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NORTHERN REGION GRID REPORT FOR THE MONTH OF JUNE 2005

A) Summary Report

1. Grid Overview during the Month

During the month of June 2005 the Power supply in the region was by and large satisfactory . The average energy and peak MW shortages were 10.45% and 13.91%. The average system frequency was 49.55 Hz and frequency remained in normal band i.e. between 49.00 & 50.50 for 86.56 % of time . The average frequency variation index during the month was 4.27 and standard deviation was 0.47 . The maximum regional availability during the month was 24864 MW . The average demand met was 22700 MW and 509.66 MU in terms of energy . The maximum requirement was 28800 MW and average requirement was 569.11 MU in terms of energy.

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

There was a load crash of around 7800 MW on 9th/10th June ,2005 causing huge variation in frequency i.e 48.58 Hz to 51.35 Hz. Voltage of 400 kV sub-stations had a sudden jump of 20-30 kV. However, the situation was controlled by minimizing generation at Ropar, Bhatinda. Lehra Mohabat, Panipat etc. Under such a severe load throw off conditions, there was no other alternative left than to reduce generation at hydro stations to save the grid.

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

The following lines were declared under commercial operation w.e.f 01.06.2005.

- (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 51.37 Hz at 00.01 hrs 10.06.2005
 Minimum frequency 48.53 Hz at 04.07 hrs 22.06.2005

Average frequency 49.55 Hz

Frequency distribution in %

Hz	< 48.50	<49.00	49.00-50.50	> 50.50
% of time	0.00	11.26	86.56	2.18

Monthly Frequency Variation Index 3.37
 Maximum 8.79
 Minimum 0.76

4. Power Supply Position :

a. Average Energy/day (Net)

State / U.T.	Demand met MU/Day	Requirement MU/Day	Shortage MU/Day	Shortage %
Punjab	116.25	129.89	13.64	10.50
Haryana	66.97	73.43	6.46	8.80
Rajasthan	82.41	84.39	1.98	2.35
U.P.	124.65	150.82	26.17	17.35
Uttanchal	14.01	16.15	2.14	13.25
Delhi	68.89	69.43	0.54	0.78
H.P.	10.23	10.25	0.02	0.20
J & K *	20.33	28.83	8.50	29.48
Chandigarh	4.38	4.38	0.00	0.00
N.F.F./Rail	1.54	1.54	0.00	0.00
Total	509.66	569.11	59.45	10.45

b. Peak MW

State / U.T.	MAX. Demand met MW	MAX. Requirement MW	Shortage MW	Shortage %
	A	B	C	(C/B)*100
Punjab	5963	7731	1768	22.87
Haryana	3693	4245	552	13.00
Rajasthan	4193	4363	170	3.90
U.P.	6730	8537	1807	21.17
Uttanchal	837	874	37	4.23
Delhi	3600	3706	106	2.86
H.P.	665	665	0	0.00
J & K *	1199	1400	201	14.36
Chandigarh	248	248	0	0.00
N.F.F./Rail	71	71	0	0.00
Region	24864	28880	4016	13.91
Diversity Factor = 1.14				

* 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	1720.72	1754.85	34.13
Haryana	960.30	1175.72	215.42
Rajasthan	989.39	990.81	1.42
U.P.	1803.06	2038.76	235.70
Uttranchal	101.61	61.00	-40.61
Delhi	1363.27	1227.29	-135.98
H.P.	-24.99	-44.64	-19.65
J & K	612.87	523.45	-89.42
Chandigarh	128.35	131.36	3.01
N.F.F./Rail	54.44	46.11	-8.33

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

a)	From WR over HVDC Vindhyachal B/B	108.76
b)	From WR over 220 kV Ujjain-Kota	0.00
c)	From ER over HVDC Sasaram B/B	163.46
d)	From ER over 220 kV Pusauli-Sahupuri	96.13

Export

e)	To WR over HVDC Vindhyachal B/B	7.60
f)	To WR (MP) over 220 kV Auraiya-Malanpur	13.82
g)	To WR(MP) over 220 kV Kota-Ujjain	0.05
h)	To ER over 220 kV/132kV lines	7.33
i)	To ER over HVDC Sasaram B/B	6.95
j)	To Nepal over 132 kV Tanakpur-Mahendernagar	5.01

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

	STATION	INSTALLED CAPACITY		EFFECTIVE CAPACITY	
			(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+1x500	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
(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
(m)	Ghanvi	2x11.25	22.50	2x11.25 22.50
(n)	Diesel Gen. Sets		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
(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		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	1.08	47.08	98.92	4.24	0.00	0.00	0.00
02	0.00	0.00	0.49	44.79	99.51	7.24	0.00	0.00	0.00
03	0.00	0.00	3.40	63.26	96.60	1.74	0.00	0.00	0.00
04	0.00	0.00	10.24	69.10	89.76	4.51	0.00	0.00	0.00
05	0.00	0.00	2.81	36.94	92.88	25.14	4.31	0.00	0.00
06	0.00	0.00	0.00	8.65	87.64	49.86	12.36	2.29	0.00
07	0.00	0.00	0.00	11.04	98.89	47.74	1.11	0.00	0.00
08	0.00	0.00	0.00	6.50	99.17	53.25	0.83	0.00	0.00
09	0.00	0.00	0.53	23.90	90.22	27.79	9.25	1.93	0.00
10	0.00	0.00	17.32	37.61	62.92	45.63	19.76	0.53	0.00
11	0.00	0.00	18.65	76.28	81.35	1.04	0.00	0.00	0.00
12	0.00	0.00	1.18	15.86	98.82	35.27	0.00	0.00	0.00
13	0.00	0.00	13.33	69.77	86.67	6.21	0.00	0.00	0.00
14	0.00	0.00	22.86	83.43	77.14	0.49	0.00	0.00	0.00
15	0.00	0.00	26.80	83.23	73.20	0.38	0.00	0.00	0.00
16	0.00	0.00	5.52	62.10	94.48	3.06	0.00	0.00	0.00
17	0.00	0.00	23.09	87.07	76.91	0.00	0.00	0.00	0.00
18	0.00	0.00	23.09	76.94	78.85	1.25	0.17	0.00	0.00
19	0.00	0.00	7.64	47.17	92.19	16.90	0.17	0.00	0.00
20	0.00	0.00	20.35	89.82	79.65	0.00	0.00	0.00	0.00
21	0.00	0.00	19.43	85.43	80.57	2.39	0.00	0.00	0.00
22	0.00	0.00	38.80	85.27	60.89	5.35	0.31	0.00	0.00
23	0.00	0.00	2.88	39.72	95.10	21.11	2.01	0.00	0.00
24	0.00	0.00	22.64	58.75	77.36	19.51	0.00	0.00	0.00
25	0.00	0.00	27.33	87.92	72.67	0.17	0.00	0.00	0.00
26	0.00	0.00	4.62	30.90	90.42	35.14	4.97	0.00	0.00
27	0.00	0.00	0.33	22.26	94.90	49.51	2.78	0.00	0.00
28	0.00	0.00	0.52	25.97	98.65	46.08	0.83	0.00	0.00
29	0.00	0.00	0.52	12.92	93.06	56.46	6.42	0.00	0.00
30	0.00	0.00	7.36	27.64	92.05	44.03	0.59	0.00	0.00
Max	0.00	0.00	38.80	89.82	99.51	56.46	19.76	2.29	0.00
Min	0.00	0.00	0.00	6.50	60.89	0.00	0.00	0.00	0.00
Average	0.00	0.00	11.26	51.41	86.56	20.12	2.18	0.16	0.00

Frequency (Hz)				Average Frequency Hz	Frequency Variation Index
Maximum		Minimum			
Freq	Time	Freq	Time		
50.29	15.03	48.71	23.35	49.55	2.73
50.46	18.08	48.98	00.07	49.56	2.81
50.20	18.08	48.72	12.25	49.45	3.84
50.34	07.26	48.59	21.10	49.39	4.64
50.96	18.33	48.59	04.21	49.70	2.79
51.19	20.45	49.07	04.41	50.03	1.54
50.62	02.37	49.15	11.16	49.96	1.08
50.60	07.18	49.07	23.19	49.99	0.76
51.27	23.43	48.95	10.51	49.83	2.14
51.37	00.01	48.56	15.01	49.80	5.21
50.24	09.09	48.56	11.31	49.29	6.00
50.42	19.03	48.77	22.07	49.83	1.23
50.40	05.09	48.55	22.01	49.37	5.24
50.19	08.04	48.54	20.07	49.21	7.13
50.07	07.04	48.54	11.28	49.20	7.34
49.92	19.05	48.54	22.05	49.19	7.20
49.86	18.02	48.53	23.14	49.17	7.60
50.14	06.11	48.56	04.15	49.25	6.63
50.53	18.30	48.62	21.04	49.56	3.60
49.87	08.36	48.55	11.25	49.19	7.11
50.20	18.34	48.54	22.23	49.23	6.74
50.70	18.05	48.53	04.07	49.15	8.79
50.63	18.08	48.70	13.24	49.66	2.64
50.36	08.03	48.53	00.28	49.43	5.65
50.11	19.29	48.54	21.09	49.17	7.71
50.71	07.33	48.56	00.29	49.78	2.60
50.67	05.10	48.80	02.06	49.90	1.96
50.55	16.08	48.83	22.10	49.87	1.83
50.72	06.11	48.90	20.44	50.00	1.41
50.56	06.02	48.54	12.10	49.81	2.54
51.37		49.15		50.03	8.79
49.86		48.53		49.15	0.76
50.47		48.69		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	407	06.04	394	08.38	409	11.56	392	02.19	220	06.04	210	11.07	405	18.29	390	20.12
02	410	18.07	390	23.10	414	11.45	397	15.11	220	05.04	210	14.57	405	05.04	210	15.00
03	409	18.32	390	14.27	410	16.08	396	04.24	219	05.03	210	14.51	402	06.08	389	10.54
04	408	18.31	393	11.12	410	18.31	396	04.41	219	05.53	210	11.04	403	08.03	390	04.40
05	415	18.32	394	09.36	421	18.33	397	04.21	223	15.59	214	10.48	405	18.31	387	04.19
06	427	20.50	392	15.06	422	20.49	395	04.38	228	20.53	211	14.54	405	18.03	388	04.38
07	413	19.05	385	14.51	415	02.37	388	23.07	221	00.00	207	14.57	400	18.32	384	14.43
08	408	07.25	386	14.40	412	07.04	392	23.08	222	07.03	209	14.34	405	07.06	385	09.46
09	427	23.56	380	15.28	410	23.59	388	04.47	227	23.56	205	15.25	421	23.50	382	10.56
10	426	00.01	383	14.59	413	02.35	390	14.13	227	00.01	205	14.56	421	00.02	380	21.12
11	402	08.04	386	15.11	413	19.04	389	13.32	218	05.01	207	15.13	395	09.07	378	15.08
12	411	04.54	389	05.55	414	18.05	393	04.55	201	01.01	212	05.00	400	01.05	384	05.55
13	407	05.11	384	10.58	417	19.13	396	10.58	220	05.09	208	14.45	395	06.15	380	05.45
14	406	15.59	387	03.20	415	08.04	396	03.15	219	06.04	210	11.11	406	18.04	381	05.39
15	412	07.44	385	11.24	411	17.06	395	01.41	221	07.34	207	15.27	403	07.37	382	11.24
16	407	19.07	387	04.29	412	18.47	394	03.38	218	05.49	208	14.37	400	18.52	385	04.55
17	410	23.39	387	10.28	419	22.44	400	08.34	218	23.32	205	10.52	397	18.05	385	09.57
18	409	00.00	385	12.36	413	19.07	395	05.19	219	01.28	209	12.35	397	08.10	382	05.19
19	407	00.13	386	04.47	410	18.15	390	04.24	221	18.30	211	19.48	397	08.03	378	04.49
20	401	21.02	383	03.13	409	11.55	397	00.10	216	06.01	204	16.24	398	21.14	378	00.05
21	400	18.33	378	03.25	405	20.38	389	14.20	215	18.34	203	14.28	401	18.33	380	00.26
22	414	18.55	387	00.43	417	18.33	390	14.38	223	18.54	207	14.38	414	08.31	387	00.01
23	409	18.07	378	03.32	415	08.05	391	13.21	219	18.02	205	11.21	401	07.58	373	03.33
24	412	08.01	381	10.46	406	07.00	394	01.00	219	18.02	205	11.21	396	08.00	382	02.00
25	410	03.01	388	05.43	414	03.02	392	22.04	221	03.01	210	15.24	404	03.01	376	05.17
26	418	07.37	389	22.31	415	18.24	390	22.06	223	06.02	211	20.03	411	07.56	388	12.12
27	410	05.03	387	11.47	409	18.07	390	11.42	223	05.01	210	11.49	406	06.07	391	10.36
28	410	08.02	387	14.45	412	18.32	387	14.45	222	06.06	212	12.46	404	08.05	384	14.47
29	416	06.05	392	11.46	410	03.55	391	11.52	224	06.01	212	11.29	415	06.05	392	12.18
30	409	02.40	388	11.43	414	18.31	396	13.31	223	06.04	210	11.34	406	02.54	391	13.39
Max	427		394		422		400		228		214		421		392	
Min	400		378		405		387		201		203		395		210	

