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NORTHERN REGION GRID REPORT FOR THE MONTH OF APRIL 2005

A) Summary Report

1. Grid Overview during the Month

In the month of April 2005 the Power supply in the region was satisfactory . The average energy and peak MW shortages were 10.10% and 8.57%. The average system frequency was 49.74 Hz and frequency remained in normal band i.e. between 49.00 & 50.50 for 95.08% of time . The average frequency variation index during the month was 2.24 and standard deviation was 0.39. The maximum regional availability during the month was 22914 MW . The average demand met was 19320 MW and 430.62 MU in terms of energy . The maximum requirement was 25063 MW and average requirement was 478.98 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

NIL

3. Monthly Frequency Profile :

Maximum frequency	51.38	Hz	at	18.25 hrs	27.04.2005
Minimum frequency	48.51	Hz	at	00.28 hrs	12.04.2005

Average frequency	49.74	Hz
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Frequency distribution in %

Hz	< 48.50	<49.00	49.00-50.50	> 50.50
% of time	0.00	4.29	95.08	0.63

Monthly Frequency Variation Index	2.24
Maximum	5.87
Minimum	0.42

4. Power Supply Position :

a. Average Energy/day (Net)

State / U.T.	Demand met MU/Day	Requirement MU/Day	Shortage MU/Day	Shortage %
Punjab	75.77	76.59	0.82	1.07
Haryana	52.07	55.60	3.53	6.35
Rajasthan	77.32	78.32	1.00	1.28
U.P.	123.06	156.00	32.94	21.12
Uttranchal	12.68	12.85	0.17	1.32
Delhi	54.34	54.54	0.20	0.37
H.P.	9.95	9.95	0.00	0.00
J & K *	20.71	30.41	9.70	31.90
Chandigarh	3.10	3.10	0.00	0.00
N.F.F./Rail	1.62	1.62	0.00	0.00
Total	430.62	478.98	48.36	10.10

b. Peak MW

State / U.T.	MAX. Demand met MW	MAX. Requirement MW	Shortage MW	Shortage %
	A	B	C	(C/B)*100
Punjab	4202	4202	0	0.00
Haryana	3295	3379	84	2.49
Rajasthan	4026	4068	42	1.03
U.P.	6420	7999	1579	19.74
Uttranchal	781	816	35	4.29
Delhi	3041	3047	6	0.20
H.P.	604	604	0	0.00
J & K *	1147	1270	123	9.69
Chandigarh	169	169	0	0.00
N.F.F./Rail	69	69	0	0.00
Region	22914	25063	2149	8.57

Diversity Factor = 1.08

* 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	1066.87	1010.02	-56.85
Haryana	711.15	732.25	21.10
Rajasthan	772.64	803.18	30.54
U.P.	1737.61	1857.72	120.11
Uttranchal	107.00	101.70	-5.30
Delhi	890.56	813.47	-77.09
H.P.	194.13	159.41	-34.72
J & K	570.15	554.22	-15.93
Chandigarh	104.64	94.15	-10.49
N.F.F./Rail	46.77	48.44	1.67

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	73.39
d)	From ER over 220 kV Pusauli-Sahupuri	98.99

Export

e)	To WR over HVDC Vindhyachal B/B	78.79
f)	To WR (MP) over 220 kV Auraiya-Malanpur	18.46
g)	To WR(MP) over 220 kV Kota-Ujjain	0.00
h)	To ER over 220 kV/132kV lines	1.39
i)	To ER over HVDC Sasaram B/B	12.58
j)	To Nepal over 132 kV Tanakpur-Mahendernagar	6.31

B). Detailed Report**I. Details of Installed/Effective Capacity at the end of April 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	3x500* 1500.00	3x500* 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)	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

* 1x500 MW (unit-3) at Rihand and 1x250 MW (unit-8) at Panipat has not yet been declared commercial

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 30.04.2005

Agency / Source	Run-of -the -river	Reservoir	Total
NHPC	1264.00	1020.20	2284.20
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	5511.20	10816.79
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	1.18	22.57	98.82	30.21	0.00	0.00	0.00
02	0.00	0.00	7.22	37.99	92.60	17.29	0.17	0.00	0.00
03	0.00	0.00	2.47	32.88	96.88	28.13	0.66	0.00	0.00
04	0.00	0.00	6.66	27.98	93.34	33.45	0.00	0.00	0.00
05	0.00	0.00	8.72	49.24	91.28	12.85	0.00	0.00	0.00
06	0.00	0.00	7.71	23.38	91.94	38.31	0.35	0.00	0.00
07	0.00	0.00	0.00	7.29	97.95	50.71	2.05	0.00	0.00
08	0.00	0.00	2.74	42.53	97.26	13.33	0.00	0.00	0.00
09	0.00	0.00	4.76	50.90	95.10	7.88	0.14	0.00	0.00
10	0.00	0.00	0.94	17.26	98.61	44.90	0.45	0.00	0.00
11	0.00	0.00	1.77	23.92	98.23	28.30	0.00	0.00	0.00
12	0.00	0.07	19.72	67.57	80.28	02.64	0.00	0.00	0.00
13	0.00	0.00	13.68	68.16	86.32	04.97	0.00	0.00	0.00
14	0.00	0.00	7.78	42.92	92.22	3.33	0.00	0.00	0.00
15	0.00	0.00	16.38	76.45	83.62	1.25	0.00	0.00	0.00
16	0.00	0.00	9.17	53.37	90.83	7.08	0.00	0.00	0.00
17	0.00	0.00	7.15	32.05	92.74	34.24	0.10	0.00	0.00
18	0.00	0.00	2.08	23.24	97.74	18.72	0.17	0.00	0.00
19	0.00	0.00	1.25	31.10	98.13	18.85	0.62	0.00	0.00
20	0.00	0.00	0.00	8.65	100.00	44.67	0.00	0.00	0.00
21	0.00	0.00	3.47	20.52	96.53	30.56	0.00	0.00	0.00
22	0.00	0.00	0.24	29.65	99.76	25.83	0.00	0.00	0.00
23	0.00	0.00	0.00	21.13	100.00	34.93	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	92.92	73.96	7.08	0.24	0.00
25	0.00	0.00	0.00	0.49	100.00	58.65	0.00	0.00	0.00
26	0.00	0.00	2.54	12.87	96.73	53.16	0.73	0.00	0.00
27	0.00	0.00	0.97	15.56	93.85	36.49	5.17	1.15	0.00
28	0.00	0.00	0.00	4.44	99.72	52.33	0.28	0.00	0.00
29	0.00	0.00	0.03	5.87	99.97	41.94	0.00	0.00	0.00
30	0.00	0.00	0.00	1.98	99.20	64.62	0.80	0.00	0.00
Max	0.00	0.07	19.72	76.45	100.00	73.96	7.08	1.15	0.00
Min	0.00	0.00	0.00	0.00	80.28	1.25	0.00	0.00	0.00
Average	0.00	0.00	4.29	24.38	95.08	29.20	0.63	0.05	0.00

Frequency (Hz)				Average Frequency Hz	Frequency Variation Index
Maximum		Minimum			
Freq	Time	Freq	Time		
50.42	18.07	48.58	19.10	49.77	1.60
50.59	18.32	48.53	19.07	49.62	2.95
50.54	11:16	48.61	03.44	49.72	2.42
50.42	05.02	48.56	19.43	49.73	2.35
50.27	08.32	48.58	05.35	49.52	3.65
50.55	7:40	48.54	05.27	49.78	2.25
50.91	0:43	49.18	00.08	49.99	0.80
50.45	19.03	48.65	00.04	49.60	2.64
50.60	19.01	48.70	10.50	49.52	3.34
50.61	7:40	48.85	03.04	49.89	1.31
50.42	04.02	48.58	19.14	49.77	1.63
50.20	05.04	48.51	0:28	49.33	5.73
50.32	18.30	48.53	05.36	49.36	5.35
50.30	06.03	48.55	20.18	49.52	3.37
50.17	01.57	48.54	22.05	49.29	5.87
50.34	18:32	48.68	19:26	49.48	3.84
50.64	19.00	48.76	00.14	49.72	2.62
50.62	13:55	48.56	4:33	49.72	1.82
50.71	19:02	48.60	22:05	49.70	1.98
50.50	18:14	49.05	6:33	49.91	0.80
50.39	17:03	48.53	20:41	49.78	1.78
50.32	7:18	48.86	19:16	49.73	1.67
50.32	17:31	49.10	5:25	49.82	1.31
51.08	18:03	49.51	23:17	50.14	0.71
50.47	18:23	49.44	13:45	50.01	0.44
50.66	8:00	48.58	22:34	49.95	1.39
51.38	18:05	48.84	0:08	49.89	1.68
50.61	18:05	49.14	22:19	49.98	0.63
50.44	9:33	48.99	13:47	49.93	0.66
50.57	6:02	49.31	0:05	50.04	0.42
51.38		49.51		50.14	5.87
50.17		48.51		49.29	0.42
50.53		48.78		49.74	2.24

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 Voltage	Time	Minimum Voltage	Time	Maximum Voltage	Time	Minimum Voltage	Time	Maximum Voltage	Time	Minimum Voltage	Time	Maximum Voltage	Time	Minimum Voltage	Time
01	409	01.26	391	19.09	407	18.06	396	05.38	220	00.00	212	19.09	414	02.18	397	19.09
02	412	13.20	391	19.25	409	18.03	396	12.50	222	13.17	212	19.25	417	23.21	395	19.06
03	414	02.05	397	19.17	413	14.44	410	03.43	223	01.53	215	19.14	420	13.17	397	19.13
04	414	01.55	389	19.43	409	23.28	392	19.42	223	01.55	210	19.13	418	02.50	393	19.44
05	412	00.28	390	19.30	414	07.58	394	19.30	222	03.20	211	19.15	416	03.02	393	19.29
06	413	03.00	392	19.26	412	13.09	394	20.05	221	01.29	210	19.21	417	02.57	392	19.21
07	421	13.03	390	19.34	414	13.01	393	20.27	222	13.02	208	19.33	419	03.07	390	19.27
08	414	0808	393	19.40	408	08.32	395	20.00	220	01.44	211	19.27	416	08.08	393	19.28
09	414	03.42	393	15.05	404	23.31	395	19.35	221	03.43	213	10.50	415	13.05	393	19.36
10	415	09.04	394	19.23	411	09.02	393	19.23	223	08.09	215	19.23	420	16.01	394	19.22
11	413	02.08	393	05.46	407	03.52	392	05.46	224	02.08	213	19.14	418	23.41	392	19.13
12	414	01.58	392	19.50	407	08.02	395	19.50	223	01.59	214	19.08	421	00.58	390	19.50
13	414	13.01	394	19.25	410	13.00	396	19.09	223	02.00	214	18.58	415	13.00	394	19.24
14	413	02.55	390	11.37	407	00.00	396	11.37	223	02.00	214	18.58	414	00.01	389	19.18
15	409	01.56	390	19.10	409	23.47	390	11.36	221	00.12	211	10.29	412	00.13	392	19.20
16	410	8.05	389	19.24	410	9.32	393	19.24	221	8.05	211	19.21	415	13.01	394	19.09
17	413	15.02	395	19.44	413	18.36	394	5.54	222	13.02	214	19.29	420	13.58	396	19.26
18	412	12.57	390	19.13	412	12.57	394	5.47	221	04.04	211	19.13	417	13.03	391	19.13
19	412	18.31	393	19.36	412	18.17	394	16.34	221	04.02	211	19.21	414	07.58	396	19.17
20	412	02.58	395	14.51	411	08.00	391	14.51	221	07.37	211	10.54	414	01.57	396	19.22
21	412	07.03	395	19.26	425	20.48	397	14.45	220	03.30	212	19.23	414	08.13	395	19.16
22	410	00.49	395	19.16	412	00.49	394	04.48	220	05.06	213	10.08	412	04.03	399	19.17
23	414	06.01	398	11.49	411	16.17	400	14.08	221	06.07	213	11.49	415	06.04	401	19.19
24	420	18.45	401	10.06	419	18.28	400	04.54	223	18.00	210	13.55	417	17.29	393	19.38
25	411	03.07	395	19.48	410	18.23	397	14.38	221	03.59	211	19.47	411	18.23	395	09.38
26	414	06.05	389	19.32	412	07.59	397	20.40	221	01.01	209	19.28	416	18.03	394	19.35
27	425	18.09	397	05.23	421	18.10	396	04.42	226	18.15	210	11.51	416	17.46	395	19.27
28	413	01.48	393	19.46	414	08.03	400	16.37	220	01.46	210	16.18	411	13.01	395	19.46
29	412	07.45	395	13.45	408	18.45	397	13.46	220	02.28	212	19.45	414	02.28	398	19.35
30	412	18.02	399	11.38	412	18.02	397	04.56	221	17.32	214	10.23				
Max	425		401		425		410		226		215		421		401	
Min	409		389		404		390		220		208		411		389	

