

CONTENTS

A) Summary Report	Page No.
I. Grid Overview during the Month	1
2. Commissioning of New Units/Lines/Transformers	1
3. Frequency Profile	2
4. Power Supply Position in Northern Region	2
5. Schedule Vs Drawal of Constituents	3
6. Inter Regional Exchanges	3
 B) Detailed Report	
I Details of Installed/Effective Capacity	4-8
II. Breakup of Hydro Capacity	9
III. Frequency Profile	10
IV. Voltage Profile	11
V. Regional Power Supply Position	12
VI. Daily Peak/Off Peak Demand Met By Constituents	13-14
VII. Daily Consumption By Constituents	15
VIII. Schedule vs Actual Drawal of Constituents	16-17
IX. Schedule vs Injection of ISGS	18-21
X. Daily Generation Details of State Sector Stations	22
XI. Performance of Generating Stations	23-25
XII. Energy details of Bilateral Agreements (Intra-Regional)	26
XIII. Energy details of Bilateral Agreements (Inter-Regional)	27
XIV Inter Regional Exchanges	28-29
XV Progress of Installation of Shunt Capacitors	30
XVI Hydraulic Data for Reservoirs	31
 C) Annexures	
1. Load Duration Curve of Northern Region	
2. Frequency Duration Curve of Northern Region	
3. Load Curve Of Northern Region for the Maximum Demand Met Day	
4. Load Curve Of Northern Region for the Minimum Demand Met Day	
5. Demand Met and Requirement of Northern Region (MU)	
6. Grid incident	
7. 400 KV Grid Diagram of Northern Region	

NORTHERN REGION GRID REPORT FOR THE MONTH OF JULY 2004

A) Summary Report

Grid Overview during the Month

1.

The average availability during the month July 2004 was 22053 MW as compared to 20376 during July 2003 and in terms of energy the figures were 503.99 and 439.00 MU respectively, an increase in 8.23 % in terms of MW and 14.80% in terms of energy. The maximum demand met was 24207 MW in July 2004 as compared to 21993 MW during July 2003. Frequency above 50.50 HZ and below 48.50 HZ remained only 0.01% of the time during the month. Frequency variation index was 5.60. The average frequency was 49.35 HZ. Overall voltage profile in the grid has been satisfactory on most of the 400 kv buses.

There was a partial grid disturbance on 26th July, in which Eastern UP separated from rest of the grid. However major grid disturbance was averted due to running of many generating units in FGMO mode and excellent co-operation from constituents and quick and prompt action taken by NRLDC. Details are given in Annexure-VI

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

NIL

3. Monthly Frequency Profile :

Maximum frequency	50.83	Hz	at	13.01	hours on	26.07.2004
Minimum frequency	48.25	Hz	at	9:36	hours on	26.07.2004
Average frequency	49.35	Hz				

Frequency distribution in %

Hz	< 48.50	<49.00	49.00-50.50	> 50.50
% of time	0.01	17.83	82.16	0.01

Monthly Frequency Variation Index

Maximum	9.58
Minimum	1.64
Average	5.60

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

State / U.T.	Demand met MU/Day	Requirement MU/Day	Shortage MU/Day	Shortage %
Punjab	112.25	128.33	16.08	12.53
Haryana	71.56	73.71	2.15	2.92
Rajasthan	75.65	79.47	3.82	4.81
U.P.	115.62	153.37	37.75	24.61
Uttaranchal	12.83	13.09	0.26	1.99
Delhi	69.68	70.16	0.48	0.68
H.P.	8.61	8.61	0.00	-0.02
J & K *	18.10	24.76	6.66	26.89
Chandigarh	4.01	4.01	0.00	0.00
N.F.F./Rail	1.65	1.65	0.00	0.00
Total	489.97	557.16	67.19	12.06

b. Peak MW

State / U.T.	MAX. Demand met MW	MAX. Requirement MW	Shortage MW	Shortage %
	A	B	C	(C/B)*100
Punjab	5574	6076	502	8.26
Haryana	3590	3931	341	8.67
Rajasthan	3824	3824	0	0.00
U.P.	5956	7694	1738	22.59
Uttaranchal	786	826	40	4.84
Delhi	3490	3925	435	11.08
H.P.	589	589	0	0.00
J & K *	1228	1277	49	3.84
Chandigarh	226	226	0	0.00
N.F.F./Rail	75	75	0	0.00
Region	24207	26808	2601	9.70

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	1575.87	1640.50	64.63
Haryana	1272.26	1407.76	135.50
Rajasthan	989.70	1064.34	74.64
U.P.	1646.49	1825.29	178.80
Uttranchal	111.07	83.83	-27.24
Delhi	1443.04	1233.21	-209.83
H.P.	-107.39	-126.07	-18.68
J & K	465.07	493.55	28.48
Chandigarh	106.74	130.91	24.17
N.F.F./Rail	69.22	50.96	-18.26

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

a)	From WR over HVDC Vindhyachal B/B	197.76	500
b)	From WR over 220 kV Ujjain-Kota	0.00	0
c)	From ER over HVDC Sasaram B/B	343.11	500
d)	From ER over 220 kV Dehri-Sahupuri	28.67	156

Export

e)	To WR over HVDC Vindhyachal B/B	0.26	250
f)	To WR (MP) over 220 kV Auraiya-Malanpur	11.00	33
g)	To WR(MP) over 220 kV Kota-Ujjain	47.19	120
h)	To ER over 220 kV/132kV lines	0.20	35
i)	To ER over HVDC Sasaram B/B	0.00	0
j)	To Nepal over 132 kV Tanakpur-Mahendernagar	0.00	0

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

	<u>STATION</u>	<u>INSTALLED CAPACITY</u> <u>(MW)</u>		<u>EFFECTIVE CAPACITY</u>	
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+1x27.63+1x26.7	83.58	1x29.25+1x27.63+1x26.7	83.58
(iv)	Kotla	1x29.25+1x24.2+1x28.12	81.57	1x29.25+1x24.2+1x28.12	81.57
	Sub-Total		1490.15		1490.15
(b)	Dehar	6x165	990.00	6x165	990.00
(c)	Pong	6x66	396.00	6x66	396.00
	Total BBMB		2876.15		2876.15

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+2.7.2 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 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 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 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)		31316.63		30790.47

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	26.53%
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	2876.15	0.00	0.00	0.00	2876.15	9.34%
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	14.32%
UTTRANCHAL	999.05	0.00	0.00	0.00	999.05	3.24%
Total	10826.64	15566.50	3217.33	1180.00	30790.47	100.00%
% of TOTAL	35.16%	50.56%	10.45%	3.83%	100.00%	

Notes The above table does not take into account the shares of a state in power stations located in the neighbouring state. 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 Shanana 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 31.07.2004

Agency / Source	Run-of -the -river	Reservoir	Total
NHPC	1264.00	1020.00	2284.00
BBMB	1155.15	1721.00	2876.15
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	5315.44	5511.00	10826.44
PERCENTAGE	49.10%	50.90%	100%

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

III.

Frequency Profile

Date	% of Time Frequency								
	< 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	39.63	90.43	60.37	0.94	0.00	0.00	0.00
02	0.00	0.00	42.43	93.68	57.57	0.31	0.00	0.00	0.00
03	0.00	0.00	17.29	81.88	82.71	2.22	0.00	0.00	0.00
04	0.00	0.00	12.60	57.78	87.40	8.96	0.00	0.00	0.00
05	0.00	0.00	21.29	69.47	78.71	8.06	0.00	0.00	0.00
06	0.00	0.00	3.72	42.15	96.28	13.33	0.00	0.00	0.00
07	0.00	0.00	5.66	60.92	94.34	15.20	0.00	0.00	0.00
08	0.00	0.00	0.56	27.64	99.44	17.99	0.00	0.00	0.00
09	0.00	0.00	9.37	49.98	90.63	14.28	0.00	0.00	0.00
10	0.00	0.00	14.87	74.05	85.13	4.65	0.00	0.00	0.00
11	0.00	0.00	4.38	44.41	95.63	16.56	0.00	0.00	0.00
12	0.00	0.00	3.13	42.19	96.87	14.17	0.00	0.00	0.00
13	0.00	0.00	9.38	78.92	90.63	1.18	0.00	0.00	0.00
14	0.00	0.00	14.93	75.00	85.07	3.02	0.00	0.00	0.00
15	0.00	0.00	39.70	91.80	60.30	0.00	0.00	0.00	0.00
16	0.00	0.00	17.78	82.05	82.22	1.49	0.00	0.00	0.00
17	0.00	0.00	9.58	75.56	90.42	1.15	0.00	0.00	0.00
18	0.00	0.00	1.32	36.39	98.68	10.88	0.00	0.00	0.00
19	0.00	0.00	3.92	58.41	96.08	4.93	0.00	0.00	0.00
20	0.00	0.00	13.81	86.73	86.19	1.81	0.00	0.00	0.00
21	0.00	0.00	29.93	89.31	70.07	0.31	0.00	0.00	0.00
22	0.00	0.00	44.57	92.12	55.43	0.98	0.00	0.00	0.00
23	0.00	0.00	40.43	97.01	59.57	0.00	0.00	0.00	0.00
24	0.00	0.07	45.12	92.47	54.88	0.62	0.00	0.00	0.00
25	0.00	0.00	20.83	85.24	79.17	1.35	0.00	0.00	0.00
26	0.00	0.17	16.77	69.20	82.99	2.67	0.24	0.00	0.00
27	0.00	0.00	12.74	73.99	87.26	4.83	0.00	0.00	0.00
28	0.00	0.00	5.70	48.00	94.30	11.01	0.00	0.00	0.00
29	0.00	0.00	10.14	51.96	89.86	5.62	0.00	0.00	0.00
30	0.00	0.00	27.51	80.20	72.49	2.29	0.00	0.00	0.00
31	0.00	0.00	12.89	65.20	87.11	6.95	0.00	0.00	0.00
Max	0.00	0.17	45.12	97.01	99.44	17.99	0.24	0.00	0.00
Min	0.00	0.00	0.56	27.64	54.88	0.00	0.00	0.00	0.00
Average	0.00	0.01	17.84	69.28	82.16	5.82	0.01	0.00	0.00