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	23998	25819	1821	22222	23634	1412	507.03
02	23601	25214	1613	22158	23510	1352	507.67
03	24269	25891	1622	22957	24276	1319	524.93
04	23866	25639	1773	23515	24945	1430	527.10
05	22511	24027	1516	22958	24232	1274	514.54
06	20004	21466	1462	22751	23561	810	487.62
07	22545	24013	1468	18356	18472	116	471.85
08	22930	24380	1450	22345	22775	430	512.70
09	24224	25674	1450	22857	23287	430	504.04
10	23142	25892	2750	16157	16290	133	456.35
11	23617	25211	1594	21420	23014	1594	518.08
12	24328	25922	1594	22095	22725	630	530.40
13	24280	26177	1897	23073	24708	1635	527.89
14	23751	27329	3578	23848	26430	2582	531.37
15	24207	26140	1933	23371	26570	3199	534.90
16	24289	26222	1933	23441	26640	3199	537.95
17	24108	26525	2417	23395	26426	3031	530.84
18	24369	26631	2262	23252	26562	3310	525.00
19	24011	26149	2138	24067	26761	2694	543.00
20	24591	27927	3336	24006	26759	2753	541.14
21	24864	27346	2482	24158	26802	2644	551.70
22	23889	27222	3333	23062	27916	4854	524.00
23	23995	25947	1952	24042	25228	1186	525.01
24	23917	27018	3099	24045	25138	1093	524.46
25	24109	27242	3133	22822	25955	3133	524.50
26	23842	25492	1650	22959	26952	3993	511.94
27	24148	25842	1694	22921	23598	677	517.00
28	23986	25959	1973	23737	25067	1330	527.75
29	23721	25382	1661	22507	23212	705	517.27
30	23397	25718	2321	22114	22519	405	514.64
Maximum	24864	27927	3578	24158	27916	4854	551.70
Minimum	20004	21466	1450	16157	16290	116	456.35
Average	23750	25847	2097	22687	24465	1778	519.09

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	4316	4485	3539	2628	3875	3505	3195	2656	5427	6046
02	4471	4584	3138	2743	3820	3464	3117	2716	5332	5745
03	4594	4673	3414	3146	3812	3656	3221	2763	5284	5891
04	4710	4681	3184	2906	3677	3594	3210	2844	5352	6014
05	4249	4854	3191	3193	3611	3547	2812	2853	5103	5751
06	4046	4737	1567	3192	3478	3617	3037	2751	5062	5724
07	4710	4369	3042	1593	3207	3418	3089	2319	4917	4350
08	4830	4935	3408	2994	2769	2891	3148	2664	5227	6257
09	4208	5171	3463	3202	3483	3013	3219	2650	5479	6270
10	4980	2261	2775	869	3447	2789	3146	2466	5282	5175
11	5238	5020	3193	2808	3634	2788	2940	2716	5257	6017
12	5238	5020	3286	2512	3634	2788	2940	2716	5257	6017
13	5159	5229	3361	2905	3571	3192	3143	2762	5376	6162
14	5016	5317	2912	3143	3602	3360	3182	2818	5301	6113
15	4622	4813	3195	3252	3857	3467	3239	2797	5417	5867
16	4954	4786	3399	3305	3529	3557	3247	2831	5156	5938
17	5118	5104	3285	3175	3638	3741	3250	2877	4904	5367
18	5118	5324	3571	3162	3672	3781	3096	2886	4870	4498
19	5363	5601	3552	3331	3515	3723	3033	2903	5192	5500
20	5451	5515	3256	3151	3831	3660	3287	2878	4797	5596
21	5581	5476	3437	3143	3473	3926	3402	3036	5231	5627
22	5316	5488	2700	2833	3809	3502	3155	3068	4914	5929
23	5485	5733	3407	3255	3068	3733	3223	3008	5449	5110
24	5338	5690	2754	3346	3498	3157	3464	2880	5186	5787
25	5138	5306	3007	2790	3453	3436	3290	3057	5205	5175
26	5149	5095	3361	3200	3227	3303	2994	3002	5347	5618
27	5425	5498	3513	3064	3090	2842	3131	2681	5119	5964
28	5554	5630	3396	3394	3021	3109	3080	2726	5090	5943
29	5458	5107	3478	3268	3051	2895	3001	2655	5116	5840
30	5623	5125	3203	3052	2936	2806	3115	2537	4925	5547
Maximum	5623	5733	3571	3394	3875	3926	3464	3068	5479	6270
Minimum	4046	2261	1567	869	2769	2788	2812	2319	4797	4350
Average	5015	5021	3200	2952	3476	3342	3147	2784	5177	5695

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
01	690	601	174	139	484	412	1068	990
02	673	591	184	145	543	416	978	829
03	714	570	189	149	530	425	1060	962
04	678	599	190	153	556	424	1024	951
05	630	596	164	153	559	425	883	950
06	494	574	172	153	446	410	1041	891
07	630	327	186	140	557	400	892	955
08	672	548	180	151	508	424	1009	858
09	682	555	186	131	511	411	873	938
10	660	337	185	110	496	402	805	873
11	653	539	163	153	211	127	1046	947
12	653	539	163	153	541	457	1046	947
13	685	580	189	147	549	418	1079	963
14	715	563	197	159	565	442	995	951
15	748	581	202	159	608	425	899	953
16	732	589	198	166	513	445	1020	871
17	773	616	197	157	556	430	1005	899
18	753	618	195	169	505	482	1013	814
19	713	652	179	161	547	440	1002	924
20	698	686	203	166	561	444	1029	890
21	763	540	213	174	552	446	997	903
22	763	540	207	170	506	498	982	862
23	642	500	200	184	561	464	982	862
24	677	523	163	168	565	481	798	818
25	733	577	202	179	497	504	996	622
26	669	448	161	181	518	430	962	776
27	723	502	197	136	564	474	992	787
28	688	536	185	154	587	474	933	822
29	680	468	193	159	570	453	927	758
30	710	526	192	159	554	500	945	760
Maximum	773	686	213	184	608	504	1079	990
Minimum	494	327	161	110	211	127	798	622
Average	690	547	187	156	527	433	976	878

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	100.695	67.349	85.228	67.768	128.423	14.679	4.132	10.604	22.275	1.465	502.618
02	104.720	66.705	80.255	68.235	126.290	14.023	4.301	10.710	21.629	1.631	498.498
03	107.441	71.833	86.394	70.373	129.432	14.627	4.351	10.827	21.926	1.658	518.862
04	107.322	71.324	85.808	69.595	127.845	14.615	4.256	10.603	21.456	1.560	514.383
05	104.407	68.513	87.467	64.484	126.817	13.910	3.840	10.906	20.384	1.475	502.203
06	101.143	59.298	84.684	66.470	125.862	11.978	4.151	9.615	20.708	1.510	485.419
07	106.915	55.293	81.606	62.963	115.329	11.254	4.313	10.349	20.231	1.541	469.794
08	110.790	69.687	76.166	67.577	132.118	13.799	4.195	10.405	19.968	1.668	506.374
09	101.198	66.304	79.068	68.582	134.766	13.540	4.207	10.543	20.280	1.580	500.070
10	89.626	42.619	80.200	63.924	124.973	12.439	3.996	10.495	20.463	1.471	450.206
11	114.900	63.500	84.200	67.836	130.600	13.700	4.274	10.609	20.943	1.683	512.244
12	122.010	63.706	81.240	63.777	133.356	13.553	3.801	10.408	20.834	1.547	514.232
13	118.719	68.025	80.658	68.343	130.651	14.454	4.432	10.457	20.669	1.527	517.935
14	118.098	69.191	81.851	69.371	128.848	14.030	4.478	10.419	20.966	1.528	518.780
15	117.133	68.603	88.692	70.200	127.830	15.287	4.578	10.551	20.756	1.573	525.204
16	117.322	68.578	86.820	71.053	128.156	14.979	4.542	10.230	20.333	1.519	523.532
17	120.423	68.795	87.576	72.265	112.452	15.166	4.558	10.655	20.717	1.563	514.170
18	124.557	69.227	86.925	70.325	120.218	14.444	4.489	10.276	19.573	1.215	521.250
19	129.435	72.109	89.593	67.895	124.414	14.733	4.067	10.127	20.109	0.729	533.213
20	126.787	71.601	88.584	73.096	116.572	15.357	4.718	9.776	20.581	1.365	528.437
21	127.902	72.264	90.027	75.455	124.212	15.135	4.973	10.101	20.416	1.619	542.103
22	110.911	65.889	86.579	74.017	115.136	15.945	5.039	9.629	20.372	1.608	505.125
23	124.220	71.260	83.724	75.285	117.835	12.547	4.914	10.278	20.452	1.690	522.206
24	130.193	69.329	79.901	72.605	124.881	13.884	4.766	10.396	19.323	1.573	526.850
25	120.772	65.942	82.513	72.214	118.143	14.868	4.857	10.299	19.860	1.605	511.073
26	122.472	64.998	80.909	65.427	118.409	11.684	3.555	9.130	19.941	1.610	498.134
27	127.450	65.835	70.892	67.032	127.329	15.857	4.313	10.043	19.557	1.704	510.014
28	131.000	70.013	73.021	67.633	124.644	12.893	4.391	9.626	19.710	1.637	514.569
29	120.198	71.943	71.778	66.108	125.783	13.296	4.421	9.253	17.586	1.645	502.010
30	128.767	69.273	69.935	66.756	118.262	13.626	4.451	9.638	17.866	1.472	500.046
Maximum	131.000	72.264	90.027	75.455	134.766	15.945	5.039	10.906	22.275	1.704	542.103
Minimum	89.626	42.619	69.935	62.963	112.452	11.254	3.555	9.130	17.586	0.729	450.206
Average	116.251	66.967	82.410	68.889	124.653	14.010	4.379	10.232	20.329	1.532	509.652
Month Total	3487.529	2009.007	2472.296	2066.664	3739.585	420.302	131.359	306.959	609.885	45.971	15289.557

