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NORTHERN REGION GRID REPORT FOR THE MONTH OF SEPTEMBER 2004

A) Summary Report

1. Grid Overview during the Month

During the month of September 2004 the average system frequency was 49.32 Hz and remained in normal frequency band i.e. between 49.00 & 50.50 for 77.83 % of time . The average frequency variation index during the month was 6.06 . However , excursions in frequency from low to high and vice-versa reduced considerably due to implementation of free governor mode of operation on many 500 MW and 200 MW generating units in the region on experimental basis. The maximum demand met was 23690 Mw on 20.09.2004. The average demand met was 20909 MW and 464.19 MU in terms of energy . The maximum requirement was 26102 MW and average requirement per day was 530.43 MU in terms of energy. There was a shortage of 9.47 % in terms of MW during peaking hours.

Overall voltage profile on most of 400 KV buses were 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	50.44	Hz	at	22.52	hours on	21.09.2004
Minimum frequency	48.41	Hz	at	06.31	hours on	03.09.2004
Average frequency	49.32	Hz				

Frequency distribution in %

Hz	< 48.50	<49.00	49.00-50.50	> 50.50
% of time	0.03	22.07	77.93	0.00

Monthly Frequency Variation Index

Maximum	12.73
Minimum	0.84
Average	6.06

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

State / U.T.	Demand met MU/Day	Requirement MU/Day	Shortage MU/Day	Shortage %
Punjab	102.68	118.34	15.66	13.23
Haryana	61.17	65.84	4.67	7.09
Rajasthan	77.44	77.47	0.03	0.04
U.P.	113.57	151.85	38.28	25.21
Uttanchal	13.22	13.40	0.18	1.34
Delhi	63.76	64.36	0.60	0.93
H.P.	9.14	9.14	0.00	0.00
J & K *	18.20	25.02	6.82	27.26
Chandigarh	3.43	3.43	0.00	0.00
N.F.F./Rail	1.58	1.58	0.00	0.00
Total	464.19	530.43	66.24	12.49

b. Peak MW

State / U.T.	MAX. Demand met MW	MAX. Requirement MW	Shortage MW	Shortage %
	A	B	C	(C/B)*100
Punjab	5331	6706	1375	20.50
Haryana	3343	3585	242	6.75
Rajasthan	4016	4170	154	3.69
U.P.	5901	7708	1807	23.44
Uttanchal	801	841	40	4.76
Delhi	3321	3408	87	2.55
H.P.	611	611	0	0.00
J & K *	1126	1276	150	11.76
Chandigarh	198	198	0	0.00
N.F.F./Rail	72	72	0	0.00
Region	23690	26169	2479	9.47
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	1427.56	1454.79	27.23
Haryana	1031.84	1087.77	55.93
Rajasthan	840.15	903.96	63.81
U.P.	1540.97	1639.84	98.87
Uttranchal	76.86	17.16	-59.70
Delhi	1154.31	1014.88	-139.43
H.P.	10.56	-17.04	-27.60
J & K	387.40	482.56	95.16
Chandigarh	103.37	108.54	5.17
N.F.F./Rail	69.45	47.29	-22.16

6. **Inter Regional Exchanges**

	Energy M.U.	Peak MW
<u>Import</u>		
a) From WR over HVDC Vindhyachal B/B	248.67	500
b) From WR over 220 kV Ujjain-Kota	0.00	0
c) From ER over HVDC Sasaram B/B	297.48	500
d) From ER over 220 kV Pusauli-Sahupuri	98.09	177
<u>Export</u>		
e) To WR over HVDC Vindhyachal B/B	0.00	0
f) To WR (MP) over 220 kV Auraiya-Malanpur	0.00	0
g) To WR(MP) over 220 kV Kota-Ujjain	10.53	101
h) To ER over 220 kV/132kV lines	1.02	60
i) To ER over HVDC Sasaram B/B	0.00	0
j) To Nepal over 132 kV Tanakpur-Mahendernagar	3.15	35