Frequency (Hz)				Average Frequency	Frequency Variation Index
Maximum		Minimum			
Freq	Time	Freq	Time		
50.13	19.58	48.51	12.35	49.10	8.96
50.08	05.55	48.52	14.39	49.06	9.53
50.26	19.18	48.54	12.42	49.28	6.08
50.37	19.02	48.54	15.22	49.45	4.38
50.35	00.04	48.51	04.49	49.35	5.93
50.34	19.47	48.61	09.17	49.59	2.90
50.44	07.50	48.55	21.08	49.50	4.01
50.35	19.31	48.88	0.00	49.72	1.64
50.43	07.30	48.53	21.18	49.54	3.64
50.25	6.56	48.55	13.13	49.34	5.50
50.46	18.30	48.70	00.08	49.59	3.15
50.36	4.12	48.83	20.23	49.60	2.82
50.18	22.52	48.61	14.16	49.32	5.22
50.28	18.05	48.54	20.24	49.32	5.47
49.94	05.58	48.54	20.21	49.10	8.91
50.26	10.02	48.54	06.10	49.27	6.15
50.30	19.30	48.70	12.06	49.34	4.97
50.42	05.07	48.78	23.08	49.60	2.48
50.34	19.04	48.56	22.05	49.49	3.38
50.18	19.33	48.54	19.14	49.26	6.07
50.10	19.18	48.56	6.31	49.16	7.86
50.40	18.01	48.51	19.59	49.08	9.42
49.72	00.42	48.53	21.25	49.06	9.37
50.47	18.05	48.50	19.40	49.07	9.58
50.33	07.51	48.54	05.35	49.22	6.77
50.83	13.01	48.25	12.40	49.34	5.50
50.45	18.01	48.58	5.16	49.33	5.48
50.48	18.06	48.56	21.10	49.54	3.35
50.44	18.06	48.51	19.52	49.47	4.06
50.39	19.01	48.56	3.18	49.24	6.98
50.34	18.26	48.55	23.15	49.41	4.87
50.83		48.88		49.72	9.58
49.72		48.25		49.06	1.64
50.31		48.57		49.35	5.60

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	390	18.06	367	14.23	396	18.05	378	23.13	198	07.14	185	14.46	397	08.53	370	07.31
02	398	19.34	371	00.06	401	19.29	382	00.02	198	06.01	185	13.51	401	19.31	378	06.29
03	402	05.34	369	17.25	403	19.31	386	17.24	200	05.35	184	15.18	401	05.35	383	23.19
04	405	19.04	371	23.36	402	19.06	381	23.25	202	9.05	190	23.20	406	5.59	378	23.28
05	406	18.14	373	23.22	402	05.59	378	23.17	202	05.56	188	11.21	409	18.06	380	23.22
06	406	05.57	372	14.54	401	05.56	380	23.42	207	05.56	187	14.52	406	10.09	375	13.25
07	412	08.02	377	00.19	407	05.54	378	14.23	208	07.39	189	14.20	405	08.08	375	03.20
08	412	05.59	373	16.05	412	05.56	381	14.47	206	05.56	186	16.12	405	06.00	374	13.54
09	404	07.32	367	14.45	401	19.31	375	14.44	206	07.37	186	14.44	406	07.35	383	14.47
10	409	5.43	376	00.47	407	08.04	378	00.46	205	05.41	189	12.08	410	05.59	385	13.07
11	410	05.09	378	23.36	405	05.09	382	00.06	205	08.16	192	00.00	405	19.05	383	03.15
12	410	04.10	375	23.04	407	04.26	378	14.55	204	05.10	185	15.41	401	03.56	380	23.07
13	393	07.24	366	14.19	396	18.07	376	14.14	198	07.24	180	16.47	397	18.06	378	03.14
14	400	18.04	373	15.11	400	18.04	379	14.18	200	05.49	183	15.36	404	05.45	385	23.05
15	400	07.55	376	15.16	403	07.59	379	15.16	199	05.48	181	15.17	404	05.53	385	00.33
16	400	05.07	371	11.29	401	19.31	380	12.11	201	05.43	183	15.56	406	09.16	385	06.37
17	406	19.30	374	11.06	408	19.30	379	11.06	201	5.59	186	11.35	405	19.29	385	23.58
18	407	18.07	379	01.21	407	18.08	380	01.25	204	18.30	192	23.21	405	18.30	379	00.22
19	402	18.05	379	23.16	405	19.03	382	23.51	201	09.16	191	14.46	407	10.07	385	23.21
20	406	19.20	377	00.21	409	19.19	381	00.19	200	05.37	186	14.57	405	19.23	384	00.20
21	407	5.46	384	23.11	408	19.18	383	12.23	202	5.51	189	14.41	403	5.40	389	23.06
22	407	05.57	369	12.15	401	05.58	372	15.24	203	05.55	186	15.23	408	18.02	386	00.35
23	401	05.33	372	14.29	399	05.29	373	13.50	202	07.13	186	16.18	407	18.04	389	07.02
24	403	7.48	378	23.24	403	19.17	376	17.21	205	7.48	190	16.37	412	18.05	389	7.06
25	407	07.51	377	23.13	403	07.55	379	22.43	206	07.55	192	23.13	407	08.40	382	23.20
26	416	13.00	369	11.50	431	12.39	231	12.37	203	12.59	186	11.50	410	12.59	376	06.34
27	403	8.41	374	14.38	406	18.03	378	14.56	205	3.39	185	14.34	403	18.05	384	16.42
28	402	18.10	371	14.48	406	18.28	380	17.15	202	7.46	188	14.53	400	18.10	379	14.40
29	403	21.02	373	12.03	406	21.01	379	10.56	202	5.00	190	12.03	400	21.00	380	11.23
30	411	3.58	379	10.22	406	19.03	378	10.22	209	3.59	190	14.49	407	19.04	389	17.09
31	413	19.04	383	10.37	406	19.05	378	9.31	205	6.05	194	12.03	408	18.02	390	8.24
Max	416		384		431		386		209		194		412		390	
Min	390		366		396		231		198		180		397		370	

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	23821	25783	1962	22739	24497	1758	508.78
02	23088	25309	2221	22304	24436	2132	504.42
03	23370	24705	1335	22305	23640	1335	506.01
04	23417	24780	1363	22651	24014	1363	505.89
05	22668	24296	1628	22700	23852	1152	507.44
06	23798	25144	1346	21844	23420	1576	506.45
07	23432	24860	1428	22563	23460	897	499.13
08	23654	25411	1757	22453	23344	891	508.03
09	23593	24974	1381	22136	22926	790	503.01
10	23832	25496	1664	22492	24002	1510	509.79
11	23113	24732	1619	22704	23950	1246	510.76
12	24045	25705	1660	22115	22915	800	510.43
13	23931	25697	1766	23171	25096	1925	519.32
14	23654	25444	1790	22498	23925	1427	508.91
15	23190	25677	2487	22735	24723	1988	504.21
16	24125	26834	2709	22606	24552	1946	508.51
17	23217	25026	1809	22380	24562	2182	505.86
18	23115	24679	1564	22939	24558	1619	503.36
19	23555	25070	1515	22749	23879	1130	506.38
20	23447	25388	1941	22381	24479	2098	495.39
21	22585	24683	2098	22043	24805	2762	494.55
22	22667	24765	2098	22111	24873	2762	491.94
23	23257	25778	2521	21933	25127	3194	492.60
24	23581	25586	2005	21895	24635	2740	500.85
25	24067	26003	1936	22355	24935	2580	504.57
26	22842	25631	2789	22433	24297	1864	495.09
27	23468	26034	2566	21678	24244	2566	506.22
28	23435	25923	2488	22958	25524	2566	515.39
29	22988	26386	3398	23219	24686	1467	512.28
30	22428	26121	3693	21216	23257	2041	485.85
	22870	25832	2962	21461	24331	2870	492.29
Maximum	24125	26834	3693	23219	25524	3194	519.32
Minimum	22428	24296	1335	21216	22915	790	485.85
Average	23363	25411	2048	22380	24224	1844	503.99

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

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

State	Punjab		Haryana		Rajasthan		Delhi		Uttar Pradesh	
Date	Peak	Off Peak	Peak	Off Peak	Peak	Off Peak	Peak	Off Peak	Peak	Off Peak
01	4978	4972	3096	3111	3319	3290	3252	2941	4894	5728
02	4849	4804	3098	2954	3110	3193	3312	2977	4994	5353
03	4848	4907	3100	3230	3441	3257	3092	3005	4893	5331
04	5214	4907	3191	3230	2957	3257	3162	3005	4944	5331
05	4673	5081	2951	3344	3033	2833	3242	2889	4518	5589
06	5278	4820	3176	2914	3042	2911	3196	2784	4754	5590
07	5301	5215	3161	3279	3063	2883	3222	2746	4681	5482
08	5176	5385	3296	3279	3144	3035	3278	2866	4610	4976
09	4887	4853	3313	3244	3180	3134	3231	2830	4992	5756
10	4950	4978	3334	3353	3362	3054	3165	2813	5018	5319
11	4815	5332	3352	3153	3286	3202	2961	2847	4777	5455
12	5149	4877	3306	3084	3356	3456	3283	2829	5014	5026
13	4994	5228	3305	3188	3452	3526	3316	2918	4786	5182
14	4565	4640	3112	3357	3415	3547	3284	2961	4873	5360
15	4839	5105	3188	3312	3278	3315	3323	2956	4730	5236
16	4879	5041	3316	3100	3377	3569	3346	2778	4958	5418
17	4937	5088	3159	3283	3205	3231	3150	2864	4961	5111
18	4956	5268	3216	3243	3007	3181	3018	2817	4638	5895
19	4932	5495	3351	3147	3149	2877	3136	2764	4864	5956
20	4750	5170	3187	3190	3353	2932	3268	2812	4723	5280
21	5013	4991	2960	3106	3207	3376	3211	2874	4881	4921
22	4735	5064	3036	3141	2805	3085	3332	2847	4775	5052
23	4586	4942	3040	3228	3193	3078	3412	2914	4915	4833
24	4755	4516	3073	3237	3229	3156	3302	2881	5108	5416
25	4872	5078	3347	3221	3429	3038	3257	2754	5131	5323
26	4998	5272	3213	3250	3179	3320	3283	2812	4264	5358
27	5047	5178	3369	3219	3320	3193	3279	2820	4801	4634
28	4907	5366	3378	3323	3304	3558	3191	2747	4871	5227
29	4661	5259	3328	3273	3062	3509	3343	2762	4708	5130
30	4627	4910	2976	2874	2963	2861	3247	2736	4850	5059
31	4851	4911	3298	2998	2884	3048	3262	2808	4920	5050
Maximum	5301	5495	3378	3357	3452	3569	3412	3005	5131	5956
Minimum	4565	4516	2951	2874	2805	2833	2961	2736	4264	4634
Average	4904	5053	3201	3189	3197	3190	3237	2850	4832	5302

Remarks: Peak - 2000 hrs offpeak - 0300 hrs

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

State	Uttaranchal		Chandigarh		Himachal Pradesh		Jammu & Kashmir	
Date	Peak	Off Peak	Peak	Off Peak	Peak	Off Peak	Peak	Off Peak
01	739	502	193	158	506	375	832	659
02	673	490	195	164	493	407	927	706
03	704	554	171	165	489	409	1172	789
04	754	554	166	165	459	409	832	698
05	714	483	203	155	536	393	1092	659
06	752	511	203	166	504	411	1135	742
07	600	432	186	170	494	406	1024	492
08	696	465	199	161	514	393	217	659
09	590	380	171	100	474	327	964	373
10	730	474	185	126	498	414	876	569
11	660	477	166	144	425	405	1045	661
12	753	454	183	145	447	357	1037	845
13	736	496	183	142	499	352	950	738
14	710	476	197	145	498	342	1166	326
15	708	468	184	159	511	412	1066	636
16	685	460	180	147	480	364	1041	792
17	736	534	187	140	444	405	880	844
18	600	437	171	150	502	395	1072	687
19	760	446	179	152	459	398	890	797
20	771	510	181	143	496	361	1010	687
21	655	512	198	148	392	352	1009	699
22	705	581	200	150	469	376	985	670
23	732	549	197	155	483	382	937	666
24	757	552	87	150	493	371	966	720
25	783	490	170	148	503	370	1031	724
26	755	495	180	142	518	393	1015	656
27	738	521	192	143	540	393	958	612
28	649	479	129	146	509	367	954	679
29	991	463	186	145	521	369	853	735
30	757	462	186	140	539	392	1014	664
	589	501	180	148	524	411	963	605
Maximum	991	581	203	170	540	414	1172	845
Minimum	589	380	87	100	392	327	217	326
Average	716	491	180	149	491	384	965	671

