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NORTHERN REGION GRID REPORT FOR THE MONTH OF OCTOBER 2004

A) Summary Report

Grid Overview during the Month

1.

During the month of October 2004 the Power supply in the region was satisfactory . The average energy and peak MW shortages were 9.60% and 11.41%. The average system frequency was 49.75 Hz and frequency remained in normal band i.e. between 49.00 & 50.50 for 93.40 % of time . The average frequency variation index during the month was 2.43 and standard deviation was 0.43% . After implementation of FGMO on experimental basis , it could be seen that % of frequency above 50.50 HZ has been reduced appreciably. The maximum regional availability during the month was 21503 MW . The average demand met was 18038 MW and 399.49 MU in terms of energy . The maximum requirement was 24049 MW and average requirement per day was 441.89 MU in terms of energy. There was a shortage of 10.59% in terms of MW during peaking hours.

Overall voltage profile on most of 400 KV buses was satisfactory during the month .

During this month there was no major grid incident

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

Nil

3. Monthly Frequency Profile :

Maximum frequency 51.15 Hz at 04.08 hours on 03.10.2004
 Minimum frequency 48.49 Hz at 18.13 hours on 28.10.2004
 Average frequency 49.75 Hz

Frequency distribution in %

Hz	< 48.50	<49.00	49.00-50.50	> 50.50
% of time	0.00	5.92	93.40	0.68

Monthly Frequency Variation Index 2.43
 Maximum 6.91
 Minimum 0.50

4. Power Supply Position :

a. Average Energy/day (Net)

State / U.T.	Demand met MU/Day	Requirement MU/Day	Shortage MU/Day	Shortage %
Punjab	73.43	75.01	1.58	2.11
Haryana	49.86	53.72	3.86	7.19
Rajasthan	72.31	73.02	0.71	0.97
U.P.	109.29	139.77	30.48	21.81
Uttanchal	11.52	11.68	0.16	1.37
Delhi	50.20	50.74	0.54	1.06
H.P.	9.67	9.75	0.08	0.82
J & K *	18.73	23.72	4.99	21.04
Chandigarh	2.80	2.80	0.00	0.00
N.F.F./Rail	1.68	1.68	0.00	0.00
Total	399.49	441.89	42.40	9.60

b. Peak MW

State / U.T.	MAX. Demand met MW	MAX. Requirement MW	Shortage MW	Shortage %
	A	B	C	(C/B)*100
Punjab	4138	4832	694	14.36
Haryana	2972	3383	411	12.15
Rajasthan	3945	3945	0	0.00
U.P.	5681	7381	1700	23.03
Uttanchal	781	842	61	7.24
Delhi	2957	3227	270	8.37
H.P.	532	547	15	2.74
J & K *	1116	1266	150	11.85
Chandigarh	177	177	0	0.00
N.F.F./Rail	70	70	0	0.00
Region	21503	24049	2546	10.59
Diversity Factor = 1.09				

* Approximate and Estimated

5. **Schedule Vs Drawal By the Constituents :**

(All figs in M.U)

State / U.T.	Schedule	Actual	OD(+)/UD(-)
Punjab	1061.52	1022.33	-39.19
Haryana	859.12	889.97	30.85
Rajasthan	807.84	914.61	106.77
U.P.	1511.47	1587.44	75.97
Uttranchal	127.28	49.95	-77.33
Delhi	870.92	759.30	-111.62
H.P.	138.52	134.75	-3.77
J & K	437.09	521.55	84.46
Chandigarh	107.33	86.96	-20.37
N.F.F./Rail	50.94	52.26	1.32

6. **Inter Regional Exchanges****Import**

	Energy M.U.	Peak MW
a) From WR over HVDC Vindhyachal B/B	191.86	500
b) From WR over 220 kV Ujjain-Kota	0.00	0
c) From ER over HVDC Sasaram B/B	278.09	500
d) From ER over 220 kV Pusauli-Sahupuri	87.02	180

Export

	Energy M.U.	Peak MW
e) To WR over HVDC Vindhyachal B/B	1.29	300
f) To WR (MP) over 220 kV Auraiya-Malanpur	0.00	0
g) To WR(MP) over 220 kV Kota-Ujjain	0.02	0
h) To ER over 220 kV/132kV lines	0.22	60
i) To ER over HVDC Sasaram B/B	0.00	0
j) To Nepal over 132 kV Tanakpur-Mahendernagar	1.25	35

B). Detailed Report**I. Details of Installed/Effective Capacity at the end of October 2004**

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

contd/-

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

contd/-

J & K (Contd.)					
	GAS TURBINES				
(h)	Pampore GT St - I	3x25.0	75.00	3x25.0	75.00
	Pampore GT St - II	4x25.0	100.00	4x25.0	100.00
9h)	Total Gas		175.00		175.00
(I)	Diesel Gen. Sets		8.94		7.18
	Total J & K		495.63		493.87
8	PUNJAB				
	HYDRO				
(a)	Jogindernagar/ Shanan	4x15+1x50	110.00	4x15+1x50	110.00
(b)	Upper Behari Doab Canal (UBDC)	3x15+3x15	90.00	3x15+3x15	90.00
(c)	Mukerian	6x15+6x19.5	207.00	6x15+6x19.5	207.00
(d)	Anandpur Sahib (APS)	4x33.5	134.00	4x33.5	134.00
(e)	Ranjit Sagar HPS	4x150	600.00	4x150	600.00
(f)	Small Hydel		4.10	4.10	4.10
	Total Hydro		1145.10		1145.10
	THERMAL				
(g)	Guru Nanak Dev TPS (Bhatinda)	4x110	440.00	4x110	440.00
(h)	Guru Gobind Singh TPS (Ropar)	6x210	1260.00	6x210	1260.00
(i)	Lehra Mohabbat TPS	2x210	420.00	2x210	420.00
(j)	Jhalkeri Rice Straw Fired	1x10	10.00	1x10	10.00
	Total Thermal		2130.00		2130.00
	Total Punjab		3275.10		3275.10
9	RAJASTHAN				
	HYDRO				
(a)	Mahi Bajaj Sagar	2x25+2x45	140.00	2x25+2x45	140.00
(b)	Rana Pratap Sagar (RPS)	4x43	172.00	4x43	172.00
(c)	Jawahar Sagar (JS)	3x33	99.00	3x33	99.00
(d)	Anoopgarh	6x1.5	9.00	6x1.5	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	1x3	3.00	1x3	3.00
(j)	Ramgarh GT EXT.	1x35.5	35.50	1x35.5	35.50
	Total Thermal		2333.50		2333.50
(J)	Wind farm		14.01	14.01	14.01
	Total Rajasthan		2782.36		2782.36

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)		31306.78		30780.62

SUMMARY OF THE EFFECTIVE GENERATING CAPACITY (MW)

Agency / Source	Hydro	Thermal	Gas/Diesel/Wind	Nuclear	Total	% of Total
NTPC	0.00	5825.00	2344.04	0.00	8169.04	26.54%
NHPC	2284.20	0.00	0.00	0.00	2284.20	7.42%
SJVNL	1500.00	0.00	0.00	0.00	1500.00	4.87%
NPC	0.00	0.00	0.00	1180.00	1180.00	3.83%
BBMB	2866.30	0.00	0.00	0.00	2866.30	9.31%
CHANDIGARH	0.00	0.00	1.40	0.00	1.40	0.00%
DELHI	0.00	382.50	612.00	0.00	994.50	3.23%
HARYANA	62.40	1025.00	25.20	0.00	1112.60	3.61%
HIMACHAL	712.20	0.00	0.00	0.00	712.20	2.31%
J&K	311.69	0.00	182.18	0.00	493.87	1.60%
PUNJAB	1145.10	2130.00	0.00	0.00	3275.10	10.64%
RAJASTHAN	434.85	2295.00	52.51	0.00	2782.36	9.04%
UP	501.00	3909.00	0.00	0.00	4410.00	14.33%
UTTRANCHAL	999.05	0.00	0.00	0.00	999.05	3.25%
Total	10816.79	15566.50	3217.33	1180.00	30780.62	100.00%
% of TOTAL	35.14%	50.57%	10.45%	3.83%	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 31.10.2004

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	17.78	78.06	82.22	0.00	0.00	0.00	0.00
02	0.00	0.00	5.73	30.46	93.82	48.56	0.45	0.00	0.00
03	0.00	0.00	0.42	1.77	85.91	82.37	13.67	0.63	0.00
04	0.00	0.00	2.15	10.00	97.85	54.24	0.00	0.00	0.00
05	0.00	0.00	1.88	8.92	98.13	48.78	0.00	0.00	0.00
06	0.00	0.00	3.99	25.76	95.66	20.35	0.35	0.00	0.00
07	0.00	0.00	12.33	50.66	87.67	8.82	0.00	0.00	0.00
08	0.00	0.00	26.18	78.33	73.82	3.44	0.00	0.00	0.00
09	0.00	0.00	16.08	78.65	83.92	2.08	0.00	0.00	0.00
10	0.00	0.00	0.00	1.70	99.51	69.62	0.49	0.00	0.00
11	0.00	0.00	0.14	3.65	98.44	70.87	1.42	0.00	0.00
12	0.00	0.00	2.59	9.85	85.27	75.49	12.13	0.00	0.00
13	0.00	0.00	0.31	6.85	96.96	75.31	2.72	0.00	0.00
14	0.00	0.00	3.92	15.87	95.59	49.01	0.49	0.00	0.00
15	0.00	0.00	5.08	27.09	94.92	26.74	0.00	0.00	0.00
16	0.00	0.00	4.97	26.01	95.03	22.15	0.00	0.00	0.00
17	0.00	0.00	5.31	24.89	94.69	30.27	0.00	0.00	0.00
18	0.00	0.00	5.17	31.00	94.83	25.23	0.00	0.00	0.00
19	0.00	0.00	8.51	50.64	91.49	5.97	0.00	0.00	0.00
20	0.00	0.00	8.51	50.64	91.49	5.97	0.00	0.00	0.00
21	0.00	0.00	3.85	33.30	96.15	10.10	0.00	0.00	0.00
22	0.00	0.00	0.28	11.91	99.58	37.08	0.14	0.00	0.00
23	0.00	0.00	2.08	11.18	97.92	48.11	0.00	0.00	0.00
24	0.00	0.00	0.28	4.79	99.72	39.99	0.00	0.00	0.00
25	0.00	0.00	5.63	28.26	94.38	17.12	0.00	0.00	0.00
26	0.00	0.00	4.99	33.33	95.01	04.78	0.00	0.00	0.00
27	0.00	0.00	6.08	40.87	93.92	12.64	0.00	0.00	0.00
28	0.00	0.07	23.20	59.29	76.38	15.35	0.42	0.00	0.00
29	0.00	0.00	5.42	38.13	94.58	31.91	0.00	0.00	0.00
30	0.00	0.00	5.17	22.22	94.83	40.94	0.00	0.00	0.00
31	0.00	0.00	1.63	12.95	97.60	40.24	0.76	0.00	0.00
Max	0.00	0.07	26.18	78.65	99.72	82.37	13.67	0.63	0.00
Min	0.00	0.00	0.00	1.70	73.82	0.00	0.00	0.00	0.00
Average	0.00	0.00	5.92	28.25	93.40	33.80	0.68	0.02	0.00