B). Detailed Report**I. Details of Installed/Effective Capacity at the end of September 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
(g)	Nogli	2x 0.25+4x0.50	2.50	2x 0.25+4x0.50 2.50
(h)	Bhabha (H)	3x40.00	120.00	3x40.00 120.00
(i)	Baner (H)	3x 4.00	12.00	3x 4.00 12.00
(j)	Gaj (H)	3x 3.50	10.50	3x 3.50 10.50
(k)	Sal -2	1x 2	2.00	1x 2 2.00
(l)	Gumma	.	3.00	3.00
(m)	Ghanvi	2x11.25	22.50	2x11.25 22.50
(n)	Diesel Gen. Sets		0.00	0.00
(o)	Malana (IPP)	2x43	86.00	2x43 86.00
(p)	Baspa (IPP)	3x100	300.00	3x100 300.00
	Total HP		712.20	712.20
7 J & K				
	HYDRO			
(a)	Lower Jhelum	3x35.0	105.00	3x35.0 105.00
(b)	Upper Sindh	2x11.30+3x35.0	127.60	2x11.30+3x35.0 127.60
(c)	Ganderbal	2x3+2x4.5	15.00	2x3+2x4.5 15.00
(d)	Mohra	2x4.5	9.00	2x4.5 9.00
(e)	Chenani	5x4.66 +2X1.0 +3x2.5	32.80	5x4.66 +2X1.0+3x2.5 32.80
(f)	Stakna	2x2.0 +3x1.25 +2.0	9.75	2x2.0 +3x1.25 +2.0 9.75
(g)	Small Hydel		3.54	3.54
(h)	Sewa	3x3.0	9.00	3x3.0 9.00
	Total Hydro		311.69	311.69

contd/-

J & K (Contd.)					
	GAS TURBINES				
(h)	Pampore GT St - I	3x25.0	75.00	3x25.0	75.00
	Pampore GT St - II	4x25.0	100.00	4x25.0	100.00
9h)	Total Gas		175.00		175.00
(I)	Diesel Gen. Sets		8.94		7.18
	Total J & K		495.63		493.87
8	PUNJAB				
	HYDRO				
(a)	Jogindernagar/ Shanan	4x15+1x50	110.00	4x15+1x50	110.00
(b)	Upper Behari Doab Canal (UBDC)	3x15+3x15	90.00	3x15+3x15	90.00
(c)	Mukerian	6x15+6x19.5	207.00	6x15+6x19.5	207.00
(d)	Anandpur Sahib (APS)	4x33.5	134.00	4x33.5	134.00
(e)	Ranjit Sagar HPS	4x150	600.00	4x150	600.00
(f)	Small Hydel		4.10	4.10	4.10
	Total Hydro		1145.10		1145.10
	THERMAL				
(g)	Guru Nanak Dev TPS (Bhatinda)	4x110	440.00	4x110	440.00
(h)	Guru Gobind Singh TPS (Ropar)	6x210	1260.00	6x210	1260.00
(i)	Lehra Mohabbat TPS	2x210	420.00	2x210	420.00
(j)	Jhalkeri Rice Straw Fired	1x10	10.00	1x10	10.00
	Total Thermal		2130.00		2130.00
	Total Punjab		3275.10		3275.10
9	RAJASTHAN				
	HYDRO				
(a)	Mahi Bajaj Sagar	2x25+2x45	140.00	2x25+2x45	140.00
(b)	Rana Pratap Sagar (RPS)	4x43	172.00	4x43	172.00
(c)	Jawahar Sagar (JS)	3x33	99.00	3x33	99.00
(d)	Anoopgarh	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 30.09.2004