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	108.169	69.722	77.446	72.979	119.481	13.074	4.275	9.137	18.699	1.681	494.663
02	109.876	68.036	75.928	73.860	114.839	13.283	4.420	8.975	18.286	1.706	489.210
03	108.422	70.530	79.530	72.573	112.536	13.734	4.199	8.624	18.278	1.695	490.120
04	110.503	70.829	71.603	68.365	116.999	13.373	3.684	8.518	18.231	1.794	483.899
05	113.018	71.271	71.465	70.352	116.500	13.456	4.223	8.427	18.443	1.669	488.825
06	115.188	71.199	69.339	70.443	117.361	12.859	4.430	8.491	18.662	1.642	489.615
07	117.742	73.155	69.934	69.783	114.523	11.823	4.221	8.432	17.324	1.783	488.721
08	117.650	73.789	73.873	71.286	113.566	12.112	4.241	8.400	17.139	1.602	493.657
09	109.088	72.988	73.877	70.845	120.304	11.598	3.466	7.439	15.124	1.821	486.550
10	112.739	72.406	75.518	70.035	116.783	12.583	3.785	8.639	18.629	1.689	492.807
11	117.701	72.654	79.404	66.868	118.696	12.293	3.495	8.853	17.489	1.751	499.203
12	114.710	70.904	81.412	71.370	114.729	12.575	3.971	8.820	16.500	1.712	496.703
13	115.621	72.179	81.305	72.371	116.504	12.644	4.051	8.958	17.936	1.741	503.310
14	109.239	72.659	82.090	72.518	115.946	12.457	4.167	8.192	15.485	1.702	494.455
15	112.507	71.171	80.353	74.145	108.040	12.690	4.194	8.822	18.735	1.650	492.307
16	111.404	70.649	82.093	72.360	116.250	12.705	3.955	8.793	18.398	1.634	498.241
17	113.355	73.439	76.178	69.996	116.117	13.085	3.911	8.548	18.768	1.484	494.882
18	111.992	73.665	74.022	66.650	120.968	12.460	3.614	8.611	17.762	1.682	491.426
19	115.659	71.628	73.146	68.696	120.434	12.888	4.035	8.707	18.818	1.596	495.608
20	112.300	70.375	74.729	71.130	108.209	12.920	4.058	8.985	18.878	1.581	483.165
21	109.385	68.539	73.624	71.181	119.092	12.356	4.232	8.848	19.304	1.556	488.117
22	110.393	70.389	72.585	71.489	112.944	13.326	4.311	8.768	18.927	1.529	484.662
23	107.733	68.772	74.521	72.901	112.381	13.099	4.409	9.225	19.393	1.593	484.027
24	105.413	69.541	75.209	72.224	116.929	13.364	3.945	9.380	19.275	1.553	486.834
25	110.721	72.514	77.706	69.206	119.500	13.498	3.552	8.855	18.689	1.425	495.666
26	113.087	72.463	74.191	69.883	108.570	12.954	4.058	8.638	18.461	1.287	483.593
27	115.618	72.671	76.959	71.235	114.571	13.105	4.107	8.350	18.454	1.648	496.717
28	116.505	76.566	80.225	70.417	117.514	12.275	3.690	8.290	18.318	1.706	505.506
29	114.108	75.558	78.211	70.886	116.572	12.698	3.975	8.069	17.344	1.629	499.050
30	108.310	67.102	69.650	70.802	111.958	13.275	3.946	8.054	17.253	1.754	472.104
31	111.720	71.189	68.965	70.114	115.508	12.926	3.827	8.136	18.175	1.660	482.221
Maximum	117.742	76.566	82.093	74.145	120.968	13.734	4.430	9.380	19.393	1.821	505.506
Minimum	105.413	67.102	68.965	66.650	108.040	11.598	3.466	7.439	15.124	1.287	472.104
Average	112.254	71.566	75.648	69.680	115.623	12.822	4.014	8.612	18.102	1.644	489.970
Month Total	3479.876	2218.554	2345.091	2196.966	3584.325	397.488	124.447	266.986	561.177	50.955	15225.864

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-Jul-2004	49022	50670	40162	45164	32148	34882	46987	44260	54191	56958	4272	2034
2-Jul-2004	49313	50910	40374	44029	32713	33900	47273	45729	54454	60547	4213	2642
3-Jul-2004	49658	52408	41527	47661	33318	36674	48137	43496	54720	60133	4304	2315
4-Jul-2004	48059	53910	39904	45509	31754	32169	47526	38439	52795	63091	3920	2134
5-Jul-2004	48144	54083	40518	45227	30756	27870	45578	38142	51763	62607	3872	1197
6-Jul-2004	48399	57271	39460	43951	30320	28971	45194	38789	51860	52949	3869	-88
7-Jul-2004	50468	59358	43033	46710	32894	30900	49082	39432	54852	62509	2813	2514
8-Jul-2004	51788	60034	41392	48497	32243	32617	49397	39000	55643	56421	2612	2563
9-Jul-2004	48622	52622	40451	47590	31702	35474	45539	39030	54425	58025	2691	1312
10-Jul-2004	51137	53201	40888	45458	31615	36042	45685	38540	54753	56643	2804	2330
11-Jul-2004	51697	57746	40621	44459	32174	39744	49078	36468	54904	54278	2491	2818
12-Jul-2004	51441	56542	41317	44993	32773	39453	49284	39931	55288	57363	2682	2724
13-Jul-2004	52593	55647	41580	47230	33333	39367	50830	41129	56121	56576	3002	3015
14-Jul-2004	51679	50967	41408	46972	33194	40615	47706	41891	55045	57815	2779	2769
15-Jul-2004	50087	50048	41361	45127	32850	39050	48595	42824	54342	57880	3691	3511
16-Jul-2004	51212	50820	42206	43614	33481	39702	49047	41363	55200	63968	3838	3672
17-Jul-2004	53801	52899	40875	46173	33285	37959	48370	38068	54584	61347	3898	3630
18-Jul-2004	54710	57442	42304	45944	33415	34333	48089	34503	53960	66277	3495	2908
19-Jul-2004	54413	55897	41839	44449	33088	32353	47929	37005	53756	66120	3455	3174
20-Jul-2004	52267	52693	41316	44379	32628	35640	47188	38876	55011	60060	3668	3767
21-Jul-2004	50226	50497	40192	42126	31348	35628	46302	39596	53072	57432	3574	3877
22-Jul-2004	50393	50607	40312	42756	31053	34556	44507	39818	51263	52114	4179	4130
23-Jul-2004	50064	46972	39380	43082	30820	33476	42447	40930	51411	54153	4284	3791
24-Jul-2004	46340	44681	38564	41683	30123	34330	41855	40487	51334	55113	4234	3757
25-Jul-2004	49880	50679	40862	45125	31695	35985	44664	37675	52780	60029	4286	3927
26-Jul-2004	51558	51872	42300	44519	31351	31131	45093	41933	50351	58638	4092	3348
27-Jul-2004	52029	53109	43501	45813	31796	33257	45857	42630	51689	59459	4305	3279
28-Jul-2004	51763	54731	44357	50134	33186	34509	46955	39046	53692	62648	4177	2430
29-Jul-2004	51284	51980	43577	48439	33253	33484	46261	38737	52516	61295	3595	1717
30-Jul-2004	51082	50320	36845	42854	26276	25487	38768	38017	44448	52351	2914	819
31-Jul-2004	52737	49881	39835	48097	29111	24784	43814	37423	46270	60491	3063	1814
Total MU	1575.866	1640.497	1272.261	1407.764	989.696	1064.342	1443.037	1233.207	1646.493	1825.290	111.072	83.830
Max. MWH	54710	60034	44357	50134	33481	40615	50830	45729	56121	66277	4305	4130
Min MWH	46340	44681	36845	41683	26276	24784	38768	34503	44448	52114	2491	-88
Avg. MWH	50834	52919	41041	45412	31926	34334	46550	39781	53113	58880	3583	2704

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-Jul-2004	-2712	-3796	15791	15923	3369	4535	456	103	1561	1578
2-Jul-2004	-2757	-3986	15625	15488	3506	4685	456	107	1538	1599
3-Jul-2004	-3368	-4489	15580	15650	3608	4410	456	119	1491	1576
4-Jul-2004	-4542	-4813	15049	15649	3368	3896	456	106	1363	1688
5-Jul-2004	-4488	-5054	15284	16284	3395	4546	456	95	1347	1574
6-Jul-2004	-4546	-4637	15357	16423	3476	4687	456	96	1438	1546
7-Jul-2004	-3824	-4691	15753	15152	3631	4481	456	93	1675	1690
8-Jul-2004	-4549	-4754	15789	14847	3554	4433	456	95	1585	1507
9-Jul-2004	-4674	-5985	14470	12720	3538	3635	456	91	1791	1730
10-Jul-2004	-4801	-4720	15711	16170	3576	3992	456	88	1416	1601
11-Jul-2004	-4389	-4398	15850	14816	3499	3713	456	82	1997	1669
12-Jul-2004	-4131	-4084	15662	13963	3505	4212	456	109	1907	1603
13-Jul-2004	-3901	-4084	15911	15227	3574	4277	456	104	1500	1637
14-Jul-2004	-4331	-5015	15215	12908	3459	4345	456	95	1999	1607
15-Jul-2004	-4039	-4281	14928	15993	3407	4398	456	102	1696	1548
16-Jul-2004	-4065	-4195	15607	15880	3508	4144	456	113	1858	1521
17-Jul-2004	-3706	-4196	15417	16298	3479	4105	456	116	1668	1368
18-Jul-2004	-3877	-4337	15650	15368	3473	3863	456	123	2032	1559
19-Jul-2004	-3607	-4146	15512	16655	3456	4199	456	110	1751	1486
20-Jul-2004	-2999	-2989	15504	16871	3438	4196	456	104	1749	1477
21-Jul-2004	-3285	-2848	14944	17323	3269	4368	456	99	1922	1457
22-Jul-2004	-2145	-1198	14349	17269	3201	4505	456	95	2001	1434
23-Jul-2004	241	-777	14503	17426	3260	4565	456	85	1991	1508
24-Jul-2004	67	-1481	14502	17267	3217	4269	456	80	2009	1473
25-Jul-2004	-1148	-2472	14590	16914	3341	3784	456	89	2005	1336
26-Jul-2004	-2043	-4056	14159	16915	3268	4229	456	93	2014	1194
27-Jul-2004	-2730	-4462	14223	16830	3332	4268	456	94	1997	1554
28-Jul-2004	-2520	-4187	14396	16799	3545	3798	456	89	2029	1617
29-Jul-2004	-4143	-5193	10787	15850	3554	4159	456	104	1915	1525
30-Jul-2004	-4733	-5363	14253	15862	3394	4175	456	75	1866	1679
31-Jul-2004	-5644	-5386	14699	16808	3540	4040	456	16	1972	1644
Total MU	-107.389	-126.073	465.070	493.548	106.740	130.912	14.136	2.970	55.083	47.985
Max. MWH	241	-777	15911	17426	3631	4687	456	123	2032	1730
Min MWH	-5644	-5985	10787	12720	3201	3635	456	16	1347	1194
Avg. MWH	-3464	-4067	15002	15921	3443	4223	456	96	1777	1548