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-Jun-2005	47401	47117	29367	39494	33379	38223	44279	37190	63113	66374	5344	3852
2-Jun-2005	46971	46892	28815	35354	32447	36108	42838	38084	62075	66753	5268	4002
3-Jun-2005	51285	49527	29205	36237	32140	34670	42855	39760	62193	68250	5139	4117
4-Jun-2005	52751	49249	29988	40675	32601	35340	42988	39318	61970	69421	5006	3921
5-Jun-2005	54214	51897	30168	38825	31807	35782	43041	35384	59184	71767	4590	3153
6-Jun-2005	52929	49627	29125	29921	31853	35136	44409	38724	58747	69271	4512	1202
7-Jun-2005	52487	57259	29325	33636	31751	34711	43496	38847	55565	55485	4547	-239
8-Jun-2005	56677	58465	31292	40232	33730	28331	46360	38817	62562	68464	5086	2162
9-Jun-2005	53578	44759	28990	44545	31685	29007	46749	37905	60374	68351	4723	3414
10-Jun-2005	47976	44706	25057	30182	30262	31171	44053	38220	56471	59786	4729	2285
11-Jun-2005	53628	55370	30406	36824	33387	34697	47535	38695	59718	64461	3701	3405
12-Jun-2005	58402	63387	32309	37583	33846	36556	47290	35118	61569	69050	3838	2810
13-Jun-2005	57878	59450	32412	41558	34473	37725	49281	37402	62284	71590	3710	2215
14-Jun-2005	57803	61325	32413	39493	34799	36030	49372	37846	62894	73216	4928	4604
15-Jun-2005	58246	61148	32886	38094	33794	37424	48864	39915	62695	72827	3697	2114
16-Jun-2005	58930	61897	33246	39261	34049	35453	49044	41012	62861	73208	3566	1764
17-Jun-2005	60670	60128	32896	39187	33470	33255	49312	42219	61827	71989	3065	2347
18-Jun-2005	60984	61550	33993	40938	34267	34643	49284	39360	61876	77372	2510	3055
19-Jun-2005	64181	66902	33774	45006	34173	37275	48860	37960	61397	73542	2926	3401
20-Jun-2005	62948	63068	33763	41904	34360	35736	48411	47157	59931	71344	2782	3078
21-Jun-2005	64513	63137	33686	42468	34133	34867	48062	49432	60080	68829	2720	3100
22-Jun-2005	56818	54189	32950	37210	31955	33907	42582	47466	55803	64807	2874	1663
23-Jun-2005	65831	69596	34617	42538	33694	31180	48139	48769	59752	68056	2320	-43
24-Jun-2005	63956	67778	34149	40899	34117	28787	47374	46378	60444	74385	1967	200
25-Jun-2005	56694	58501	33459	37791	32261	31401	42426	47394	57806	66684	1824	790
26-Jun-2005	57799	64043	33509	38745	31410	34788	39608	41050	55068	57720	1359	-1283
27-Jun-2005	60220	66423	34677	40329	31625	22851	40597	42662	59310	66193	1608	2418
28-Jun-2005	62694	69886	35096	44709	33129	25680	42627	42478	58765	63362	1089	-648
29-Jun-2005	61212	61025	35018	42316	32833	26263	41434	41138	59670	66387	1105	-753
30-Jun-2005	61044	66548	33711	39764	31963	23811	42096	41592	57052	59818	1074	-1108
Total MU	1720.720	1754.849	960.302	1175.718	989.393	990.808	1363.266	1227.292	1803.056	2038.762	101.607	60.998
Max. MWH	65831	69886	35096	45006	34799	38223	49372	49432	63113	77372	5344	4604
Min MWH	46971	44706	25057	29921	30262	22851	39608	35118	55068	55485	1074	-1283
Avg. MWH	57357	58495	32010	39191	32980	33027	45442	40910	60102	67959	3387	2033

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-Jun-2005	1398	2387	21745	19601	4186	4132	144	64	1911	1401
2-Jun-2005	2476	2477	20468	18906	4184	4301	144	74	2018	1557
3-Jun-2005	3064	1937	21193	19220	4224	4351	144	86	1726	1572
4-Jun-2005	2581	881	20139	18726	4253	4256	144	89	1814	1471
5-Jun-2005	1764	-988	20957	17734	4238	3840	144	85	1938	1390
6-Jun-2005	440	-251	20955	18115	4221	4151	144	87	1896	1423
7-Jun-2005	516	-293	21020	17700	4239	4313	144	87	1166	1454
8-Jun-2005	-1373	343	21159	17421	4325	4195	144	84	1009	1584
9-Jun-2005	-1840	779	20584	17654	4104	4207	144	83	1155	1497
10-Jun-2005	-979	-482	17654	17822	3934	3996	144	83	1171	1388
11-Jun-2005	-802	-804	18212	18340	4196	4274	144	67	1109	1616
12-Jun-2005	-1346	-2921	22514	18310	4272	3801	144	65	1842	1482
13-Jun-2005	-915	-2690	22751	18208	4396	4432	144	67	1584	1460
14-Jun-2005	-995	-1967	22855	18442	4486	4478	144	65	1589	1463
15-Jun-2005	-743	-2802	22738	18123	4445	4578	144	68	1912	1505
16-Jun-2005	-1224	-3071	22856	17852	4518	4542	144	69	1908	1450
17-Jun-2005	-1488	-2682	21547	18060	4461	4558	144	66	1982	1497
18-Jun-2005	-1572	-3114	21565	17040	4492	4489	144	67	1971	1148
19-Jun-2005	-1805	-3312	21309	17769	4433	4067	144	66	1980	663
20-Jun-2005	-2081	-3701	20969	17412	4349	4718	144	80	1799	1285
21-Jun-2005	-2218	-3104	20741	17085	4360	4973	144	87	1831	1532
22-Jun-2005	-1632	-2079	18851	16893	4070	5039	144	85	1949	1523
23-Jun-2005	-1720	-2741	20546	16968	4338	4914	144	88	1916	1485
24-Jun-2005	-1920	-2082	17691	16109	4365	4766	144	89	1740	1601
25-Jun-2005	-2110	-1971	17218	16387	4127	4857	144	90	1411	1515
26-Jun-2005	-1176	-605	18682	16565	4072	3555	144	74	2127	1536
27-Jun-2005	-702	-1295	19032	16122	4175	4313	144	147	1659	1557
28-Jun-2005	-2736	-3721	18877	16243	4166	4391	144	166	1296	1471
29-Jun-2005	-2831	-3627	18946	14192	4348	4421	144	173	1389	1472
30-Jun-2005	-3022	-3141	18894	14426	4372	4451	144	168	1304	1441
Total MU	-24.991	-44.640	612.668	523.445	128.349	131.359	4.320	2.669	50.102	43.439
Max. MWH	3064	2477	22856	19601	4518	5039	144	173	2127	1616
Min MWH	-3022	-3721	17218	14192	3934	3555	144	64	1009	663
Avg. MWH	-833	-1488	20422	17448	4278	4379	144	89	1670	1448

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-Jun-2005	39600	39928	21615	22126	18552	18860	9240	9422	9192	9367	14762	14780
2-Jun-2005	37258	37654	21186	21765	18552	18810	9240	9423	9192	9363	14345	14404
3-Jun-2005	35418	35682	21960	22395	18552	18963	9240	9423	9192	9362	14457	14504
4-Jun-2005	34134	34300	21920	22366	18552	18934	9240	9421	9192	9365	13359	13440
5-Jun-2005	24185	24347	21960	22078	16762	17140	9240	9360	9192	9320	13430	13302
6-Jun-2005	23368	23332	21373	21259	17846	17656	9028	8963	8774	8913	12728	12574
7-Jun-2005	24253	24288	21524	21399	15720	16354	9010	9338	8743	9066	11201	10654
8-Jun-2005	34755	35035	21960	22238	16760	16980	9196	9350	9111	9305	13296	12187
9-Jun-2005	35113	35402	21792	21961	17544	18123	9165	9311	9041	9204	13130	11944
10-Jun-2005	32709	32301	20635	20033	16497	16763	8754	8918	8206	8486	10771	10744
11-Jun-2005	35424	35711	21688	22228	18552	19029	9240	9422	9192	9365	13924	14164
12-Jun-2005	35424	35795	21740	22059	16670	17928	9190	9420	9086	9363	15615	15424
13-Jun-2005	34964	35317	21960	22373	18552	18970	9240	9432	9192	9376	15657	15761
14-Jun-2005	35424	35764	21960	22459	18552	18894	9240	9423	9192	9370	15317	15407
15-Jun-2005	35424	35867	21995	22569	18552	18910	9240	9423	9192	9365	15162	15217
16-Jun-2005	35424	35948	21865	22262	18552	18917	9240	9421	9192	9364	15319	15532
17-Jun-2005	35310	35797	20104	20578	18552	18919	9240	9420	9192	9363	15608	15791
18-Jun-2005	35424	35817	20645	20996	18552	18861	9240	9418	9192	9393	15650	15849
19-Jun-2005	35424	35732	21960	22334	18552	18809	9240	9367	9192	9490	15650	15629
20-Jun-2005	35424	35793	21960	22534	18552	18961	9240	9419	9192	9369	15288	15582
21-Jun-2005	35424	35705	20626	20951	18552	18897	9240	9425	9192	9366	15561	15650
22-Jun-2005	35319	35568	15221	15513	18552	18910	9240	9423	9192	9368	15802	15899
23-Jun-2005	35424	35736	21185	21654	18552	18752	9240	9419	9192	9362	15545	15483
24-Jun-2005	35424	35806	21952	22503	18234	18701	9240	9421	9192	9363	15412	15462
25-Jun-2005	35424	35919	22080	22302	18552	19031	9240	9419	9192	9364	15110	15361
26-Jun-2005	35269	35527	22010	22138	18552	18233	9175	9365	9042	9231	14877	14690
27-Jun-2005	38821	38872	22060	21966	18236	18185	9122	9306	8422	8484	14804	14381
28-Jun-2005	39757	40089	20525	20724	18186	18323	9220	9306	9154	9263	13023	12721
29-Jun-2005	39759	39992	20254	20099	17036	17210	9156	9287	9023	9180	14229	13923
30-Jun-2005	39600	39783	21694	21842	16880	17087	7778	7745	9192	9341	15102	14979
Total MU	1044.680	1052.807	639.409	647.704	540.307	550.110	274.354	279.210	272.442	277.891	434.134	431.438
Max. MWH	39759	40089	22080	22569	18552	19031	9240	9432	9192	9490	15802	15899
Min MWH	23368	23332	15221	15513	15720	16354	7778	7745	8206	8484	10771	10654
Avg. MWH	34823	35094	21314	21590	18010	18337	9145	9307	9081	9263	14471	14381