Frequency (Hz)				Average Frequency Hz	Frequency Variation Index
Maximum		Minimum			
Freq	Time	Freq	Time		
50.00	7.12	48.59	0.01	49.28	6.12
50.56	21.07	48.59	4.36	49.82	2.47
51.15	4.08	48.93	18.44	50.20	1.34
50.42	2.04	48.59	18.36	49.95	1.03
50.38	7.17	48.56	23.41	49.92	0.97
50.78	18.02	48.59	17.13	49.70	2.05
50.30	7.37	48.54	16.26	49.49	4.09
50.34	18.03	48.56	10.31	49.25	6.91
50.37	18.02	48.54	19.04	49.29	5.92
50.67	18.03	49.10	0.36	50.09	0.54
50.57	5.04	48.94	17.58	50.12	0.82
50.88	23.56	48.61	18.12	50.13	1.82
50.78	0.00	48.83	18.28	50.11	1.06
50.54	1.31	48.55	18.10	49.91	1.62
50.40	8.52	48.54	18.13	49.73	2.20
50.32	12.59	48.54	18.29	49.72	2.08
50.36	1.33	48.58	19.03	49.74	2.17
50.28	2.37	48.54	18.12	49.69	2.43
50.22	1.38	48.54	18.10	49.49	3.84
50.34	13.02	48.54	18.28	49.49	3.84
50.30	5.10	48.58	22.19	49.62	2.42
50.55	17.13	48.91	4.08	49.87	1.05
50.49	5.02	48.64	18.14	49.90	1.06
50.31	17.02	48.93	18.16	49.92	0.50
50.29	6.03	48.57	18.11	49.65	2.38
50.22	8.10	48.60	18.10	49.60	2.50
50.33	17.02	48.52	22.29	49.59	2.98
50.56	21.43	48.49	18.13	49.41	5.88
50.42	4.04	48.53	18.14	49.68	2.82
50.45	17.04	48.58	18.08	49.80	2.03
50.71	22.04	48.71	18.19	49.88	1.26
51.15		49.10		50.20	6.91
50.00		48.49		49.25	0.50
50.45		48.64		49.75	2.43

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	416	20.50	391	14.17	409	18.07	387	14.18	212	01.47	200	14.17	417	01.49	397	04.41
02	422	21.02	398	07.01	413	20.43	391	04.38	217	23.18	206	05.50	414	22.52	398	12.43
03	425	02.38	397	18.40	409	02.42	392	09.33	217	02.36	202	18.47	416	02.15	390	18.40
04	417	03.00	394	18.19	407	02.56	392	18.19	214	02.10	197	18.27	412	02.01	392	07.33
05	414	4.01	390	11.04	406	17.25	390	23.41	214	04.00	198	11.25	411	01.49	387	08.56
06	416	18.02	389	11.06	413	18.04	381	11.06	213	02.45	199	18.28	413	00.25	393	11.06
07	417	07.59	387	11.02	408	08.02	387	15.16	214	07.50	196	11.03	415	22.42	380	16.25
08	416	07.55	387	15.52	407	10.35	383	09.10	213	02.44	197	14.33	412	03.17	387	15.52
09	416	04.06	390	16.15	415	18.02	389	15.37	207	07.04	195	15.03	416	03.16	389	16.16
10	421	02.27	396	18.38	412	02.03	393	07.46	217	01.48	203	18.39	416	02.19	388	14.34
11	421	02.27	396	18.38	412	02.03	393	07.46	217	01.48	203	18.39	416	02.19	388	14.34
12	420	01.50	393	18.34	414	04.00	392	06.26	218	03.16	200	18.34	412	01.51	388	15.14
13	418	03.04	394	18.27	407	21.44	387	06.45	217	01.59	202	18.26	414	23.05	391	06.21
14	421	02.02	394	06.37	409	21.38	388	05.57	217	01.35	202	18.20	414	01.28	389	06.37
15	418	00.00	398	16.43	411	08.49	397	05.46	216	00.06	202	18.25	412	00.00	392	16.16
16	419	02.25	394	18.24	412	21.49	394	18.23	215	00.00	202	18.25	415	02.26	391	18.24
17	419	01.43	393	18.36	407	01.29	394	11.08	216	03.00	203	18.24	416	08.09	396	18.23
18	419	01.47	393	11.08	408	21.48	393	15.50	216	01.45	203	18.11	413	03.09	391	11.09
19	419	01.47	393	11.08	408	21.48	393	15.50	216	01.45	203	18.11	413	03.09	391	11.09
20	419	01.47	393	11.08	408	21.48	393	15.50	216	01.45	203	18.11	413	03.09	391	11.09
21	416	00.14	388	18.25	409	22.57	385	05.49	215	00.00	200	18.24	412	00.14	390	14.23
22	417	21.49	394	12.15	410	17.13	387	12.16	216	23.42	207	18.31	416	23.06	391	12.16
23	420	02.18	391	18.14	411	21.49	387	12.19	217	01.43	203	18.12	415	01.31	389	18.38
24	417	21.49	394	12.15	410	17.13	387	12.16	216	23.42	207	18.31	416	23.06	391	12.16
25	415	23.56	391	18.26	409	00.04	388	11.08	215	00.04	202	18.18	413	23.48	391	16.18
26	416	08.01	387	18.19	410	07.49	382	16.13	214	00.00	200	18.08	414	22.03	386	18.12
27	413	00.32	385	18.11	406	13.04	379	22.26	214	00.06	198	18.10	414	00.08	388	14.45
28	412	21.44	386	18.03	412	22.00	386	18.07	216	00.03	202	18.10	415	00.02	395	18.13
29	417	01.04	390	18.35	413	03.00	388	06.25	215	00.00	199	18.38	415	21.54	388	13.42
30	418	21.50	394	17.55	413	21.50	388	05.54	216	00.05	202	18.41	416	00.03	394	14.14
31	420	08.08	385	05.30	414	22.04	390	04.18	217	21.56	205	18.2	419	22.04	393	05.36
Max	425		398		415		397		218		207		419		398	
Min	412		385		406		379		207		195		411		380	

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	21225	24128	2903	19655	20965	1310	449.36
02	20524	22893	2369	19470	21180	1710	430.37
03	20655	22376	1721	15892	16092	200	406.93
04	21310	23551	2241	17789	18093	304	431.71
05	20946	23532	2586	18261	19561	1300	439.61
06	20736	23210	2474	18243	19528	1285	429.94
07	19914	22983	3069	18689	19889	1200	431.49
08	21325	24457	3132	18596	20093	1497	430.17
09	20960	23969	3009	18811	20570	1759	428.23
10	19576	21116	1540	18251	19436	1185	406.66
11	19801	21616	1815	15028	15228	200	383.64
12	20157	22670	2513	14937	14937	0	380.49
13	20463	22513	2050	15869	15869	0	397.44
14	20240	22530	2290	16006	16006	0	393.19
15	19817	22697	2880	15381	15981	600	391.91
16	20331	23076	2745	15697	16709	1012	395.25
17	19940	22177	2237	16111	16986	875	388.94
18	20354	23070	2716	15962	17112	1150	402.82
19	20552	23357	2805	16609	17609	1000	407.08
20	20552	23357	2805	16609	17609	1000	407.30
21	20885	23476	2591	17022	18202	1180	419.28
22	20729	22079	1350	17414	18154	740	407.91
23	20825	22515	1690	16509	17289	780	407.63
24	20941	23081	2140	16751	17551	800	409.20
25	20353	22740	2387	16567	17367	800	413.87
26	20755	23324	2569	16560	17360	800	406.95
27	20752	23480	2728	16616	17416	800	407.99
28	20198	22685	2487	16569	17369	800	397.13
29	20373	23192	2819	15105	15905	800	394.03
30	20471	22554	2083	15982	16590	608	402.98
31	20850	22422	1572	15838	16138	300	400.07
Maximum	21325	24457	3132	19655	21180	1759	449.36
Minimum	19576	21116	1350	14937	14937	0	380.49
Average	20533	22930	2397	16864	17703	839	409.66

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	4138	3678	2776	2391	3657	3092	2810	2354	5034	5437
02	3784	3838	2547	2369	2935	3059	2736	2325	5020	5070
03	3618	2996	2587	1726	2813	2645	2848	1688	5291	4923
04	3695	2933	2379	2189	2839	2870	2723	2039	5352	5287
05	3915	3265	2614	2329	2971	2881	2870	2069	5047	5389
06	3652	3340	2125	2204	3060	2998	2888	1995	5122	5224
07	3239	3566	2576	2317	3139	3030	2662	1944	4907	5227
08	3640	3647	2564	2228	3224	3022	2770	2079	4793	5244
09	3502	3407	2527	2318	3011	3027	2813	2082	4776	5021
10	3350	3561	2502	2094	2958	2849	2581	2010	4741	5078
11	3134	2558	2475	1738	3065	2674	2713	1509	4821	4686
12	3392	2393	2384	1538	3111	2784	2722	1448	4992	4395
13	3753	2569	2665	1829	2673	2825	2674	1356	5077	4597
14	3534	2655	2437	1800	3172	2817	2678	1393	5000	4959
15	3443	2848	2566	1783	3220	2821	2511	1375	4996	4441
16	3446	2598	2717	1804	3164	2881	2599	1414	5107	4809
17	3460	2789	2646	1933	3206	2863	2527	1365	4715	4888
18	3666	2857	2645	1935	3204	2897	2555	1367	4899	4821
19	3692	3008	2629	2110	3222	2926	2718	1471	5035	5002
20	3692	3008	2629	2110	3222	2926	2718	1471	5035	5002
21	3700	2999	2697	2144	3339	3149	2934	1676	5067	4949
22	3681	2968	2788	2114	3325	3097	2222	1671	4967	4986
23	3753	2594	2687	1996	3414	3132	2688	1503	4979	5047
24	3664	2875	2720	2045	3443	3067	2590	1482	4985	4888
25	3803	2817	2731	2126	3246	2980	2601	1442	4693	4940
26	3832	2791	2798	2066	3176	3080	2731	1458	4987	5060
27	3822	2709	2787	2062	3237	3185	2636	1438	5052	5106
28	3741	2717	2429	1939	3342	3199	2736	1463	5175	4782
29	3745	2419	2546	1563	3370	3047	2663	1235	4932	4590
30	3640	2586	2819	1818	3334	3183	2649	1255	4998	4788
31	3534	2556	2842	2001	3670	3195	2524	1319	4672	4721
Maximum	4138	3838	2842	2391	3670	3199	2934	2354	5352	5389
Minimum	3134	2393	2125	1538	2673	2645	2222	1235	4672	4395
Average	3634	2953	2608	2020	3186	2974	2680	1635	4974	4947

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	696	452	171	105	508	352	933	705
02	720	464	152	118	510	344	981	678
03	726	303	155	94	500	303	891	614
04	760	397	173	96	478	336	861	687
05	769	458	172	101	533	334	867	723
06	779	449	164	104	479	323	1005	668
07	781	456	174	103	506	354	746	698
08	730	476	177	104	507	370	867	798
09	761	435	172	102	498	362	860	712
10	628	412	135	103	512	392	859	763
11	663	309	127	83	418	338	853	486
12	626	384	148	67	512	295	987	689
13	639	374	149	73	460	320	933	646
14	691	353	152	70	527	335	821	612
15	708	350	154	79	526	320	1016	749
16	705	373	146	75	528	340	899	919
17	699	379	143	79	526	365	1004	847
18	720	374	156	78	532	327	913	693
19	740	338	159	80	535	339	955	627
20	740	338	159	80	535	339	934	844
21	732	378	151	69	515	304	961	792
22	676	383	140	80	496	315	958	758
23	696	392	142	69	518	304	949	806
24	701	366	141	78	537	318	939	689
25	639	375	152	76	536	319	837	780
26	685	368	156	77	533	322	868	746
27	714	376	153	73	529	316	845	638
28	678	381	152	70	563	328	713	804
29	683	392	155	75	529	334	937	740
30	641	377	152	74	514	294	852	752
31	703	389	135	77	538	318	914	751
Maximum	781	476	177	118	563	392	1016	919
Minimum	626	303	127	67	418	294	713	486
Average	704	389	154	84	514	331	902	723