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

Date	Singrauli		Rihand		Dadri(T)		Unchahar-I		Unchahar-II		Dadri GPS	
	Schedule	Actual	Schedule	Actual	Schedule	Actual	Schedule	Actual	Schedule	Actual	Schedule	Actual
1-Jul-2004	39864	40592	21960	22346	18360	18832	9173	9326	9173	9312	11389	11046
2-Jul-2004	39864	40666	21589	21952	18360	18751	9173	9342	9173	9305	11364	10767
3-Jul-2004	39864	40685	21211	21337	18360	18702	9173	9323	9173	9310	10879	10470
4-Jul-2004	39864	40606	21505	21752	18360	18613	9173	9333	9173	9303	10980	10935
5-Jul-2004	39864	40360	21899	22288	18360	18607	9173	9329	9173	9302	10657	10577
6-Jul-2004	39864	40373	21960	22271	18360	18553	9173	9311	9173	9308	10961	10876
7-Jul-2004	39864	40358	21875	22298	18360	18596	8669	8612	9173	9313	12321	12486
8-Jul-2004	39864	40366	21925	22251	18360	18472	9173	9321	9173	9305	14721	14790
9-Jul-2004	39864	40418	17516	17730	14798	14896	9173	9340	9173	9322	14885	15497
10-Jul-2004	39864	40483	17568	17785	13776	13875	9173	9342	9173	9320	16070	16101
11-Jul-2004	39864	40440	17568	17777	16770	16729	9173	9323	9173	9314	15999	15852
12-Jul-2004	39864	40373	17568	17789	16522	18401	9173	9330	9173	9306	15490	15689
13-Jul-2004	39864	40510	19968	20203	18360	18495	9173	9328	9173	9332	16430	16779
14-Jul-2004	39864	40437	19968	20257	16701	18714	9118	9242	9173	9318	15612	15621
15-Jul-2004	39864	40555	19968	20226	18360	18749	9173	9333	9173	9304	13423	13394
16-Jul-2004	39864	40473	20781	21054	18360	18589	9173	9332	9173	9324	15362	15361
17-Jul-2004	39864	40466	21168	21385	18360	18567	9173	9328	9173	9325	13126	13003
18-Jul-2004	39864	40484	20369	20603	18360	18546	6597	6715	9173	9318	16507	16125
19-Jul-2004	39864	40399	19200	19407	18360	18563	6735	6864	9173	9331	16341	16140
20-Jul-2004	39864	40649	19200	19392	18360	18666	9173	9335	9173	9339	16625	16520
21-Jul-2004	39864	40618	18150	18395	18360	18545	9173	9325	5331	5433	16461	16431
22-Jul-2004	39864	40698	17520	17837	18360	18542	9173	9312	4532	4600	17045	16894
23-Jul-2004	39864	40629	19045	19309	18360	18542	9173	9320	4560	4639	16834	16971
24-Jul-2004	39864	40749	19920	20155	18360	18526	9173	9312	4584	4661	17177	16989
25-Jul-2004	39864	40694	20540	20801	18360	18551	9173	9326	4608	4683	17160	16977
26-Jul-2004	35912	35333	17520	17458	18360	18553	8476	8110	4546	4610	17160	17042
27-Jul-2004	37371	37947	17520	17829	18360	18550	9173	9322	4608	4675	17138	16987
28-Jul-2004	39864	40537	17520	17849	18360	18553	9173	9301	4608	4684	16809	16649
29-Jul-2004	37950	38598	17475	17787	18360	18549	8690	8725	4608	4685	16641	16199
30-Jul-2004	28668	29006	19863	20091	18360	18552	9173	9318	4608	4684	15738	15925
31-Jul-2004	28800	29118	21120	21394	18360	18552	9173	9332	4608	4684	15543	16423
Total MU	1205.165	1223.620	610.959	619.008	555.927	565.931	277.610	281.412	234.661	238.349	462.848	461.516
Max. MWH	39864	40749	21960	22346	18360	18832	9173	9342	9173	9339	17177	17042
Min MWH	28668	29006	17475	17458	13776	13875	6597	6715	4532	4600	10657	10470
Avg. MWH	38876	39472	19708	19968	17933	18256	8955	9078	7570	7689	14931	14888

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

Date	Anta GPS		Auraiya GPS		NAPS		RAPS-B		Bairasiul		Salal	
	Schedule	Actual	Schedule	Actual	Schedule	Actual	Schedule	Actual	Schedule	Actual	Schedule	Actual
1-Jul-2004	8677	8716	13910	13748	3662	3312	8400	7836	2127	2148	15985	16124
2-Jul-2004	8745	8774	13788	13786	3648	3455	8400	7826	2217	2238	15956	16112
3-Jul-2004	8770	8738	13939	13946	3576	3503	8400	7862	1977	1996	15912	16058
4-Jul-2004	8869	8742	10905	10596	3648	3542	8280	7941	2157	2177	14991	15132
5-Jul-2004	8513	8385	11114	11083	3672	3535	8400	7906	2202	2223	15892	16016
6-Jul-2004	8637	8572	13721	13482	3696	3574	7968	7954	2262	2283	15475	15617
7-Jul-2004	5976	6030	13184	13529	3696	3572	7944	7857	2037	2056	15898	16046
8-Jul-2004	5868	5944	13353	13088	3696	3589	7992	7910	2037	2055	15948	16090
9-Jul-2004	5908	5900	12572	12820	3720	3572	7503	7489	3228	3259	12111	12193
10-Jul-2004	5908	5871	13954	13809	3744	3591	3984	3509	2262	2284	15220	15368
11-Jul-2004	5858	5847	13555	13347	3696	3609	4200	3806	1887	1906	15905	16042
12-Jul-2004	5865	5846	13573	13207	3624	3595	7605	7415	2037	2057	15834	15983
13-Jul-2004	5796	5786	13817	13984	3648	3544	7920	7815	1737	1753	15673	15824
14-Jul-2004	5745	5756	13627	13807	3648	3556	7920	7792	2262	2284	14483	14613
15-Jul-2004	5705	5675	13101	13209	3624	3541	7824	7729	1827	1845	14152	14288
16-Jul-2004	5709	5731	12587	12573	3624	3521	7824	7721	1947	1965	15984	16133
17-Jul-2004	5954	5970	12091	12049	3624	3587	7824	7812	1993	2000	15937	16087
18-Jul-2004	5915	5955	13053	12307	3624	3581	7824	7833	1828	1816	16014	16152
19-Jul-2004	5831	5881	13395	13025	3624	3568	7848	7788	1677	1693	15990	16144
20-Jul-2004	5769	5795	13841	13881	3720	3550	7824	7748	1617	1633	16017	16167
21-Jul-2004	5811	5780	13865	13924	3696	3528	7848	7736	1437	1451	16015	16163
22-Jul-2004	5829	5767	13844	13961	497	309	7848	7744	1497	1512	15984	16141
23-Jul-2004	5814	5741	13974	14291	0	-252	7848	7742	1647	1653	15996	16152
24-Jul-2004	5796	5686	14360	14256	1398	1057	7776	7719	1437	1450	15980	16131
25-Jul-2004	5800	5752	14393	14333	3445	3273	7776	7736	1497	1511	16004	16157
26-Jul-2004	5853	5852	14378	14234	3720	3368	7728	7794	1589	1604	16000	16151
27-Jul-2004	5887	5863	14323	14256	3720	3504	7752	7827	2320	2342	15718	15873
28-Jul-2004	7911	7745	14423	13969	3600	3561	7800	7823	1842	1859	15982	16131
29-Jul-2004	8584	8584	14127	13888	3648	3551	7824	7750	2487	2511	4939	4989
30-Jul-2004	8745	8704	14209	14173	3672	3557	7896	7675	3198	3229	15291	15436
31-Jul-2004	8902	8778	14066	14168	3600	3539	7896	7733	2442	2466	16193	16339
Total MU	208.950	208.166	419.042	416.729	104.210	99.892	237.876	232.828	62.711	63.259	473.479	477.852
Max. MWH	8902	8778	14423	14333	3744	3609	8400	7954	3228	3259	16193	16339
Min MWH	5705	5675	10905	10596	0	-252	3984	3509	1437	1450	4939	4989
Avg. MWH	6740	6715	13517	13443	3362	3222	7673	7511	2023	2041	15274	15415