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-Jun-2005	7536	7462	11948	11791	7536	7495	9456	8868	3588	3612	15584	15709
2-Jun-2005	7166	7169	11458	11305	7584	7449	8952	8753	3824	3860	15261	15400
3-Jun-2005	6887	6911	11190	10955	7584	7398	8976	8786	3514	3541	15544	15691
4-Jun-2005	6732	6783	10667	10592	7560	7338	8952	8625	3677	3709	13980	14037
5-Jun-2005	6936	6824	10729	10598	7560	7361	8880	8601	3883	3868	15367	15486
6-Jun-2005	6560	6352	10210	9972	7416	7468	8688	8515	3706	3716	15518	15614
7-Jun-2005	5998	5686	8701	8334	7440	7437	8640	8551	3765	3789	15570	15650
8-Jun-2005	7424	7124	11026	10301	6521	6177	8640	8860	3426	3450	15424	15575
9-Jun-2005	7536	7382	9898	9583	3792	3494	7713	7687	3382	3405	15543	15660
10-Jun-2005	7166	7086	7835	7576	4053	3795	3095	2092	3677	3697	6170	6183
11-Jun-2005	8019	8162	8218	8333	7032	7077	4560	4285	3677	3707	4963	5010
12-Jun-2005	7759	7614	8664	8411	7392	7352	8310	8194	3868	3902	15982	16120
13-Jun-2005	8000	8132	9566	9470	7320	7302	8784	8708	3441	3473	15984	16141
14-Jun-2005	7810	8096	9744	9705	7368	7255	8856	8639	3441	3473	15984	16145
15-Jun-2005	7448	7734	9669	9691	7368	7259	7734	7423	3588	3622	15996	16154
16-Jun-2005	7697	7935	9823	9778	7368	7288	8712	8492	3765	3801	16016	16144
17-Jun-2005	7906	8004	9929	9911	7320	7314	8640	8504	3677	3712	15988	16115
18-Jun-2005	8000	8049	9795	9630	7320	7357	8544	8579	3529	3563	15952	16082
19-Jun-2005	8025	7950	9931	9723	4575	4328	8568	8579	3529	3562	15833	15984
20-Jun-2005	7891	8114	9778	9845	0	-196	8640	8556	3647	3680	15946	16083
21-Jun-2005	8255	8363	9960	9913	1095	695	8640	8550	3706	3742	15818	15914
22-Jun-2005	8415	8424	9964	9984	5450	4825	8592	8556	3677	3700	15616	15748
23-Jun-2005	7858	7702	10072	9826	0	-652	8832	8642	4001	4036	15405	15405
24-Jun-2005	8020	8161	10106	10111	2796	2160	8592	8566	4119	4158	5850	6044
25-Jun-2005	7956	8304	10676	10818	6390	6902	8712	8595	4296	4334	9800	9891
26-Jun-2005	7865	7645	11939	11538	7560	7482	8640	8803	4090	4126	16068	16175
27-Jun-2005	8070	7838	12818	12251	7560	7485	8640	8701	3972	4009	15972	16081
28-Jun-2005	8439	7887	12871	12287	7560	7407	9336	8698	3854	3888	15790	15908
29-Jun-2005	7829	7476	12178	11826	7584	7434	9360	8676	3485	3517	15238	15313
30-Jun-2005	8532	8200	12434	12095	7512	7452	9360	8688	3706	3739	15129	15276
Total MU	229.735	228.569	311.797	306.153	183.616	178.938	252.044	245.772	111.510	112.391	433.291	436.738
Max. MWH	8532	8424	12871	12287	7584	7495	9456	8868	4296	4334	16068	16175
Min MWH	5998	5686	7835	7576	0	-652	3095	2092	3382	3405	4963	5010
Avg. MWH	7658	7619	10393	10205	6121	5965	8401	8192	3717	3746	14443	14558

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-Jun-2005	1152	1172	9612	9699	11227	11436	16274	16162	11508	11265	7217	7031
2-Jun-2005	1122	1131	9612	9703	11285	11474	16274	16254	11043	10685	6694	6655
3-Jun-2005	1089	1112	8945	9030	11273	11521	16330	15881	11510	11372	6386	6198
4-Jun-2005	1143	1144	8833	8907	11281	11501	16389	16193	14328	13921	6452	6383
5-Jun-2005	1289	1303	9568	9725	11262	11127	16522	16479	14688	14315	6432	6316
6-Jun-2005	1262	1284	8633	8543	11278	11184	17607	16579	15145	14671	6613	5958
7-Jun-2005	1255	1325	9901	10054	11338	11411	17379	17139	15223	14579	6623	7117
8-Jun-2005	1304	1330	9479	9784	11316	11452	17305	17150	14853	13966	6459	6328
9-Jun-2005	1253	1272	5785	6213	11310	11279	17305	16536	12940	11669	6169	6013
10-Jun-2005	1386	1400	7654	8098	11241	10964	17305	17586	14460	14692	6320	5875
11-Jun-2005	1351	1385	12816	12938	11204	11386	16975	17014	15373	14751	6439	6413
12-Jun-2005	1533	1570	10480	10645	11318	11484	17616	17587	15260	14689	6025	5828
13-Jun-2005	1671	1759	11437	12075	11240	11434	17466	17260	15200	14880	5809	5538
14-Jun-2005	1840	1869	12816	12939	11265	11422	17628	17344	15190	14696	5802	5692
15-Jun-2005	1911	1948	12816	12931	11257	11449	18455	18129	15063	15000	4956	4857
16-Jun-2005	1992	2020	12816	12922	11245	11026	18294	18023	15448	14930	4531	4559
17-Jun-2005	2055	2071	12816	12937	11226	11138	18277	18097	15105	14677	4564	4541
18-Jun-2005	1823	1855	12816	12935	11279	11040	19215	19054	15088	14618	5658	5554
19-Jun-2005	1825	1843	12749	12804	11248	11489	19066	19233	15325	15104	5964	5762
20-Jun-2005	1834	1842	12816	12940	11274	11098	19066	19110	15348	14944	7178	6972
21-Jun-2005	2076	2090	12816	12938	11292	11142	18839	18904	15348	14989	6930	6833
22-Jun-2005	2155	2120	12816	12938	11292	10964	19267	19100	15108	14687	6807	6695
23-Jun-2005	2091	2125	12816	12927	11334	10948	19432	19127	15238	14769	6386	6268
24-Jun-2005	2233	2261	12816	12940	11334	10665	19614	19686	15508	15035	6741	6571
25-Jun-2005	2222	2248	12816	12940	11376	10583	19565	19384	15315	15080	7072	6922
26-Jun-2005	1792	1774	12416	12586	11376	10629	20279	20129	15220	14998	7170	7005
27-Jun-2005	1350	1312	12816	12935	11376	10735	19981	20380	15540	14779	7096	7073
28-Jun-2005	1871	1901	12816	12943	11376	10616	20794	20526	15300	14794	7231	7143
29-Jun-2005	1921	1967	12816	12942	11376	10413	25571	25105	10973	11093	7366	7275
30-Jun-2005	1485	1495	12816	12939	11376	9913	26881	26936	3690	3334	7488	7283
Total MU	49.286	49.928	340.160	344.850	338.875	332.923	560.971	556.087	425.338	412.982	192.578	188.658
Max. MWH	2233	2261	12816	12943	11376	11521	26881	26936	15540	15104	7488	7283
Min MWH	1089	1112	5785	6213	11204	9913	16274	15881	3690	3334	4531	4541
Avg. MWH	1643	1664	11339	11495	11296	11097	18699	18536	14178	13766	6419	6289

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-Jun-2005	24343	24583	7128	7194
2-Jun-2005	25306	25544	6872	6934
3-Jun-2005	29315	29554	6932	6995
4-Jun-2005	31646	31973	7244	7310
5-Jun-2005	37178	37303	7245	7293
6-Jun-2005	37320	37608	7245	7156
7-Jun-2005	37320	37672	7260	7324
8-Jun-2005	37320	37563	7272	7338
9-Jun-2005	36519	36586	7272	7208
10-Jun-2005	36593	36980	7272	7232
11-Jun-2005	37320	37707	7272	7338
12-Jun-2005	37320	37560	7272	7336
13-Jun-2005	37320	37694	6989	7050
14-Jun-2005	37320	37721	7272	7337
15-Jun-2005	37320	37700	7272	7337
16-Jun-2005	37320	37667	7272	7338
17-Jun-2005	37320	37669	7272	7337
18-Jun-2005	36938	37271	7272	7339
19-Jun-2005	35916	36231	7272	7332
20-Jun-2005	36605	36970	7272	7340
21-Jun-2005	34755	34863	7272	7340
22-Jun-2005	12353	12585	7272	7339
23-Jun-2005	34272	34612	7200	7259
24-Jun-2005	34053	34393	7200	7266
25-Jun-2005	6732	6915	6225	6284
26-Jun-2005	0	0	1900	1918
27-Jun-2005	0	0	7100	7162
28-Jun-2005	0	0	7175	7201
29-Jun-2005	0	0	7200	7266
30-Jun-2005	0	0	7200	7267
Total MU	825.724	832.924	209.923	211.370
Max. MWH	37320	37721	7272	7340
Min MWH	0	0	1900	1918
Avg. MWH	27524	27764	6997	7046

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	34.087	18.174	19.866	0.788	41.809	1.035	50.076	3.713	10.408	15.585	9.146	2.67	207.36
02	38.061	18.459	23.091	0.802	38.766	1.252	49.306	3.445	10.025	15.536	9.174	2.72	210.64
03	38.086	18.575	27.495	0.749	45.780	1.501	49.761	3.356	10.466	14.962	9.940	2.71	223.38
04	38.095	18.569	23.167	0.764	44.432	1.616	48.781	3.099	10.528	15.704	10.883	2.73	218.37
05	33.783	17.683	21.751	0.793	45.654	1.870	42.341	3.099	10.830	14.654	13.000	2.65	208.11
06	32.444	17.757	21.284	0.821	44.491	1.019	44.791	3.029	10.922	14.978	10.970	2.59	205.10
07	28.861	18.993	14.489	0.829	41.641	1.119	49.140	1.950	11.732	12.460	11.784	2.53	195.53
08	31.547	18.921	21.721	0.888	42.548	0.821	54.845	2.812	11.610	15.556	11.154	2.55	214.97
09	35.676	18.567	14.087	0.817	45.102	0.862	55.143	3.297	9.982	14.461	10.813	2.63	211.43
10	28.196	14.984	6.205	0.700	43.713	1.173	56.858	2.356	10.276	14.483	12.139	2.64	193.72
11	38.392	19.269	17.480	0.757	41.222	1.043	54.556	4.594	11.176	14.406	12.702	2.60	218.20
12	38.392	19.269	17.480	0.757	41.222	1.043	54.556	4.594	11.176	14.460	14.675	2.52	220.15
13	38.529	19.496	17.137	0.921	41.222	1.263	51.109	4.247	12.533	16.009	14.456	2.46	219.38
14	36.405	19.589	20.019	0.785	44.836	0.831	47.443	2.604	9.873	16.614	13.608	2.52	215.13
15	31.600	21.000	19.900	0.800	46.500	0.800	44.800	2.700	12.000	15.134	14.700	2.63	212.57
16	34.375	20.836	20.828	0.888	50.248	0.226	48.388	1.663	13.040	15.448	14.743	2.48	223.16
17	38.214	21.094	20.658	0.883	49.609	0.226	39.209	3.099	12.728	15.129	14.850	2.66	218.35
18	39.000	21.000	20.100	0.900	50.600	0.000	36.000	3.300	11.900	15.966	15.061	2.53	216.36
19	42.853	19.152	18.046	0.900	47.812	0.000	42.421	2.218	11.214	15.236	15.181	2.34	217.37
20	43.090	19.512	19.605	0.902	48.034	0.642	38.474	2.089	11.715	11.059	15.371	3.17	213.66
21	42.510	18.784	20.355	0.875	50.357	0.297	41.738	3.069	11.891	10.639	15.259	3.33	219.10
22	43.000	19.200	19.100	1.100	46.900	0.300	46.100	3.000	11.900	11.462	13.870	3.48	219.41
23	33.872	19.048	18.935	1.168	48.499	0.000	39.200	1.406	12.701	11.778	15.201	3.48	205.29
24	42.913	18.252	18.012	1.172	46.853	0.392	40.731	3.237	13.702	11.581	14.830	3.21	214.89
25	42.913	18.252	18.012	1.172	46.853	0.392	40.731	3.237	13.702	11.630	14.606	3.47	214.97
26	39.267	18.181	16.106	0.758	41.842	0.283	50.899	2.208	13.046	9.948	12.116	3.38	208.03
27	37.400	18.000	20.900	0.800	43.300	0.100	52.700	1.400	10.800	10.732	13.721	3.44	213.29
28	41.931	18.046	15.298	0.893	42.636	0.000	50.103	2.327	13.503	11.454	15.728	3.47	215.39
29	39.310	18.977	19.991	0.990	41.045	0.064	48.038	3.059	14.308	11.825	15.247	3.39	216.25
30	40.508	20.719	18.790	1.004	41.743	0.000	47.898	3.287	14.464	11.495	15.092	3.44	218.44
Maximum	43.09	21.09	27.50	1.17	50.60	1.87	56.86	4.59	14.46	16.61	15.73	3.48	223.38
Minimum	28.20	14.98	6.21	0.70	38.77	0.00	36.00	1.40	9.87	9.95	9.15	2.34	193.72
Average	37.44	18.95	19.00	0.88	44.84	0.67	47.20	2.92	11.81	13.68	13.33	2.88	213.60
Month Total	1123.31	568.36	569.91	26.38	1345.27	20.17	1416.13	87.49	354.15	410.38	400.02	86.44	6408.01