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	37.01	89.32	62.99	0.98	0.00	0.00	0.00
02	0.00	0.36	71.24	95.83	28.76	0.12	0.00	0.00	0.00
03	0.00	0.52	55.33	93.66	44.67	0.91	0.00	0.00	0.00
04	0.00	0.00	48.73	93.75	51.27	0.28	0.00	0.00	0.00
05	0.00	0.00	24.61	82.41	75.39	2.50	0.00	0.00	0.00
06	0.00	0.00	43.63	91.22	56.37	0.28	0.00	0.00	0.00
07	0.00	0.00	65.27	97.95	34.73	0.90	0.00	0.00	0.00
08	0.00	0.00	48.89	86.04	51.11	2.12	0.00	0.00	0.00
09	0.00	0.00	37.01	91.94	62.99	0.00	0.00	0.00	0.00
10	0.00	0.00	26.92	86.52	73.08	1.74	0.00	0.00	0.00
11	0.00	0.00	22.65	81.76	77.35	1.08	0.00	0.00	0.00
12	0.00	0.00	7.81	54.41	92.19	2.26	0.00	0.00	0.00
13	0.00	0.00	23.81	78.05	76.19	1.09	0.00	0.00	0.00
14	0.00	0.00	20.04	79.12	79.96	1.01	0.00	0.00	0.00
15	0.00	0.00	8.40	33.72	91.60	20.27	0.00	0.00	0.00
16	0.00	0.00	2.71	34.74	97.29	16.77	0.00	0.00	0.00
17	0.00	0.00	0.52	21.92	99.48	16.12	0.00	0.00	0.00
18	0.00	0.00	10.49	69.31	89.51	1.25	0.00	0.00	0.00
19	0.00	0.00	4.62	60.67	95.38	1.67	0.00	0.00	0.00
20	0.00	0.00	12.81	50.49	87.19	6.91	0.00	0.00	0.00
21	0.00	0.00	0.35	9.38	99.65	36.16	0.00	0.00	0.00
22	0.00	0.00	2.19	22.18	97.81	29.82	0.00	0.00	0.00
23	0.00	0.00	12.92	59.69	87.08	9.90	0.00	0.00	0.00
24	0.00	0.00	15.80	72.12	84.20	0.21	0.00	0.00	0.00
25	0.00	0.00	17.65	82.42	82.35	0.28	0.00	0.00	0.00
26	0.00	0.00	4.79	51.22	95.21	2.57	0.00	0.00	0.00
27	0.00	0.00	5.71	57.99	94.29	2.41	0.00	0.00	0.00
28	0.00	0.00	12.03	71.10	87.97	0.24	0.00	0.00	0.00
29	0.00	0.00	12.62	83.28	87.38	1.29	0.00	0.00	0.00
30	0.00	0.00	16.35	73.23	83.65	0.78	0.00	0.00	0.00
Max	0.00	0.52	71.24	97.95	99.65	36.16	0.00	0.00	0.00
Min	0.00	0.00	0.35	9.38	28.76	0.00	0.00	0.00	0.00
Average	0.00	0.03	22.07	68.88	77.93	5.19	0.00	0.00	0.00

Frequency (Hz)				Average Frequency Hz	Frequency Variation Index
Maximum		Minimum			
Freq	Time	Freq	Time		
50.12	7.42	48.51	19.08	49.12	8.77
50.09	19.31	48.48	19.08	48.90	12.73
50.31	9.04	48.41	6.31	49.00	10.95
50.10	11.07	48.54	0.17	49.04	9.97
50.43	19.03	48.56	17.44	49.24	6.92
50.39	19.00	48.52	18.37	49.07	9.52
50.22	9.42	48.53	5.02	48.93	12.15
50.35	17.08	48.51	19.10	49.08	9.86
49.93	19.19	48.54	15.11	49.11	8.74
50.10	13.26	48.54	18.39	49.21	7.17
50.13	8.04	48.54	21.35	49.23	6.76
50.41	22.59	48.65	18.56	49.46	3.84
50.11	19.20	48.54	11.32	49.27	6.37
50.07	18.27	48.54	18.54	49.25	6.44
50.34	5.15	48.54	18.39	49.65	2.78
50.39	13.02	48.77	18.42	49.64	2.28
50.27	9.05	48.76	18.43	49.71	1.55
50.16	18.18	48.62	18.44	49.37	4.88
50.37	19.03	48.55	22.19	49.43	3.87
50.28	19.05	48.57	6.02	49.47	4.18
50.44	22.52	48.63	18.40	49.87	0.84
50.39	4.07	48.58	18.50	49.76	1.64
50.25	1.10	48.53	18.41	49.44	4.59
50.05	22.50	48.51	18.22	49.31	5.71
50.07	23.50	48.54	18.40	49.26	6.20
50.15	19.02	48.59	18.42	49.49	3.38
50.20	18.03	48.59	17.50	49.45	3.78
50.15	18.01	48.58	18.42	49.33	5.33
50.13	22.37	48.59	0.05	49.29	5.75
50.18	20.58	48.55	18.38	49.32	5.64
50.44		48.77		49.87	12.73
49.93		48.41		48.93	0.84
50.22		48.56		49.32	6.06

IV.