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

Date	Tanakpur		Chamera		Uri		Bhakra Complex		Dehar		Pong	
	Schedule	Actual	Schedule	Actual	Schedule	Actual	Schedule	Actual	Schedule	Actual	Schedule	Actual
1-Jul-2004	1710	1754	6008	7101	9815	9842	13570	13454	14499	14301	1739	1716
2-Jul-2004	1945	1977	8544	9395	9275	9366	13570	13363	14499	14635	1739	1752
3-Jul-2004	1991	2042	11837	11930	8965	8839	14092	13682	14405	14373	1763	1800
4-Jul-2004	2232	2249	6052	6105	8608	8657	14165	13514	14405	14506	1763	1721
5-Jul-2004	2155	2218	7203	7268	8094	8173	14165	13770	14405	14289	1763	1720
6-Jul-2004	1941	2044	9434	9502	8029	8099	14165	13271	14418	14419	1763	1734
7-Jul-2004	2104	2153	12015	12090	7928	8025	14165	13613	14449	14492	1763	1697
8-Jul-2004	1915	1977	10057	10141	7644	7595	14157	13612	14449	14355	1763	1773
9-Jul-2004	2004	2034	11259	11361	8105	8177	14199	13721	14471	14513	1808	1767
10-Jul-2004	2142	2181	12816	12942	8397	8500	14135	13741	14501	14763	1777	1719
11-Jul-2004	2231	2249	9701	9776	8656	8721	14543	14085	14501	14715	1777	1851
12-Jul-2004	2231	2248	8811	8898	8538	8622	14552	14294	14501	14580	1777	1849
13-Jul-2004	2256	2272	8900	8983	8869	8952	14851	14433	14715	14483	1858	1897
14-Jul-2004	2249	2269	6052	6108	8558	8623	14703	14201	14723	14520	1858	1843
15-Jul-2004	2231	2242	6586	6639	8707	8782	14730	14462	14723	14365	1858	1886
16-Jul-2004	2205	2213	8010	8050	8370	8448	14795	14565	14619	14426	1858	1873
17-Jul-2004	2231	2246	8099	8173	8287	8377	14795	14547	14596	14493	1884	1899
18-Jul-2004	1927	1948	6586	6687	8150	8220	14966	14584	14619	14465	1884	1822
19-Jul-2004	2144	2159	6942	7072	7820	7904	14979	14557	14619	14391	1884	1863
20-Jul-2004	2242	2260	6586	6644	7315	7385	15156	14864	13483	13746	1911	1931
21-Jul-2004	2139	2160	5340	5387	7106	7183	14628	14257	12115	13037	1897	1855
22-Jul-2004	2256	2277	5340	5383	6553	6615	15676	15300	14036	13886	1712	1682
23-Jul-2004	2256	2284	5340	5387	6351	6413	15588	15147	13093	13118	1725	1699
24-Jul-2004	2256	2275	4094	4122	5937	5993	15427	15193	13093	13033	1699	1681
25-Jul-2004	2205	2238	5029	5069	5607	5662	15834	15464	14500	14401	1699	1716
26-Jul-2004	2210	2235	5118	5166	5173	5229	15834	15529	14500	14318	1699	1797
27-Jul-2004	2119	2157	7298	7361	4950	5001	15896	15628	14500	14118	1710	1820
28-Jul-2004	1214	1256	11481	11522	4406	4455	16204	15876	14520	14328	1843	1940
29-Jul-2004	2180	2186	12816	12924	4078	4119	16210	15631	15251	14712	1951	1932
30-Jul-2004	2231	2249	12816	12948	4033	4104	16336	15877	14736	14561	1951	1994
31-Jul-2004	2161	2199	12816	12918	3979	4017	16268	15757	14803	14583	1890	1933
Total MU	65.313	66.251	258.986	263.052	226.303	228.098	462.354	449.992	444.747	442.925	55.966	56.162
Max. MWH	2256	2284	12816	12948	9815	9842	16336	15877	15251	14763	1951	1994
Min MWH	1214	1256	4094	4122	3979	4017	13570	13271	12115	13033	1699	1681
Avg. MWH	2107	2137	8354	8486	7300	7358	14915	14516	14347	14288	1805	1812

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

Date	Nathpa-Jhakri HEP		Chamera stage-II	
	Schedule	Actual	Schedule	Actual
1-Jul-2004	31200	31440	4824	4857
2-Jul-2004	31200	31453	4824	4858
3-Jul-2004	31200	31466	4848	4878
4-Jul-2004	31200	31382	4518	4551
5-Jul-2004	23075	23114	4882	4920
6-Jul-2004	15850	15978	6444	6473
7-Jul-2004	31200	31447	6731	6792
8-Jul-2004	31200	31425	6930	6980
9-Jul-2004	31200	31413	4848	4879
10-Jul-2004	30550	30789	4892	4928
11-Jul-2004	33325	33558	6932	6983
12-Jul-2004	37200	37524	6783	6840
13-Jul-2004	36950	37260	6077	6125
14-Jul-2004	37200	37497	6748	6780
15-Jul-2004	37200	37479	6623	6677
16-Jul-2004	37200	37492	6534	6592
17-Jul-2004	37200	37503	6435	6493
18-Jul-2004	37200	37417	7128	7190
19-Jul-2004	37200	37481	5774	5826
20-Jul-2004	36625	36946	4598	4642
21-Jul-2004	36988	37314	4458	4493
22-Jul-2004	35575	35857	4563	4600
23-Jul-2004	34725	35024	4637	4654
24-Jul-2004	30951	31204	4349	4386
25-Jul-2004	33488	33792	6024	6073
26-Jul-2004	36688	37002	6907	6967
27-Jul-2004	37253	37581	5227	5274
28-Jul-2004	37260	37598	4956	4984
29-Jul-2004	37200	37399	4326	4216
30-Jul-2004	950	925	7128	7194
31-Jul-2004	14716	14783	7128	7194
Total MU	990.969	998.543	177.076	178.299
Max. MWH	37260	37598	7128	7194
Min MWH	950	925	4326	4216
Avg. MWH	31967	32211	5712	5752

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	42.375	14.367	14.890	0.869	39.002	0.000	49.359	5.822	10.447	13.191	13.064	2.80	206.19
02	42.964	15.266	14.445	0.954	38.259	0.000	42.602	5.825	10.489	12.934	13.092	2.83	199.66
03	41.005	14.306	13.522	1.023	38.679	0.000	41.397	5.842	10.829	13.903	13.245	2.66	196.41
04	40.300	15.820	14.330	1.180	33.130	0.000	42.230	4.270	10.900	14.530	13.466	2.61	192.76
05	42.474	15.803	15.131	1.189	37.484	0.000	45.049	2.643	11.987	17.399	13.617	2.18	204.96
06	41.191	16.010	16.124	1.267	38.723	0.126	54.912	2.610	12.449	17.190	13.261	2.26	216.13
07	42.151	15.453	16.090	1.097	38.983	0.218	44.034	2.302	9.215	16.241	13.256	2.19	201.23
08	41.645	15.171	14.770	1.011	39.489	0.015	46.414	2.558	9.416	17.158	13.287	2.32	203.25
09	40.070	15.588	15.727	0.897	38.497	0.000	50.766	3.675	10.196	16.544	13.560	2.43	207.95
10	42.826	16.115	16.592	1.129	39.266	0.010	49.452	4.606	10.014	16.482	13.494	2.48	212.47
11	43.135	16.317	16.227	1.049	39.451	0.000	50.636	4.524	9.484	15.326	13.385	2.70	212.23
12	43.194	14.627	16.413	0.964	39.670	0.000	45.368	3.643	9.733	16.133	13.034	2.56	205.34
13	42.978	16.141	14.858	0.953	39.537	0.000	47.604	4.700	9.565	16.282	13.174	2.74	208.53
14	42.852	13.571	15.797	0.935	39.302	0.000	48.631	4.975	9.484	15.871	13.340	2.60	207.36
15	42.927	16.086	15.856	0.973	39.391	0.173	39.241	4.945	8.790	16.329	13.235	2.77	200.72
16	43.026	14.258	16.455	1.077	42.165	0.000	38.553	4.291	9.058	16.289	13.119	2.54	200.83
17	43.097	14.109	16.459	1.276	37.988	0.000	41.034	4.260	9.375	16.496	12.873	2.50	199.46
18	38.914	13.782	16.343	1.282	37.965	0.772	41.713	3.848	9.695	16.568	13.079	2.42	196.38
19	42.854	13.766	16.421	1.174	38.793	0.000	42.123	4.148	9.379	16.048	12.983	2.19	199.87
20	42.950	13.504	15.506	1.062	36.756	0.000	37.567	5.134	8.926	16.457	12.095	2.03	191.98
21	43.110	13.670	16.370	1.030	36.450	0.000	40.600	5.250	8.660	16.760	11.814	2.00	195.72
22	40.602	14.068	16.144	1.091	35.911	0.035	48.196	5.819	8.478	16.531	10.067	1.68	198.62
23	41.309	13.979	15.279	0.984	38.885	0.040	48.710	6.366	8.720	16.796	10.103	1.99	203.16
24	41.503	13.810	16.451	0.949	38.797	0.000	49.277	6.037	9.214	16.360	10.971	2.03	205.40
25	41.053	13.914	16.135	0.959	39.740	0.000	49.351	3.915	9.412	16.451	11.441	1.79	204.17
26	42.183	14.125	16.648	0.980	41.172	0.000	41.551	2.083	9.412	16.972	12.822	1.56	199.51
27	43.500	14.080	16.150	0.450	41.420	0.000	43.940	2.490	9.660	16.670	12.941	1.64	202.94
28	43.440	14.060	15.790	0.550	43.850	0.000	45.680	2.280	9.860	16.020	12.603	1.53	205.67
29	43.460	14.120	15.760	0.780	42.980	0.000	48.210	2.080	10.570	16.030	13.396	1.51	208.90
30	43.430	14.150	13.680	0.980	43.380	0.200	47.750	4.110	12.020	16.660	13.553	1.41	211.32
31	43.550	14.020	13.650	0.910	41.850	0.500	42.560	5.590	10.860	17.000	13.659	1.38	205.53
Maximum	43.55	16.32	16.65	1.28	43.85	0.77	54.91	6.37	12.45	17.40	13.66	2.83	216.13
Minimum	38.91	13.50	13.52	0.45	33.13	0.00	37.57	2.08	8.48	12.93	10.07	1.38	191.98
Average	42.26	14.65	15.61	1.00	39.26	0.07	45.31	4.21	9.88	16.12	12.81	2.20	203.38
Month Total	1310.07	454.05	484.01	31.03	1216.97	2.09	1404.51	130.64	306.30	499.62	397.03	68.31	6304.63

XI. Performance Of Generating Stations

S.No.	Power Station	Effective Capacity MW	Energy Generated during July, 2004 (Ex Bus MU)	Cummulative from 01.04.2004 (Ex-bus MU)
1	CENTRAL SECTOR			
A	NTPC (Thermal)			
(a)	Badarpur TPS	705.00	464.37	1702.58
(b)	Singrauli STPS	2000.00	1133.52	4602.06
(c)	Rihand STPS	1000.00	566.86	2527.13
(d)	Dadri NCTPS	840.00	557.86	1993.11
(e)	Unchahar-I TPS	420.00	258.05	1034.83
(f)	Unchahar-II TPS	420.00	215.51	942.21
(g)	Tanda TPS	440.00	262.71	957.22
(h)	Anta GPS	419.33	208.97	871.60
(i)	Auraiya GPS	663.36	410.46	1470.71
(j)	Dadri GPS	829.78	459.61	1794.88
(k)	Faridabad GPS	431.57	288.24	1028.18
	Total NTPC	8169.04	4826.17	18924.50
B	NHPC			
(a)	Bairasiul	180.00	63.26	254.74
(b)	Salal	690.00	477.89	1601.59
(c)	Tanakpur HPS	94.20	66.25	160.43
(d)	Chamera HPS	540.00	263.07	918.57
(e)	Uri HPS	480.00	228.08	1140.25
(f)	Chamera2 HPS	300.00	178.32	641.70
	Total NHPC	2284.20	1276.87	4717.28
C	Nathpa-Jhakri	1500.00	998.57	2834.31
D	NPC			
(a)	RAPS -A	300.00	54.66	358.47
(b)	RAPS -B	440.00	232.81	780.01
(c)	NAPS	440.00	99.91	752.06
	Total NPC	1180.00	387.38	1890.55
2	JOINTLY OWNED (BBMB)			
(a)	Bhakra Complex	1490.15	463.63	1635.83
(b)	Dehar	990.00	443.07	1310.61
(c)	Pong	396.00	56.61	299.08
	Total BBMB	2876.15	963.31	3245.52
3	DELHI			
(a)	Indra Prastha	247.50	84.64	268.91
(b)	Rajghat	135.00	75.03	241.50
(c)	Gas Turbines	282.00	131.46	525.46
(d)	Pragati Gas	330.00	210.78	820.16
	Total DELHI	994.50	501.91	1856.03
4	HARYANA			
(a)	WYC	62.40	31.17	89.12
(b)	Faridabad (New)	165.00	53.13	251.03
(c)	Panipat	860.00	479.91	1631.07
(d)	Magnum Diesel(IPP)	25.20	11.16	31.43
	Total Haryana	1112.60	575.37	2002.64