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	86.463	56.008	75.645	61.888	113.193	12.905	3.336	9.529	19.390	1.546	439.903
02	83.781	53.393	72.094	53.684	112.443	11.772	3.021	9.109	17.314	1.649	418.260
03	76.447	49.270	66.865	50.986	112.253	11.012	2.808	8.450	18.508	1.555	398.154
04	78.980	52.855	69.571	59.189	118.140	12.355	3.147	9.990	18.774	1.713	424.713
05	82.411	55.686	70.858	59.420	116.144	12.479	3.261	9.634	19.075	1.338	430.305
06	80.369	52.465	72.979	57.656	112.221	12.426	3.321	9.592	19.287	1.283	421.597
07	79.423	55.816	72.904	56.417	112.153	12.828	3.336	9.665	18.830	1.687	423.059
08	83.796	51.491	73.065	55.478	109.261	12.543	3.321	9.815	18.275	1.648	418.692
09	81.995	52.072	72.356	56.569	109.400	12.678	3.120	9.802	17.891	1.638	417.521
10	65.919	43.895	67.590	48.721	109.789	11.091	2.615	9.772	17.179	1.549	378.119
11	66.535	43.388	68.058	51.050	106.207	10.539	2.534	9.598	15.669	1.724	375.301
12	66.056	43.401	63.266	48.720	106.182	10.685	2.542	8.986	18.528	1.646	370.013
13	68.668	48.928	69.024	47.494	109.910	10.918	2.602	9.537	18.628	1.711	387.421
14	68.639	47.159	70.498	48.575	104.484	11.405	2.614	9.829	18.604	1.724	383.531
15	69.545	48.125	70.662	48.017	101.223	10.900	2.655	10.034	20.002	1.625	382.789
16	68.102	48.313	71.657	47.695	104.590	11.393	2.553	9.838	21.145	1.609	386.895
17	67.504	48.313	72.050	45.979	101.998	11.055	2.440	9.719	19.596	1.588	380.242
18	72.251	49.998	71.858	49.214	107.584	10.869	2.671	9.820	18.323	1.713	394.300
19	73.010	50.861	72.685	51.163	107.237	10.839	2.628	9.825	18.455	1.735	398.438
20	73.010	50.861	72.685	51.163	107.237	10.839	2.628	10.023	19.054	1.916	399.416
21	73.784	51.788	76.303	53.719	111.055	11.158	2.638	9.790	19.103	1.799	411.135
22	67.230	50.790	76.223	47.012	110.672	11.131	2.471	9.717	19.528	1.773	396.547
23	71.277	48.645	76.478	49.122	110.511	11.152	2.478	9.604	19.288	1.879	400.435
24	73.370	50.728	77.000	47.836	106.780	11.255	2.406	10.070	18.712	1.744	399.900
25	72.661	50.435	74.750	49.207	117.494	11.251	2.666	10.213	19.078	1.798	409.552
26	72.300	50.142	73.427	50.034	106.740	11.737	2.698	10.172	18.733	1.688	397.671
27	71.819	50.632	73.367	48.562	111.578	11.645	2.678	10.126	18.608	1.815	400.829
28	69.586	45.758	72.812	48.603	110.086	11.709	2.645	10.140	17.727	1.813	390.879
29	69.096	44.901	74.500	46.966	104.923	11.760	2.682	9.863	19.290	1.848	385.829
30	68.959	49.786	78.045	46.785	107.266	11.341	2.611	9.533	18.984	1.790	395.099
31	66.894	48.231	78.461	45.329	105.741	11.332	2.442	9.662	19.111	1.720	388.923
Maximum	86.463	56.008	78.461	61.888	118.140	12.905	3.336	10.213	21.145	1.916	439.903
Minimum	65.919	43.388	63.266	45.329	101.223	10.539	2.406	8.450	15.669	1.283	370.013
Average	73.222	49.811	72.508	51.040	109.177	11.516	2.760	9.724	18.732	1.686	400.176
Month Total	2269.876	1544.131	2247.736	1582.251	3384.495	357.002	85.568	301.457	580.689	52.264	12405.469

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-Oct-2004	35584	35139	29040	33202	26474	23790	31718	31326	50021	55588	4242	2617
2-Oct-2004	36495	37019	29860	31399	26419	22843	30854	25033	49604	58433	4260	1707
3-Oct-2004	38407	40675	30485	32598	26353	22068	27854	27588	49908	54484	4205	-539
4-Oct-2004	40607	40652	31150	34793	28577	24675	30696	33807	50688	54988	4317	384
5-Oct-2004	39780	39928	31533	34206	28309	26162	31351	31945	49277	53041	4269	737
6-Oct-2004	37978	38114	29907	33716	27182	26011	31048	30053	48975	52530	4177	2935
7-Oct-2004	36536	35800	29512	32792	26111	24670	30662	29965	48426	52789	3872	1650
8-Oct-2004	35618	34262	29080	31278	25372	24037	30394	30239	46756	51418	3769	2016
9-Oct-2004	34712	34174	29242	30939	25246	21957	30628	29517	48066	53357	3869	2141
10-Oct-2004	35521	34286	26764	25578	25098	23635	28759	25758	50429	55063	4163	847
11-Oct-2004	35569	35262	25089	25769	24674	24279	28015	27928	50342	50176	4377	281
12-Oct-2004	34817	36217	26301	28764	24786	29157	29496	25747	48706	49272	4301	-2785
13-Oct-2004	36770	37298	29600	31269	26910	28513	27739	24898	50292	53750	4188	-2721
14-Oct-2004	34365	33421	28833	30145	25872	27946	28161	26594	47013	48377	3335	-160
15-Oct-2004	31778	32188	26952	27778	23432	26981	27359	24877	45242	49104	3134	-564
16-Oct-2004	32056	32714	25886	26175	23110	29211	26354	20979	45885	47857	3218	22
17-Oct-2004	31860	31826	25844	26691	22988	30303	25316	20788	44522	44422	3580	121
18-Oct-2004	32343	31216	25982	27059	24257	31059	26404	21748	45570	46187	3790	614
19-Oct-2004	32165	31615	26220	27709	24518	32151	27416	22642	46172	46472	3686	1347
20-Oct-2004	33027	31908	27086	29618	26249	33098	27731	22916	49350	49616	4022	1659
21-Oct-2004	33824	31097	28262	28840	27364	34869	28166	23390	51623	53342	4369	2244
22-Oct-2004	34395	32267	28384	29182	27768	35968	25830	18875	54143	55338	4788	2447
23-Oct-2004	33012	31860	27559	25754	26860	35028	24145	19464	53424	53238	4827	3003
24-Oct-2004	33354	31504	26715	27968	27126	35350	26017	20042	52043	52078	4578	3036
25-Oct-2004	32425	29762	27137	27641	27133	33631	26419	19829	49224	52823	4209	3381
26-Oct-2004	33625	28186	27665	27868	27572	37440	26319	19401	49391	52707	4247	3081
27-Oct-2004	31703	26256	28031	27488	27362	37084	27331	22328	50414	49233	4297	3667
28-Oct-2004	29862	23661	23958	21920	25891	32060	27733	21884	47366	49717	4243	3968
29-Oct-2004	31693	29249	25157	24673	26868	33750	27003	21041	46894	46692	4361	4309
30-Oct-2004	31113	29247	27213	25557	25843	33894	26970	19312	45943	47951	4245	4021
31-Oct-2004	30528	25525	24670	21604	26120	32992	27030	19383	45756	47401	4339	4486
Total MU	1061.522	1022.328	859.117	889.973	807.844	914.612	870.918	759.297	1511.465	1587.444	127.277	49.952
Max. MWH	40607	40675	31533	34793	28577	37440	31718	33807	54143	58433	4827	4486
Min MWH	29862	23661	23958	21604	22988	21957	24145	18875	44522	44422	3134	-2785
Avg. MWH	34243	32978	27713	28709	26059	29504	28094	24493	48757	51208	4106	1611

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-Oct-2004	4141	3424	12735	17672	3518	3500	456	0	2039	1546
2-Oct-2004	3880	3073	12679	15622	3409	3108	456	0	2062	1649
3-Oct-2004	4009	1584	13017	16520	3430	2939	456	0	2080	1555
4-Oct-2004	4456	2268	12941	16763	3613	3258	456	0	1768	1713
5-Oct-2004	3531	3407	12225	17269	3586	3347	456	0	1170	1338
6-Oct-2004	3768	3439	11057	17552	3655	3439	456	0	1599	1283
7-Oct-2004	3417	3654	10769	17150	3576	3422	456	0	1456	1687
8-Oct-2004	4073	4123	11609	16493	3446	3359	456	0	1633	1648
9-Oct-2004	4267	4304	11445	16235	3383	3175	456	0	1812	1638
10-Oct-2004	4162	4615	11839	15464	3351	2695	144	68	1998	1481
11-Oct-2004	4446	4451	13123	13495	3428	2583	144	55	1675	1669
12-Oct-2004	4102	3071	13389	16272	3470	2561	144	63	1027	1583
13-Oct-2004	3957	3196	12720	16746	3494	2634	144	70	1046	1641
14-Oct-2004	3742	4003	12063	16740	3426	2672	144	60	935	1664
15-Oct-2004	4166	4332	16180	17953	3463	2672	144	58	945	1567
16-Oct-2004	4212	4127	16041	18859	3229	2629	144	72	1260	1537
17-Oct-2004	4379	4162	15309	17427	3153	2508	144	93	1308	1495
18-Oct-2004	4822	4454	15090	16457	3173	2744	144	193	1249	1520
19-Oct-2004	5052	4607	15645	16650	3329	2678	144	194	1240	1541
20-Oct-2004	5286	4984	16277	17036	3391	2578	144	192	1447	1724
21-Oct-2004	5150	5038	16154	17092	3444	2617	144	211	1553	1588
22-Oct-2004	5204	5028	16325	17401	3533	2435	144	221	1518	1552
23-Oct-2004	5093	4981	16201	17132	3503	2483	144	219	1385	1660
24-Oct-2004	5072	5372	16308	16747	3571	2425	144	205	994	1539
25-Oct-2004	4953	5644	16220	17092	3553	2658	144	228	1217	1570
26-Oct-2004	4902	5618	16327	16801	3510	2710	144	217	1140	1471
27-Oct-2004	5036	5648	16431	16687	3599	2688	144	220	1412	1595
28-Oct-2004	4838	5683	12362	15782	3408	2629	144	209	1217	1604
29-Oct-2004	4763	5502	15893	17493	3636	2701	144	137	1340	1711
30-Oct-2004	4750	5448	15711	17405	3595	2650	144	211	1012	1579
31-Oct-2004	4891	5509	13003	17539	3457	2463	144	208	1132	1512
Total MU	138.520	134.749	437.088	521.546	107.332	86.960	7.272	3.404	43.669	48.860
Max. MWH	5286	5683	16431	18859	3655	3500	456	228	2080	1724
Min MWH	3417	1584	10769	13495	3153	2425	144	0	935	1283
Avg. MWH	4468	4347	14100	16824	3462	2805	235	110	1409	1576

