54
Month Tota					0.00	0.00	0.00					91.42	12.80	78.61

Summary of inter regional exchanges for May 2005

Operational data

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
29	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
30	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
31	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 Tota					0.00	0.00	0.00					0.00	0.00	0.00

POWERGRID CORPORATION OF INDIA LTD.
NRLDC, New Delhi

Operational data

Smmary of inter regional exchanges for May 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	118	147	175	0	3.40	0.00	3.40	0	0	0	0	0.00	0.00	0.00
02	112	157	163	0	3.40	0.00	3.40	0	0	0	0	0.00	0.00	0.00
03	112	145	156	0	3.16	0.00	3.16	0	0	0	0	0.00	0.00	0.00
04	124	68	168	0	2.47	0.00	2.47	0	0	0	0	0.00	0.00	0.00
05	124	68	145	0	1.97	0.00	1.97	0	0	0	0	0.00	0.00	0.00
06	108	161	161	0	3.02	0.00	3.02	0	0	0	0	0.00	0.00	0.00
07	116	154	165	0	3.40	0.00	3.40	0	0	0	0	0.00	0.00	0.00
08	132	162	170	0	3.59	0.00	3.59	0	0	0	0	0.00	0.00	0.00
09	114	168	197	0	3.52	0.00	3.52	0	0	0	0	0.00	0.00	0.00
10	-108	-148	170	0	3.31	0.00	3.31	0	0	0	0	0.00	0.00	0.00
11	118	168	176	0	2.52	0.00	2.52	0	0	0	0	0.00	0.00	0.00
12	116	166	179	0	3.36	0.00	3.36	0	0	0	0	0.00	0.00	0.00
13	125	155	175	0	3.54	0.00	3.54	0	0	0	0	0.00	0.00	0.00
14	50	174	198	0	3.54	0.00	3.54	0	0	0	0	0.00	0.00	0.00
15	115	176	186	0	3.52	0.00	3.52	0	0	0	0	0.00	0.00	0.00
16	115	176	186	0	3.50	0.00	3.50	0	0	0	0	0.00	0.00	0.00
17	110	176	189	0	3.61	0.00	3.61	0	0	0	0	0.00	0.00	0.00
18	122	175	192	0	3.70	0.00	3.70	0	0	0	0	0.00	0.00	0.00
19	132	170	175	0	3.65	0.00	3.65	0	0	0	0	0.00	0.00	0.00
20	175	168	175	0	3.50	0.00	3.50	0	0	0	0	0.00	0.00	0.00
21	116	156	190	0	3.61	0.00	3.61	0	0	0	0	0.00	0.00	0.00
22	129	163	183	0	3.69	0.00	3.69	0	0	0	0	0.00	0.00	0.00
23	148	156	190	0	3.78	0.00	3.78	0	0	0	0	0.00	0.00	0.00
24	127	149	173	0	3.56	0.00	3.56	0	0	0	0	0.00	0.00	0.00
25	116	141	180	0	3.46	0.00	3.46	0	0	0	0	0.00	0.00	0.00
26	130	145	165	0	3.55	0.00	3.55	0	0	0	0	0.00	0.00	0.00
27	128	148	178	0	3.63	0.00	3.63	0	0	0	0	0.00	0.00	0.00
28	96	148	175	0	3.38	0.00	3.38	0	0	0	0	0.00	0.00	0.00
29	150	179	182	0	3.50	0.00	3.50	0	0	0	0	0.00	0.00	0.00
30	146	168	174	0	3.62	0.00	3.62	0	0	0	0	0.00	0.00	0.00
31	168	172	180	0	3.65	0.00	3.65	0	0	0	0	0.00	0.00	0.00
Maximum	175	179	198	0	3.78	0.00	3.78	0	0	0	0	0.00	0.00	0.00
Minimum	-108	-148	145	0	1.97	0.00	1.97	0	0	0	0	0.00	0.00	0.00
Average	116	146	176	0	3.39	0.00	3.39	0	0	0	0	0.00	0.00	0.00
Month Tota					105.11	0.00	105.11					0.00	0.00	0.00