contd/-

5	HP			
(a)	Giri	60.00	7.53	25.61
(b)	Bassi	60.00	31.13	122.94
(c)	Binwa	6.00	2.72	9.60
(d)	Rongtong	15.25	2.25	6.43
	(+Nogli+Micro+Thirot+Sal-2)			
(e)	Andhra	16.95	5.15	15.69
(f)	Bhabha (H)	120.00	90.84	293.19
(g)	Baner (H)	12.00	4.42	14.47
(h)	Gaj (H)	10.50	5.96	16.87
(i)	Gumma	3.00	0.00	1.54
(j)	Ghanvi	22.50	10.41	30.15
(k)	Malana (IPP)	86.00	50.51	125.72
(l)	Baspa (IPP)	300.00	236.64	598.18
	Total HP	712.20	447.56	1260.39
6	J & K			
(a)	Lower Jhelum	105.00	48.80	215.81
(b)	Upper Sindh	127.60	9.59	43.78
(c)	Ganderbal	15.00	2.52	6.09
(d)	Mohra	9.00	0.00	0.00
(e)	Chenani	32.80	9.68	36.22
(f)	Stakna	9.75	0.00	0.00
(g)	Small Hydel	3.54	0.60	2.21
(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	71.19	304.11
7	PUNJAB			
(a)	Jogindernagar/ Shanan	110.00	60.54	235.61
(b)	UBDC	90.00	57.47	138.91
(c)	Mukerian	207.00	63.25	335.41
(d)	Anandpur Sahib (APS)	134.00	74.51	243.59
(e)	Ranjit Sagar HPS	600.00	188.06	424.99
(f)	Small Hydel	4.10	0.21	0.21
(g)	GNDTPS (Bhatinda)	440.00	172.40	568.55
(h)	GGSTPS (Ropar)	1260.00	847.08	2979.87
(i)	Jhalkeri	10.00	0.15	0.85
	Peda & Sugarmill		3.98	7.56
(j)	Lehra Mohabbat TPS	420.00	280.91	889.37
	Total Punjab	3275.10	1748.55	5824.91
8	RAJASTHAN			
(a)	Mahi Bajaj Sagar	140.00	-0.05	48.45
(b)	Rana Pratap Sagar (RPS)	172.00	-0.05	1.50
(c)	Jawahar Sagar (JS)	99.00	2.54	5.94
(d)	Gandhi sagar	115.00		
(d)	ACW	9.00	0.49	3.09
(e)	MMH	14.85	0.12	0.20
(f)	Kota TPS	1045.00	589.83	2213.77
(g)	RAMGARH GT	3.00		
(h)	RAMGARH GT EXT	35.50	17.98	71.59
(i)	Suratgarh TPS	1250.00	617.98	2768.70
(j)	Wind Farm	14.01	67.09	173.28
(k)	Others		0.98	7.23
	Total Rajasthan	2782.36	1296.92	5293.74

contd/-

9	U.P.			
	<u>HYDRO</u>			
(a)	Rihand	300.00	57.00	211.39
(b)	Obra	99.00	25.57	89.62
(c)	Matatilla	30.00	12.51	38.95
(d)	Khara	72.00	34.94	98.40
	Total U.P. (Hydro)	501.00	130.02	438.35
	<u>THERMAL</u>			
(e)	Obra	1442.00	393.26	1491.43
(f)	Panki	242.00	82.74	341.19
(g)	Harduaganj	375.00	49.22	219.17
(h)	Paricha	220.00	80.23	307.11
(i)	Anpara	1630.00	796.48	3309.48
	Total U.P. (Thermal)	3909.00	1401.94	5668.38
	Total U.P.	4410.00	1531.95	6106.73
10	UTTRANCHAL			
(a)	Khatima	41.40	21.24	58.25
(b)	Ramganga	198.00	-0.05	52.58
(c)	Ganga Canal	32.70	12.73	53.96
(d)	Yamuna (I & IV)	114.75	79.11	331.69
(e)	Chibro	240.00	65.68	204.84
(f)	Khodri	120.00	31.32	95.97
(g)	Chilla	144.00	95.29	257.92
(h)	Maneri Bhali	90.00	0.00	0.00
(i)	Sibla+Small hydel	18.20		
	Total Uttranchal	999.05	305.31	1055.21
11	CHANDIGARH			
	Diesel gen set	1.40		
	Total Region	30790.47	14931.08	55315.92

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%

-----Gas power stations in combined cycle-----3.0%

-----Coal fired power stations

IP---12% Faridabad---13.5% Suratgarh---10.0%

Rajghat---11% Panipat---12.0% KTPS---10.0%

UP---12.5% Lehra Mohabat---10.5%

Tanda---12.5% RTP---7.5%

GNDTP---10.5%

XII. DETAILS OF ENERGY EXCHANGES THROUGH BILATERAL AGREEMENTS (INTRA-REGIONAL) DURING JUNE 2004

(ALL FIGS IN MWH)

FROM / TO	PUNJAB	HARYANA	RAJASTHAN	DELHI	UP	UTTRANCHAL	HP	J & K	CHANDIGARH	MALANA
PUNJAB	-	-	-		-	36200****	48390****	20150****	-	-
HARYANA	-	-	-		-	-	4770 (* & ***)	-	-	
RAJASTHAN		-	-		-	-	-	-		
DELHI	-		-		-	-	228940***	-	-	-
UP	-	-	-	-	-	-	-	-	-	-
UTTRANCHAL		-	-	-	-	-	-	-	-	-
HP		-	-		-	-	-	-	-	-
J & K		-	-		-	-	-	-	-	-
CHANDIGARH	-	-	-	-	-	-	-	-	-	-

* Through PTC

** Through NVVN

*** Through Mutual

**** Through Banking

REMARKS : Figures are provisional and indicative only.

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

FROM / TO	GRIDCO	MP	WBPCL	DVC	APTRCO	CSEB	TRIPURA	GOA	ARUNANCHAL
PUNJAB	42794*WR 73500*	-	11010* (39888*+36850***)WR				-	-	
HARYANA	73500* 110251***	-			1800*WR		14380**WR		
RAJASTHAN	-	-					-	-	
DELHI						--			
UTTRANCHAL	-	-		-	-	-	-	-	
J & K	-	-			-	-	-	-	
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

XIV. Inter Regional Exchanges During July 2004 (Sheet 1 of 2)

1 OF 2

Date	With WR Over Vindhyachal HVDC B/B {Export (-)/Import(+)}							With WR Over Auraiya - Malanpur {Export(-)/Import(+)}						
	Peak MW	Off Peak MW	Max Import	Max Export	Energy Import	Energy Export	Net (MU)	Peak MW	Off Peak MW	Max Import	Max Export	Energy Import	Energy Export	Net (MU)
01	150	350	350	0	4.44	0.00	4.44	-24	-22	0	25	0.00	0.72	-0.72
02	250	200	500	0	5.83	0.00	5.83	-25	-20	0	25	0.00	0.66	-0.66
03	150	500	500	0	8.45	0.00	8.45	-26	-22	0	26	0.00	0.61	-0.61
04	300	450	500	0	11.05	0.00	11.05	-26	-22	0	26	0.00	0.60	-0.60
05	200	500	500	0	10.97	0.00	10.97	-26	-22	0	26	0.00	0.62	-0.62
06	126	350	500	0	6.91	0.00	6.91	-28	-25	0	28	0.00	0.64	-0.64
07	126	300	500	0	6.81	0.00	6.81	-25	-23	0	25	0.00	0.69	-0.69
08	91	450	500	0	4.61	0.00	4.61	-21	-23	0	25	0.00	0.72	-0.72
09	50	191	450	0	4.79	0.00	4.79	-23	-21	0	33	0.00	0.71	-0.71
10	141	350	450	0	5.11	0.00	5.11	-23	-24	0	30	0.00	0.71	-0.71
11	-200	200	300	250	2.79	0.18	2.61	-21	-22	0	26	0.00	0.68	-0.68
12	91	50	175	100	1.90	0.08	1.82	-21	-15	0	29	0.00	0.71	-0.71
13	91	91	200	0	2.51	0.00	2.51	0	-24	0	27	0.00	0.29	-0.29
14	91	91	400	0	2.29	0.00	2.29	0	0	0	27	0.00	0.00	0.00
15	91	300	400	0	5.20	0.00	5.20	0	0	0	0	0.00	0.00	0.00
16	141	400	500	0	4.53	0.00	4.53	0	0	0	28	0.00	0.01	-0.01
17	156	450	500	0	6.81	0.00	6.81	-24	-25	0	32	0.00	0.71	-0.71
18	85	312	500	0	6.04	0.00	6.04	-28	-26	0	30	0.00	0.64	-0.64
19	50	450	500	0	7.03	0.01	7.02	-28	-25	0	31	0.00	0.64	-0.64
20	136	224	313	0	4.98	0.00	4.98	-28	0	0	30	0.00	0.60	-0.60
21	150	224	324	0	5.01	0.00	5.01	0	0	0	0	0.00	0.00	0.00
22	50	225	500	0	6.05	0.00	6.05	0	0	0	30	0.00	0.00	0.00
23	50	274	500	0	5.76	0.00	5.76	0	0	0	30	0.00	0.00	0.00
24	100	200	500	0	7.71	0.00	7.71	0	0	0	0	0.00	0.00	0.00
25	80	350	500	0	6.79	0.00	6.79	0	0	0	0	0.00	0.00	0.00
26	100	500	500	0	9.06	0.00	9.06	0	0	0	0	0.00	0.00	0.00
27	81	400	500	0	9.34	0.00	9.34	0	0	0	0	0.00	0.00	0.00
28	80	450	500	0	8.95	0.00	8.95	0	0	0	0	0.00	0.00	0.00
29	150	500	500	0	10.41	0.00	10.41	0	0	0	0	0.00	0.00	0.00
30	50	500	500	0	10.29	0.00	10.29	0	0	0	0	0.00	0.00	0.00
31	130	500	500	0	9.30	0.00	9.30	0	0	0	0	0.00	0.00	0.00
Maximum	300	500	500	250	11.05	0.18	11.05	0	0	0	33	0.00	0.72	0.00
Minimum	-200	50	175	0	1.90	0.00	1.82	-28	-26	0	0	0.00	0.00	-0.72
Average	108	333	447	11	6.51	0.01	6.50	-13	-12	0	19	0.00	0.35	-0.35
Total					197.76	0.27	197.49					0.00	11.00	-11.00