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-Oct-2004	39896	40527	10992	11102	18360	18580	4608	4670	9173	9297	15869	15893
2-Oct-2004	39724	40110	10962	11031	17982	17560	4592	4580	9110	9105	15913	15009
3-Oct-2004	38831	38677	10722	10409	14442	14308	4426	4271	8515	8241	15619	14366
4-Oct-2004	39864	40351	10992	11043	16360	16903	4578	4632	9041	9162	16008	15329
5-Oct-2004	39864	40429	10963	11020	16703	17544	4608	4667	9173	9269	15947	15430
6-Oct-2004	39864	40492	10872	10953	16806	18238	4608	4669	9173	9296	16752	16353
7-Oct-2004	39864	40555	10872	11059	17513	18555	4608	4670	9173	9300	14260	14158
8-Oct-2004	36385	36885	10872	11067	17853	18043	4602	4661	9173	9298	14567	15115
9-Oct-2004	39864	40521	10872	10994	18360	18552	5319	4849	9173	9300	14066	13744
10-Oct-2004	39864	40157	10872	10915	17313	17031	9104	8945	9133	9116	13511	10927
11-Oct-2004	39414	39845	10771	10711	16550	16414	8286	8064	8864	8901	13249	12338
12-Oct-2004	35663	35879	10760	10518	16599	15869	7831	7750	8717	8588	12367	11757
13-Oct-2004	39573	39908	10793	10695	15763	15484	8747	8641	8716	8692	12593	12064
14-Oct-2004	33891	34460	10807	10911	16681	17255	8688	8838	8822	9041	11725	11402
15-Oct-2004	28800	29307	10872	11017	16857	17940	9024	9263	8933	9293	10891	10615
16-Oct-2004	28800	29276	10872	11015	16007	17862	9119	9299	9069	9296	11229	10440
17-Oct-2004	28919	29387	10872	11057	15761	16742	9118	9299	9069	9296	11171	10467
18-Oct-2004	32303	32752	10840	10963	17012	18098	9132	9300	9096	9296	11516	10613
19-Oct-2004	33216	33833	13764	14116	17142	18616	7001	7043	9173	9296	11873	11331
20-Oct-2004	38160	38531	21960	22244	16340	18067	4560	4621	9173	9297	11983	11341
21-Oct-2004	44280	44813	21960	22287	16803	18585	4576	4654	9173	9299	12395	11181
22-Oct-2004	44280	44744	21960	22136	15002	17343	8880	9054	9024	9287	12275	10894
23-Oct-2004	44236	44669	21960	22162	13469	13554	8914	9137	8671	9054	10146	9255
24-Oct-2004	39864	40271	21898	22202	15587	17088	8778	8952	8963	9224	10070	9388
25-Oct-2004	37828	38334	21960	22408	16424	18255	4465	4593	8963	9298	10394	10073
26-Oct-2004	37594	38115	21960	22493	16317	18547	4587	4674	9082	9302	10549	9565
27-Oct-2004	39864	40404	21559	21604	16958	18371	4590	4671	9095	9297	10776	9833
28-Oct-2004	39777	40081	20502	20920	17065	18323	4597	4649	9130	9254	11445	10741
29-Oct-2004	39498	40094	21644	21929	17038	17677	4538	4660	8000	8076	11314	11077
30-Oct-2004	39707	40238	21462	21986	16975	17679	4551	4660	8851	9068	11503	11491
31-Oct-2004	39642	39909	21792	21988	17013	17694	4578	4604	9032	9151	12216	12225
Total MU	1179.329	1193.554	469.959	474.955	515.055	540.777	195.613	197.040	278.453	282.690	394.192	374.415
Max. MWH	44280	44813	21960	22493	18360	18616	9132	9300	9173	9302	16752	16353
Min MWH	28800	29276	10722	10409	13469	13554	4426	4271	8000	8076	10070	9255
Avg. MWH	38043	38502	15160	15321	16615	17444	6310	6356	8982	9119	12716	12078

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-Oct-2004	8715	8790	14250	14082	7512	7438	8544	8076	1137	1148	7652	7719
2-Oct-2004	8242	7699	13856	13392	7512	7485	8112	8183	1797	1813	7940	7996
3-Oct-2004	5394	5366	12668	12665	7512	7630	8064	8226	3393	3417	8787	8860
4-Oct-2004	5955	6073	13002	12937	7536	7551	8136	8140	2097	2115	8275	8353
5-Oct-2004	6046	6052	11036	11067	7728	7523	8304	8152	1530	1544	6970	7035
6-Oct-2004	6005	6017	10969	11072	7584	7531	8208	8161	1620	1636	6163	6221
7-Oct-2004	5170	5252	10047	10123	7584	7535	8208	8283	1620	1635	5588	5640
8-Oct-2004	5668	5878	10460	10599	7584	7516	8280	8193	1485	1499	5561	5612
9-Oct-2004	5301	5507	10000	10160	7608	7544	8352	8187	1305	1317	5268	5319
10-Oct-2004	5636	5691	10314	9707	7560	7748	8232	8299	1560	1570	5901	5926
11-Oct-2004	4910	5045	12104	11509	7584	7876	8208	8351	1800	1813	8392	8467
12-Oct-2004	5598	5647	11264	11200	7704	7840	8376	8590	2370	2385	8114	8169
13-Oct-2004	5535	5500	11152	11346	7800	7881	8400	8594	1800	1815	6081	6123
14-Oct-2004	3592	3340	10546	10431	7824	7825	8616	8587	1602	1617	5355	5403
15-Oct-2004	3732	3632	11781	11418	7872	7754	8640	8595	1647	1662	5225	5277
16-Oct-2004	3792	3434	11977	11693	7872	7752	8664	8578	1677	1693	5201	5246
17-Oct-2004	5934	5984	11879	10933	7872	7771	4223	3982	1572	1585	4830	4875
18-Oct-2004	7196	7106	10686	10140	7824	7735	4128	3928	1497	1510	4880	4926
19-Oct-2004	7947	7985	10576	10387	7776	7728	4080	3915	1437	1450	4800	4828
20-Oct-2004	8230	7925	10797	10478	7776	7577	4080	3903	1302	1313	4655	4696
21-Oct-2004	8187	7806	10614	10118	7680	7447	4032	3893	1257	1269	4315	4352
22-Oct-2004	8111	7037	10655	10129	7632	7700	4008	3726	1167	1177	4300	4342
23-Oct-2004	7327	6853	10122	9686	7608	7771	3840	3658	1182	1192	4150	4187
24-Oct-2004	7816	6567	10602	10336	7728	7748	5922	6105	1184	1194	4182	4221
25-Oct-2004	7963	6948	10617	10459	7776	7726	7680	8420	1140	1151	3916	3953
26-Oct-2004	8134	7821	10671	10355	7800	7716	8568	8348	1095	1101	4138	4177
27-Oct-2004	8312	8318	10852	10773	7752	7725	9000	8312	1350	1362	4076	4114
28-Oct-2004	8655	9027	7406	7406	7752	7727	8640	8314	1200	1211	4280	4320
29-Oct-2004	8331	7935	7077	7128	7776	7904	8640	8373	1080	1090	3876	3913
30-Oct-2004	9075	9283	3662	3696	7752	7897	8640	8388	1080	1089	3971	4015
31-Oct-2004	9261	9467	3707	3700	7848	7903	8640	8419	1095	1103	3710	3737
Total MU	209.770	204.985	325.349	319.125	238.728	238.504	227.465	224.879	47.078	47.476	170.552	172.022
Max. MWH	9261	9467	14250	14082	7872	7904	9000	8595	3393	3417	8787	8860
Min MWH	3592	3340	3662	3696	7512	7438	3840	3658	1080	1089	3710	3737
Avg. MWH	6767	6612	10495	10294	7701	7694	7338	7254	1519	1531	5502	5549

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-Oct-2004	2280	2300	2848	2872	3698	3772	12173	11190	5980	5949	3653	3676
2-Oct-2004	2280	2302	1424	1439	3582	3628	12173	10859	6803	6808	3539	3448
3-Oct-2004	2294	2307	2003	2103	3831	3856	12173	11340	10666	11104	3652	3616
4-Oct-2004	2290	2305	7120	7178	3675	3719	12173	11194	14449	14364	3691	3919
5-Oct-2004	2296	2318	7476	7535	3804	3900	12173	11179	12820	13091	3694	3603
6-Oct-2004	2262	2283	8544	8614	3601	3609	12187	11286	8193	8397	3344	3376
7-Oct-2004	2224	2174	7120	7179	3786	3848	12187	11296	8193	8184	3545	3544
8-Oct-2004	2260	2285	6008	6059	3762	3832	12187	11352	7978	8303	3568	3587
9-Oct-2004	2238	2251	5296	5338	3534	3576	12187	11280	7110	7236	3625	3702
10-Oct-2004	2157	2175	2626	2731	3677	3711	12187	11036	7110	6950	3753	3728
11-Oct-2004	2225	2248	3338	3473	4227	3858	12187	10838	7110	6886	3753	4133
12-Oct-2004	2300	2311	6052	6071	4750	4929	11389	10510	11324	11243	939	900
13-Oct-2004	2295	2309	5073	5158	4683	4624	12354	11359	14124	14068	2832	2724
14-Oct-2004	2179	2203	6052	6098	4276	4359	12329	11505	12048	11376	3812	3991
15-Oct-2004	2153	2166	5251	5294	4600	4648	12121	11126	10198	9969	3652	3711
16-Oct-2004	2015	2033	3961	4049	4466	4700	12136	11310	10490	10136	3619	3588
17-Oct-2004	1958	1977	3827	3858	4424	4686	12144	11351	9768	9143	3310	3304
18-Oct-2004	1925	1938	3827	3859	4197	4314	12144	11140	9768	9011	3559	3574
19-Oct-2004	1881	1899	3605	3636	4489	4787	12144	11365	8625	8003	3556	3613
20-Oct-2004	1813	1840	3204	3230	4455	4552	12122	11310	7495	7503	3528	3527
21-Oct-2004	1801	1807	3026	3051	4259	4364	12932	12242	7053	7076	3701	3725
22-Oct-2004	1727	1739	2937	2960	4287	4489	13590	12151	6529	6269	4209	4154
23-Oct-2004	1680	1694	2937	2964	4290	4381	13095	11904	6529	6316	4209	4342
24-Oct-2004	1656	1670	2893	2917	4322	4403	13105	12095	6529	6213	4388	4404
25-Oct-2004	1641	1656	2937	2962	4085	4211	13024	11970	6539	6714	4355	4310
26-Oct-2004	1579	1593	2937	2961	4055	4127	12975	11918	6440	6769	4355	4450
27-Oct-2004	1549	1564	2937	2962	3964	4116	13101	12036	6440	6648	4355	4356
28-Oct-2004	1498	1511	3293	3318	4148	4332	13088	11928	6440	6150	4355	4292
29-Oct-2004	1440	1454	3427	3455	3851	3923	13101	12221	6005	5815	3803	3813
30-Oct-2004	1416	1427	3605	3637	3737	3844	13101	12093	5850	5792	3851	3775
31-Oct-2004	1380	1388	4317	4341	3660	3796	13101	11861	5715	5769	4193	4326
Total MU	60.692	61.127	129.901	131.302	126.175	128.894	387.083	356.245	260.321	257.255	114.398	115.211
Max. MWH	2300	2318	8544	8614	4750	4929	13590	12242	14449	14364	4388	4450
Min MWH	1380	1388	1424	1439	3534	3576	11389	10510	5715	5769	939	900
Avg. MWH	1958	1972	4190	4236	4070	4158	12487	11492	8397	8299	3690	3716