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	21124	22840	1716	18158	18788	630	426.75
02	21175	22818	1643	17863	18805	942	428.14
03	20703	22416	1713	18563	19687	1124	414.11
04	21361	23017	1656	17477	18220	743	427.99
05	21730	23224	1494	17979	18959	980	436.39
06	21546	22858	1312	18331	18783	452	435.99
07	22142	23546	1404	18579	19359	780	427.49
08	21709	23227	1518	18744	19374	630	430.36
09	21523	22923	1400	18735	19771	1036	432.54
10	20998	22400	1402	18056	19386	1330	415.52
11	21504	23104	1600	17485	18284	799	415.55
12	20420	22455	2035	17613	18643	1030	411.84
13	20805	22899	2094	17917	19138	1221	416.06
14	20590	23389	2799	18661	19813	1152	420.71
15	21718	24164	2446	18482	19712	1230	432.96
16	21629	23689	2060	19047	19947	900	435.77
17	21902	23657	1755	19298	20578	1280	437.10
18	21539	23902	2363	19532	20562	1030	441.30
19	22688	24143	1455	19598	20728	1130	456.65
20	22914	24367	1403	20194	21526	1332	469.22
21	22883	25063	1608	20604	21304	700	468.17
22	22696	24333	1637	20133	21463	1330	472.03
23	22014	23464	1450	20701	22031	1330	466.16
24	21058	22525	1467	20393	21123	730	461.48
25	22083	23533	1450	19764	20494	730	467.11
26	22286	23831	1545	19133	19763	630	450.66
27	19072	19999	927	19997	20971	974	443.80
28	21960	23414	1454	17252	17390	138	430.35
29	22246	23696	1450	19758	20488	730	458.40
30	21870	23325	1455	19529	19969	440	447.02
Maximum	22914	25063	2799	20701	22031	1332	472.03
Minimum	19072	19999	927	17252	17390	138	411.84
Average	21596	23274	1657	18919	19835	916	439.25

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	3586	2929	2733	2239	3553	3316	2592	1570	5258	6014
02	3532	2797	2944	2019	3574	3197	2676	1613	5146	5856
03	3398	2656	2721	2121	3504	3159	2624	1628	5087	5776
04	3828	2742	2578	2068	3624	3163	2755	1631	5136	5965
05	3915	3030	2893	2224	3605	3228	2819	1740	5098	5853
06	3931	2941	3134	2240	3553	3148	2839	1801	5303	5909
07	3815	2860	3076	2273	3671	3248	2892	1871	5428	6036
08	3705	3013	2851	2310	3596	3288	2855	1972	5318	6080
09	3789	3019	2981	2270	3633	3213	2757	1860	4869	5921
10	3610	2863	3009	2157	3459	3117	2594	1793	5008	5480
11	3707	2820	2859	2066	3537	3000	2651	1618	5058	5767
12	3776	2915	2559	2088	3387	3084	2579	1660	4932	5520
13	3690	3001	2553	2077	3380	3179	2760	1662	5147	5163
14	3699	2913	2591	2317	3112	3200	2781	1779	4947	5163
15	3913	3123	2649	2158	3656	3095	2795	1885	5266	5645
16	3671	3141	2734	2350	3586	3379	2858	1946	5516	5464
17	3787	3195	3026	2279	3568	3270	2748	1971	5270	5911
18	3587	3168	2745	2389	3513	3361	2819	1974	5382	5981
19	3912	3332	3243	2387	3769	3312	2921	1997	5290	5836
20	4025	3310	3278	2572	3760	3604	2934	2072	5156	6005
21	3943	3234	3265	2492	3678	3661	3045	2153	4445	6304
22	4010	3549	3010	2648	3712	3587	2999	2215	5420	5237
23	3956	3344	2997	2675	3237	3679	2980	2288	5234	6149
24	4011	3522	2791	2631	3445	3193	2428	2295	4514	5960
25	3380	3537	3219	2416	3500	3395	3028	2092	5318	5696
26	3763	2577	3005	2240	3767	3358	2982	2197	5249	6091
27	3869	3447	2550	2621	2892	3589	2246	2173	3972	5936
28	4033	2988	3232	2325	3318	2779	2921	1911	5031	4655
29	3825	3543	3289	2709	3376	2703	3002	2166	4972	5681
30	3882	3269	3099	2855	3236	3156	2917	2112	5248	5707
Maximum	4033	3549	3289	2855	3769	3679	3045	2295	5516	6304
Minimum	3380	2577	2550	2019	2892	2703	2246	1570	3972	4655
Average	3785	3093	2920	2341	3507	3255	2793	1922	5095	5759

Remarks: Peak - 2000 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	712	379	149	83	561	322	1076	938
02	701	423	141	82	543	325	1059	955
03	731	418	139	75	541	330	1036	865
04	774	474	155	85	551	326	1076	801
05	781	444	148	87	569	306	1042	912
06	770	471	152	83	538	336	901	613
07	756	491	153	89	560	330	893	706
08	769	483	152	91	557	326	911	521
09	738	471	152	93	576	302	933	781
10	747	451	132	92	577	316	868	736
11	764	414	148	88	601	316	1016	811
12	758	428	152	89	587	331	974	917
13	660	482	150	86	561	354	1013	911
14	703	455	159	89	588	351	1024	890
15	723	475	166	94	552	356	1065	875
16	775	474	161	98	519	344	1034	902
17	699	476	144	100	545	360	1086	866
18	695	396	166	94	556	314	1085	916
19	694	499	168	100	564	348	1068	915
20	682	495	166	107	565	383	1017	840
21	643	487	169	106	380	297	1092	942
22	671	486	153	110	568	383	1115	949
23	627	510	164	114	562	368	1078	861
24	582	523	153	116	524	358	1045	962
25	641	498	167	111	507	347	1005	965
26	621	514	162	104	605	345	890	635
27	641	493	164	109	553	365	1005	944
28	670	481	162	99	545	344	943	824
29	659	527	166	99	542	335	946	804
30	533	496	162	106	525	346	1078	867
Maximum	781	527	169	116	605	383	1115	965
Minimum	533	379	132	75	380	297	868	521
Average	697	470	156	96	551	339	1012	847

Remarks: Peak - 2000 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	72.133	49.866	77.613	48.900	122.733	11.679	3.504	10.159	22.111	1.692	420.389
02	70.386	50.682	78.105	49.070	124.601	12.365	3.691	10.121	21.967	1.655	422.643
03	66.545	48.623	77.731	46.740	119.797	12.172	3.411	10.086	21.508	1.639	408.252
04	72.452	48.121	78.617	50.200	121.945	12.591	3.230	9.950	21.111	1.721	419.938
05	74.573	51.394	77.981	51.890	123.601	13.074	3.424	10.050	21.866	1.558	429.411
06	74.744	52.003	74.761	53.760	126.379	12.830	3.390	9.969	18.830	1.627	428.293
07	70.456	50.510	75.046	54.920	127.455	12.629	3.287	10.080	14.349	1.526	420.259
08	73.094	50.181	77.613	55.620	123.638	13.122	3.253	10.264	13.218	1.688	421.692
09	74.287	50.289	77.496	51.890	123.489	13.061	3.228	10.469	18.405	1.675	424.289
10	69.904	46.423	75.535	47.400	122.126	12.351	3.017	10.330	19.523	1.725	408.334
11	68.979	47.569	75.422	49.180	119.799	12.106	2.682	10.508	20.477	1.656	408.379
12	70.111	46.101	73.396	49.790	117.212	11.714	3.032	10.190	20.701	1.689	403.937
13	70.451	46.822	73.366	50.980	115.942	12.107	2.897	9.651	22.630	1.607	406.453
14	70.703	49.274	66.497	54.970	116.022	12.340	2.946	9.970	21.338	1.629	405.689
15	74.759	44.251	77.109	54.970	122.360	12.873	2.926	10.100	22.737	1.592	423.678
16	73.003	50.490	78.113	54.360	121.922	12.516	3.080	9.745	22.266	1.562	427.056
17	71.635	50.279	79.888	52.390	124.316	12.757	2.930	9.810	22.696	1.657	428.359
18	73.326	51.933	79.062	54.290	125.608	12.414	2.457	9.778	22.260	1.527	432.654
19	79.644	53.804	81.075	56.900	125.514	13.233	3.050	9.571	21.547	1.651	445.988
20	81.192	56.189	84.253	58.440	128.324	13.059	3.159	9.672	21.823	1.635	457.747
21	79.904	58.921	82.757	60.130	128.140	12.873	3.316	9.617	21.978	1.648	459.283
22	84.364	57.020	83.585	60.610	126.614	13.502	2.975	9.621	22.391	1.614	462.295
23	83.983	56.345	80.368	60.070	129.327	13.027	3.128	10.078	17.701	1.557	455.585
24	85.791	54.477	78.511	55.570	126.446	12.653	2.953	9.384	21.647	1.599	449.032
25	84.470	58.326	79.450	59.500	127.385	13.070	2.904	9.506	20.046	1.613	456.271
26	74.584	53.098	82.284	58.700	126.674	12.752	2.747	9.851	18.856	1.579	441.126
27	77.849	52.876	78.675	56.550	120.596	12.843	3.010	9.958	20.633	1.525	434.514
28	80.323	56.593	70.607	56.280	110.468	13.163	3.065	9.867	22.102	1.566	424.034
29	84.573	60.632	69.364	58.550	121.101	13.297	2.977	10.124	22.663	1.510	444.790
30	84.993	58.913	75.447	57.470	122.365	12.134	3.335	10.008	21.875	1.519	448.060
Maximum	85.791	60.632	84.253	60.610	129.327	13.502	3.691	10.508	22.737	1.725	462.295
Minimum	66.545	44.251	66.497	46.740	110.468	11.679	2.457	9.384	13.218	1.510	403.937
Average	75.774	52.067	77.324	54.336	123.063	12.677	3.100	9.950	20.709	1.615	430.614
Month Total	2273.209	1562.006	2319.729	1630.090	3691.901	380.307	93.004	298.487	621.257	48.441	12918.431