Month Total

XI. Performance Of Generating Stations

S.No.	Power Station	Effective Capacity MW	Energy Generated during June 2005 (Ex Bus MU)	Cummulative from 01.04.2005 (Ex-bus MU)
1	CENTRAL SECTOR			
A	NTPC (Thermal)			
(a)	Badarpur TPS	705.00	431.41	1205.05
(b)	Singrauli STPS	2000.00	1052.81	3399.09
(c)	Rihand STPS	1500.00	778.20	2091.67
(d)	Dadri NCTPS	840.00	550.11	1425.74
(e)	Unchahar-I TPS	420.00	279.21	841.41
(f)	Unchahar-II TPS	420.00	277.89	753.60
(g)	Tanda TPS	440.00	236.72	716.69
(h)	Anta GPS	419.33	228.57	626.37
(i)	Auraiya GPS	663.36	306.15	800.45
(j)	Dadri GPS	829.78	431.44	1200.86
(k)	Faridabad GPS	431.57	249.74	714.30
	Total NTPC	8669.04	4822.25	13775.22
B	NHPC			
(a)	Bairasiul	180.00	112.38	346.99
(b)	Salal	690.00	436.80	1271.90
(c)	Tanakpur HPS	94.20	49.96	117.11
(d)	Chamera HPS	540.00	344.82	905.46
(e)	Uri HPS	480.00	332.93	993.39
(f)	Chamera2 HPS	300.00	211.38	554.28
	Total NHPC	2284.20	1488.27	4189.13
C	Nathpa-Jhakri	1500.00	849.04	2109.89
D	NPC			
(a)	RAPS -A	300.00	89.81	243.00
(b)	RAPS -B	440.00	245.26	669.22
(c)	NAPS	440.00	178.91	538.86
	Total NPC	1180.00	513.98	1451.08
2	JOINTLY OWNED (BBMB)			
(a)	Bhakra Complex	1480.30	561.30	1349.35
(b)	Dehar	990.00	413.14	1110.11
(c)	Pong	396.00	188.45	374.86
	Total BBMB	2866.30	1162.89	2834.32
3	DELHI			
(a)	Indra Prastha	247.50	60.57	202.46
(b)	Rajghat	135.00	41.79	150.22
(c)	Gas Turbines	282.00	143.58	399.83
(d)	Pragati Gas	330.00	165.73	558.06
	Total DELHI	994.50	411.66	1310.57
4	HARYANA			
(a)	WYC	62.40	26.69	80.68
(b)	Faridabad (New)	165.00	61.81	179.31
(c)	Panipat	1360.00	575.99	1773.86
(d)	Magnum Diesel(IPP)*	25.20	0.00	1.44
	Total Haryana	1612.60	664.49	2035.29

contd/-

5	HP			
(a)	Giri	60.00	5.45	19.94
(b)	Bassi	60.00	31.89	95.27
(c)	Binwa	6.00	3.34	11.89
(d)	Rongtong (+Nogli+Micro+Thirot+Sal-2)	15.25	3.73	12.44
(e)	Andhra	16.95	9.31	28.07
(f)	Bhabha (H)	120.00	79.88	182.98
(g)	Baner (H)	12.00	4.70	14.14
(h)	Gaj (H)	10.50	5.47	21.27
(i)	Gumma	3.00	0.84	2.13
(j)	Ghanvi	22.50	7.55	24.96
(k)	Malana (IPP)	86.00	48.61	103.65
(l)	Baspa (IPP)	300.00	198.78	347.37
	Total HP	712.20	399.55	864.11
6	J & K			
(a)	Lower Jhelum	105.00	65.55	184.69
(b)	Upper Sindh	127.60	16.85	33.65
(c)	Ganderbal	15.00	2.47	8.19
(d)	Mohra	9.00	0.00	0.00
(e)	Chenani	32.80	2.89	5.30
(f)	Stakna	9.75	0.00	0.00
(g)	Small Hydel	3.54	0.64	2.74
(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	88.40	234.58
7	PUNJAB			
(a)	Jogindernagar/ Shanan	110.00	65.01	196.98
(b)	UBDC	90.00	57.60	153.13
(c)	Mukerian	207.00	138.44	302.75
(d)	Anandpur Sahib (APS)	134.00	87.10	163.47
(e)	Ranjit Sagar HPS	600.00	213.87	552.68
(f)	Small Hydel	4.10	0.00	0.30
(g)	GNDTPS (Bhatinda)	440.00	165.05	509.95
(h)	GGSTPS (Ropar)	1260.00	686.53	1861.17
(i)	Jhalkeri	10.00	0.00	6.00
	Peda & Sugarmill		0.00	11.00
(j)	Lehra Mohabbat TPS	420.00	258.82	542.34
	Total Punjab	3275.10	1672.42	4299.77
8	RAJASTHAN			
(a)	Mahi Bajaj Sagar	140.00	14.37	280.16
(b)	Rana Pratap Sagar (RPS)	172.00	2.75	5.28
(c)	Jawahar Sagar (JS)	99.00	2.65	4.76
(d)	Gandhi sagar	115.00		
(d)	ACW	9.00	0.71	1.76
(e)	MMH	14.85	0.65	1.73
(f)	Kota TPS	1045.00	583.65	1655.96
(g)	RAMGARH GT			
(h)	RAMGARH GT EXT	110.50	28.37	87.35
(i)	Suratgarh TPS	1250.00	744.25	2334.91
(j)	Wind Farm	259.94	59.48	123.26
(k)	Others	7.80	4.07	12.02
	Total Rajasthan	3108.09	1440.93	4507.17

contd/-

9	U.P.			
	<u>HYDRO</u>			
(a)	Rihand	300.00	35.29	101.38
(b)	Obra	99.00	16.02	43.57
(c)	Matatilla	30.00	0.70	11.74
(d)	Khara	72.00	32.14	94.56
	Total U.P. (Hydro)	501.00	84.15	251.26
	<u>THERMAL</u>			
(e)	Obra	1442.00	404.76	1322.88
(f)	Panki	242.00	75.04	212.23
(g)	Harduaganj	375.00	39.89	115.15
(h)	Paricha	220.00	46.58	196.64
(i)	Anpara	1630.00	851.03	2689.90
	Total U.P. (Thermal)	3909.00	1417.31	4536.80
	Total U.P.	4410.00	1501.46	4788.07
10	UTTRANCHAL			
(a)	Khatima	41.40	14.70	44.49
(b)	Ramganga	198.00	10.88	72.12
(c)	Ganga Canal	32.70	14.28	116.62
(d)	Yamuna (I & IV)	114.75	55.99	118.06
(e)	Chibro	240.00	87.40	222.81
(f)	Khodri	120.00	40.74	106.06
(g)	Chilla	144.00	63.29	177.98
(h)	Maneri Bhali	90.00	64.07	138.03
(i)	Sibla+Small hydel	18.20		
	Total Uttranchal	999.05	351.35	996.18
11	CHANDIGARH			
	Diesel gen set	1.40		
	Total Region	32106.35	15366.70	43395.37

* 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 JUNE 2005**(ALL FIGS IN MUs)**

FROM / TO	PUNJAB	HARYANA	RAJASTHAN	DELHI	UP	UTTRANCHAL	HP	J & K	CHANDIGARH	MALANA
PUNJAB	-		-		-	20.010****	13.575****		-	-
HARYANA	-	-	-	13.968***		17.540****	39.985*	-	-	
RAJASTHAN		-	-		-	-	-	-		
DELHI	-		-		-	-	248.600****	-	-	-
UP	-	-	-	-	-			-	-	-
UTTRANCHAL		-	-	-	-	-		-	-	-
HP	15.379***		-		3.960***	45.022***	-	-	-	-
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 JUNE 2005

(ALL FIGS IN MUs)

FROM / TO	GRIDCO	CESC	WBPCL	GUJRAT	MIZORAM	A'CHAL	KAYAKULAM	APTRANSCO	Sikkim	Assam	TRIPURA
PUNJAB		16.20*		78.400*WR			61.108****+38.434WR***			-	14.488*
HARYANA			7.950*		11.42			1.620*			
APTRANSCO											
DELHI	11.400*							--			
UP			7.025***			2.499****			10.768****	24.324*	
MPEB	-							-	-	-	
MSEB							-		-	-	
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