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-Oct-2004	12000	12089	2698	2710
2-Oct-2004	12000	12092	2747	2730
3-Oct-2004	12000	12099	5519	5552
4-Oct-2004	11875	11817	5861	5912
5-Oct-2004	11500	11585	4331	4367
6-Oct-2004	10450	10558	3539	3571
7-Oct-2004	10106	10188	3638	3668
8-Oct-2004	9738	9830	3242	3270
9-Oct-2004	9444	9517	3119	3144
10-Oct-2004	8988	9031	3116	3139
11-Oct-2004	8794	8830	3168	3201
12-Oct-2004	8944	9002	4090	4098
13-Oct-2004	9213	9296	3465	3495
14-Oct-2004	8694	8757	3242	3271
15-Oct-2004	8356	8427	3168	3195
16-Oct-2004	7963	8028	2864	2880
17-Oct-2004	7831	7888	1160	1167
18-Oct-2004	7513	7529	1732	1745
19-Oct-2004	7650	7712	2552	2572
20-Oct-2004	7750	7787	2673	2689
21-Oct-2004	7450	7482	2574	2593
22-Oct-2004	6963	6814	2376	2394
23-Oct-2004	7400	7462	2426	2445
24-Oct-2004	6944	6989	2327	2347
25-Oct-2004	7063	7101	2203	2217
26-Oct-2004	6888	6941	2376	2397
27-Oct-2004	7425	7446	2475	2496
28-Oct-2004	7360	7376	2477	2499
29-Oct-2004	7100	7144	1832	1848
30-Oct-2004	7338	7377	2228	2246
31-Oct-2004	7275	7290	2129	2138
Total MU	270.015	271.484	91.347	91.996
Max. MWH	12000	12099	5861	5912
Min MWH	6888	6814	1160	1167
Avg. MWH	8710	8758	2947	2968

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	42.476	8.411	16.390	1.089	44.029	3.683	46.209	5.990	10.081	15.406	6.167	1.72	201.65
02	38.739	7.720	17.258	1.173	42.571	2.674	44.774	4.861	10.502	15.292	6.097	1.69	193.35
03	28.607	7.077	12.115	1.165	38.132	2.500	48.274	3.475	11.053	11.076	6.935	1.99	172.40
04	30.334	7.472	12.962	1.229	36.997	3.663	50.890	4.267	11.611	12.581	7.800	2.01	181.82
05	34.513	7.427	15.176	1.287	37.056	3.319	50.925	5.415	11.358	15.042	6.290	1.81	189.61
06	33.586	8.303	15.215	1.162	36.660	3.814	48.335	4.980	9.407	14.628	6.215	1.74	184.04
07	35.562	7.992	15.305	1.102	38.703	3.672	50.383	4.564	10.719	13.487	6.072	1.68	189.24
08	41.496	8.272	15.771	1.093	39.474	3.734	46.480	5.524	10.266	13.731	5.749	1.78	193.37
09	39.117	8.400	16.515	1.047	41.260	3.196	45.360	5.673	10.301	13.790	5.554	1.66	191.87
10	34.380	7.710	15.410	1.060	39.970	2.110	44.870	3.880	9.640	13.480	5.209	1.71	179.43
11	23.570	7.820	13.037	1.128	36.626	3.434	46.550	2.871	10.088	9.739	5.199	2.17	162.24
12	23.325	6.271	10.035	1.247	26.109	4.417	45.168	4.010	13.020	11.060	5.975	2.26	152.89
13	25.680	5.520	9.853	1.211	32.785	4.087	44.170	3.732	13.072	10.670	6.405	1.88	159.07
14	26.590	8.412	10.118	1.225	34.503	4.274	46.375	3.752	11.172	12.982	5.885	1.86	167.15
15	28.548	8.522	10.841	1.266	36.453	3.399	42.499	3.633	11.363	13.636	5.760	2.05	167.97
16	26.157	8.908	12.524	1.277	36.367	1.966	45.666	3.871	10.902	13.230	5.769	2.29	168.92
17	27.403	7.906	12.240	1.269	36.241	1.473	44.100	4.247	10.727	12.445	5.613	2.17	165.83
18	32.441	8.196	13.235	1.187	36.274	1.454	48.790	3.010	10.454	14.206	5.420	1.87	176.53
19	32.025	9.074	13.211	1.164	35.471	1.421	49.464	2.059	10.039	15.342	5.271	1.80	176.35
20	32.025	9.074	13.211	1.164	35.471	1.421	49.464	2.059	10.039	15.342	5.090	2.02	176.38
21	33.470	8.681	12.989	1.092	36.287	1.590	45.238	1.960	9.173	16.583	4.800	2.01	173.87
22	26.829	8.260	12.113	1.073	36.172	0.544	47.311	2.475	8.781	16.616	4.736	2.13	167.04
23	30.028	8.843	13.049	1.084	36.293	1.507	47.941	2.861	8.450	16.494	4.670	2.16	173.38
24	32.506	8.979	12.991	1.075	36.887	1.167	46.489	1.980	8.278	15.114	4.745	1.97	172.18
25	33.163	9.296	12.527	1.056	35.806	2.215	47.576	3.161	7.914	16.006	4.615	1.99	175.32
26	34.743	8.955	13.369	1.090	32.276	0.347	44.984	1.881	8.255	16.708	4.600	1.93	169.14
27	36.087	9.004	13.415	0.923	32.723	0.305	51.091	1.683	8.021	15.528	4.523	1.92	175.22
28	36.384	9.157	12.911	1.030	36.509	0.329	49.406	2.006	7.781	16.363	4.502	1.95	178.32
29	30.147	9.397	10.375	0.978	36.543	0.086	47.712	2.440	7.661	15.327	4.405	1.80	166.87
30	30.770	9.240	12.663	0.932	39.951	0.066	47.588	2.554	7.617	16.090	4.126	1.58	173.18
31	32.294	8.835	14.905	0.898	41.212	0.141	50.488	1.693	7.179	13.541	4.195	1.57	176.95
Maximum	42.48	9.40	17.26	1.29	44.03	4.42	51.09	5.99	13.07	16.71	7.80	2.29	201.65
Minimum	23.32	5.52	9.85	0.90	26.11	0.07	42.50	1.68	7.18	9.74	4.13	1.57	152.89
Average	32.03	8.29	13.28	1.12	36.83	2.19	47.24	3.44	9.84	14.24	5.43	1.91	175.86
Month Total	992.99	257.13	411.73	34.78	1141.81	68.01	1464.57	106.57	304.92	441.53	168.39	59.14	5451.58

XI. Performance Of Generating Stations

S.No.	Power Station	Effective Capacity MW	Energy Generated during October, 2004 (Ex Bus MU)	Cummulative from 01.04.2004 (Ex-bus MU)
1	CENTRAL SECTOR			
A	NTPC (Thermal)			
(a)	Badarpur TPS	705.00	370.88	2965.83
(b)	Singrauli STPS	2000.00	1179.45	8221.97
(c)	Rihand STPS	1000.00	475.38	4060.99
(d)	Dadri NCTPS	840.00	531.46	3595.34
(e)	Unchahar-I TPS	420.00	196.65	1716.09
(f)	Unchahar-II TPS	420.00	283.19	1723.67
(g)	Tanda TPS	440.00	221.42	1612.40
(h)	Anta GPS	419.33	204.22	1584.15
(i)	Auraiya GPS	663.36	317.96	2499.69
(j)	Dadri GPS	829.78	373.33	3108.56
(k)	Faridabad GPS	431.57	203.46	1792.81
	Total NTPC	8169.04	4357.41	32881.50
B	NHPC			
(a)	Bairasiul	180.00	47.47	423.19
(b)	Salal	690.00	172.02	2617.53
(c)	Tanakpur HPS	94.20	61.12	355.63
(d)	Chamera HPS	540.00	131.31	1529.49
(e)	Uri HPS	480.00	128.88	1536.15
(f)	Chamera2 HPS	300.00	91.99	1064.89
	Total NHPC	2284.20	632.79	7526.88
C	Nathpa-Jhakri	1500.00	271.49	4115.28
D	NPC			
(a)	RAPS -A	300.00	125.41	702.24
(b)	RAPS -B	440.00	224.91	1306.15
(c)	NAPS	440.00	238.55	1246.69
	Total NPC	1180.00	588.86	3255.08
2	JOINTLY OWNED (BBMB)			
(a)	Bhakra Complex	1490.15	387.56	2900.50
(b)	Dehar	990.00	256.27	2351.70
(c)	Pong	396.00	113.96	567.27
	Total BBMB	2876.15	757.79	5819.48
3	DELHI			
(a)	Indra Prastha	247.50	74.81	493.70
(b)	Rajghat	135.00	42.64	387.36
(c)	Gas Turbines	282.00	119.84	870.85
(d)	Pragati Gas	330.00	206.09	1456.10
	Total DELHI	994.50	443.37	3208.01
4	HARYANA			
(a)	WYC	62.40	34.28	189.23
(b)	Faridabad (New)	165.00	66.90	433.11
(c)	Panipat	860.00	396.30	2824.60
(d)	Magnum Diesel(IPP)	25.20	3.58	49.26
	Total Haryana	1112.60	501.06	3496.19

contd/-

5	HP			
(a)	Giri	60.00	16.63	97.06
(b)	Bassi	60.00	18.78	207.80
(c)	Binwa	6.00	3.55	20.24
(d)	Rongtong (+Nogli+Micro+Thirot+Sal-2)	15.25	5.22	17.29
(e)	Andhra	16.95	5.49	37.54
(f)	Bhabha (H)	120.00	38.72	488.75
(g)	Baner (H)	12.00	4.36	29.07
(h)	Gaj (H)	10.50	5.46	34.01
(i)	Gumma	3.00	0.00	3.02
(j)	Ghanvi	22.50	7.53	54.81
(k)	Malana (IPP)	86.00	15.52	224.12
(l)	Baspa (IPP)	300.00	61.76	1043.73
	Total HP	712.20	183.02	2257.45
6	J & K			
(a)	Lower Jhelum	105.00	23.15	292.45
(b)	Upper Sindh	127.60	21.01	126.34
(c)	Ganderbal	15.00	3.11	15.22
(d)	Mohra	9.00	0.00	0.00
(e)	Chenani	32.80	6.73	62.05
(f)	Stakna	9.75	0.00	0.00
(g)	Small Hydel	3.54	0.00	3.80
(h)	Sewa	9.00	1.43	0.00
(i)	Diesel gen set	7.18	2.94	0.00
(j)	Pampore GT St - I	75.00	1.43	1.43
(k)	Pampore GT St - II	100.00	2.94	2.94
	Total J & K	493.87	62.74	504.23
7	PUNJAB			
(a)	Jogindernagar/ Shanan	110.00	32.71	393.56
(b)	UBDC	90.00	21.97	265.92
(c)	Mukerian	207.00	106.36	582.24
(d)	Anandpur Sahib (APS)	134.00	13.05	337.66
(e)	Ranjit Sagar HPS	600.00	52.53	789.77
(f)	Small Hydel	4.10	0.00	0.21
(g)	GNDTPS (Bhatinda)	440.00	176.61	1086.90
(h)	GGSTPS (Ropar)	1260.00	548.79	5156.35
(i)	Jhalkeri	10.00	0.00	0.85
	Peda & Sugarmill		4.28	22.39
(j)	Lehra Mohabbat TPS	420.00	260.71	1685.00
	Total Punjab	3275.10	1217.01	10320.84
8	RAJASTHAN			
(a)	Mahi Bajaj Sagar	140.00	0.54	118.40
(b)	Rana Pratap Sagar (RPS)	172.00	37.96	77.76
(c)	Jawahar Sagar (JS)	99.00	25.89	78.13
(d)	Gandhi sagar	115.00		
(d)	ACW	9.00	0.87	5.52
(e)	MMH	14.85	0.25	1.08
(f)	Kota TPS	1045.00	442.48	3616.36
(g)	RAMGARH GT	3.00		
(h)	RAMGARH GT EXT	35.50	30.29	152.80
(i)	Suratgarh TPS	1250.00	678.89	4719.74
(j)	Wind Farm	14.01	22.04	262.56
(k)	Others		3.59	19.03
	Total Rajasthan	2782.36	1242.81	9051.36