XIV. Inter Regional Exchanges During July2004 (Sheet 2 of 2)

2 of 2

Date	With WR Over Ujjain - Kota {Export(-)/Import(+)}							With ER Over sasaram HVDC B/B {Export(-)/Import(+)}						
	Peak MW	Off Peak MW	Max Import	Max Export	Energy Import	Energy Export	Net	Peak MW	Off Peak MW	Max Import	Max Export	Energy Import	Energy Export	Net
	MW	MW	MW	MW	MU	MU	MU	MW	MW	MW	MW	MU	MU	MU
01	-80	-85	0	90	0.00	1.86	-1.86	450	493	500	0	11.92	0.00	11.92
02	-70	-65	0	73	0.00	1.48	-1.48	500	500	500	0	11.29	0.00	11.29
03	-70	-60	0	75	0.00	1.37	-1.37	420	500	500	0	11.89	0.00	11.89
04	-65	-60	0	75	0.00	1.55	-1.55	500	450	500	0	10.81	0.00	10.81
05	-65	-80	0	80	0.00	1.60	-1.60	500	500	500	0	12.05	0.00	12.05
06	-70	-75	0	75	0.00	1.73	-1.73	414	500	500	0	11.78	0.00	11.78
07	-65	-75	0	95	0.00	1.55	-1.55	414	500	500	0	11.73	0.00	11.73
08	-70	-80	0	95	0.00	1.67	-1.67	414	500	500	0	11.43	0.00	11.43
09	0	-80	0	90	0.00	0.84	-0.84	414	450	500	0	11.14	0.00	11.14
10	0	0	0	0	0.00	0.00	0.00	387	500	500	0	11.23	0.00	11.23
11	0	0	0	0	0.00	0.00	0.00	387	500	500	0	11.22	0.00	11.22
12	-50	0	0	100	0.00	1.08	-1.08	387	387	450	0	10.14	0.00	10.14
13	-85	-80	0	90	0.00	1.78	-1.78	338	500	500	0	10.32	0.00	10.32
14	-110	-80	0	115	0.00	1.19	-1.19	360	450	500	0	10.05	0.00	10.05
15	-40	-60	0	70	0.00	1.80	-1.80	366	500	500	0	11.49	0.00	11.49
16	-70	-70	0	80	0.00	1.67	-1.67	366	500	500	0	11.14	0.00	11.14
17	-40	-80	0	90	0.00	1.41	-1.41	0	500	500	0	9.14	0.00	9.14
18	-105	-90	0	105	0.00	1.92	-1.92	416	500	500	0	11.93	0.00	11.93
19	-90	-100	0	100	0.00	1.73	-1.73	415	500	500	0	11.45	0.00	11.45
20	-100	-80	0	100	0.00	1.82	-1.82	413	400	500	0	10.22	0.00	10.22
21	-80	-70	0	100	0.00	1.80	-1.80	450	450	500	0	11.04	0.00	11.04
22	-80	-100	0	120	0.00	1.93	-1.93	400	400	500	0	10.03	0.00	10.03
23	-100	-90	0	100	0.00	2.00	-2.00	440	400	500	0	10.01	0.00	10.01
24	-70	-100	0	100	0.00	1.84	-1.84	400	400	500	0	11.27	0.00	11.27
25	-100	-80	0	105	0.00	1.78	-1.78	340	500	500	0	11.13	0.00	11.13
26	-105	-80	0	105	0.00	1.78	-1.78	390	500	500	0	11.43	0.00	11.43
27	-93	-69	0	99	0.00	1.81	-1.81	350	500	500	0	11.60	0.00	11.60
28	-99	-81	0	105	0.00	1.83	-1.83	340	500	500	0	11.22	0.00	11.22
29	-101	-85	0	101	0.00	2.06	-2.06	300	500	500	0	11.65	0.00	11.65
30	0	-72	0	90	0.00	1.06	-1.06	450	500	500	0	11.91	0.00	11.91
31	0	-70	0	82	0.00	1.47	-1.47	400	500	500	0	10.86	0.00	10.86
Maximum	0	0	0	120	0.00	2.06	0.00	500	500	500	0	12.05	0.00	12.05
Minimum	-110	-100	0	0	0.00	0.00	-2.06	0	387	450	0	9.14	0.00	9.14
Average	-67	-71	0	87	0.00	1.53	-1.53	391	477	498	0	11.11	0.00	11.11
Total					0.00	47.19	-47.19					343.11	0.00	343.11

XV. Progress Of Installation Of Shunt Capacitors As On 31.07.2004**(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 31.07.2004	Balance not installed during 2004-05	Capacitors installed as on 31.07.2004
DELHI	3135	3021	567	-	156	411	3177
HARYANA	2920	3269	141	500	62	79	3331
PUNJAB	4564	4721	551	500	37	514	4758
RAJASTHAN	2650	2895	189	500	106	83	3001
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	361	2694	20523

XVI. Hydraulic Data For Reservoirs During July 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 JULY 2004 (m)	468.38 1536.67	397.34 1303.60	253.50 831.69	344.64 1130.70	379.77 1245.96
Level on last day of JULY 2003 (m)	495.09 1624.32	401.41 1316.96	254.33 834.40	346.22 1135.88	383.41 1257.90
Live Capacity as on (mhmt) last day of JULY 2004 (maft)	0.15 1.21	0.12 0.97	0.00 0.00	0.02 0.16	0.00 0.00
Live Capacity as on (mhmt) last day of JULY 2003(maft)	0.42 3.37	0.19 1.54	0.04 0.30	0.05 0.37	0.04 0.33
Energy content as on last day of JULY 2004 (MU)	520.00	180.00	20.00	35.00	0.00
Energy content as on last day of JULY 2003 (MU)	1650.00	260.00	65.00	90.00	100.00
Maximum level (m) (ft) (date)	468.39 1536.71 30.07.2004	397.34 1303.60 01.07.2004	253.47 831.59 01.07.2004	344.64 1130.70 31.07.2004	379.77 1245.96 31.07.2004
Minimum level (m) (ft) (date)	446.87 1466.11 13.06.2004	388.77 1275.50 17.06.2004	253.50 831.70 30.06.2004	1130.63 1129.89 30.06.2004	379.07 1243.67 30.06.2004

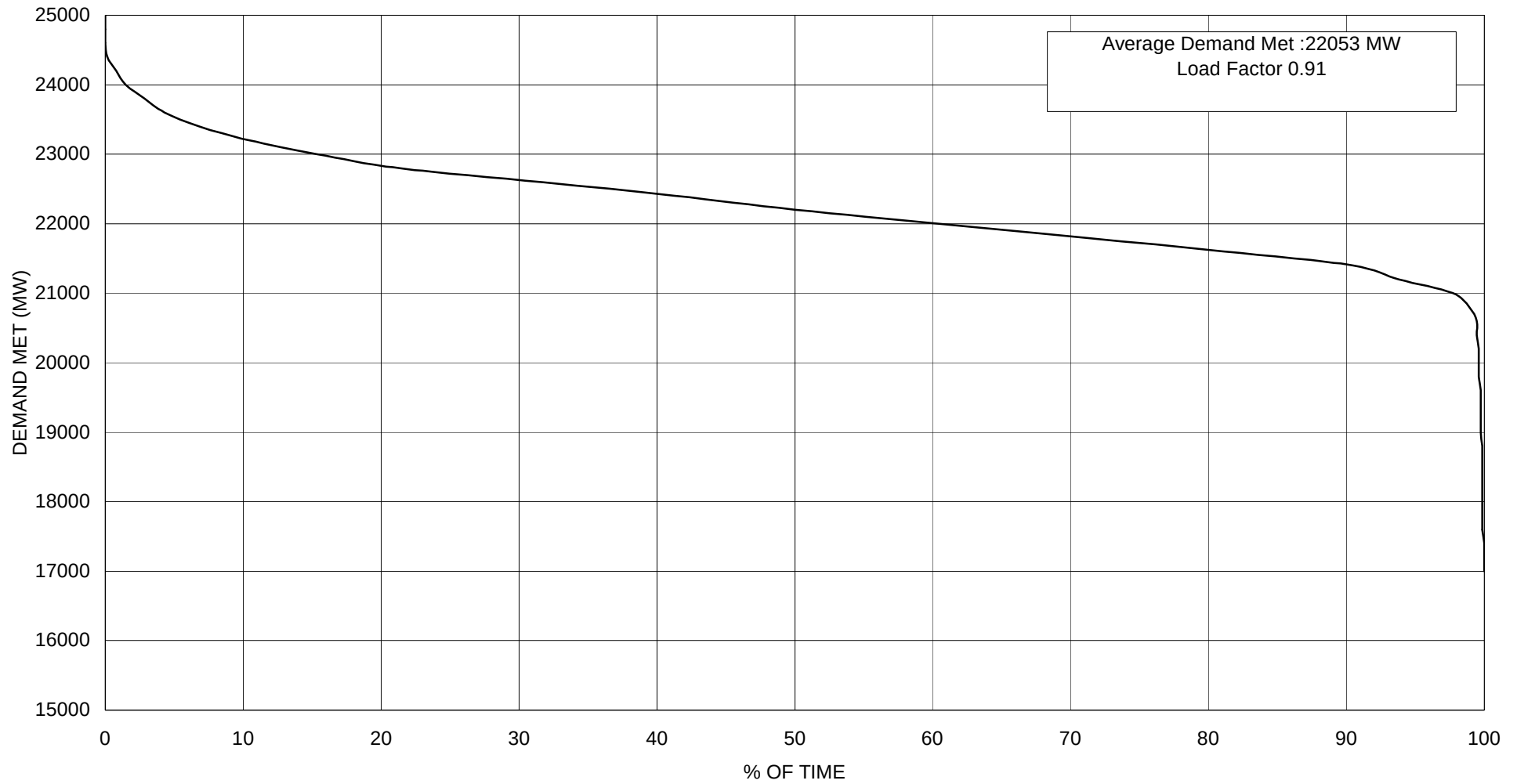
Energy content of Bhakra : Total Energy content at Bhakra, Ganguwal and Kotla power stations