Summary of inter regional exchanges for June 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	-50	50	350	0.03	0.53	-0.50	0	0	0	0	0.00	0.00	0.00
02	0	0	100	100	0.21	0.28	-0.08	-23	0	0	0	0.00	0.00	0.00
03	136	50	136	50	2.48	0.00	2.48	-22	-25	0	0	0.00	0.49	-0.49
04	136	150	500	0	4.66	0.00	4.66	25	27	0	0	0.00	0.59	-0.59
05	86	136	200	100	2.49	0.12	2.36	29	26	0	30	0.00	0.61	-0.61
06	-500	136	136	500	0.78	2.88	-2.10	-20	-10	0	22	0.00	0.59	-0.59
07	55	-500	105	500	0.87	3.37	-2.50	-26	-24	0	0	0.00	0.65	-0.65
08	-50	72	136	400	1.08	1.28	-0.20	-28	-25	0	28	0.00	0.79	-0.79
09	136	137	450	500	2.50	0.81	1.70	-32	-31	0	34	0.00	0.79	-0.79
10	136	-500	500	500	2.35	3.81	-1.46	0	-32	0	34	0.00	0.23	-0.23
11	136	-300	236	0	3.25	0.00	3.25	0	0	0	34	0.00	0.23	-0.23
12	136	-300	236	500	2.62	1.41	1.21	0	0	0	0	0.00	0.00	0.00
13	136	75	200	50	0.02	0.52	-0.49	28	0	0	0	0.00	0.40	-0.40
14	0	200	200	0	1.22	0.03	1.19	-28	-26	0	0	0.00	0.69	-0.69
15	0	0	100	160	0.05	0.67	-0.62	-19	-23	0	30	0.00	0.71	-0.71
16	0	0	100	160	0.05	0.67	-0.62	-19	-23	0	30	0.00	0.71	-0.71
17	0	0	100	50	0.07	0.27	-0.20	-34	-33	0	39	0.00	0.73	-0.73
18	0	350	350	0	3.17	0.00	3.17	-14	-16	0	18	0.00	0.25	-0.25
19	0	350	350	0	3.17	0.00	3.17	-14	-16	0	18	0.00	0.25	-0.25
20	0	350	400	0	3.21	0.00	3.21	0	0	0	18	0.00	0.00	0.00
21	95	282	282	0	3.72	0.00	3.72	0	0	0	0	0.00	0.00	0.00
22	142	350	400	0	6.08	0.00	6.08	0	0	0	0	0.00	0.00	0.00
23	142	350	400	0	6.08	0.00	6.08	0	0	0	0	0.00	0.00	0.00
24	400	500	500	0	10.33	0.00	10.33	-30	-28	0	-32	0.00	0.76	-0.76
25	400	500	500	0	10.33	0.00	10.33	-30	-28	0	-32	0.00	0.76	-0.76
26	225	500	500	0	8.58	0.00	8.58	-34	-31	0	-36	0.00	0.68	-0.68
27	380	500	500	0	10.39	0.00	10.39	-17	-18	0	23	0.00	0.70	-0.70
28	380	500	500	0	10.39	0.00	10.39	-17	-18	0	23	0.00	0.70	-0.70
29	427	500	500	0	10.04	0.00	10.04	-32	-30	0	0	0.00	0.77	-0.77
30	375	500	500	0	10.57	0.00	10.57	-18	-23	0	25	0.00	0.75	-0.75
Maximum	427	500	500	500	10.57	3.81	10.57	29	27	0	39	0.00	0.79	0.00
Minimum	-500	-500	50	0	0.02	0.00	-2.50	-34	-33	0	-36	0.00	0.00	-0.79
Average	112	161	306	131	4.02	0.55	3.47	-13	-14	0	10	0.00	0.46	-0.46
Month Tota					120.75	16.64	104.10					0.00	13.84	-13.84

POWERGRID CORPORATION OF INDIA LTD.
NRLDC, New Delhi

Operational data

Summary of inter regional exchanges for June 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	90	150	50	1.09	0.00	1.09
02	0	0	0	0	0.00	0.00	0.00	0	200	200	50	1.84	0.04	1.80
03	0	0	0	0	0.00	0.00	0.00	50	200	400	50	3.10	0.00	3.10
04	0	0	0	0	0.00	0.00	0.00	50	300	450	0	6.65	0.00	6.65
05	0	0	0	0	0.00	0.00	0.00	0	350	450	0	5.13	0.00	5.13
06	0	0	0	0	0.00	0.00	0.00	-250	250	250	500	0.00	0.09	-0.09
07	0	0	0	0	0.00	0.00	0.00	-150	-500	50	500	0.01	4.47	-4.46
08	0	0	0	0	0.00	0.00	0.00	-200	50	50	200	0.28	0.52	-0.25
09	0	0	0	0	0.00	0.00	0.00	-100	-50	170	450	0.95	0.27	0.68
10	0	0	0	0	0.00	0.00	0.00	0	-500	200	500	0.88	2.24	-1.36
11	0	0	0	0	0.00	0.00	0.00	0	-150	250	50	1.58	0.06	1.52
12	0	0	0	0	0.00	0.00	0.00	0	-150	150	200	1.04	0.28	0.76
13	0	0	0	0	0.00	0.00	0.00	0	50	300	0	1.89	0.00	1.89
14	0	0	0	0	0.00	0.00	0.00	150	350	450	0	5.84	0.00	5.84
15	0	0	0	0	0.00	0.00	0.00	180	300	450	0	6.61	0.00	6.61
16	0	0	0	0	0.00	0.00	0.00	180	300	450	0	6.61	0.00	6.61
17	0	0	0	0	0.00	0.00	0.00	175	220	380	0	5.09	0.00	5.09
18	0	0	0	0	0.00	0.00	0.00	150	250	400	0	6.97	0.00	6.97
19	0	0	0	0	0.00	0.00	0.00	150	250	400	0	6.97	0.00	6.97
20	0	0	0	0	0.00	0.00	0.00	250	400	450	0	8.28	0.00	8.28
21	0	0	0	0	0.00	0.00	0.00	175	400	500	0	7.59	0.00	7.59
22	0	0	0	0	0.00	0.00	0.00	100	500	500	0	8.10	0.00	8.10
23	0	0	0	0	0.00	0.00	0.00	100	500	500	0	8.10	0.00	8.10
24	0	0	0	0	0.00	0.00	0.00	450	500	500	0	11.65	0.00	11.65
25	0	0	0	0	0.00	0.00	0.00	450	500	500	0	11.65	0.00	11.65
26	0	0	0	0	0.00	0.00	0.00	200	500	500	0	10.16	0.00	10.16
27	0	0	0	0	0.00	0.00	0.00	220	500	500	0	7.94	0.00	7.94
28	0	0	0	0	0.00	0.00	0.00	220	500	500	0	7.94	0.00	7.94
29	0	0	0	0	0.00	0.00	0.00	300	500	500	0	10.19	0.00	10.19
30	0	0	0	0	0.00	0.00	0.00	300	350	500	0	9.89	0.00	9.89
Maximum	0	0	0	0	0.00	0.00	0.00	450	500	500	500	11.65	4.47	11.65
Minimum	0	0	0	0	0.00	0.00	0.00	-250	-500	50	0	0.00	0.00	-4.46
Average	0	0	0	0	0.00	0.00	0.00	105	232	368	85	5.47	0.27	5.20
Month Total					0.00	0.00	0.00					164.01	7.95	156.06

Summary of inter regional exchanges for June 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	-28	-17	0	-35	0.00	0.49	-0.49
15	0	0	0	0	0.00	0.00	0.00	-28	-17	0	-35	0.00	0.51	-0.51
16	0	0	0	0	0.00	0.00	0.00	-20	-16	0	-27	0.00	0.57	-0.57
17	0	0	0	0	0.00	0.00	0.00	-35	-25	0	-38	0.00	0.58	-0.58
18	0	0	0	0	0.00	0.00	0.00	-25	-20	0	-32	0.00	0.51	-0.51
19	0	0	0	0	0.00	0.00	0.00	-28	-22	0	-35	0.00	0.37	-0.37
20	0	0	0	0	0.00	0.00	0.00	-35	-25	0	-38	0.00	0.20	-0.20
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	-34	-25	0	-36	0.00	0.56	-0.56
23	0	0	0	0	0.00	0.00	0.00	-28	-17	0	-35	0.00	0.41	-0.41
24	0	0	0	0	0.00	0.00	0.00	-28	-17	0	-35	0.00	0.49	-0.49
25	0	0	0	0	0.00	0.00	0.00	-20	-16	0	-27	0.00	0.42	-0.42
26	0	0	0	0	0.00	0.00	0.00	-20	-16	0	-27	0.00	0.42	-0.42
27	0	0	0	0	0.00	0.00	0.00	-20	-16	0	-27	0.00	0.42	-0.42
28	0	0	0	0	0.00	0.00	0.00	-16	-18	0	-35	0.00	0.42	-0.42
29	0	0	0	0	0.00	0.00	0.00	-16	-18	0	-35	0.00	0.49	-0.49
30	0	0	0	0	0.00	0.00	0.00	-27	-22	0	-22	0.00	0.58	-0.58
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	0.58	0.00
Minimum	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-35.00	-25.00	0.00	-38.00	0.00	0.00	-0.58
Average	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-13.60	-10.23	0.00	-17.30	0.00	0.25	-0.25
Month Tota					0.00	0.00	0.00					0.00	7.44	-7.44

POWERGRID CORPORATION OF INDIA LTD.
NRLDC, New Delhi

Operational data

Summary of inter regional exchanges for June 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	131	167	192	0	3.48	0.00	3.48	0	0	0	0	0.00	0.00	0.00
02	109	154	183	0	3.57	0.00	3.57	0	0	0	0	0.00	0.00	0.00
03	111	143	170	0	3.48	0.00	3.48	0	0	0	0	0.00	0.00	0.00
04	118	149	177	0	3.25	0.00	3.25	0	0	0	0	0.00	0.00	0.00
05	140	152	168	0	3.38	0.00	3.38	0	0	0	0	0.00	0.00	0.00
06	130	146	178	0	3.45	0.00	3.45	0	0	0	0	0.00	0.00	0.00
07	128	180	180	0	3.59	0.00	3.59	0	0	0	0	0.00	0.00	0.00
08	128	148	181	0	3.81	0.00	3.81	0	0	0	0	0.00	0.00	0.00
09	118	153	192	0	3.54	0.00	3.54	0	0	0	0	0.00	0.00	0.00
10	95	188	196	0	3.56	0.00	3.56	0	0	0	0	0.00	0.00	0.00
11	0	0	177	0	2.95	0.00	2.95	0	0	0	0	0.00	0.00	0.00
12	117	163	168	0	3.41	0.00	3.41	0	0	0	0	0.00	0.00	0.00
13	145	155	162	0	3.14	0.00	3.14	0	0	0	0	0.00	0.00	0.00
14	150	158	165	0	3.21	0.00	3.21	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	80	72	162	0	3.07	0.00	3.07	0	0	0	0	0.00	0.00	0.00
17	80	72	162	0	3.07	0.00	3.07	0	0	0	0	0.00	0.00	0.00
18	108	134	203	0	3.45	0.00	3.45	0	0	0	0	0.00	0.00	0.00
19	108	134	203	0	3.45	0.00	3.45	0	0	0	0	0.00	0.00	0.00
20	108	120	142	0	2.85	0.00	2.85	0	0	0	0	0.00	0.00	0.00
21	135	167	167	0	3.07	0.00	3.07	0	0	0	0	0.00	0.00	0.00
22	134	166	172	0	3.20	0.00	3.20	0	0	0	0	0.00	0.00	0.00
23	134	166	172	0	3.20	0.00	3.20	0	0	0	0	0.00	0.00	0.00
24	143	107	165	0	2.63	0.00	2.63	0	0	0	0	0.00	0.00	0.00
25	143	107	165	0	2.63	0.00	2.63	0	0	0	0	0.00	0.00	0.00
26	138	80	187	0	3.32	0.00	3.32	0	0	0	0	0.00	0.00	0.00
27	135	82	137	0	3.55	0.00	3.55	0	0	0	0	0.00	0.00	0.00
28	135	82	137	0	3.55	0.00	3.55	0	0	0	0	0.00	0.00	0.00
29	135	120	140	0	3.29	0.00	3.29	0	0	0	0	0.00	0.00	0.00
30	116	127	140	0	2.92	0.00	2.92	0	0	0	0	0.00	0.00	0.00
Maximum	150	188	203	0	3.81	0.00	3.81	0	0	0	0	0.00	0.00	0.00
Minimum	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
Average	115	126	165	0	3.17	0.00	3.17	0	0	0	0	0.00	0.00	0.00
Month Tota					95.06	0.00	95.06					0.00	0.00	0.00