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-Apr-2005	29903	28694	20961	24506	23213	21325	26717	23575	55934	58553	4083	5452
2-Apr-2005	29928	28761	21063	21352	22559	22111	25836	22587	57121	60556	3882	5356
3-Apr-2005	30315	30924	20620	21238	21892	22348	25192	20571	55108	58842	3704	5337
4-Apr-2005	31583	30068	22113	22455	23851	24882	28498	25047	58250	62437	4193	5203
5-Apr-2005	33001	30963	22955	21311	24474	26988	29349	27073	58679	62889	4071	4754
6-Apr-2005	35847	35033	24426	21995	25851	24597	29369	27416	58013	65385	4117	3585
7-Apr-2005	33839	31472	21000	21924	26164	24603	29299	31546	57875	62124	4058	3902
8-Apr-2005	34451	30247	23568	26069	25021	25551	28834	32914	57168	61567	3584	4497
9-Apr-2005	33168	30110	23612	27005	24586	25257	28924	28499	57485	59362	3704	4620
10-Apr-2005	31606	30921	20909	18688	23136	21158	27250	23616	54689	59695	3502	5292
11-Apr-2005	29472	25930	20102	21847	22385	21203	27500	23575	54502	58629	3534	5342
12-Apr-2005	28036	24707	19795	19953	21406	23650	27248	23200	54684	58727	3556	5112
13-Apr-2005	30646	27287	21347	22022	22388	26295	27472	24093	52956	59439	5416	4529
14-Apr-2005	34374	29161	23284	23104	24346	33853	28835	25950	54468	61048	5543	3245
15-Apr-2005	32684	30247	22101	23689	23838	28088	30754	29401	54656	56936	5501	4063
16-Apr-2005	32158	31890	21801	21849	24001	27079	30266	28496	55406	56835	5331	5319
17-Apr-2005	32929	33137	22542	21324	24725	28819	30328	26664	58323	59003	4859	4239
18-Apr-2005	33975	34892	22858	22852	25142	28944	30730	27407	59429	59608	4369	2553
19-Apr-2005	35470	39315	24333	23644	25463	29521	30779	25768	58327	60750	5746	2746
20-Apr-2005	38854	40767	26647	24917	27209	32966	32238	27078	60659	63483	5791	2088
21-Apr-2005	40660	37462	26314	24111	26794	33096	32184	28165	58096	66773	3187	1326
22-Apr-2005	43110	39952	27539	26755	28049	33743	33397	28712	59093	68537	2478	714
23-Apr-2005	42647	38789	26899	24172	28292	29297	32871	32024	59285	67309	2489	1306
24-Apr-2005	43888	43904	26487	22589	30531	27716	31156	26928	61729	68495	1448	886
25-Apr-2005	43265	41743	27491	27320	30286	28716	33306	30236	60822	69843	1445	1249
26-Apr-2005	40715	34898	25168	26326	30304	33699	31466	28960	61242	69331	1613	693
27-Apr-2005	41503	36344	26643	27820	29356	28396	29971	27156	61327	64940	1440	1625
28-Apr-2005	40453	36129	27317	34785	29911	23977	31168	31595	57682	52993	1500	1887
29-Apr-2005	38687	36880	25257	36917	28450	20048	29556	27933	62368	61328	1353	2509
30-Apr-2005	39705	39389	25996	29713	29012	25252	30064	27283	62230	62306	1506	2267
Total MU	1066.872	1010.016	711.148	732.252	772.635	803.178	890.557	813.468	1737.606	1857.723	107.003	101.696
Max. MWH	43888	43904	27539	36917	30531	33853	33397	32914	62368	69843	5791	5452
Min MWH	28036	24707	19795	18688	21406	20048	25192	20571	52956	52993	1353	693
Avg. MWH	35562	33667	23705	24408	25755	26773	29685	27116	57920	61924	3567	3390

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

Date	Himachal Pradesh		Jammu & Kashmir		Chandigarh		NFF		Railways	
	Schedule	Actual	Schedule	Actual	Schedule	Actual	Schedule	Actual	Schedule	Actual
1-Apr-2005	7453	6458	17972	19796	3464	2894	19	74	941	1618
2-Apr-2005	7033	6769	18592	19681	3374	2793	24	73	1251	1582
3-Apr-2005	6688	6987	18426	19081	3313	2526	31	72	1450	1567
4-Apr-2005	7109	6721	19027	18504	3454	3007	144	71	1994	1650
5-Apr-2005	7404	6704	19336	19540	3451	2953	144	64	1214	1494
6-Apr-2005	7328	6517	19619	17276	3527	3025	144	66	1705	1561
7-Apr-2005	7935	6519	19567	12499	3604	3011	144	66	1856	1460
8-Apr-2005	7610	6871	17464	11974	3479	3106	144	64	1123	1624
9-Apr-2005	7759	7208	15622	16622	3562	2981	144	63	1363	1612
10-Apr-2005	7410	6809	15847	17796	3445	2585	144	62	1806	1663
11-Apr-2005	7239	6712	16104	18543	3433	2901	144	79	1701	1577
12-Apr-2005	6550	6004	17549	18748	3268	2971	144	79	1061	1610
13-Apr-2005	6391	5014	18080	20367	3206	2953	144	80	1709	1527
14-Apr-2005	7370	4917	18881	18779	3349	3018	144	80	2063	1549
15-Apr-2005	5468	4744	19072	20205	3372	3285	144	82	1713	1510
16-Apr-2005	5907	5321	19243	19841	3372	3194	144	80	1942	1482
17-Apr-2005	5886	5235	19572	20161	3463	2887	144	82	1951	1575
18-Apr-2005	5935	4828	20051	19720	3463	3209	144	72	1728	1455
19-Apr-2005	5875	4208	20633	19064	3456	3414	144	71	1272	1580
20-Apr-2005	6366	2852	21772	19275	3578	3531	144	60	1630	1575
21-Apr-2005	6450	1461	21574	20220	3537	3564	144	60	1297	1588
22-Apr-2005	6080	1000	20636	19929	3554	3540	144	62	1127	1552
23-Apr-2005	6188	4822	20662	15564	3566	3485	144	61	1524	1496
24-Apr-2005	6061	5236	20857	19239	3716	3076	144	57	1321	1542
25-Apr-2005	5860	5064	20060	17699	3664	3508	144	60	982	1553
26-Apr-2005	5541	5642	20390	16405	3652	3317	144	62	846	1517
27-Apr-2005	5695	5959	20615	18213	3657	3358	144	76	905	1449
28-Apr-2005	5800	4138	17691	19584	3701	3313	144	78	1550	1488
29-Apr-2005	4769	4279	17510	20282	3454	3425	144	80	775	1430
30-Apr-2005	4970	4406	17725	19612	3501	3315	144	78	1007	1441
Total MU	194.130	159.405	570.149	554.219	104.635	94.145	3.962	2.114	42.807	46.327
Max. MWH	7935	7208	21772	20367	3716	3564	144	82	2063	1663
Min MWH	4769	1000	15622	11974	3206	2526	19	57	775	1430
Avg. MWH	6471	5314	19005	18474	3488	3138	132	70	1427	1544

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-Apr-2005	39756	40309	21711	22127	13895	14069	9231	9495	9208	9377	12050	11959
2-Apr-2005	38280	38681	21960	22401	11580	11722	9336	9528	9264	9429	13408	12268
3-Apr-2005	36747	37198	19534	19935	11038	11124	9336	9495	9264	9407	13510	13441
4-Apr-2005	39864	40287	21960	22312	13920	14113	9336	9492	9264	9392	15329	15218
5-Apr-2005	39864	40270	21960	22409	13920	14087	9336	9521	9264	9438	14610	14787
6-Apr-2005	39714	40032	21960	22161	13920	14031	9316	9486	9218	9377	13943	13717
7-Apr-2005	38241	39255	21306	21804	13895	13885	8966	9271	8696	9076	13289	13103
8-Apr-2005	39784	40400	21602	21928	13905	14114	9272	9526	9117	9434	13717	13769
9-Apr-2005	39234	40119	19883	20543	13920	14125	9336	9519	9264	9451	13441	13463
10-Apr-2005	34696	35164	20159	20587	13920	13913	9327	9477	9246	9415	13104	12835
11-Apr-2005	35424	35824	20582	20905	13920	14196	9271	9522	9115	9438	13231	13147
12-Apr-2005	35424	35806	21344	21825	13920	14352	9336	9522	9264	9447	13157	13286
13-Apr-2005	35424	35778	20575	21146	13920	14193	9336	9521	9264	9444	13559	13691
14-Apr-2005	35424	35914	20818	21324	13920	14159	9336	9521	9264	9440	13789	13771
15-Apr-2005	35424	35759	21779	22320	13743	14020	9336	9500	8760	8716	13065	13005
16-Apr-2005	35628	36068	21835	22381	13920	14202	9336	9527	8798	8813	13573	13537
17-Apr-2005	39725	40089	22080	22579	13920	14080	9309	9514	9217	9373	13684	13529
18-Apr-2005	39864	40343	22080	22650	13920	14132	9290	9522	9164	9380	13389	13339
19-Apr-2005	39864	40343	22080	22655	13520	13599	9328	9522	9247	9443	13030	12948
20-Apr-2005	39864	40163	22080	22553	13920	13961	9336	9474	9264	9395	13315	13084
21-Apr-2005	30275	30431	22080	22505	13920	14144	9301	9487	4458	4589	13006	12789
22-Apr-2005	28800	28913	22080	22451	13920	14118	9321	9522	4511	4616	12493	12239
23-Apr-2005	30251	30504	22080	22360	13920	14149	9294	9475	4512	4638	12861	12733
24-Apr-2005	38931	39108	21694	21852	11754	11877	9056	9062	4293	4432	10132	9880
25-Apr-2005	39585	39879	19492	19596	13920	14003	9227	9423	4455	4608	8154	8071
26-Apr-2005	37522	38218	21563	22127	12034	12689	8803	9052	4219	4486	7736	8124
27-Apr-2005	39511	39758	21895	21997	10991	11394	8559	8692	4438	4549	10564	10255
28-Apr-2005	39864	40187	22080	22177	11954	12312	7775	8401	4099	4420	9171	8922
29-Apr-2005	39864	40355	22046	22243	12384	13367	9240	9423	4560	4648	10396	10183
30-Apr-2005	39864	40108	22043	22211	12534	12753	9240	9341	4560	4633	11392	11164
Total MU	1122.712	1135.263	644.341	656.064	399.867	406.883	275.822	281.833	227.267	232.304	376.098	372.257
Max. MWH	39864	40400	22080	22655	13920	14352	9336	9528	9264	9451	15329	15218
Min MWH	28800	28913	19492	19596	10991	11124	7775	8401	4099	4420	7736	8071
Avg. MWH	37424	37842	21478	21869	13329	13563	9194	9394	7576	7743	12537	12409