contd/-

9	U.P.			
	<u>HYDRO</u>			
(a)	Rihand	300.00	44.52	428.45
(b)	Obra	99.00	18.48	181.13
(c)	Matatilla	30.00	9.77	71.28
(d)	Khara	72.00	33.86	207.07
	Total U.P. (Hydro)	501.00	106.62	887.93
	<u>THERMAL</u>			
(e)	Obra	1442.00	434.17	2656.16
(f)	Panki	242.00	45.93	538.56
(g)	Harduaganj	375.00	40.73	350.65
(h)	Paricha	220.00	81.89	540.44
(i)	Anpara	1630.00	861.83	5787.83
	Total U.P. (Thermal)	3909.00	1464.55	9873.63
	Total U.P.	4410.00	1571.18	10761.56
10	UTTRANCHAL			
(a)	Khatima	41.40	21.22	123.49
(b)	Ramganga	198.00	0.00	52.58
(c)	Ganga Canal	32.70	8.73	91.94
(d)	Yamuna (I & IV)	114.75	108.96	638.37
(e)	Chibro	240.00	50.13	442.22
(f)	Khodri	120.00	23.82	207.12
(g)	Chilla	144.00	91.32	543.67
(h)	Maneri Bhali	90.00	0.00	0.00
(i)	Sibla+Small hydel	18.20		
	Total Uttranchal	999.05	304.18	2099.39
11	CHANDIGARH			
	Diesel gen set	1.40		
	Total Region	30790.47	12133.70	95297.24

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 OCTOBER 2004

(ALL FIGS IN MUs)

FROM / TO	PUNJAB	HARYANA	RAJASTHAN	DELHI	UP	UTTRANCHAL	HP	J & K	CHANDIGARH	MALANA
PUNJAB	-		-		-			3.25****	-	-
HARYANA	-	-	-	19.552****	-	-	13.001*	-	-	
RAJASTHAN		-	-		-	-	-	-		
DELHI	-		-		-	-	20.016****	-	-	-
UP	-	-	-	-	-	-		-	-	-
UTTRANCHAL		-	-	-	-	-		-	-	-
HP	8.06	-	-		4.092****	28.493***	-	-	-	-
J & K		-	-		-	-	-	-	-	-
CHANDIGARH	-	-	-	-	-	-	-	-	-	-

* Through PTC

** Through NVVN



**** Through Banking/ Agreement

REMARKS : Figures are provisional and indicative only.

XIII. DETAILS OF ENERGY EXCHANGES THROUGH BILATERAL AGREEMENTS (INTER-REGIONAL) DURING OCTOBER 2004
(ALL FIGS IN MUs)

FROM / TO	GRIDCO	WBPCL	MPEB	APTRCO	DVC	ASSAM	GOA	TRIPURA
PUNJAB	47.037***WR	12.500*+22.3***+33.051***WR			25.83*WR	11.15*	-	
HARYANA	124.787*+14.975***WR							17.339***WR
RAJASTHAN	-				55.025*WR	-	-	
DELHI					--			
UP		48.162*						
UTTRANCHAL	-		-	-	-	-	-	
J & K	75.050*			-	-	-	-	
CHANDIGARH								

* Through PTC

(+) Import by NR constituents

(-) Export by NR constituents

** Through Global Energy Limited

*** Throgh NVVN

**** Through ADANI

REMARKS : are provisional and indicative only

POWERGRID CORPORATION OF INDIA LTD.
NRLDC, New Delhi

Smmary of inter regional exchanges for October 2004

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	500	500	0	10.35	0.00	10.35	0	0	0	0	0.00	0.00	0.00
02	-50	500	500	50	7.81	0.17	7.65	0	0	0	0	0.00	0.00	0.00
03	65	200	375	0	4.85	0.00	4.85	0	0	0	0	0.00	0.00	0.00
04	300	310	410	0	6.68	0.00	6.68	0	0	0	0	0.00	0.00	0.00
05	66	310	500	0	8.28	0.00	8.28	0	0	0	0	0.00	0.00	0.00
06	300	500	500	0	11.41	0.00	11.41	0	0	0	0	0.00	0.00	0.00
07	200	500	500	0	10.19	0.00	10.19	0	0	0	0	0.00	0.00	0.00
08	166	500	500	0	9.87	0.00	9.87	0	0	0	0	0.00	0.00	0.00
09	66	398	500	0	9.18	0.00	9.18	0	0	0	0	0.00	0.00	0.00
10	0	500	500	100	7.11	0.27	6.84	0	0	0	0	0.00	0.00	0.00
11	25	-100	300	300	2.45	1.48	0.97	0	0	0	0	0.00	0.00	0.00
12	25	100	252	0	4.05	0.00	4.05	0	0	0	0	0.00	0.00	0.00
13	100	252	252	0	4.34	0.00	4.34	0	0	0	0	0.00	0.00	0.00
14	75	252	350	0	5.59	0.00	5.59	0	0	0	0	0.00	0.00	0.00
15	25	243	500	0	6.46	0.00	6.46	0	0	0	0	0.00	0.00	0.00
16	25	300	350	0	5.40	0.00	5.40	0	0	0	0	0.00	0.00	0.00
17	100	356	406	0	7.25	0.00	7.25	0	0	0	0	0.00	0.00	0.00
18	66	350	450	0	6.98	0.00	6.98	0	0	0	0	0.00	0.00	0.00
19	65	355	450	0	6.83	0.00	6.83	0	0	0	0	0.00	0.00	0.00
20	65	355	450	0	6.83	0.00	6.83	0	0	0	0	0.00	0.00	0.00
21	65	355	400	0	6.91	0.00	6.91	0	0	0	0	0.00	0.00	0.00
22	65	355	400	0	6.82	0.00	6.82	0	0	0	0	0.00	0.00	0.00
23	65	355	400	0	6.49	0.00	6.49	0	0	0	0	0.00	0.00	0.00
24	65	355	400	0	6.93	0.00	6.93	0	0	0	0	0.00	0.00	0.00
25	66	355	355	0	5.53	0.00	5.53	0	0	0	0	0.00	0.00	0.00
26	66	355	355	0	6.57	0.00	6.57	0	0	0	0	0.00	0.00	0.00
27	65	100	200	150	1.73	0.24	1.49	0	0	0	0	0.00	0.00	0.00
28	-50	-100	150	200	0.14	1.43	-1.29	0	0	0	0	0.00	0.00	0.00
29	100	150	400	0	5.02	0.00	5.02	0	0	0	0	0.00	0.00	0.00
30	116	267	300	0	4.13	0.00	4.13	0	0	0	0	0.00	0.00	0.00
31	66	267	350	250	2.75	0.29	2.46	0	0	0	0	0.00	0.00	0.00
Maximum	300	500	500	300	11.41	1.48	11.41	0	0	0	0	0.00	0.00	0.00
Minimum	-50	-100	150	0	0.14	0.00	-1.29	0	0	0	0	0.00	0.00	0.00
Average	81	306	395	34	6.29	0.12	6.16	0	0	0	0	0.00	0.00	0.00
Month Total					194.90	3.87	191.03					0.00	0.00	0.00

POWERGRID CORPORATION OF INDIA LTD.
NRLDC, New Delhi

Smmary of inter regional exchanges for October 2004

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	250	500	500	0	9.70	0.00	9.70
02	0	0	0	0	0.00	0.00	0.00	225	500	500	0	9.41	0.00	9.41
03	0	0	0	0	0.00	0.00	0.00	225	416	416	0	8.99	0.00	8.99
04	0	0	0	0	0.00	0.00	0.00	250	322	410	0	7.29	0.00	7.29
05	0	0	0	0	0.00	0.00	0.00	232	410	500	0	9.64	0.00	9.64
06	0	0	0	0	0.00	0.00	0.00	0	475	500	0	7.89	0.00	7.89
07	0	0	0	0	0.00	0.00	0.00	227	450	500	0	10.69	0.00	10.69
08	0	0	0	0	0.00	0.00	0.00	225	475	475	0	10.34	0.00	10.34
09	0	0	0	0	0.00	0.00	0.00	222	500	500	0	10.40	0.00	10.40
10	0	0	0	0	0.00	0.00	0.00	130	467	467	0	7.86	0.00	7.86
11	0	0	0	0	0.00	0.00	0.00	132	230	500	0	5.50	0.00	5.50
12	0	0	0	0	0.00	0.00	0.00	133	253	275	0	5.25	0.00	5.25
13	0	0	0	0	0.00	0.00	0.00	234	254	384	0	6.06	0.00	6.06
14	0	0	0	0	0.00	0.00	0.00	300	304	500	0	8.10	0.00	8.10
15	0	0	0	0	0.00	0.00	0.00	375	423	500	0	10.73	0.00	10.73
16	0	0	0	0	0.00	0.00	0.00	423	425	425	0	9.71	0.00	9.71
17	0	0	0	0	0.00	0.00	0.00	500	423	500	0	11.35	0.00	11.35
18	0	0	0	0	0.00	0.00	0.00	422	500	500	0	10.50	0.00	10.50
19	0	0	0	0	0.00	0.00	0.00	374	421	500	0	10.57	0.00	10.57
20	0	0	0	0	0.00	0.00	0.00	374	421	500	0	10.57	0.00	10.57
21	0	0	0	0	0.00	0.00	0.00	436	422	472	0	10.08	0.00	10.08
22	0	0	0	0	0.00	0.00	0.00	386	450	500	0	10.00	0.00	10.00
23	0	0	0	0	0.00	0.00	0.00	436	450	450	0	10.10	0.00	10.10
24	0	0	0	0	0.00	0.00	0.00	386	330	450	0	9.21	0.00	9.21
25	0	0	0	0	0.00	0.00	0.00	400	427	500	0	10.32	0.00	10.32
26	0	0	0	0	0.00	0.00	0.00	386	423	429	0	10.00	0.00	10.00
27	0	0	0	0	0.00	0.00	0.00	386	424	430	0	9.78	0.00	9.78
28	0	0	0	0	0.00	0.00	0.00	0	236	473	0	4.10	0.00	4.10
29	0	0	0	0	0.00	0.00	0.00	470	373	473	0	9.88	0.00	9.88
30	0	0	0	0	0.00	0.00	0.00	472	376	472	0	11.05	0.00	11.05
31	0	0	0	0	0.00	0.00	0.00	471	372	471	0	4.85	0.00	4.85
Maximum	0	0	0	0	0.00	0.00	0.00	500	500	500	0	11.35	0.00	11.35
Minimum	0	0	0	0	0.00	0.00	0.00	0	230	275	0	4.10	0.00	4.10
Average	0	0	0	0	0.00	0.00	0.00	306	402	467	0	9.03	0.00	9.03
Month Total					0.00	0.00	0.00					278.09	0.00	278.09