Voltage Profile

Date	400 KV Dadri Voltage (kV)				400 KV Kanpur Voltage (kV)				220 KV BTPS Voltage (kV)				400 KV Moga Voltage (kV)			
	Maximum Voltage	Time	Minimum Voltage	Time	Maximum Voltage	Time	Minimum Voltage	Time	Maximum Voltage	Time	Minimum Voltage	Time	Maximum Voltage	Time	Minimum Voltage	Time
01	410	07.44	366	14.47	410	18.06	378	12.26	209	07.36	195	10.40	409	07.43	372	14.47
02	409	19.01	381	11.27	409	19.01	378	12.45	208	08.01	196	12.35	407	00.00	387	10.34
03	412	08.07	382	14.40	407	08.07	379	14.40	209	08.07	195	14.36	408	08.07	382	13.41
04	406	05.42	379	11.42	397	02.46	380	13.07	209	06.39	196	12.20	405	09.07	379	12.09
05	410	19.02	389	16.08	407	19.02	380	14.18	209	18.03	201	16.06	409	18.08	388	07.40
06	406	19.03	385	16.43	407	19.03	379	16.42	208	05.58	196	15.44	404	19.03	387	12.58
07	410	18.04	383	00.31	405	18.31	377	15.01	210	18.01	199	15.00	407	09.42	384	15.07
08	409	08.17	384	15.17	410	19.02	380	15.13	211	07.06	196	15.13	407	08.09	381	14.09
09	408	02.24	381	15.06	405	08.02	377	14.13	209	07.40	194	15.06	401	21.55	375	07.17
10	409	05.49	384	10.38	405	18.25	380	14.17	209	05.53	195	15.14	407	22.58	386	12.08
11	413	22.52	388	11.16	408	19.07	384	00.04	209	05.06	198	11.16	409	18.05	385	06.36
12	412	01.20	391	09.08	404	01.21	382	14.12	210	01.21	202	18.55	407	22.58	391	15.06
13	406	22.05	384	17.52	405	22.03	377	17.51	208	05.06	194	14.39	403	05.33	388	15.17
14	409	22.57	386	09.13	407	22.52	383	09.10	207	07.04	195	15.03	406	05.33	391	09.08
15	423	22.51	399	18.48	409	09.00	390	16.00	211	06.00	201	15.00	409	23.00	395	11.00
16	417	04.04	394	15.49	409	22.54	388	09.07	213	04.02	201	15.48	408	02.25	391	06.16
17	413	03.16	394	11.27	409	18.02	390	15.26	212	03.06	201	15.16	409	03.21	391	11.47
18	410	04.07	390	10.49	403	18.18	387	10.50	211	04.03	201	10.39	405	03.33	390	07.02
19	409	19.02	392	11.15	402	19.03	387	19.34	210	04.03	202	19.35	405	22.46	388	7.36
20	409	03.05	381	12.13	403	19.04	379	13.42	211	03.15	196	12.12	409	21.15	386	12.16
21	418	22.51	386	14.13	413	22.52	389	14.38	212	22.41	198	15.20	412	03.17	393	13.57
22	416	21.46	388	09.46	408	19.03	390	11.15	213	03.09	197	11.06	409	01.31	388	09.49
23	417	03.13	386	09.46	404	19.04	384	15.01	214	01.40	198	09.53	411	03.10	390	07.30
24	414	02.50	383	16.09	404	02.59	380	13.40	213	03.21	198	11.22	413	02.53	388	16.05
25	412	03.04	385	15.35	407	06.01	381	15.36	212	03.06	201	15.33	413	03.04	391	14.17
26	414	18.01	389	08.52	409	18.17	386	07.55	211	02.26	205	18.26	414	02.22	386	08.45
27	413	02.03	394	09.10	404	18.03	386	13.54	212	02.00	201	10.04	411	03.09	395	07.17
28	411	18.02	392	09.09	410	18.03	383	13.52	212	02.48	199	12.40	413	22.39	397	05.15
29	411	13.06	390	09.09	409	19.02	387	09.09	212	02.48	199	12.40	414	22.36	397	17.09
30	412	01.51	390	10.28	403	20.22	381	14.15	211	00.05	199	11.32	412	01.33	390	16.18
Max	423		399		413		390		214		205		414		397	
Min	406		366		397		377		207		194		401		372	