XV. Status Of Installation Of Shunt Capacitors As On 30.06.2005**(All fig. In MVARs)**

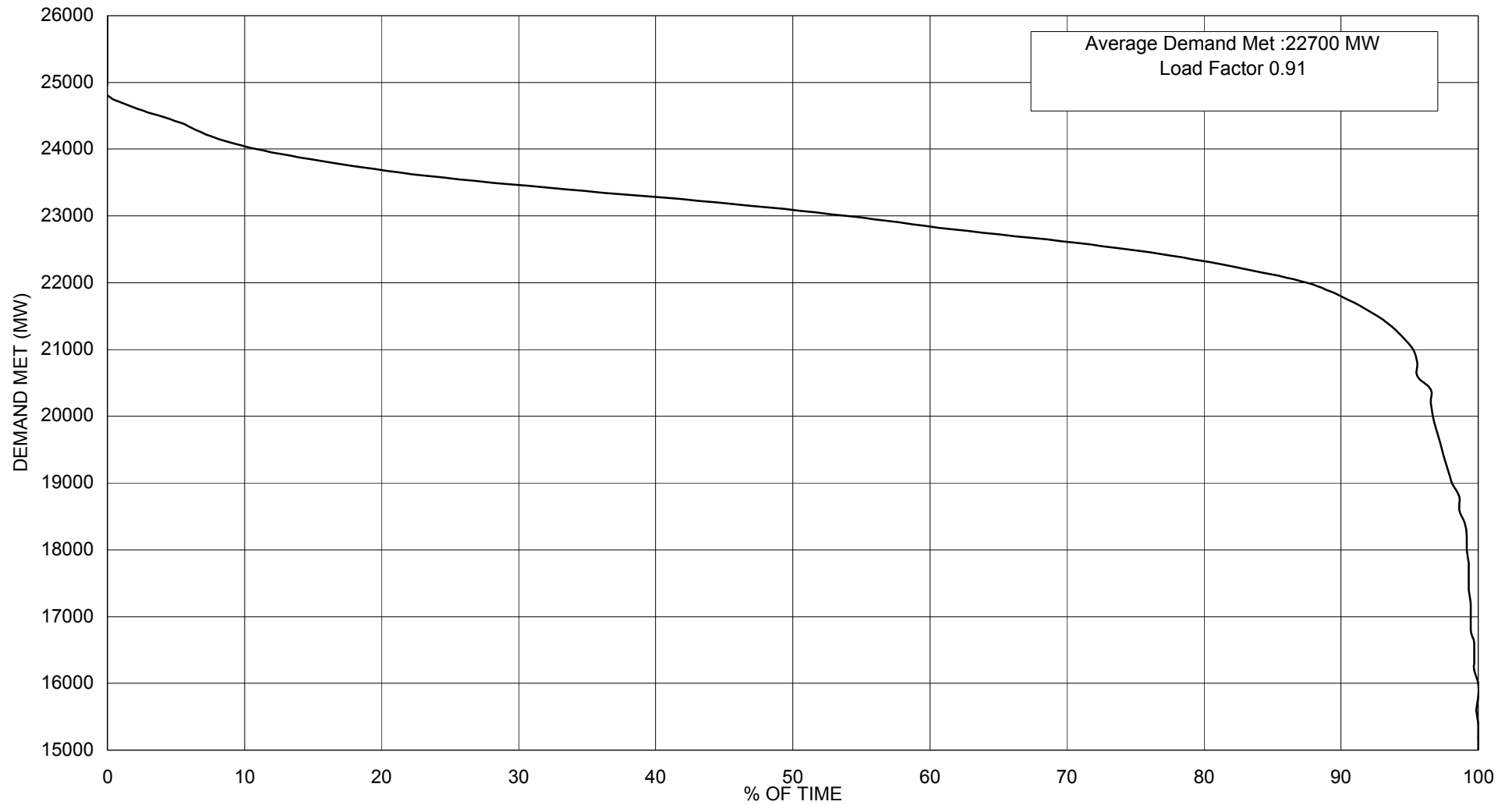
STATE/UT	Requirement by 31.03.2005 studies	Installed as on 31.03.2005	BBMB capacitors approtioned	Assuming 85% of Installed capacitors as effective. Capacitors	Additional Requirement for 2005-2006	Programme as furnished by SEB's	Installed during 2004-05 upto 31.05.2005	Balance to be installed during 2005-06	Capacitors installed as on 30.06.2005
DELHI	3155	** 3144	20	2689	466	-	148	318	3292
HARYANA	2760	2323	200	2145	615		10	605	2333
PUNJAB	4700	5000	136	4366	334		117	217	5117
RAJASTHAN	2760	3208	0	2727	33		25	8	3233
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		300	3052	19905

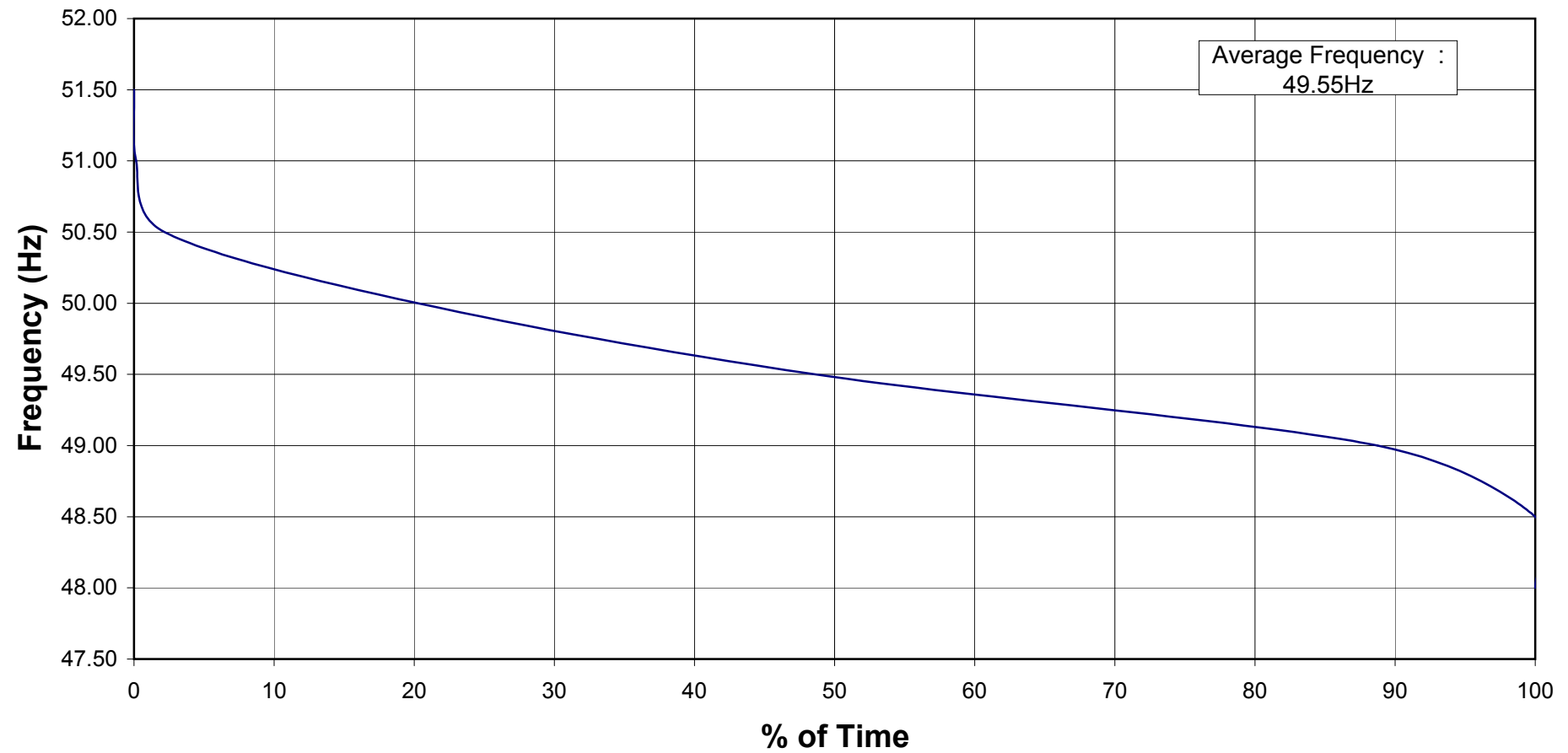
XVI. Hydraulic Data For Reservoirs During June 2005

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 JUNE 2005 (m)	480.10	395.29	253.62	350.34	382.69
	1575.14	1296.87	832.10	1149.40	1255.55
Level on last day of JUNE 2004 (m)	454.95	388.99	253.50	344.39	379.07
	1492.63	1276.23	831.70	1129.89	1243.67
Live Capacity as on last day of JUNE 2005 (mhmt)	0.26	0.12	0.00	0.11	0.03
(maft)	2.07	0.96	0.02	0.87	0.26
Live Capacity as on last day of JUNE 2004 (mhmt)	0.06	0.03	0.00	0.02	0.00
(maft)	0.47	0.28	0.04	0.16	0.00
Energy content as on last day of JUNE 2005 (MU)	900.00	150.00	15.00	192.00	350.00
Energy content as on last day of JUNE 2004 (MU)	190.00	50.00	10.00	34.00	0.00
Maximum level (m)	480.10	400.78	254.20	350.34	382.69
(ft)	1575.14	1314.91	834.00	1149.40	1255.55
(date)	30.06.2005	01.06.2005	01.06.2005	30.06.2005	30.06.2005
Minimum level (m)	468.10	395.05	253.23	350.15	382.69
(ft)	1535.75	1296.10	830.80	1148.78	1255.53
(date)	04.06.2005	26.06.2005	28.06.2005	01.06.2005	01.06.2005