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-Apr-2005	6672	7173	8954	8586	8037	7968	4488	4201	3500	3532	8705	8787
2-Apr-2005	6543	6660	9842	9685	7752	7563	4488	4289	3647	3680	9385	9471
3-Apr-2005	6489	6242	9833	9670	7752	7556	4488	4299	3618	3650	9730	9805
4-Apr-2005	6740	6699	10471	10410	7680	7497	4440	4295	3854	3891	10048	10147
5-Apr-2005	6787	6691	9997	9868	7608	7404	4392	4273	4090	4127	10697	10798
6-Apr-2005	7589	7639	9543	9190	7584	7427	4392	4245	3883	3917	11610	11693
7-Apr-2005	7659	7222	9464	9304	7560	7429	4344	4247	3883	3914	12095	12184
8-Apr-2005	6800	6326	10099	10044	7560	7511	4344	4263	3854	3889	13100	13213
9-Apr-2005	6543	6882	9679	9482	7536	7598	4344	4329	3794	3831	11208	11315
10-Apr-2005	3428	3446	9268	9078	7560	7736	4368	4377	3337	3363	9843	9898
11-Apr-2005	3657	3887	9460	9261	7680	7627	4416	4343	3188	3217	8539	8631
12-Apr-2005	3545	3807	9813	9625	7728	7471	4464	4310	3514	3547	8410	8490
13-Apr-2005	3480	3649	9641	9504	7728	7403	4440	4283	3927	3964	9960	10003
14-Apr-2005	3356	3424	9846	9676	7632	7379	4392	4240	4296	4336	11355	11459
15-Apr-2005	5849	6051	9872	9778	7488	7269	4368	4226	3898	3933	11393	11483
16-Apr-2005	6773	7075	9919	9724	7416	7464	4320	4234	3736	3770	10763	10864
17-Apr-2005	6546	6250	9690	9527	7296	7658	4320	4159	3898	3927	10955	11052
18-Apr-2005	6420	6500	9474	9331	7436	7576	4320	4225	3824	3856	11635	11739
19-Apr-2005	6591	6592	9742	9586	7608	7524	4272	4190	4296	4333	13215	13340
20-Apr-2005	6805	6627	11437	11314	7776	7490	4320	4161	4296	4310	14543	14631
21-Apr-2005	6743	6918	11365	11237	7632	7425	4320	4035	4296	4323	15148	15275
22-Apr-2005	6826	6801	11252	11121	7560	7469	4320	3844	4296	4323	15844	15989
23-Apr-2005	6517	6306	11033	10858	7488	7451	4810	4338	3677	3685	15893	16039
24-Apr-2005	6179	5935	9612	9338	7536	7531	8467	7090	4296	4317	15745	15885
25-Apr-2005	6939	6737	10727	10571	7536	7464	7536	8797	4208	4231	15635	15726
26-Apr-2005	7098	6997	10397	10254	7536	7523	8880	8816	3441	3469	15793	15917
27-Apr-2005	6852	6680	10037	9833	7608	7522	8856	8839	2880	2899	15127	15214
28-Apr-2005	5179	5240	7036	6889	7584	7607	8688	9153	2880	2904	12860	12935
29-Apr-2005	5194	5123	9192	9039	7584	7613	8904	9177	2880	2906	12393	12497
30-Apr-2005	5859	5651	9614	9398	7584	7642	7047	6563	2880	2901	13078	13183
Total MU	181.658	181.230	296.309	291.181	228.065	225.797	159.548	155.841	112.067	112.945	364.705	367.663
Max. MWH	7659	7639	11437	11314	8037	7968	8904	9177	4296	4336	15893	16039
Min MWH	3356	3424	7036	6889	7296	7269	4272	3844	2880	2899	8410	8490
Avg. MWH	6055	6041	9877	9706	7602	7527	5318	5195	3736	3765	12157	12255

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-Apr-2005	756	771	8589	8662	10911	11217	9176	8854	7316	7089	0	-27
2-Apr-2005	808	825	7254	7316	11105	11274	9787	9306	7961	7770	0	-21
3-Apr-2005	828	838	6052	6103	11093	11346	10370	9518	7660	7640	0	-24
4-Apr-2005	755	768	6675	6666	11081	11300	10435	8832	7868	8126	926	1037
5-Apr-2005	803	805	7120	7187	11109	11361	10137	9651	10005	10162	1138	1128
6-Apr-2005	896	912	6942	7006	11130	11313	13871	13022	11458	11403	1678	1629
7-Apr-2005	958	967	8589	8662	10293	8641	14166	13244	8085	7596	2479	2481
8-Apr-2005	898	910	7721	7790	3133	3259	13940	12976	10360	10732	2078	1718
9-Apr-2005	824	839	9568	9655	7075	6693	14069	13048	8550	9935	1347	1344
10-Apr-2005	766	779	8144	8358	10136	7957	14069	13022	7903	7712	1145	1123
11-Apr-2005	752	759	8477	8712	9666	8503	12340	11620	6385	6305	861	823
12-Apr-2005	700	714	5518	5563	10723	8842	8740	8807	6644	6549	619	630
13-Apr-2005	743	774	4406	4443	10518	10831	8486	8410	9918	9833	1463	1398
14-Apr-2005	914	928	8010	8085	10335	10680	8592	8517	13080	12769	1814	1798
15-Apr-2005	954	963	8411	8485	10360	10668	8606	8461	9303	9225	1846	1871
16-Apr-2005	894	911	7476	7541	10707	11048	8606	8492	9398	9282	2278	2229
17-Apr-2005	927	941	8233	8366	10744	11028	8606	8453	9158	9076	2021	1975
18-Apr-2005	940	949	7833	8021	10744	10994	9295	9032	9893	9695	2021	2026
19-Apr-2005	951	966	7142	7372	10711	10945	10568	9995	10470	10396	2034	2076
20-Apr-2005	966	978	8411	8485	10645	10886	10659	10007	13756	13424	2463	2450
21-Apr-2005	1002	1016	9390	9477	10916	10871	12477	11730	14945	14674	3553	3519
22-Apr-2005	1119	1130	12816	12937	10868	11028	12596	11765	15413	14938	3806	3733
23-Apr-2005	1129	1147	12816	12937	11266	7635	12654	11811	15453	14671	4020	3878
24-Apr-2005	1177	1185	12015	12128	11228	11359	12819	11880	13023	12348	4209	4006
25-Apr-2005	1141	1146	12816	12907	11301	11415	13063	12289	14000	13715	4189	4014
26-Apr-2005	1076	1085	10547	10642	11376	11321	13136	12434	13008	12961	4023	4003
27-Apr-2005	1062	1076	10547	10639	11376	11448	13978	13116	12018	11537	3458	3371
28-Apr-2005	990	981	12282	12396	11327	11455	13996	13934	13245	12303	3620	3553
29-Apr-2005	1087	1099	7587	7801	11334	11496	14147	14057	9768	9638	4911	4710
30-Apr-2005	942	953	8544	8596	11348	11492	14357	14181	10733	10477	5494	5350
Total MU	27.758	28.115	259.931	262.938	314.559	308.306	347.741	330.464	316.777	311.981	69.494	67.801
Max. MWH	1177	1185	12816	12937	11376	11496	14357	14181	15453	14938	5494	5350
Min MWH	700	714	4406	4443	3133	3259	8486	8410	6385	6305	0	-27
Avg. MWH	925	937	8664	8765	10485	10277	11591	11015	10559	10399	2316	2260

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-Apr-2005	7386	7453	2804	2831
2-Apr-2005	7360	7434	3176	3209
3-Apr-2005	7450	7515	3334	3364
4-Apr-2005	7899	7969	3366	3395
5-Apr-2005	8599	8660	4505	4551
6-Apr-2005	9339	9426	4133	4172
7-Apr-2005	9652	9720	3935	3970
8-Apr-2005	9212	9302	3935	3970
9-Apr-2005	8565	8643	3604	3636
10-Apr-2005	7957	8024	3059	3088
11-Apr-2005	7815	7890	2705	2730
12-Apr-2005	8404	8487	3257	3277
13-Apr-2005	10306	10398	4017	4056
14-Apr-2005	13251	13378	5569	5623
15-Apr-2005	13014	13147	4092	4136
16-Apr-2005	12475	12589	3879	3915
17-Apr-2005	12502	12605	3737	3774
18-Apr-2005	14212	14351	3886	3920
19-Apr-2005	14181	14301	4752	4793
20-Apr-2005	17106	17188	6237	6300
21-Apr-2005	21010	21214	6658	6723
22-Apr-2005	24476	24716	7208	7281
23-Apr-2005	22674	22892	6563	6627
24-Apr-2005	23588	23697	5841	5881
25-Apr-2005	23025	23248	6138	6195
26-Apr-2005	22675	22860	5866	5919
27-Apr-2005	21113	21122	6039	6028
28-Apr-2005	22038	22218	5519	5568
29-Apr-2005	18888	18982	5148	5094
30-Apr-2005	18393	18502	5297	5345
Total MU	424.565	427.931	138.259	139.371
Max. MWH	24476	24716	7208	7281
Min MWH	7360	7434	2705	2730
Avg. MWH	14152	14264	4609	4646

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	38.662	2.074	17.036	0.838	51.024	0.822	50.829	2.525	7.142	15.466	4.231	2.28	192.92
02	36.876	2.403	21.551	0.860	51.102	0.746	50.943	3.208	7.468	15.913	3.520	2.34	196.93
03	31.227	2.525	19.837	0.849	50.633	0.554	48.746	2.485	7.453	16.569	2.799	2.50	186.18
04	36.759	2.595	17.699	0.844	50.367	0.909	48.703	2.693	7.783	15.898	3.924	2.55	190.73
05	33.368	7.371	22.105	0.876	49.750	0.809	49.289	2.039	8.513	15.066	4.113	2.38	195.68
06	28.984	9.002	22.088	0.864	49.139	0.709	50.391	2.218	9.312	15.975	4.096	1.49	194.27
07	27.035	10.787	20.610	0.985	49.190	0.865	52.693	2.396	9.095	13.855	4.091	1.86	193.46
08	28.871	11.545	16.012	0.890	50.763	0.892	53.848	3.099	8.865	12.517	3.897	1.27	192.47
09	29.678	12.832	14.856	0.841	51.064	0.799	53.314	3.752	8.639	13.461	3.789	1.80	194.82
10	26.417	11.736	19.734	0.786	50.339	0.588	51.896	2.831	7.456	14.364	3.867	1.76	191.78
11	30.369	11.235	17.770	0.712	48.579	0.895	51.441	2.594	7.399	15.312	4.311	1.98	192.60
12	34.240	9.554	18.411	0.684	45.176	0.732	47.906	3.247	7.167	16.173	5.113	2.31	190.71
13	32.870	8.880	19.170	0.756	45.195	0.000	48.563	2.930	7.990	16.453	5.784	1.98	190.57
14	30.909	9.653	17.471	0.881	32.605	0.624	48.563	2.930	9.372	15.851	5.898	2.59	177.35
15	32.518	10.649	11.725	0.897	45.388	0.739	55.230	3.930	9.019	16.023	6.014	2.59	194.72
16	28.916	11.365	19.097	0.745	45.716	1.100	55.423	2.693	7.372	15.773	5.170	2.45	195.82
17	27.209	10.640	19.741	0.893	46.024	0.899	55.116	2.990	8.674	15.616	5.484	2.52	195.81
18	27.037	10.856	19.768	0.842	44.766	0.814	55.659	2.386	10.392	15.682	5.926	2.59	196.72
19	27.153	12.779	20.954	0.882	46.393	0.962	56.656	2.237	10.515	15.944	6.545	2.48	203.50
20	27.195	12.473	22.607	0.902	46.049	1.021	56.942	2.505	11.231	16.259	8.134	2.60	207.92
21	27.743	13.396	26.085	0.926	44.534	1.038	51.949	2.247	11.962	16.290	9.589	1.80	207.56
22	29.108	14.245	21.263	0.934	44.680	1.080	48.904	2.940	12.730	15.996	9.977	2.50	204.36
23	29.701	14.726	23.374	0.900	45.980	0.919	52.693	2.307	12.313	13.409	6.581	2.16	205.06
24	26.986	14.135	23.354	0.941	45.574	1.085	51.100	1.772	12.237	15.570	6.316	2.45	201.52
25	26.133	15.679	25.126	0.964	45.464	1.113	49.140	1.643	12.337	15.419	5.693	2.39	201.10
26	22.550	15.464	21.338	0.959	43.014	1.039	49.184	1.742	12.177	15.914	5.076	2.50	190.95
27	25.343	14.537	19.412	0.897	44.541	1.124	46.944	2.287	11.557	15.646	4.904	2.45	189.64
28	28.492	14.521	13.434	0.882	41.739	0.926	49.586	1.267	11.599	15.000	6.499	2.55	186.49
29	30.648	15.927	16.493	0.836	44.187	1.093	53.135	1.827	11.058	15.706	6.608	2.42	199.93
30	28.674	15.247	22.268	0.789	45.041	1.062	54.136	1.010	10.330	15.722	6.467	2.18	202.93
Maximum	38.66	15.93	26.08	0.99	51.10	1.12	56.94	3.93	12.73	16.57	9.98	2.60	207.92
Minimum	22.55	2.07	11.73	0.68	32.61	0.00	46.94	1.01	7.14	12.52	2.80	1.27	177.35
Average	29.72	10.96	19.68	0.86	46.47	0.87	51.63	2.49	9.64	15.43	5.48	2.26	195.48
Month Total	891.67	328.83	590.39	25.86	1394.02	25.95	1548.92	74.73	289.16	462.84	164.42	67.69	5864.48