XV. Status Of Installation Of Shunt Capacitors As On 31.05.2005**(All fig. In MVARs)**

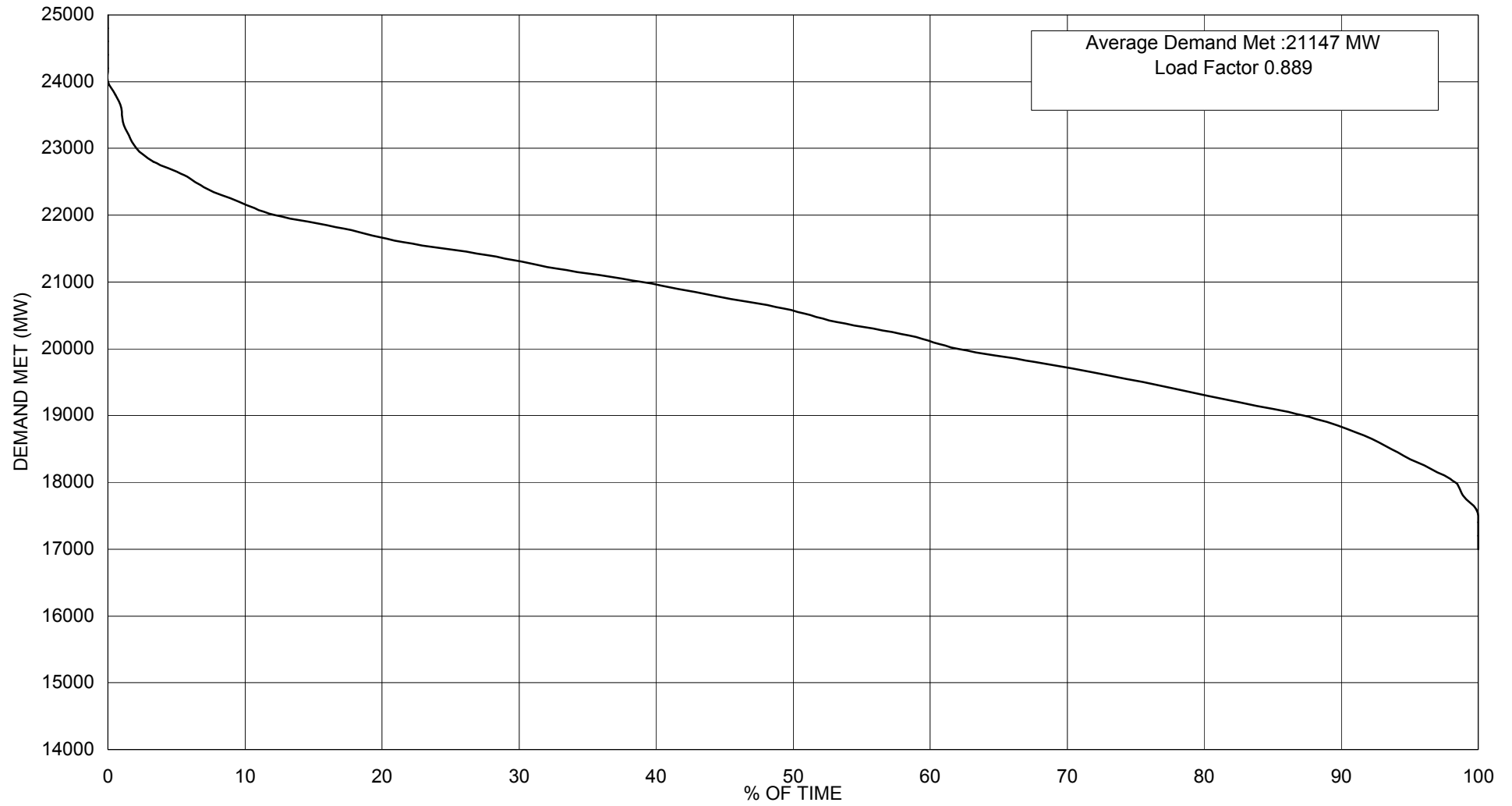
STATE/UT	Requirement by 31.03.2005 studies	Installed as on 31.03.2005	BBMB capacitors approtioned	Assuming 85% of Installed capacitors as effective. Capacitors	Additional Requirement for 2005-2006	Programme as furnished by SEB's	Installed during 2004-05 upto 31.05.2005	Balance to be installed during 2005-06	Capacitors installed as on 31.05.2005
DELHI	3155	** 3144	20	2689	466	-	125	341	3269
HARYANA	2760	2323	200	2145	615		10	605	2333
PUNJAB	4700	5000	136	4366	334		84	250	5084
RAJASTHAN	2760	3208	0	2727	33		20	13	3228
UP	5120	5192	0	4413	707		0	707	5192
UTTRANCHAL	370	180	0	153	217		0	217	180
HP	330	311	0	264	66		0	66	311
J&K	970	147	0	125	845		0	845	147
CHANDIGARH	175	100	25	106	69	-	0	69	100
TOTAL	20340	19605	381	16988	3352		239	3113	19844