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	23362	24893	1531	21542	23524	1982	486.83
02	22938	24655	1717	21315	23208	1893	474.44
03	22837	25309	2472	20563	23060	2497	478.77
04	22882	24635	1753	20332	22687	2355	476.64
05	22946	24458	1512	20999	23131	2132	479.55
06	23363	24844	1481	21484	23175	1691	487.06
07	23058	24656	1598	21706	23385	1679	487.77
08	22235	24809	2574	21104	23455	2351	483.58
09	23328	25881	2553	21353	23763	2410	491.00
10	23074	25687	2613	21928	24119	2191	493.85
11	23130	26102	2972	21601	23856	2255	486.70
12	23051	25882	2831	21037	23627	2590	487.40
13	23308	25845	2537	21053	23874	2821	490.81
14	23553	26031	2478	21108	23715	2607	484.03
15	22409	24738	2329	20887	22612	1725	467.65
16	23086	25028	1942	20100	21485	1385	472.93
17	22589	24232	1643	19926	21486	1560	481.57
18	23126	24848	1722	21024	22704	1680	477.09
19	23473	25016	1543	20608	23139	2531	482.57
20	23690	25280	1590	20931	23006	2075	485.84
21	22790	24273	1483	20552	22052	1500	480.78
22	22439	24419	1980	19996	21176	1180	464.93
23	22394	24459	2065	19809	21198	1389	460.03
24	22150	24441	2291	19928	22003	2075	464.21
25	22324	24470	2146	19597	21837	2240	458.26
26	21990	23977	1987	19231	22202	2971	462.77
27	22802	24848	2046	19610	22039	2429	469.09
28	22653	24821	2168	20251	22366	2115	471.03
29	21792	24120	2328	20057	22527	2470	460.97
30	22439	24681	2242	19625	21010	1385	457.84
Maximum	23690	26102	2972	21928	24119	2971	493.85
Minimum	21792	23977	1481	19231	21010	1180	457.84
Average	22840	24911	2071	20642	22714	2072	476.87

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	5020	5100	3036	2830	3156	2907	3107	2494	4842	5460
02	4796	4699	3056	2858	3341	2887	3139	2480	4855	5441
03	4775	4676	2992	2752	3294	2842	3069	2545	5203	5205
04	4711	4722	3105	2834	3239	2780	3117	2568	5282	5163
05	4637	4735	3010	2619	3479	2961	3049	2577	5145	5228
06	4778	4695	3122	2867	3598	3095	3123	2548	5308	5419
07	5051	4907	2969	2801	3587	3103	2898	2616	5058	5336
08	4889	4816	3021	2801	3502	3091	2908	2501	4935	5202
09	5042	4795	3092	2762	3816	3338	3152	2544	4803	4836
10	4945	4745	2947	2790	3647	3477	3137	2689	5253	5457
11	4678	4596	3013	2695	3881	3270	3215	2693	4853	5292
12	4826	4645	2948	2769	3688	3250	3147	2649	4943	5052
13	4929	4909	2951	2662	3738	3192	3186	2664	5190	5253
14	5112	4805	3126	2670	3587	3159	3221	2743	4847	5042
15	4681	4864	2953	2608	3375	3505	3107	2653	4958	4751
16	4860	4624	2912	2249	3726	3460	3232	2352	4952	5064
17	4764	4424	3002	2383	3740	3406	3170	2386	4839	5270
18	4757	4814	3025	2486	3667	3484	3192	2453	4986	5334
19	4769	4733	3080	2549	3771	3442	3081	2519	5031	4992
20	4816	4605	3190	2491	3744	3361	3204	2645	5291	5289
21	4602	4428	3009	2470	3674	3394	3172	2538	4864	5658
22	4474	4483	2834	2394	3848	3220	3050	2279	4881	5129
23	4428	4472	3001	2425	3766	3502	3015	2009	4853	4781
24	4391	4335	2874	2465	3659	3399	2936	2194	4665	4796
25	4405	4053	2921	2434	3794	3253	2831	2248	5374	5142
26	4357	3899	2964	2402	3860	3249	2875	2324	5041	4940
27	4222	4056	2982	2486	3981	3412	3015	2241	4959	5007
28	4442	4200	3065	2552	3861	3495	2968	2350	5068	5170
29	4128	4132	2822	2621	3699	3263	2876	2337	5044	5421
30	4287	3778	2856	2381	3718	3048	3043	2298	5089	5541
Maximum	5112	5100	3190	2867	3981	3505	3232	2743	5374	5658
Minimum	4128	3778	2822	2249	3156	2780	2831	2009	4665	4751
Average	4686	4558	2996	2604	3648	3242	3075	2471	5020	5189