XI. Performance Of Generating Stations

S.No.	Power Station	Effective Capacity MW	Energy Generated during April 2005 (Ex Bus MU)	Cummulative from 01.04.2004 (Ex-bus MU)
1	CENTRAL SECTOR			
A	NTPC (Thermal)			
(a)	Badarpur TPS	705.00	356.58	356.58
(b)	Singrauli STPS	2000.00	1135.26	1135.26
(c)	Rihand STPS	1000.00	657.61	657.61
(d)	Dadri NCTPS	840.00	407.05	407.05
(e)	Unchahar-I TPS	420.00	281.83	281.83
(f)	Unchahar-II TPS	420.00	232.30	232.30
(g)	Tanda TPS	440.00	215.35	215.35
(h)	Anta GPS	419.33	181.23	181.23
(i)	Auraiya GPS	663.36	191.18	191.18
(j)	Dadri GPS	829.78	372.64	372.64
(k)	Faridabad GPS	431.57	222.50	222.50
	Total NTPC	8169.04	4253.53	4253.53
B	NHPC			
(a)	Bairasiul	180.00	112.94	112.94
(b)	Salal	690.00	367.62	367.62
(c)	Tanakpur HPS	94.20	28.12	28.12
(d)	Chamera HPS	540.00	262.95	262.95
(e)	Uri HPS	480.00	308.18	308.18
(f)	Chamera2 HPS	300.00	139.38	139.38
	Total NHPC	2284.20	1219.19	1219.19
C	Nathpa-Jhakri	1500.00	0.00	0.00
D	NPC			
(a)	RAPS -A	300.00	82.29	82.29
(b)	RAPS -B	440.00	155.87	155.87
(c)	NAPS	440.00	225.83	225.83
	Total NPC	1180.00	463.99	463.99
2	JOINTLY OWNED (BBMB)			
(a)	Bhakra Complex	1480.30	346.50	346.50
(b)	Dehar	990.00	312.13	312.13
(c)	Pong	396.00	68.27	68.27
	Total BBMB	2866.30	726.89	726.89
3	DELHI			
(a)	Indra Prastha	247.50	77.19	77.19
(b)	Rajghat	135.00	54.09	54.09
(c)	Gas Turbines	282.00	127.84	127.84
(d)	Pragati Gas	330.00	205.66	205.66
	Total DELHI	994.50	464.78	464.78
4	HARYANA			
(a)	WYC	62.40	26.07	26.07
(b)	Faridabad (New)	165.00	66.66	66.66
(c)	Panipat	860.00	498.48	498.48
(d)	Magnum Diesel(IPP)*	25.20	1.44	1.44
	Total Haryana	1112.60	592.65	592.65

contd/-

5	HP			
(a)	Giri	60.00	8.51	8.51
(b)	Bassi	60.00	26.33	26.33
(c)	Binwa	6.00	4.25	4.25
(d)	Rongtong	15.25	0.00	0.00
	(+Nogli+Micro+Thirot+Sal-2)		2.53	2.53
(e)	Andhra	16.95	8.94	8.94
(f)	Bhabha (H)	120.00	27.59	27.59
(g)	Baner (H)	12.00	4.99	4.99
(h)	Gaj (H)	10.50	7.17	7.17
(i)	Gumma	3.00	1.29	1.29
(j)	Ghanvi	22.50	8.06	8.06
(k)	Malana (IPP)	86.00	23.96	23.96
(l)	Baspa (IPP)	300.00	34.07	34.07
	Total HP	712.20	157.68	157.68
6	J & K			
(a)	Lower Jhelum	105.00	56.16	56.16
(b)	Upper Sindh	127.60	8.26	8.26
(c)	Ganderbal	15.00	3.16	3.16
(d)	Mohra	9.00	0.00	0.00
(e)	Chenani	32.80	0.00	0.00
(f)	Stakna	9.75	0.00	0.00
(g)	Small Hydel	3.54	1.08	1.08
(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	68.66	68.66
7	PUNJAB			
(a)	Jogindernagar/ Shanan	110.00	53.82	53.82
(b)	UBDC	90.00	38.18	38.18
(c)	Mukerian	207.00	62.54	62.54
(d)	Anandpur Sahib (APS)	134.00	25.07	25.07
(e)	Ranjit Sagar HPS	600.00	134.00	134.00
(f)	Small Hydel	4.10	0.30	0.30
(g)	GNDTPS (Bhatinda)	440.00	160.69	160.69
(h)	GGSTPS (Ropar)	1260.00	584.06	584.06
(i)	Jhalkeri	10.00	6.00	6.00
	Peda & Sugarmill		11.00	11.00
(j)	Lehra Mohabbat TPS	420.00	134.06	134.06
	Total Punjab	3275.10	1209.72	1209.72
8	RAJASTHAN			
(a)	Mahi Bajaj Sagar	140.00	236.70	236.70
(b)	Rana Pratap Sagar (RPS)	172.00	1.41	1.41
(c)	Jawahar Sagar (JS)	99.00	0.95	0.95
(d)	Gandhi sagar	115.00		
(d)	ACW	9.00	1.05	1.05
(e)	MMH	14.85	0.56	0.56
(f)	Kota TPS	1045.00	587.08	587.08
(g)	RAMGARH GT			
(h)	RAMGARH GT EXT	110.50	27.19	27.19
(i)	Suratgarh TPS	1250.00	790.94	790.94
(j)	Wind Farm	259.94	22.92	22.92
(k)	Others	7.80	4.12	4.12
	Total Rajasthan	3108.09	1672.92	1672.92

contd/-

9	U.P.			
	<u>HYDRO</u>			
(a)	Rihand	300.00	31.39	31.39
(b)	Obra	99.00	13.07	13.07
(c)	Matatilla	30.00	0.00	0.00
(d)	Khara	72.00	31.04	31.04
	Total U.P. (Hydro)	501.00	75.49	75.49
	<u>THERMAL</u>			
(e)	Obra	1442.00	464.17	464.17
(f)	Panki	242.00	56.81	56.81
(g)	Harduaganj	375.00	77.11	77.11
(h)	Paricha	220.00	27.34	27.34
(i)	Anpara	1630.00	913.92	913.92
	Total U.P. (Thermal)	3909.00	1539.35	1539.35
	Total U.P.	4410.00	1614.84	1614.84
10	UTTRANCHAL			
(a)	Khatima	41.40	13.22	13.22
(b)	Ramganga	198.00	20.76	20.76
(c)	Ganga Canal	32.70	54.04	54.04
(d)	Yamuna (I & IV)	114.75	46.82	46.82
(e)	Chibro	240.00	65.19	65.19
(f)	Khodri	120.00	31.12	31.12
(g)	Chilla	144.00	48.88	48.88
(h)	Maneri Bhali	90.00	9.00	9.00
(i)	Sibla+Small hydel	18.20		
	Total Uttranchal	999.05	289.03	289.03
11	CHANDIGARH			
	Diesel gen set	1.40		
	Total Region	31106.35	12733.88	12733.88

* 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 APRIL 2005

(ALL FIGS IN MUs)

FROM / TO	PUNJAB	HARYANA	RAJASTHAN	DELHI	UP	UTTRANCHAL	HP	J & K	CHANDIGARH	MALANA
PUNJAB	-		-		-	-			-	-
HARYANA	-	-	-	19.080***		-	-	-	-	19.271*
RAJASTHAN		-	-		-	-	-	-		
DELHI	-		-		-	-	37.872****	-	-	-
UP	-	-	-	-	-	52.020*		-	-	-
UTTRANCHAL		-	-	-		-		-	-	-
HP	12.282***		-		3.960***	34.963***	-	-	-	-
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 APRIL 2005