Summary of inter regional exchanges for October 2004

Date	Sahupuri - Karamnasa							Rihand-Son Nagar						
	Peak MW	Off Peak MW	Max Import	Max Export	Energy Import	Energy Export	Total	Peak MW	Off Peak MW	Max Import	Max Export	Energy Import	Energy Export	Total
	MW	MW	MW	MW	MU	MU	MU	MW	MW	MW	MW	MU	MU	MU
01	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
02	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
03	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
04	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
05	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
06	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
07	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
08	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
09	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
10	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
11	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
12	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
13	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
14	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
15	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
16	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
17	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
18	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
19	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
20	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
21	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
22	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
23	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
24	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
25	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
26	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
27	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
28	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
29	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
30	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
31	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
Maximum	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Minimum	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Month Total					0.00	0.00	0.00					0.00	0.00	0.00

POWERGRID CORPORATION OF INDIA LTD.
NRLDC, New Delhi

Smmary of inter regional exchanges for October 2004

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	145	85	170	0	3.21	0.00	3.21	0	0	0	0	0.00	0.00	0.00
02	175	95	180	0	3.09	0.00	3.09	0	0	0	0	0.00	0.00	0.00
03	155	135	175	0	3.70	0.00	3.70	0	0	0	0	0.00	0.00	0.00
04	120	150	155	0	3.37	0.00	3.37	0	0	0	0	0.00	0.00	0.00
05	130	115	175	0	3.29	0.00	3.29	0	0	0	0	0.00	0.00	0.00
06	135	110	168	0	2.98	0.00	2.98	0	0	0	0	0.00	0.00	0.00
07	130	120	160	0	3.15	0.00	3.15	0	0	0	0	0.00	0.00	0.00
08	142	122	163	0	2.95	0.00	2.95	0	0	0	0	0.00	0.00	0.00
09	130	133	167	0	3.15	0.00	3.15	0	0	0	0	0.00	0.00	0.00
10	140	135	159	0	3.39	0.00	3.39	0	0	0	0	0.00	0.00	0.00
11	110	140	164	0	3.64	0.00	3.64	0	0	0	0	0.00	0.00	0.00
12	110	130	165	0	3.39	0.00	3.39	0	0	0	0	0.00	0.00	0.00
13	125	140	160	0	3.48	0.00	3.48	0	0	0	0	0.00	0.00	0.00
14	130	145	155	0	3.29	0.00	3.29	0	0	0	0	0.00	0.00	0.00
15	110	140	160	0	1.70	0.00	1.70	0	0	0	0	0.00	0.00	0.00
16	140	150	167	0	3.29	0.00	3.29	0	0	0	0	0.00	0.00	0.00
17	140	130	162	0	3.20	0.00	3.20	0	0	0	0	0.00	0.00	0.00
18	145	140	150	0	3.18	0.00	3.18	0	0	0	0	0.00	0.00	0.00
19	140	130	145	0	3.29	0.00	3.29	0	0	0	0	0.00	0.00	0.00
20	140	130	145	0	3.29	0.00	3.29	0	0	0	0	0.00	0.00	0.00
21	132	139	168	0	3.28	0.00	3.28	0	0	0	0	0.00	0.00	0.00
22	115	140	165	0	3.40	0.00	3.40	0	0	0	0	0.00	0.00	0.00
23	120	120	175	0	3.24	0.00	3.24	0	0	0	0	0.00	0.00	0.00
24	162	146	162	0	3.22	0.00	3.22	0	0	0	0	0.00	0.00	0.00
25	138	142	167	0	3.18	0.00	3.18	0	0	0	0	0.00	0.00	0.00
26	155	150	175	0	3.40	0.00	3.40	0	0	0	0	0.00	0.00	0.00
27	166	165	170	0	3.31	0.00	3.31	0	0	0	0	0.00	0.00	0.00
28	0	150	170	0	0.97	0.00	0.97	0	0	0	0	0.00	0.00	0.00
29	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
30	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
	0	0	0	0	0.00	0.00	0.00							
Maximum	175	165	180	0	3.70	0.00	3.70	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	119	120	148	0	2.84	0.00	2.84	0	0	0	0	0.00	0.00	0.00
Month Total					87.02	0.00	87.02					0.00	0.00	0.00

XV. Status Of Installation Of Shunt Capacitors As On 31.10.2004**(All fig. In MVARs)**

STATE/UT	Requirement by 31.03.2005	Installed as on 31.03.2004	Additional Requirement for 2004-2005	Programme as furnished by SEB's	Installed during 2003-04 upto 31.10.2004	Balance not installed during 2004-05	Capacitors installed as on 31.10.2004
DELHI	3135	** 3021	567	-	168	399	3189
HARYANA	2920	3269	141	500	81	60	3350
PUNJAB	4564	4721	551	500	64	487	4785
RAJASTHAN	2650	2895	189	500	163	26	3058
UP	4890	5192	477	700	0	477	5192
UTTRANCHAL	350	125	244	45	0	244	125
HP	305	311	41	-	0	41	311
J&K	915	147	790	500	0	790	147
BBMB	381	381	0	-	0	0	381
CHANDIGARH	140	100	55	-	0	55	100
TOTAL	20250	20162	3055	2745	476	2579	20638

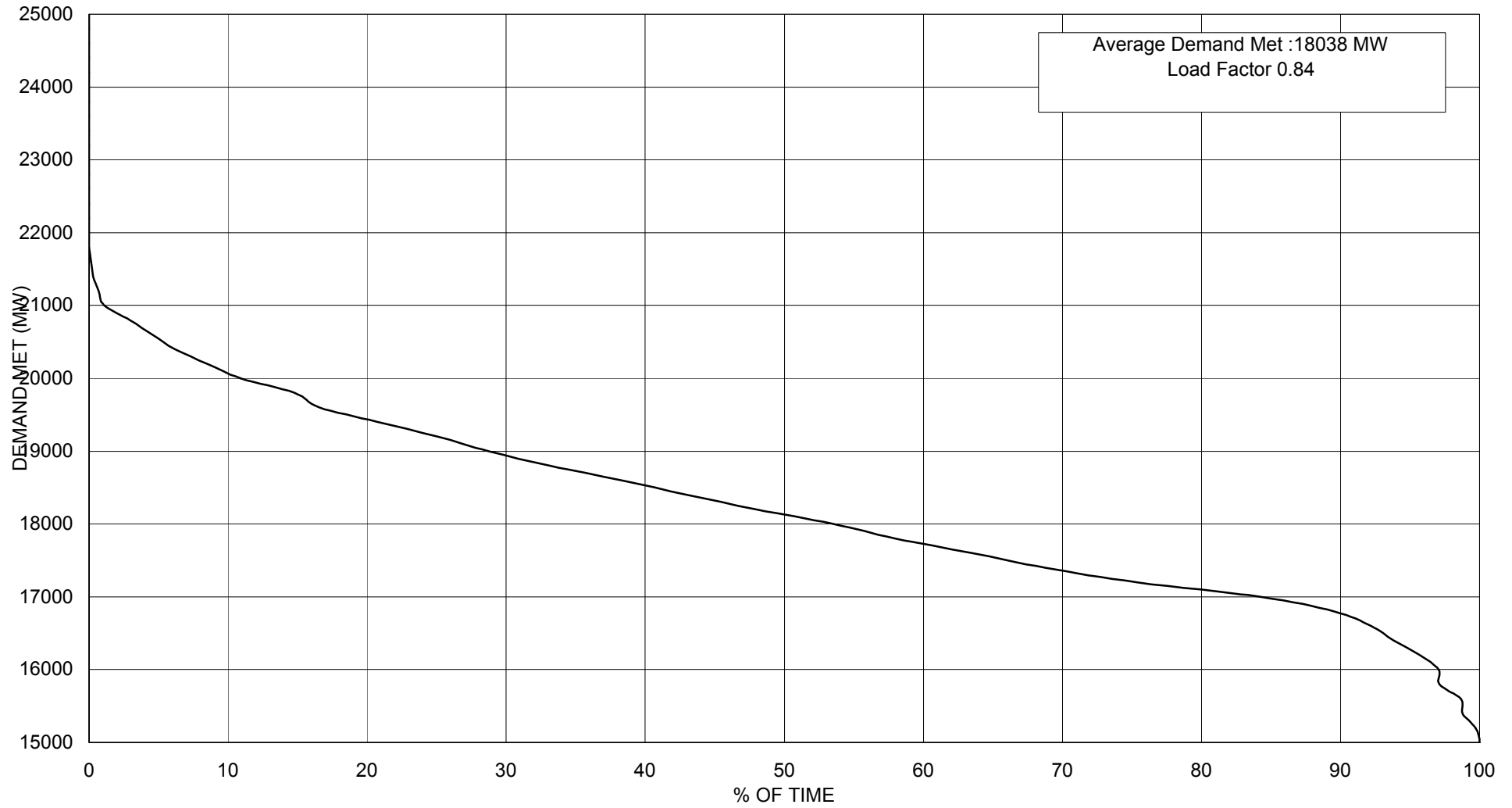
NOTE: However the effective installed capacitors are assumed to be 85% of column II** i.e 17195

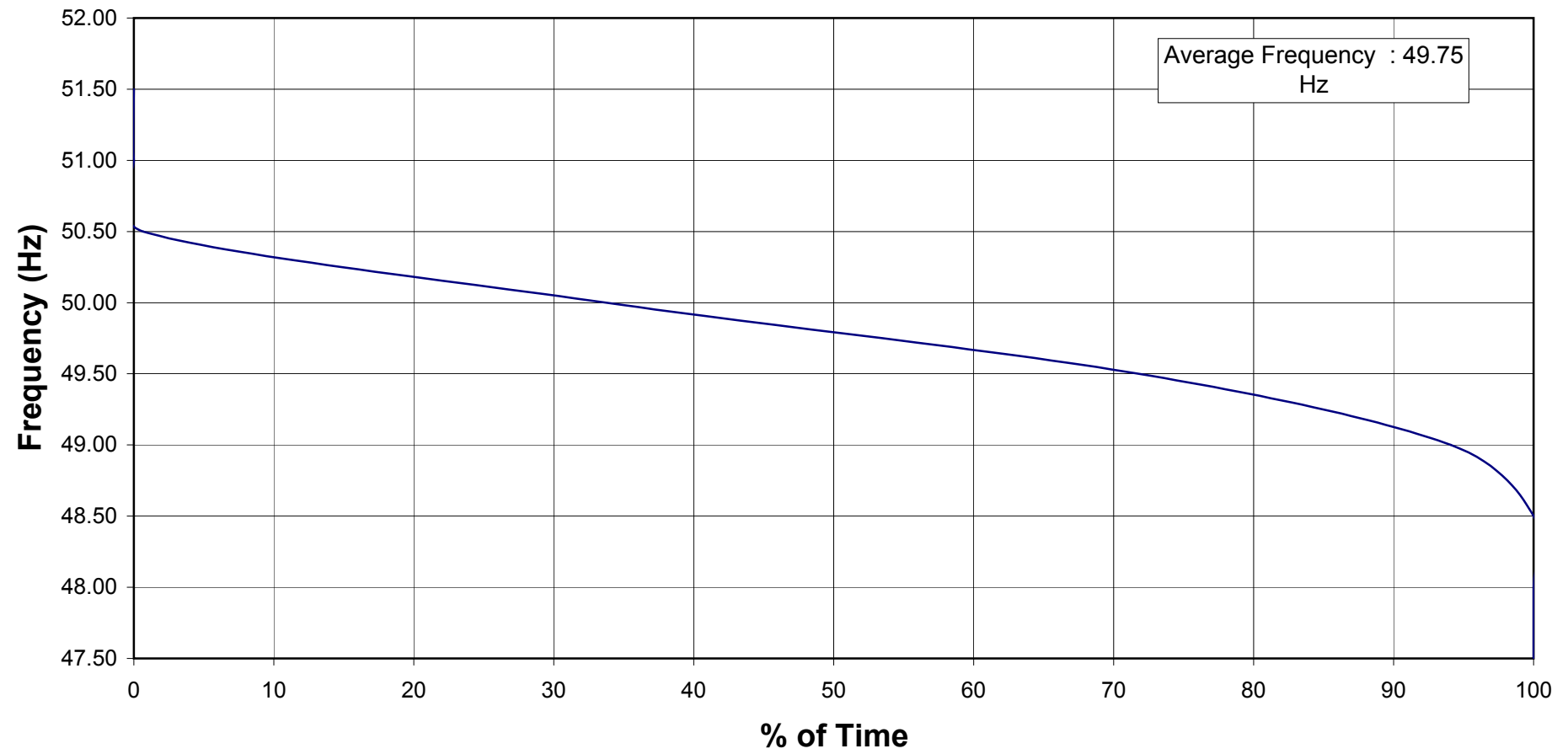
XVI. Hydraulic Data For Reservoirs During October 2004