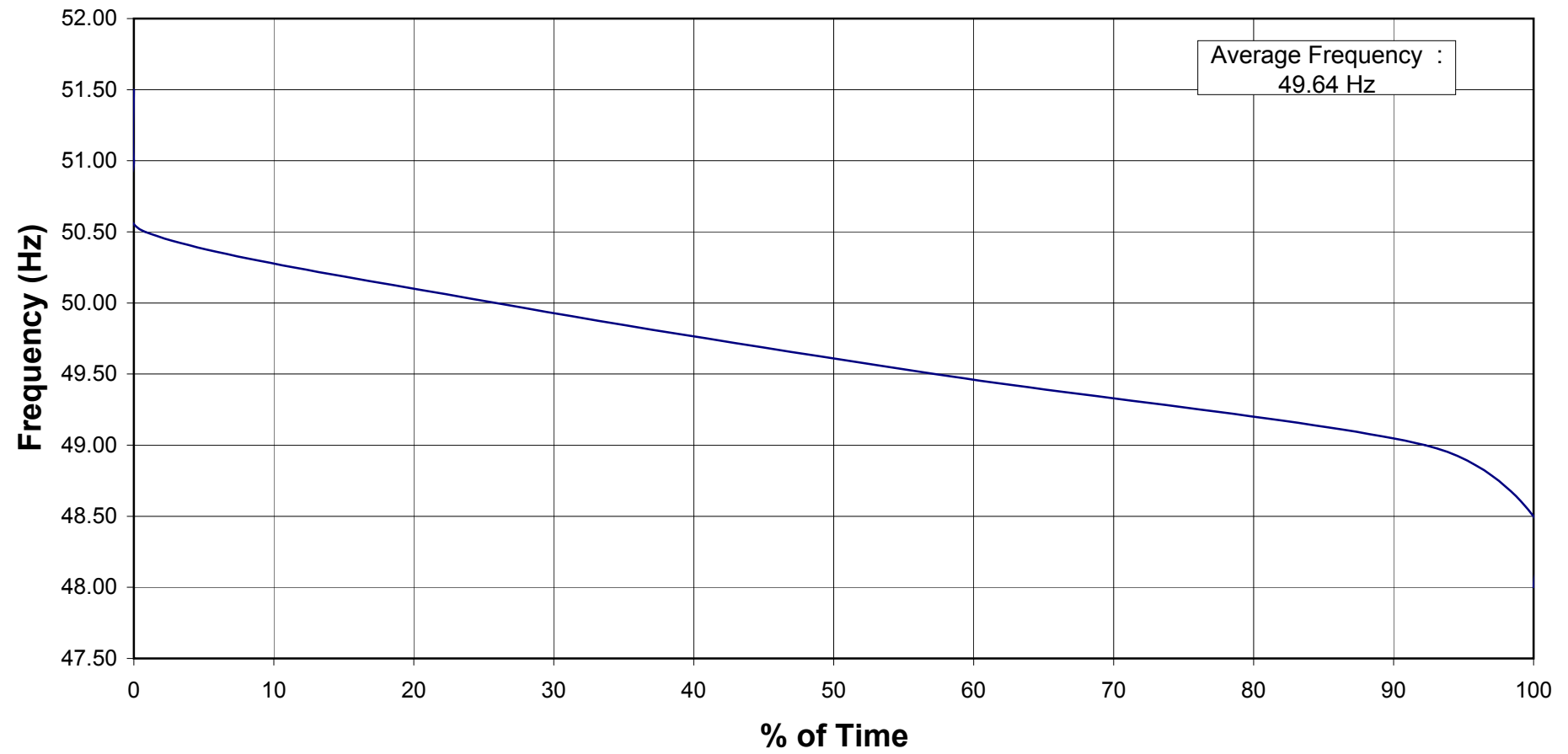
XVI. Hydraulic Data For Reservoirs During May 2005