(ALL FIGS IN MUs)									
FROM / TO	GRIDCO	CESC	WBPCL	TATA	Uttaranchal	DVC	APTRANSCO	Meghalaya	TRIPURA
PUNJAB		16.685*						-	11.461*
HARYANA									
RAJASTHAN									
DELHI	12.175*					--			
UP									
GEB	-			-	19.4*WR	-	-	-	
J & K					-	-	-	-	
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 April 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	0	0	100	250	0.12	0.67	-0.55	-28	-32	0	33	0.00	0.64	-0.64
02	0	-202	100	352	0.07	1.64	-1.57	-8	-17	0	20	0.00	0.61	-0.61
03	0	-202	100	252	0.06	1.42	-1.36	-26	-30	0	20	0.00	0.58	-0.58
04	0	-202	200	300	0.10	1.97	-1.87	-30	-32	0	32	0.00	0.63	-0.63
05	0	-300	150	300	0.10	1.78	-1.68	-35	-28	0	32	0.00	0.67	-0.67
06	-400	-202	0	500	0.00	5.17	-5.17	-30	-32	0	35	0.00	0.77	-0.77
07	-50	-250	0	500	0.00	5.43	-5.43	-32	-30	0	35	0.00	0.65	-0.65
08	0	-200	100	200	0.06	1.40	-1.34	-28	-30	0	36	0.00	0.62	-0.62
09	0	-202	100	400	0.06	1.39	-1.33	-29	-32	0	-38	0.00	0.66	-0.66
10	-100	-150	50	250	0.03	1.64	-1.61	-28	-32	0	-38	0.00	0.63	-0.63
11	0	-202	100	252	0.04	1.58	-1.54	-21	-19	0	22	0.00	0.64	-0.64
12	0	-202	100	202	0.19	1.29	-1.10	-25	-20	0	25	0.00	0.44	-0.44
13	0	-100	100	202	0.32	0.73	-0.41	-27	-22	0	29	0.00	0.68	-0.68
14	0	202	202	300	0.11	1.70	-1.59	-30	-28	0	35	0.00	0.71	-0.71
15	0	-200	50	202	0.03	1.09	-1.06	0	0	0	31	0.00	0.07	-0.07
16	50	-202	100	300	0.05	1.58	-1.54	18	24	0	26	0.00	0.68	-0.68
17	0	-200	0	500	0.00	4.95	-4.95	28	30	0	34	0.00	0.62	-0.62
18	0	-152	0	500	0.00	4.89	-4.89	28	30	0	34	0.00	0.64	-0.64
19	0	-202	0	475	0.00	3.69	-3.69	27	30	0	34	0.00	0.66	-0.66
20	-50	-350	0	450	0.00	4.91	-4.91	25	-32	0	34	0.00	0.66	-0.66
21	0	-302	0	450	0.00	4.01	-4.01	-27	-30	0	30	0.00	0.72	-0.72
22	-50	-202	0	300	0.00	2.41	-2.41	-32	-35	0	37	0.00	0.77	-0.77
23	-50	-202	0	250	0.00	2.59	-2.59	-32	-30	0	35	0.00	0.70	-0.70
24	-50	-250	0	250	0.00	3.67	-3.67	-28	-30	0	32	0.00	0.60	-0.60
25	-50	-203	0	250	0.00	2.78	-2.78	-29	-32	0	35	0.00	0.62	-0.62
26	0	-202	50	250	0.04	2.28	-2.24	-30	-32	0	35	0.00	0.61	-0.61
27	-500	-130	50	500	0.01	4.34	-4.33	-25	-26	0	37	0.00	0.50	-0.50
28	-100	-500	0	500	0.00	5.94	-5.94	-28	-25	0	37	0.00	0.48	-0.48
29	-25	-100	200	350	0.06	2.22	-2.16	-26	-25	0	37	0.00	0.48	-0.48
30	-50	-100	100	200	0.06	1.39	-1.33	-31	-30	0	35	0.00	0.56	-0.56
Maximum	50	202	202	500	0.32	5.94	-0.41	28	30	0	37	0.00	0.77	-0.07
Minimum	-500	-500	0	200	0.00	0.67	-5.94	-35	-35	0	-38	0.00	0.07	-0.77
Average	-48	-190	65	333	0.05	2.68	-2.63	-18	-20	0	27	0.00	0.61	-0.61
Month Tota					1.49	80.53	-79.04					0.00	18.29	-18.29

POWERGRID CORPORATION OF INDIA LTD.
NRLDC, New Delhi

Operational data

Summary of inter regional exchanges for April 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	50	150	200	0	2.08	0.00	2.08
02	0	0	0	0	0.00	0.00	0.00	100	335	335	0	3.61	0.00	3.61
03	0	0	0	0	0.00	0.00	0.00	100	350	425	0	5.68	0.00	5.68
04	0	0	0	0	0.00	0.00	0.00	180	300	350	0	3.63	0.00	3.63
05	0	0	0	0	0.00	0.00	0.00	50	180	280	0	3.01	0.00	3.01
06	0	0	0	0	0.00	0.00	0.00	100	300	300	0	3.26	0.00	3.26
07	0	0	0	0	0.00	0.00	0.00	100	160	395	0	1.89	0.00	1.89
08	0	0	0	0	0.00	0.00	0.00	140	280	380	0	4.22	0.00	4.22
09	0	0	0	0	0.00	0.00	0.00	120	340	340	0	3.76	0.00	3.76
10	0	0	0	0	0.00	0.00	0.00	120	275	300	0	3.20	0.00	3.20
11	0	0	0	0	0.00	0.00	0.00	100	280	450	0	3.62	0.00	3.62
12	0	0	0	0	0.00	0.00	0.00	135	320	450	0	4.73	0.00	4.73
13	0	0	0	0	0.00	0.00	0.00	100	300	400	0	4.89	0.00	4.89
14	0	0	0	0	0.00	0.00	0.00	100	300	300	0	3.99	0.00	3.99
15	0	0	0	0	0.00	0.00	0.00	100	300	400	0	3.87	0.00	3.87
16	0	0	0	0	0.00	0.00	0.00	50	310	310	0	3.93	0.00	3.93
17	0	0	0	0	0.00	0.00	0.00	50	300	365	0	3.55	0.00	3.55
18	0	0	0	0	0.00	0.00	0.00	150	150	250	0	2.32	0.00	2.32
19	0	0	0	0	0.00	0.00	0.00	50	285	285	0	2.73	0.00	2.73
20	0	0	0	0	0.00	0.00	0.00	100	100	300	100	1.83	1.00	0.83
21	0	0	0	0	0.00	0.00	0.00	100	50	300	0	3.40	0.00	3.40
22	0	0	0	0	0.00	0.00	0.00	50	200	200	100	2.26	0.21	2.05
23	0	0	0	0	0.00	0.00	0.00	50	200	200	150	1.26	0.76	0.50
24	0	0	0	0	0.00	0.00	0.00	-350	50	50	400	0.27	2.03	-1.76
25	0	0	0	0	0.00	0.00	0.00	-50	-50	180	250	0.90	1.43	-0.54
26	0	0	0	0	0.00	0.00	0.00	100	-200	200	350	0.67	2.51	-1.84
27	0	0	0	0	0.00	0.00	0.00	-400	150	200	500	1.33	3.69	-2.36
28	0	0	0	0	0.00	0.00	0.00	-100	-400	50	400	0.32	4.99	-4.67
29	0	0	0	0	0.00	0.00	0.00	-50	50	200	250	1.05	1.22	-0.17
30	0	0	0	0	0.00	0.00	0.00	-300	100	400	350	1.51	2.46	-0.95
Maximum	0	0	0	0	0.00	0.00	0.00	180	350	450	500	5.68	4.99	5.68
Minimum	0	0	0	0	0.00	0.00	0.00	-400	-400	50	0	0.27	0.00	-4.67
Average	0	0	0	0	0.00	0.00	0.00	35	182	293	95	2.76	0.68	2.08
Month Tota					0.00	0.00	0.00					82.74	20.29	62.46

Summary of inter regional exchanges for April 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	01	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
02	02	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
03	03	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
04	04	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
05	05	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
06	06	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
07	07	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
08	08	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
09	09	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
10	10	0	0	0	0.00	0.00	0.00	0	-20	0	0	25.00	0.00	0.13
11	11	0	0	0	0.00	0.00	0.00	0	-15	-14	0	20.00	0.00	0.24
12	12	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
13	13	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
14	14	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
15	15	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
16	16	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
17	17	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
18	18	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
19	19	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
20	20	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
21	21	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
22	22	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
23	23	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
24	24	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
25	25	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
26	26	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
27	27	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
28	28	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
29	29	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
30	30	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
Maximum	30.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25.00	0.00	0.24
Minimum	29.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-20.00	-14.00	0.00	0.00	0.00	0.00
Average	29.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-1.17	-0.47	0.00	1.50	0.00	0.01
Month Tota					0.00	0.00	0.00					45.00	0.00	0.38

POWERGRID CORPORATION OF INDIA LTD.
NRLDC, New Delhi

Operational data

Smmary of inter regional exchanges for April 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	128	132	158	0	3.24	0.00	3.24	0	0	0	0	0.00	0.00	0.00
02	128	100	165	0	3.31	0.00	3.31	0	0	0	0	0.00	0.00	0.00
03	135	125	160	0	3.41	0.00	3.41	0	0	0	0	0.00	0.00	0.00
04	140	125	150	0	3.44	0.00	3.44	0	0	0	0	0.00	0.00	0.00
05	122	140	177	0	3.52	0.00	3.52	0	0	0	0	0.00	0.00	0.00
06	128	160	177	0	3.72	0.00	3.72	0	0	0	0	0.00	0.00	0.00
07	142	166	195	0	3.50	0.00	3.50	0	0	0	0	0.00	0.00	0.00
08	129	162	173	0	3.66	0.00	3.66	0	0	0	0	0.00	0.00	0.00
09	138	145	165	0	3.92	0.00	3.92	0	0	0	0	0.00	0.00	0.00
10	138	68	165	0	2.93	0.00	2.93	0	0	0	0	0.00	0.00	0.00
11	152	110	160	0	2.02	0.00	2.02	0	0	0	0	0.00	0.00	0.00
12	151	134	155	0	2.44	0.00	2.44	0	0	0	0	0.00	0.00	0.00
13	109	108	131	0	2.63	0.00	2.63	0	0	0	0	0.00	0.00	0.00
14	121	135	148	0	3.05	0.00	3.05	0	0	0	0	0.00	0.00	0.00
15	120	130	152	0	3.08	0.00	3.08	0	0	0	0	0.00	0.00	0.00
16	110	117	166	0	3.04	0.00	3.04	0	0	0	0	0.00	0.00	0.00
17	128	117	166	0	3.18	0.00	3.18	0	0	0	0	0.00	0.00	0.00
18	141	136	168	0	3.16	0.00	3.16	0	0	0	0	0.00	0.00	0.00
19	151	145	155	0	3.38	0.00	3.38	0	0	0	0	0.00	0.00	0.00
20	145	150	155	0	3.43	0.00	3.43	0	0	0	0	0.00	0.00	0.00
21	112	158	184	0	3.52	0.00	3.52	0	0	0	0	0.00	0.00	0.00
22	105	165	180	0	3.59	0.00	3.59	0	0	0	0	0.00	0.00	0.00
23	125	170	170	0	3.16	0.00	3.16	0	0	0	0	0.00	0.00	0.00
24	125	170	170	0	3.16	0.00	3.16	0	0	0	0	0.00	0.00	0.00
25	133	158	165	0	2.18	0.00	2.18	0	0	0	0	0.00	0.00	0.00
26	152	130	156	0	3.32	0.00	3.32	0	0	0	0	0.00	0.00	0.00
27	110	130	152	0	3.12	0.00	3.12	0	0	0	0	0.00	0.00	0.00
28	140	135	150	0	3.13	0.00	3.13	0	0	0	0	0.00	0.00	0.00
29	118	132	145	0	3.23	0.00	3.23	0	0	0	0	0.00	0.00	0.00
30	120	132	157	0	3.17	0.00	3.17	0	0	0	0	0.00	0.00	0.00
Maximum	152	170	195	0	3.92	0.00	3.92	0	0	0	0	0.00	0.00	0.00
Minimum	105	68	131	0	2.02	0.00	2.02	0	0	0	0	0.00	0.00	0.00
Average	130	136	162	0	3.19	0.00	3.19	0	0	0	0	0.00	0.00	0.00
Month Tota					95.64	0.00	95.64					0.00	0.00	0.00