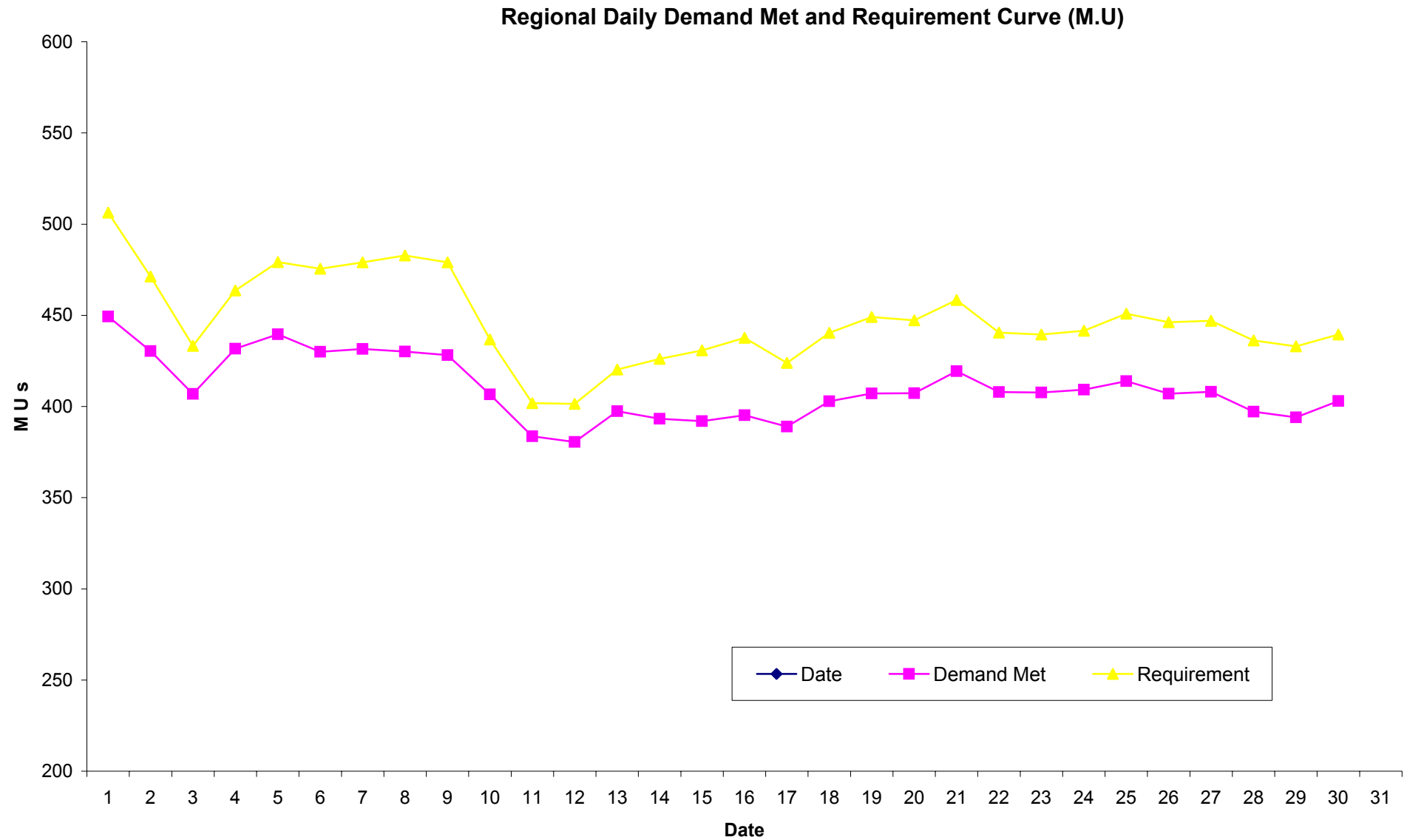
Item	Bhakra	Pong	Rihand	R.P.S.	Gandhi Sagar (M.P.)
Full Reservoir Level (m) (FRL) (ft)	514.50 1688.00	433.12 1421.00	268.22 880.00	352.65 1157.00	402.64 1321.00
Min. Draw Down Level (m) (MDDL) (ft)	445.62 1462.00	384.05 1260.00	252.98 830.00	342.90 1125.00	381.00 1250.00
Level on last day of OCTOBER 2004 (m)	486.87 1597.34	408.85 1341.37	257.16 843.70	348.02 1141.81	394.17 1293.20
Level on last day of OCTOBER 2003 (m)	506.42 1661.48	413.80 1357.61	265.42 870.80	384.46 1261.35	387.79 1272.27
Live Capacity as on (mhmt) last day of OCTOBER 2004 (maft)	0.33 2.70	0.29 2.35	0.12 0.97	0.05 0.40	0.36 2.91
Live Capacity as on (mhmt) last day of OCTOBER 2003(maft)	0.58 4.69	0.49 3.96	0.42 3.42	0.08 0.65	0.12 1.00
Energy content as on last day of OCTOBER 2004 (MU)	1240.00	455.00	175.00	160.00	980.00
Energy content as on last day of OCTOBER 2003 (MU)	2350.00	600.00	825.00	145.00	370.00
Maximum level (m) (ft) (date)	487.92 1600.80 17.10.2004	409.92 1344.88 08.10.2004	257.59 845.11 01.10.2004	349.30 1145.99 01.10.2004	394.79 1295.24 01.10.2004
Minimum level (m) (ft) (date)	486.87 1597.34 31.10.2004	408.85 1341.37 31.10.2004	257.16 843.70 31.10.2004	348.94 1144.81 31.10.2004	394.17 1293.20 31.10.2004

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.

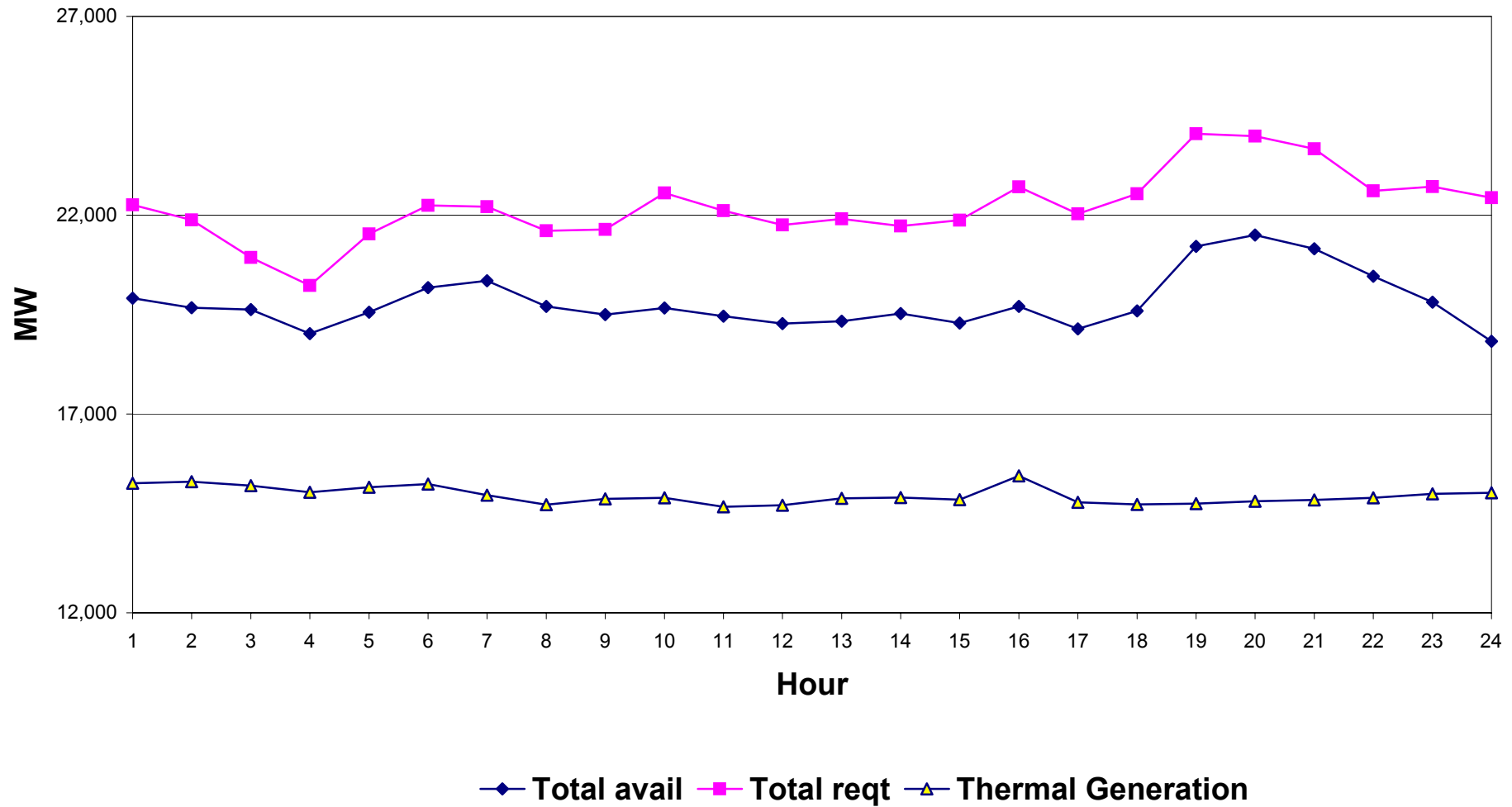
Load Duration Curve For Northern Region For OCTOBER 2004



Frequency Duration Curve For Northern Region For October 2004



Load Curve Of Northern Region For Maximum Demand Met Day (1st October 2004)



Load Curve Of Northern Region For Minimum Demand Met Day (11th October 2004)