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 MAY 2005 (m)	468.40	401.06	254.26	350.16	382.68
	1536.74	1315.81	834.18	1148.81	1255.51
Level on last day of MAY 2004 (m)	450.45	391.65	254.36	344.62	379.20
	1477.86	1284.93	834.50	1130.63	1244.10
Live Capacity as on last day of MAY 2005 (mhmt)	0.15	0.29	0.03	0.11	0.02
(maft)	1.22	2.35	0.27	0.89	0.16
Live Capacity as on last day of MAY 2004 (mhmt)	0.02	0.07	0.04	0.05	0.00
(maft)	0.20	0.56	0.30	0.37	0.00
Energy content as on last day of MAY 2005 (MU)	520.00	265.00	25.00	192.00	80.00
Energy content as on last day of MAY 2004 (MU)	95.00	90.00	50.00	83.00	10.00
Maximum level (m)	468.40	404.11	255.36	350.43	382.77
(ft)	1536.75	1325.82	837.80	1149.70	1255.81
(date)	31.05.2005	01.05.2005	01.05.2005	01.05.2005	01.05.2005
Minimum level (m)	465.69	401.06	254.26	350.16	382.68
(ft)	1527.85	1315.81	834.19	1148.82	1255.51
(date)	03.05.2005	31.05.2005	31.05.2005	31.05.2005	31.05.2005

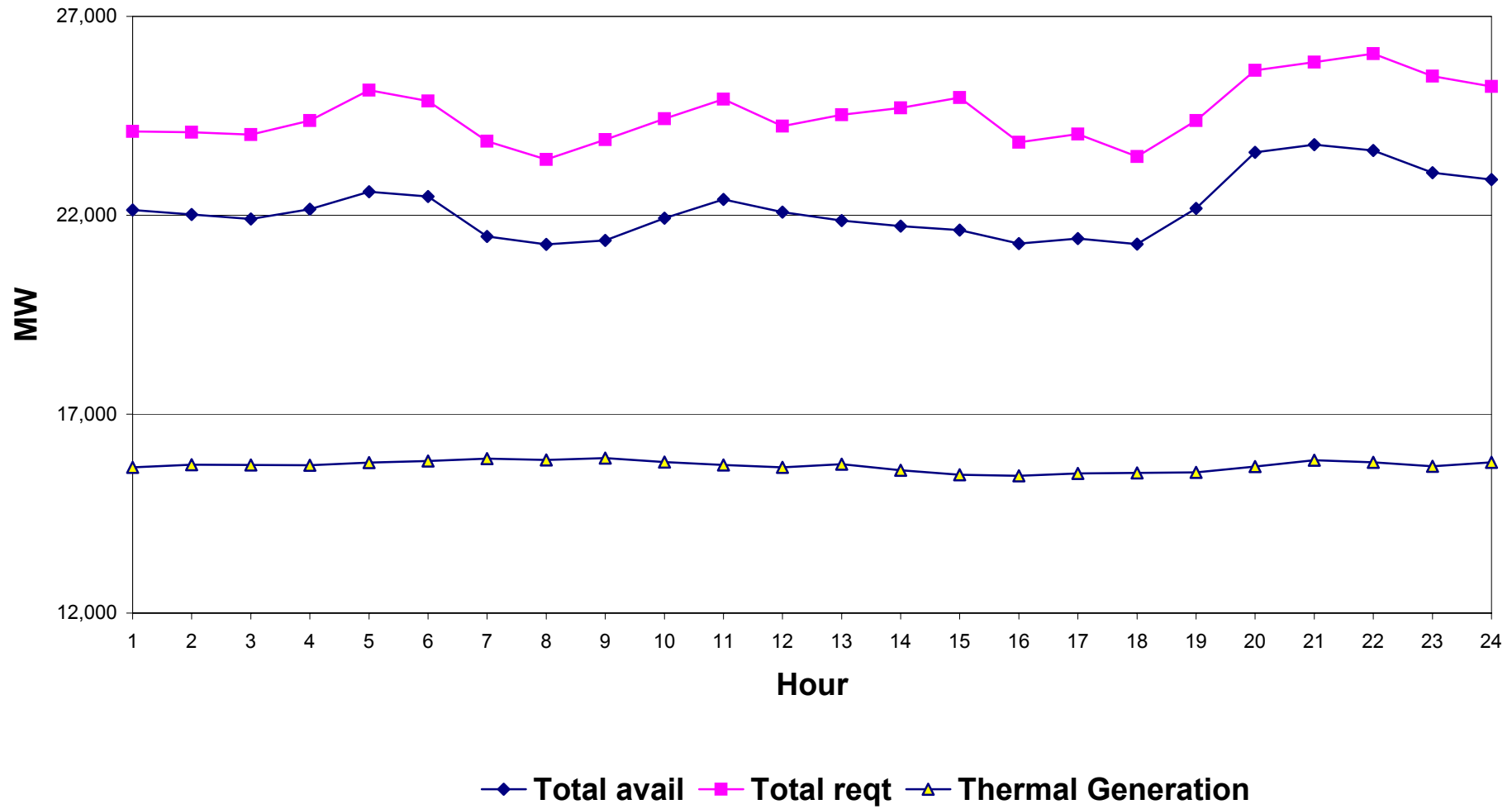
Energy content of Bhakra : Total Energy content at Bhakra, Ganguwal and Kotla power stations
Energy content of Rihand : Total Energy content at Rihand & Obra power stations
Energy content of RPS : Total Energy content of Rana Pratap Sagar and Jawahar Sagar Power Stations.
Energy Content of G. Sagar :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