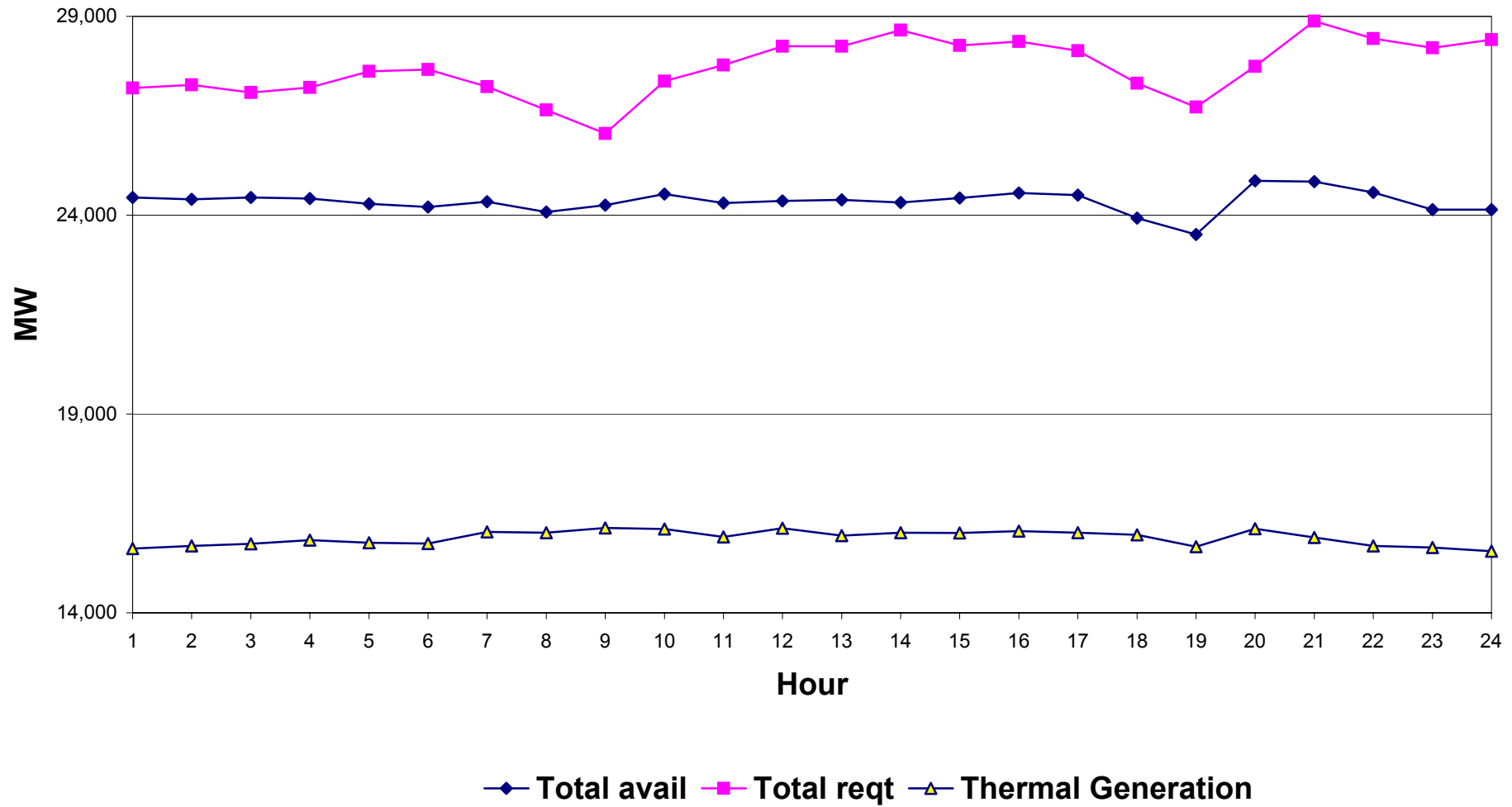
Energy content of Bhakra : Total Energy content at Bhakra, Ganguwal and Kotla power stations
Energy content of Rihand : Total Energy content at Rihand & Obra power stations
Energy content of RPS : Total Energy content of Rana Pratap Sagar and Jawahar Sagar Power Stations.
Energy Content of G. Sagar :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

Load Duration Curve For Northern Region For June 2005

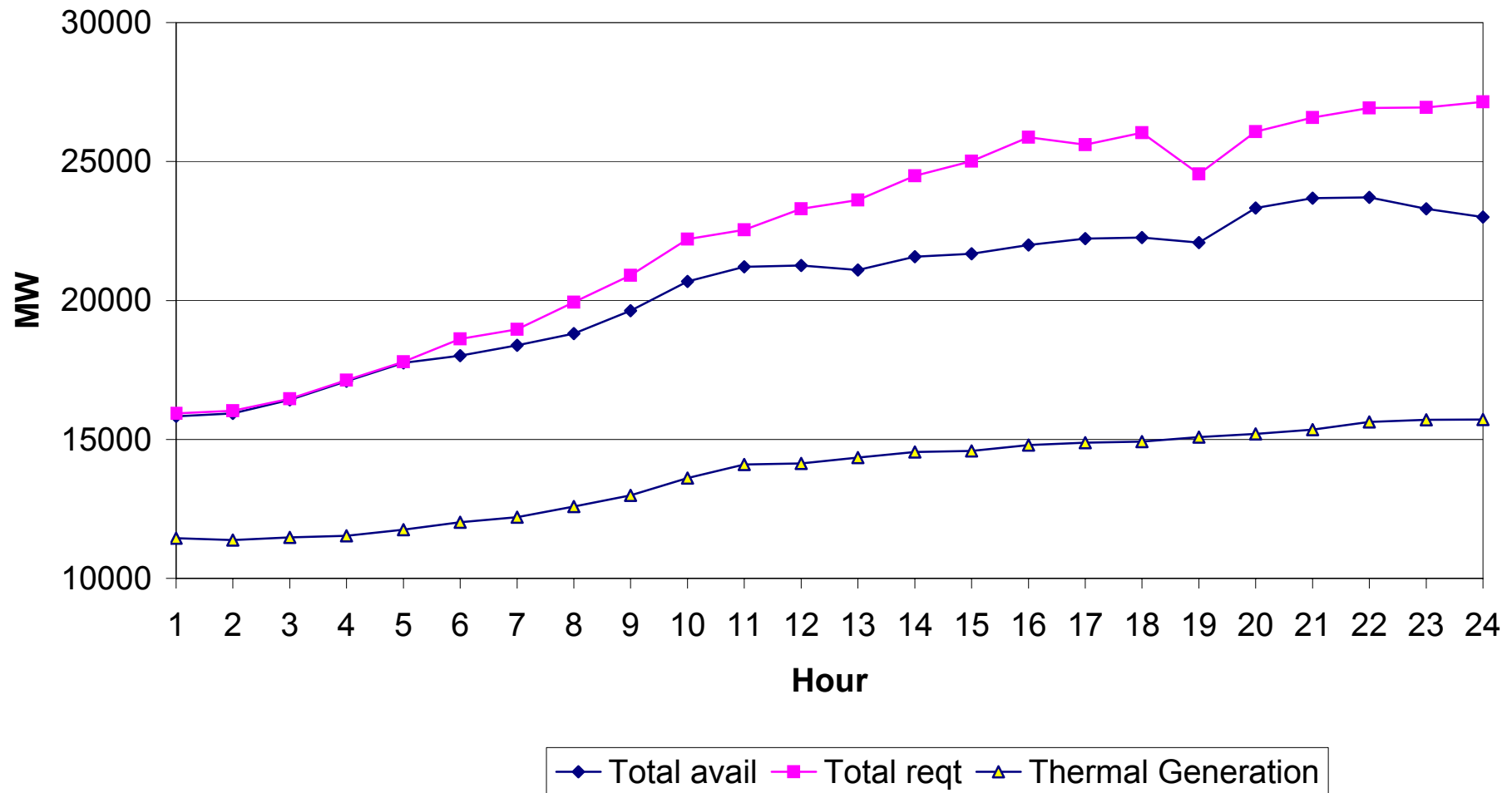


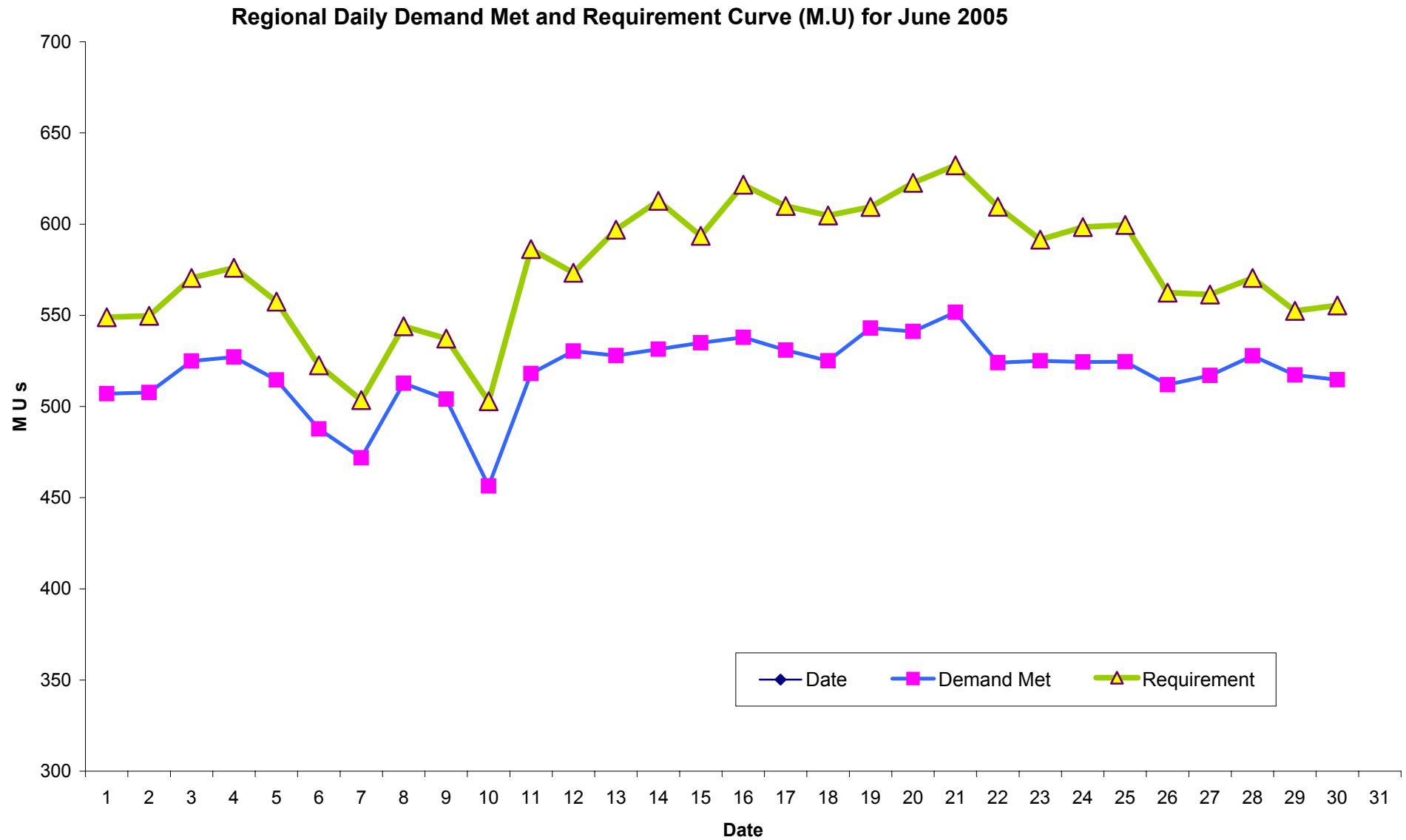
Frequency Duration Curve For Northern Region For June 2005

Load Curve Of Northern Region For Maximum Demand Met Day (21st June 2005)



Load Curve Of Northern Region For Minimum Demand Met Day (10th June 2005)





Grid Incident during June 2005		
DATE	TIME	INCIDENT
17.06.2005	22.36	Due to fire in bus-coupler CT at Obra Station of UPPCL, all running units of Obra-B Power Station tripped. All the 400 kV lines emanating from Obra-B Station also tripped. Anpara units #2 and #5 tripped due to system jerk. There was a loss of generation of about 1400 MW. The system was synchronised at 01.20 hrs./18.06.2005 through 400 kV Anpara-Obra line. All the units of Obra-B were revived by 06.15 hrs./18.06.2005 except unit #9. Anpara units #2 and #5 were synchronised at 01.34 hrs. /18.06.2005 and 23.59 hrs respectively.