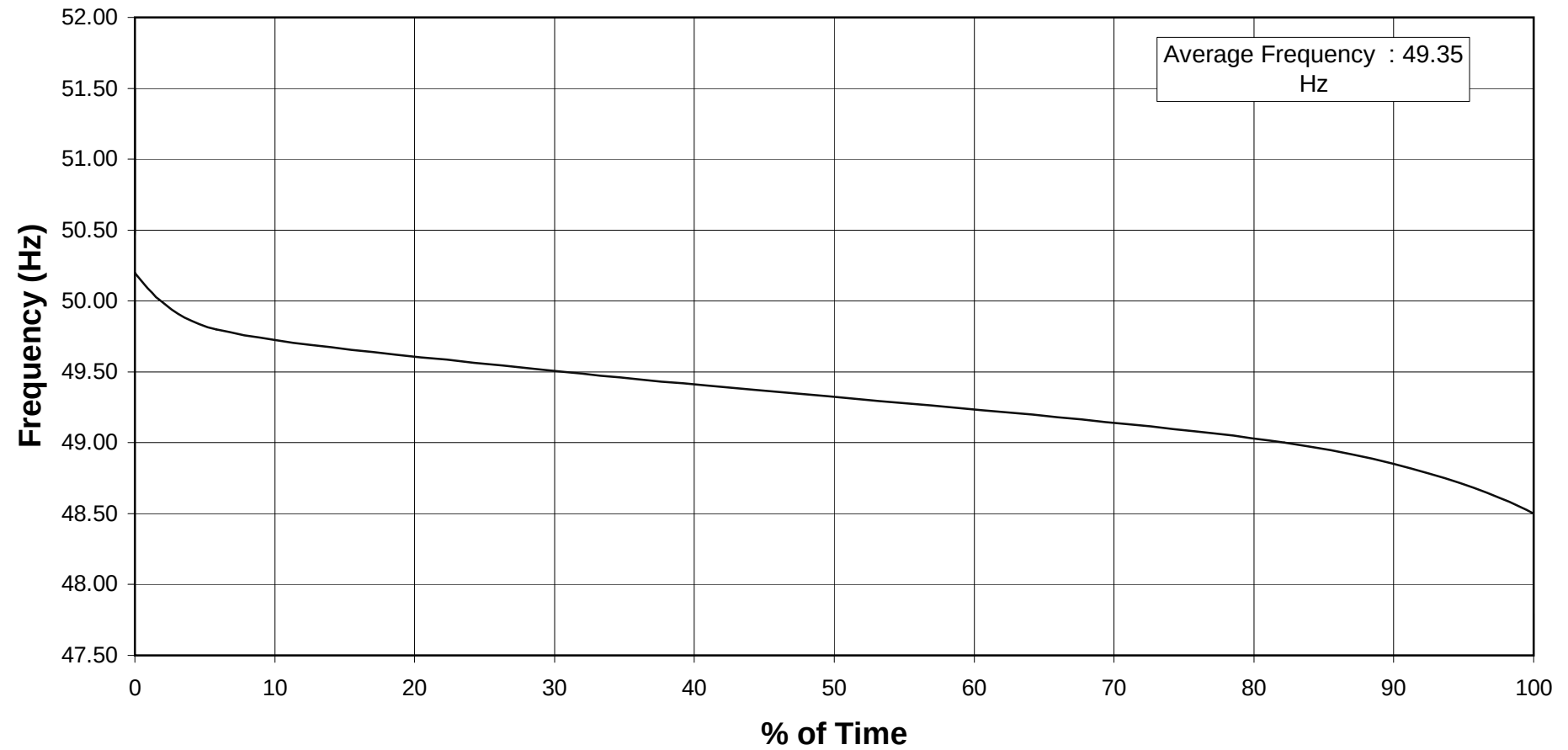
Energy content of Rihand : Total Energy content at Rihand & Obra power stations

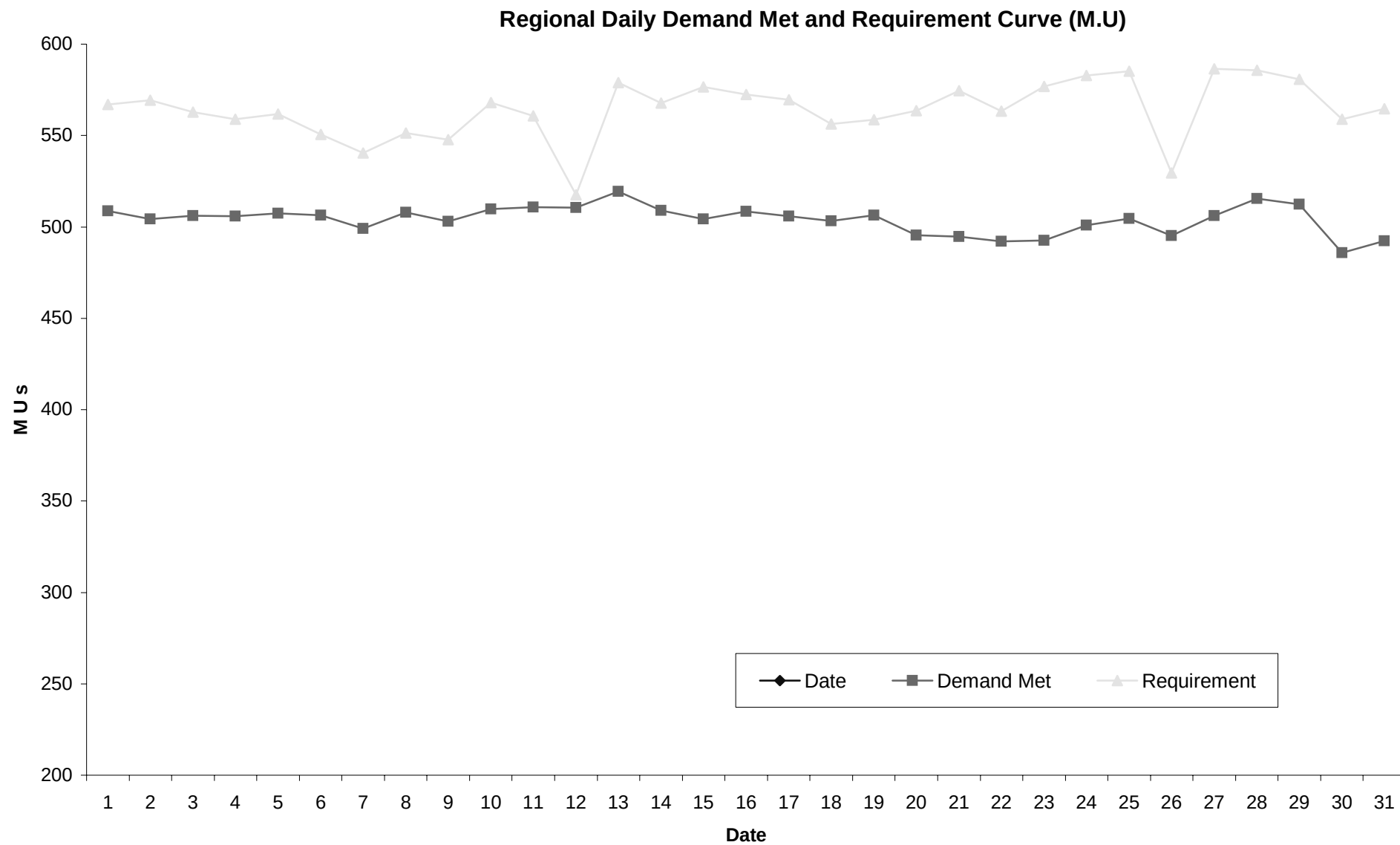
Energy content of RPS : Total Energy content of Rana Pratap Sagar and Jawahar Sagar Power Stations.

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 JULY 2004

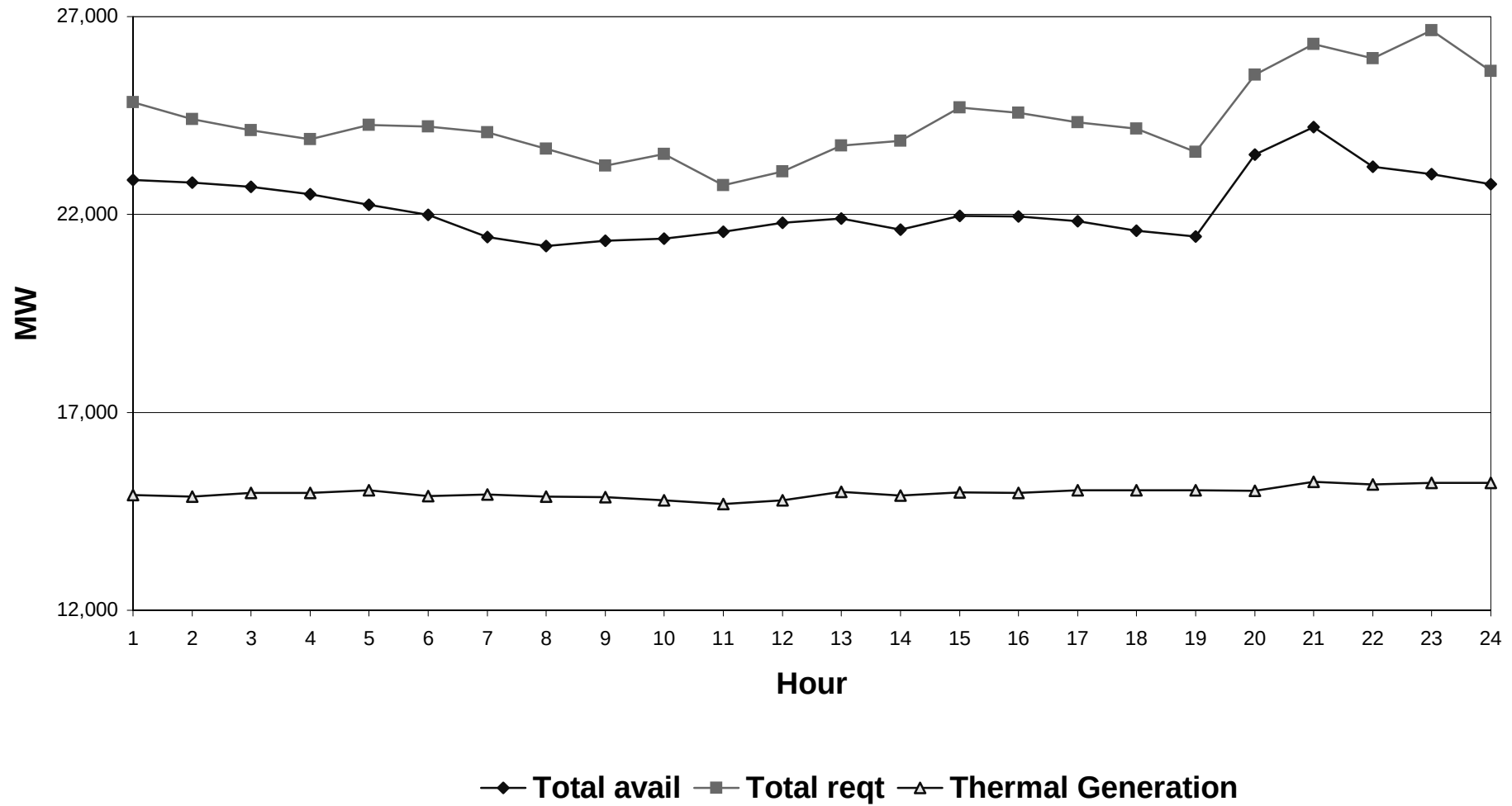


Frequency Duration Curve For Northern Region For JULY 2004



[illegible]

Load Curve Of Northern Region For Maximum Demand Met Day (19th July 2004)



Load Curve Of Northern Region For Minimum Demand Met Day (26th July 2004)