Load Duration Curve For Northern Region For May 2005

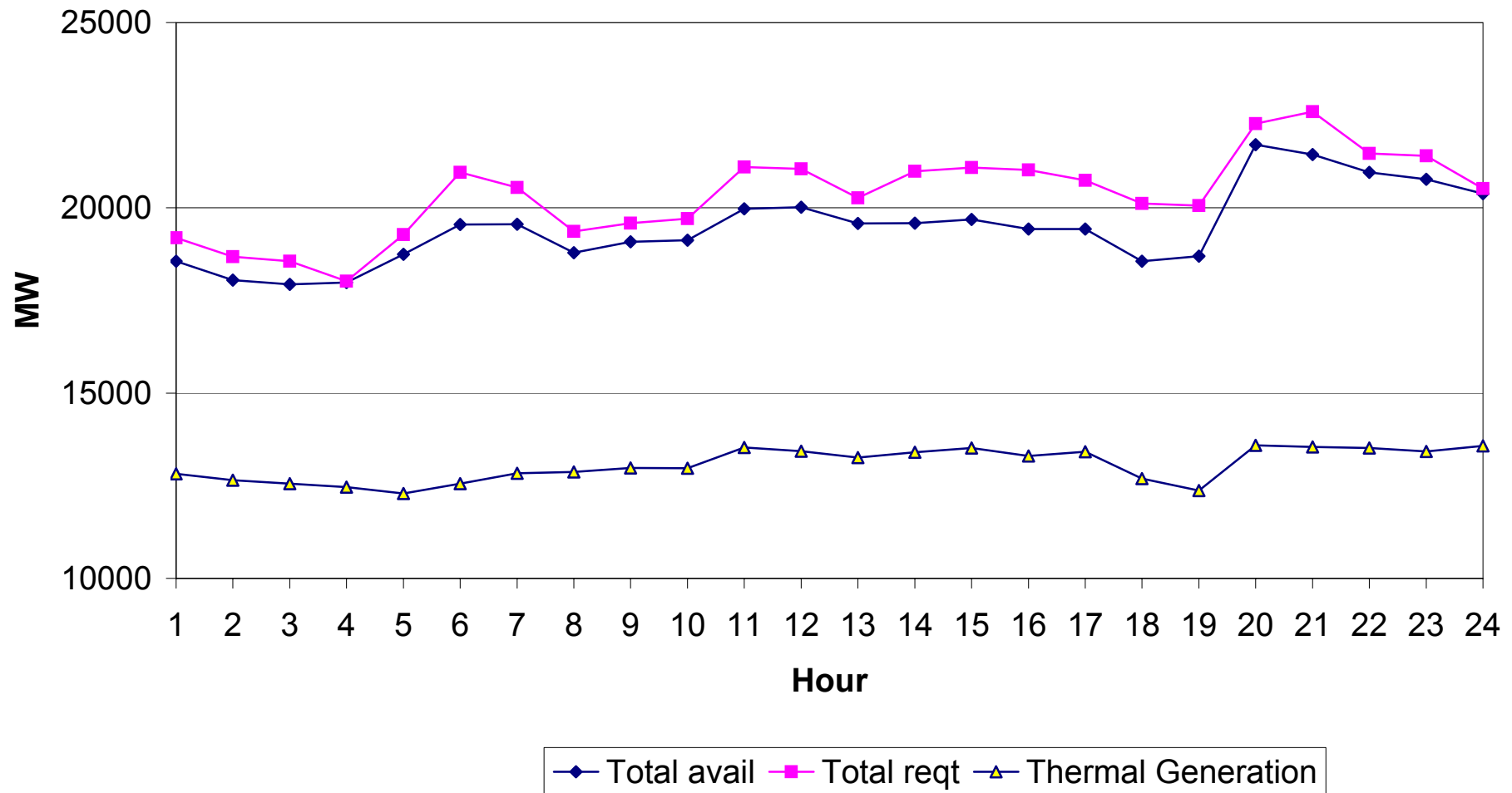


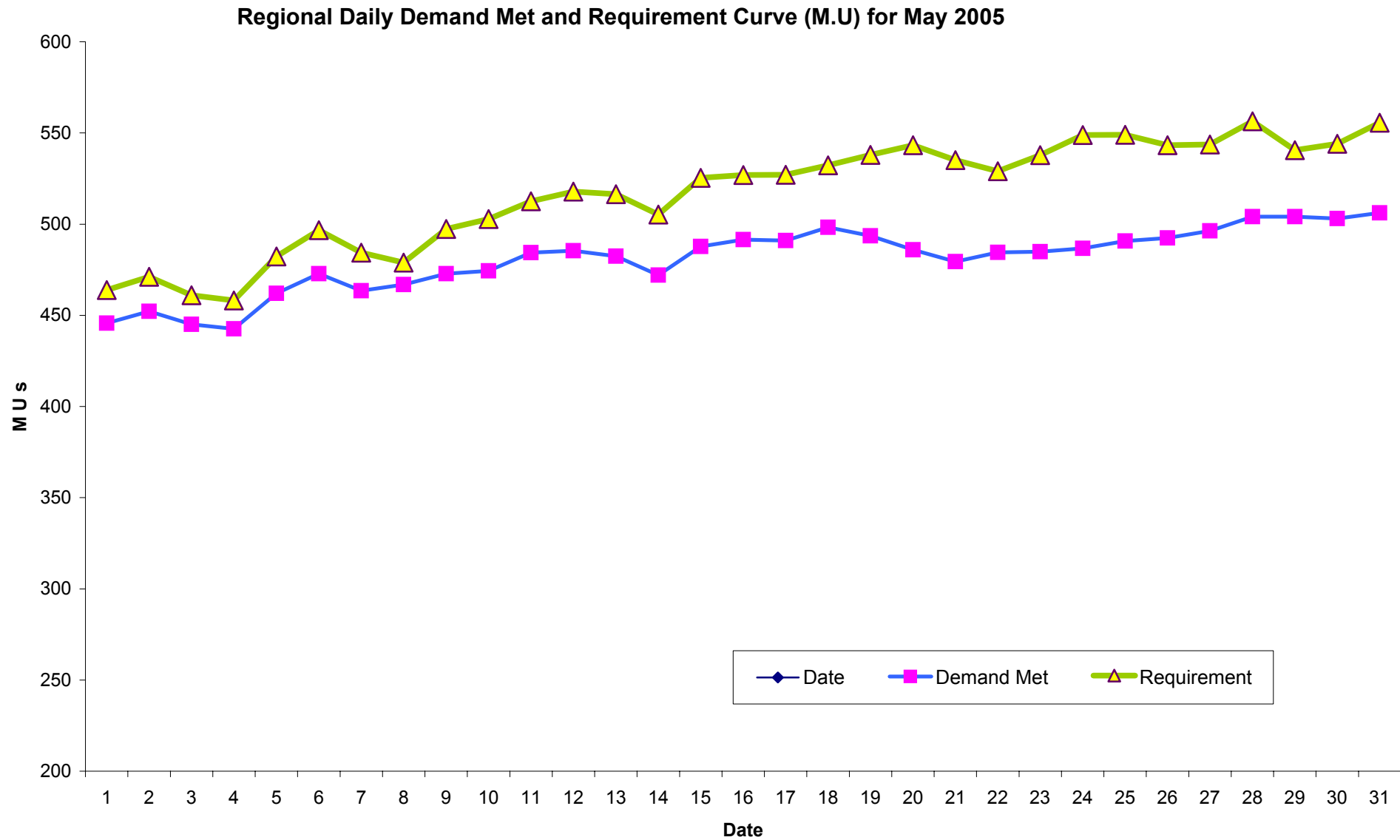
Frequency Duration Curve For Northern Region For May 2005

Load Curve Of Northern Region For Maximum Demand Met Day (28th May 2005)



Load Curve Of Northern Region For Minimum Demand Met Day (4th May 2005)





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