XV. Status Of Installation Of Shunt Capacitors As On 30.04.2005**(All fig. In MVARs)**

STATE/UT	Requirement by 31.03.2005	Installed as on 31.03.2005	Additional Requirement for 2005-2006	Programme as furnished by SEB's	Installed during 2005-06 upto 30.04.2005	Balance to be installed during 2004-05	Capacitors installed as on 30.04.2005
DELHI	3155	** 3365	567	466	77	490	3442
HARYANA	3120	3416	141	-	10	131	3426
PUNJAB	4700	5000	551	-	19	532	5019
RAJASTHAN	2650	3208	189	-		189	3208
UP	4890	5192	477	-	0	477	5192
UTTRANCHAL	350	180	244	-	0	244	180
HP	305	311	41	-	0	41	311
J&K	915	147	790	-	0	790	147
BBMB	381	381	0	-	0	0	381
CHANDIGARH	165	100	55	-	0	55	100
TOTAL	20631	21300	3055	466	106	2949	21406

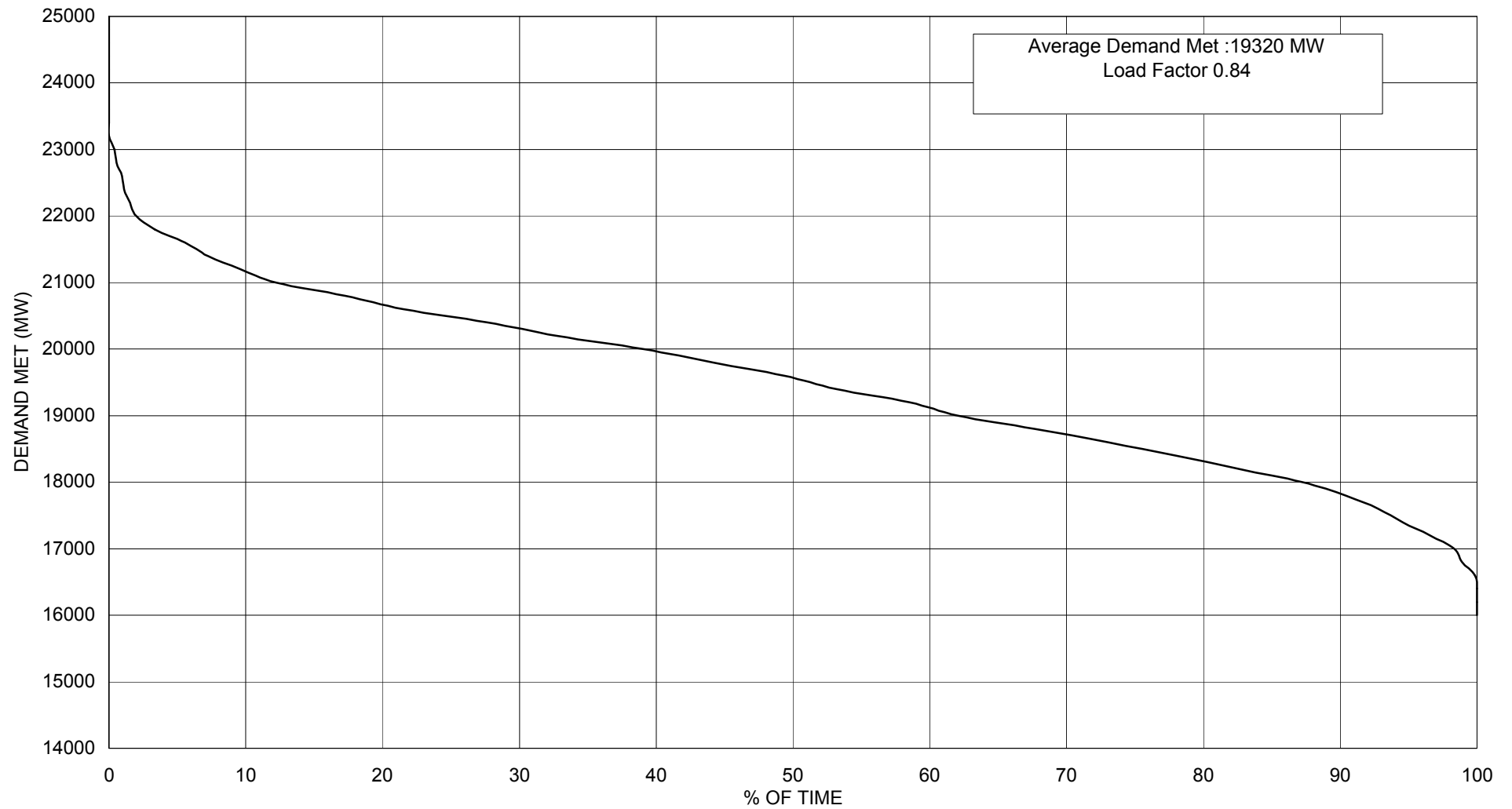
NOTE: However the effective installed capacitors are assumed to be 85% of column II** i.e 17195

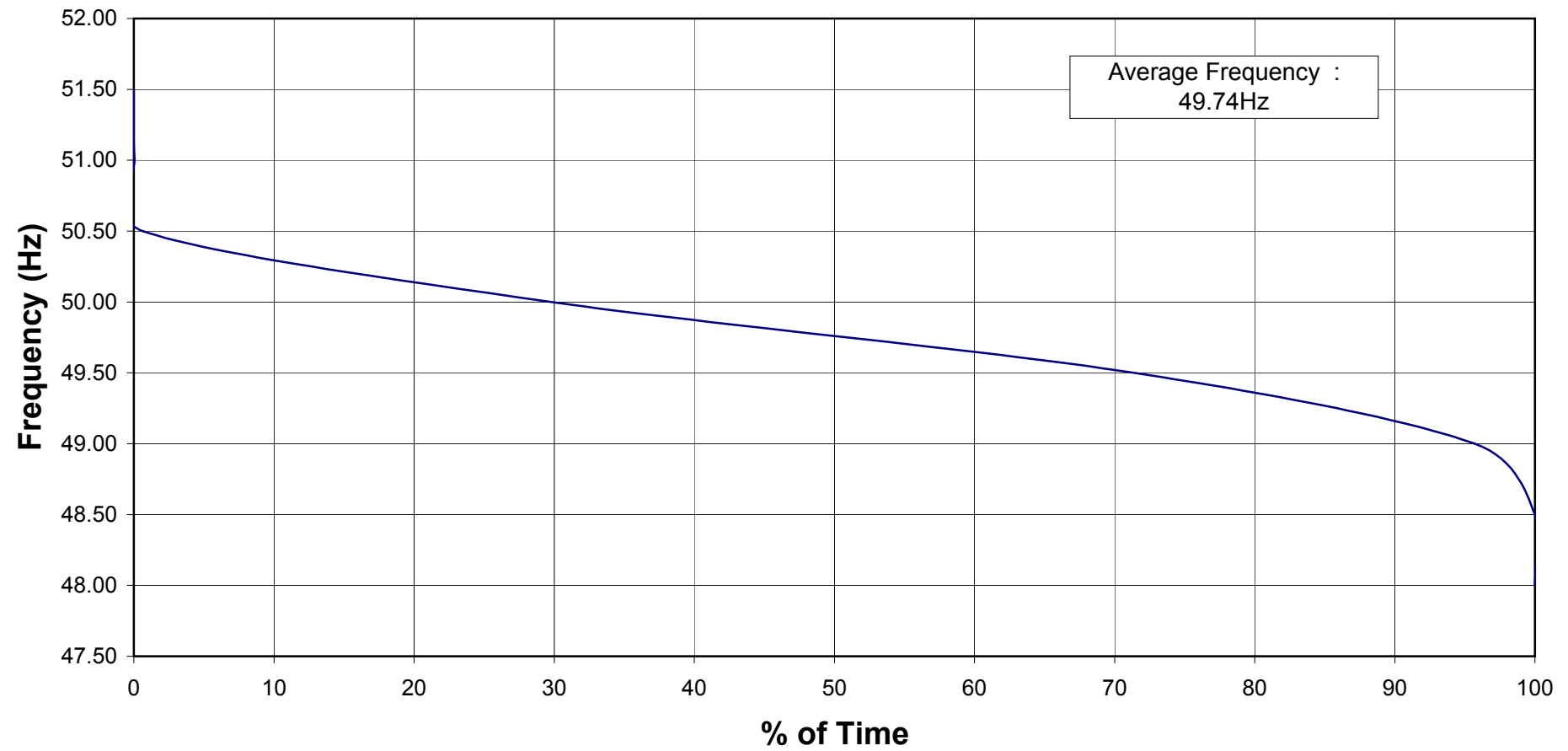
XVI. Hydraulic Data For Reservoirs During April 2005

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 APRIL 2005 (m)	466.05	404.27	255.36	36.49	382.78
	1529.04	1326.35	837.80	119.72	1255.83
Level on last day of APRIL 2004 (m)	455.99	396.72	255.97	344.88	379.49
	1496.02	1301.58	839.80	1131.49	1245.05
Live Capacity as on last day of APRIL 2005 (mhmt)	0.13	0.24	0.07	0.11	0.01
(maft)	1.07	1.92	0.60	0.87	0.11
Live Capacity as on last day of APRIL 2004 (mhmt)	0.07	0.13	0.09	0.02	0.00
(maft)	0.54	1.02	0.75	0.17	0.00
Energy content as on last day of APRIL 2005 (MU)	430.00	330.00	180.00	200.00	40.00
Energy content as on last day of APRIL 2004 (MU)	230.00	165.00	165.00	45.00	0.00
Maximum level (m)	463.47	399.48	257.25	350.43	383.39
(ft)	1520.56	1310.62	844.00	1149.72	1257.83
(date)	01.04.2005	01.04.2005	01.04.2005	30.04.2005	01.04.2005
Minimum level (m)	455.99	396.72	255.36	350.20	382.78
(ft)	1496.02	1301.58	837.80	1148.96	1255.83
(date)	30.04.2005	30.04.2005	30.04.2005	01.04.2005	30.04.2005

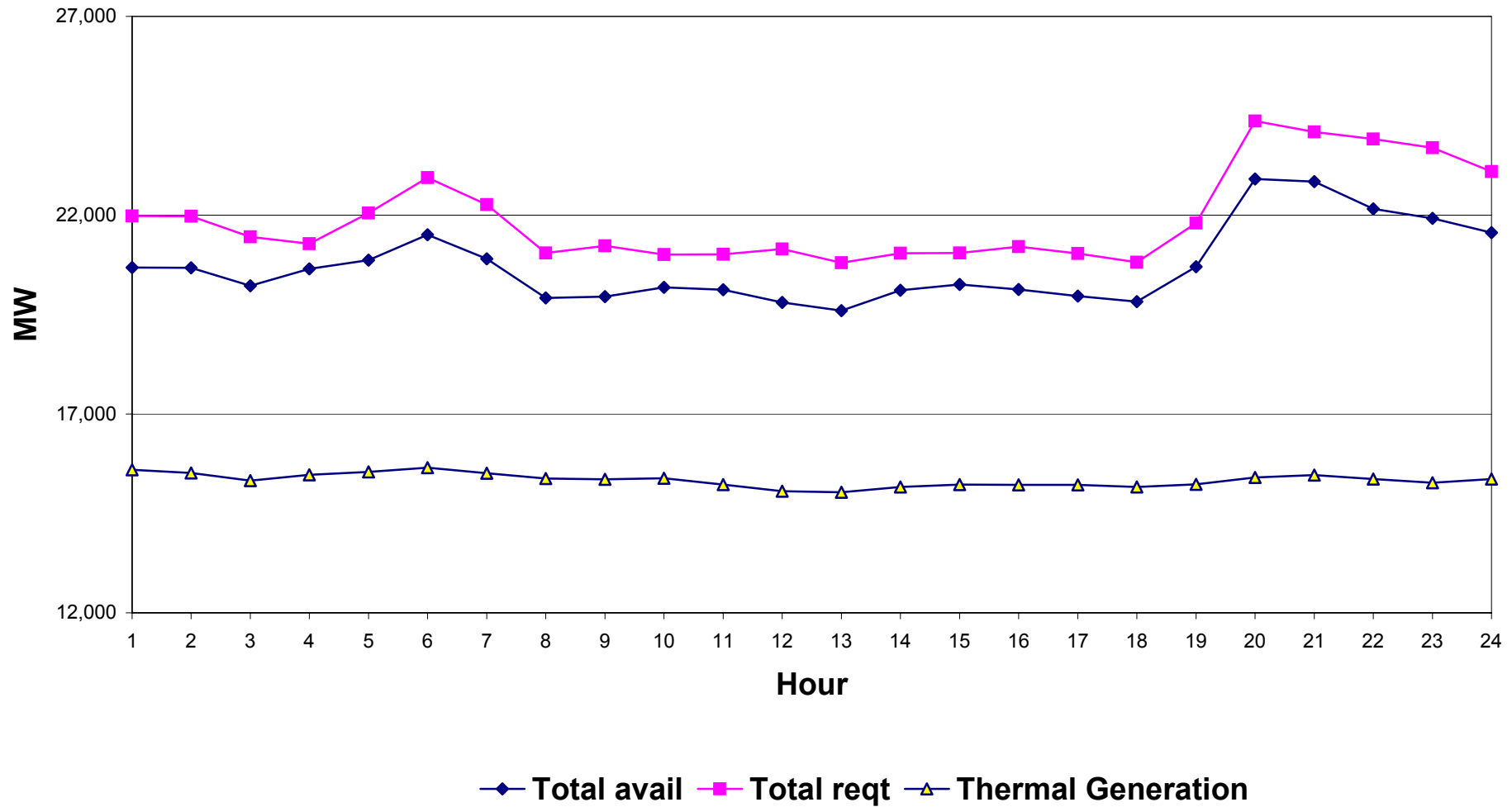
Energy content of Bhakra : Total Energy content at Bhakra, Ganguwal and Kotla power stations
Energy content of Rihand : Total Energy content at Rihand & Obra power stations
Energy content of RPS : Total Energy content of Rana Pratap Sagar and Jawahar Sagar Power Stations.
Energy Content of G. Sagar :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

Load Duration Curve For Northern Region For April 2005

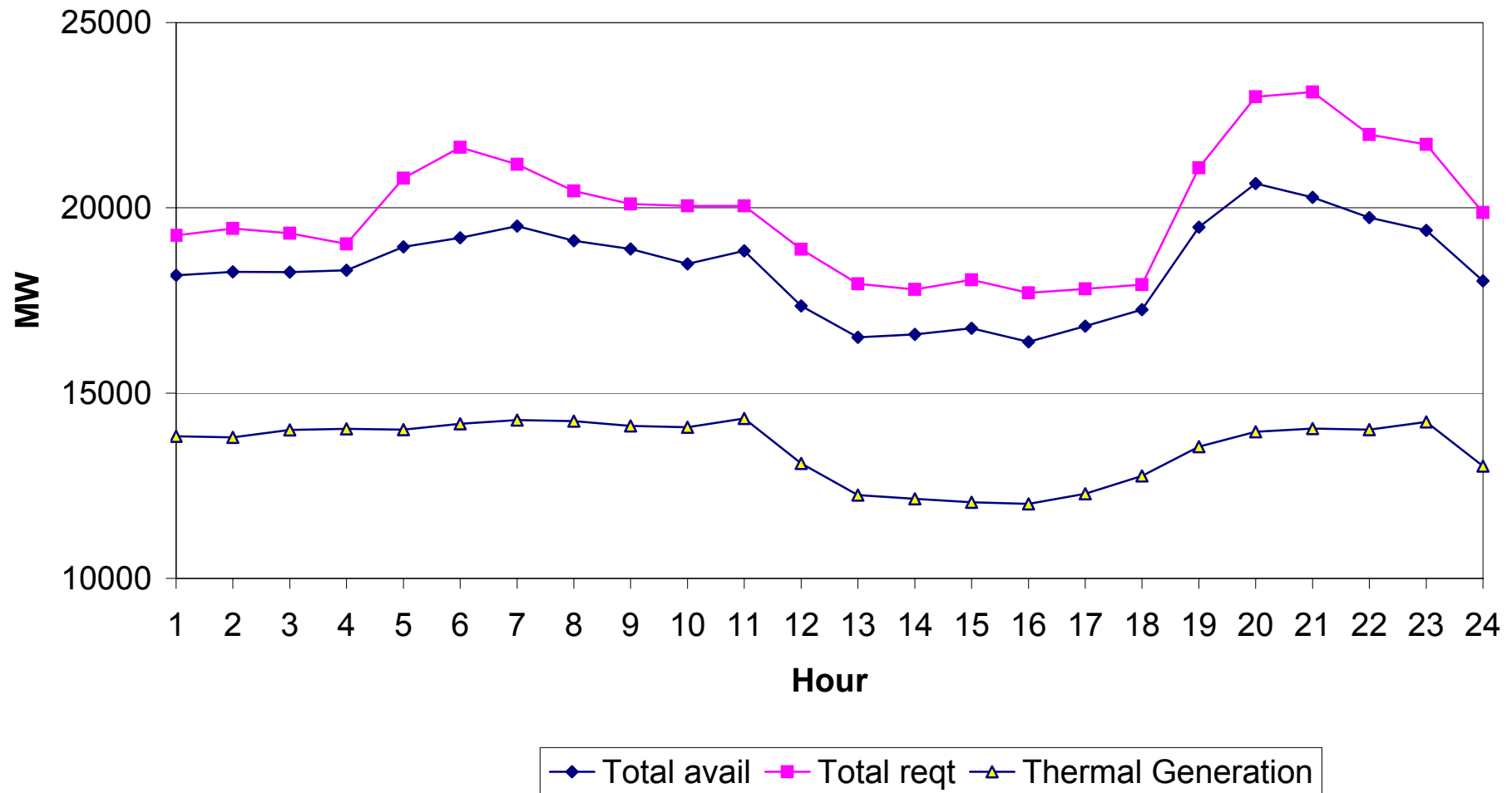


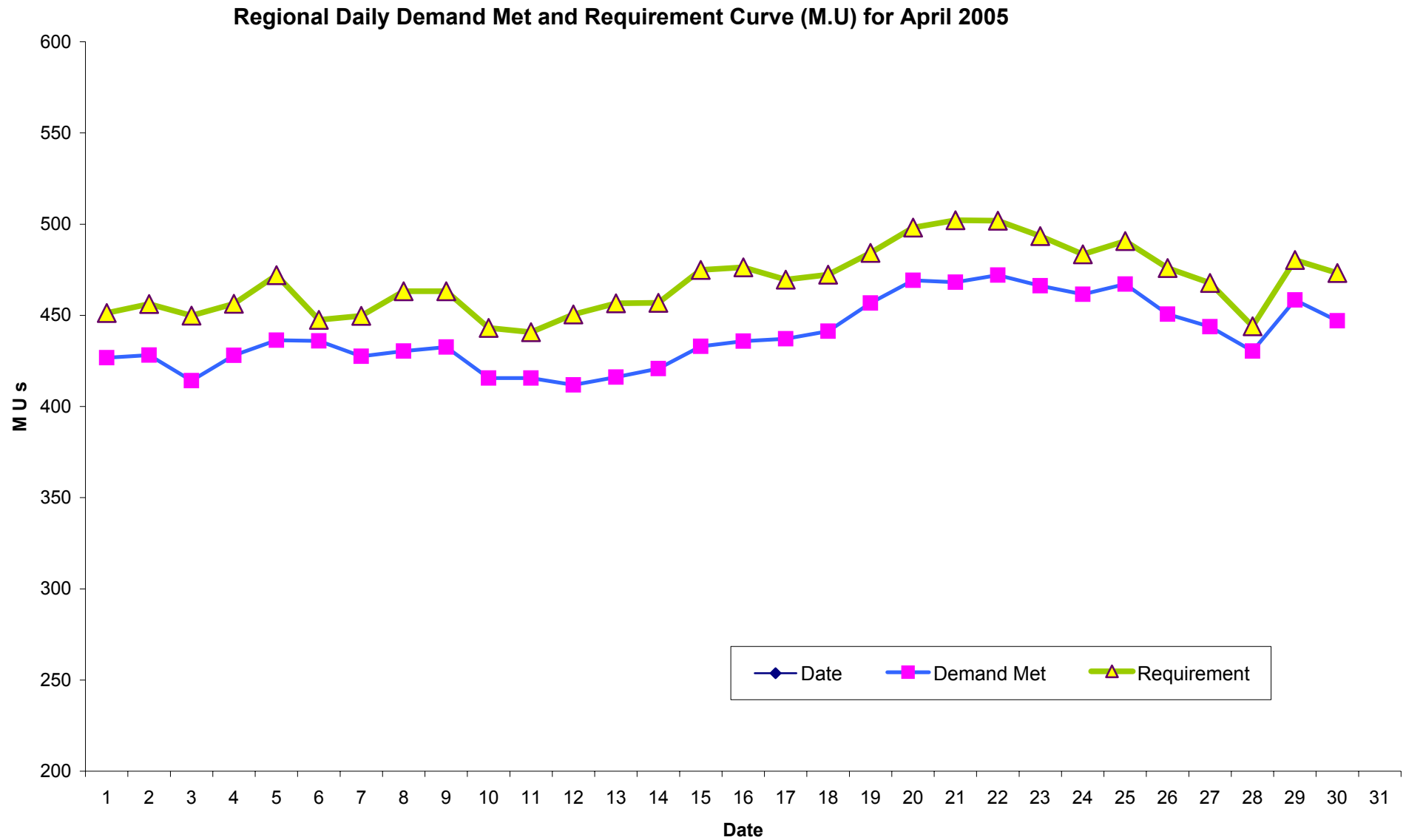
Frequency Duration Curve For Northern Region For April 2005

Load Curve Of Northern Region For Maximum Demand Met Day (20th April 2005)



Load Curve Of Northern Region For Minimum Demand Met Day (14th April 2005)





Grid Incident during April 2005		
DATE	TIME	INCIDENT
14.04.2005	11.33 hrs.	A grid incident occurred in Rajasthan due to operation of bus-bar protection on Bus 'C' due to mal activation of breaker failure protection of 220 kV Kota=Bhilwara ckt.-I at 220 kV GSS Kota which led to the tripping of all running units of KTPS and STPS. The supply failed to the areas fed from 220 GSS Suratgarh, Ratangarh, Sujangarh, Bikaner, Hanumangarh, Sriganganagar, Jhunjhunu, Beawar, Bhopalgarh, Merta & Nagaur etc. All the units at Suratgarh and KTPS were revived by 18.36 hrs. and 23.05 hrs. respectively.