Remarks: Peak - 2000 hrs offpeak - 0300 hrs

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

State Date	Uttaranchal		Chandigarh		Himachal Pradesh		Jammu & Kashmir	
	Peak	Off Peak	Peak	Off Peak	Peak	Off Peak	Peak	Off Peak
01	727	517	194	140	561	392	898	604
02	739	515	192	145	552	395	918	627
03	728	518	195	135	548	357	885	642
04	741	553	179	134	570	395	715	707
05	758	552	160	136	563	376	880	647
06	583	546	171	132	552	402	855	673
07	754	611	172	135	550	429	941	690
08	801	575	165	136	542	405	755	554
09	621	576	170	140	557	414	793	674
10	751	619	174	142	532	416	770	725
11	768	527	173	148	536	412	805	697
12	771	463	156	141	554	374	1126	738
13	775	590	172	141	564	411	1060	450
14	741	515	176	144	544	413	926	659
15	674	408	153	133	541	361	1013	536
16	713	458	154	115	510	328	813	444
17	729	445	173	110	524	335	1020	669
18	745	454	162	113	543	303	1015	697
19	729	482	153	121	555	337	1059	675
20	688	493	162	125	562	343	886	681
21	759	498	168	94	545	329	904	465
22	668	476	159	114	529	322	1031	648
23	719	376	155	112	530	326	823	717
24	721	456	154	117	517	330	856	620
25	684	502	154	117	517	330	862	661
26	701	489	154	111	543	304	972	644
27	753	463	157	114	609	288	980	683
28	746	475	172	106	528	298	974	704
29	779	458	166	108	533	308	934	702
30	755	476	168	108	527	325	755	740
Maximum	801	619	195	148	609	429	1126	740
Minimum	583	376	153	94	510	288	715	444
Average	727	503	167	126	545	359	907	646

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	114.032	62.401	69.873	64.679	117.310	13.444	3.939	9.251	17.638	1.659	474.226
02	107.501	60.126	68.541	65.591	117.037	13.079	4.066	9.156	16.918	1.657	463.672
03	105.269	60.252	69.118	66.520	117.307	13.236	3.871	9.207	17.976	1.619	464.375
04	106.106	61.603	69.473	64.517	117.019	13.397	3.635	9.077	18.412	1.619	464.857
05	106.090	62.320	73.195	62.483	117.672	13.919	3.266	9.323	18.440	1.691	468.398
06	106.626	61.963	74.857	65.643	119.936	13.826	3.757	9.527	17.624	1.684	475.443
07	107.842	61.834	74.831	64.450	119.713	13.755	3.548	9.420	18.830	1.607	475.830
08	106.960	62.080	75.071	65.485	113.495	13.963	3.604	8.939	18.051	1.728	469.376
09	107.189	63.376	78.964	66.321	111.737	13.620	3.492	9.081	18.306	1.673	473.760
10	106.411	61.826	79.774	67.884	115.410	14.554	3.633	9.233	18.037	1.543	478.304
11	104.369	63.015	79.101	66.593	115.022	14.162	3.433	9.181	18.007	1.581	474.465
12	106.935	63.338	79.218	63.865	114.404	13.738	3.192	8.905	18.970	1.645	474.210
13	107.897	63.141	78.018	68.149	115.056	14.740	3.489	9.050	18.096	1.624	479.259
14	107.810	63.559	77.150	68.980	107.770	13.455	3.541	8.841	18.219	1.569	470.896
15	105.702	60.572	78.847	64.704	104.964	11.813	3.264	8.468	17.001	1.592	456.927
16	105.359	57.614	78.951	64.525	112.523	12.454	3.233	8.762	17.180	1.499	462.100
17	105.938	60.768	78.646	66.001	110.709	12.160	3.481	8.811	18.561	1.661	466.737
18	104.161	61.330	78.576	64.970	109.903	12.742	3.333	9.172	18.853	1.579	464.618
19	104.086	62.480	80.375	63.145	113.170	13.284	3.162	9.201	19.711	1.602	470.215
20	102.889	63.375	79.325	66.727	115.262	13.115	3.399	9.420	18.110	1.558	473.182
21	102.518	60.785	79.431	65.445	116.872	13.450	3.293	9.107	16.555	1.568	469.025
22	100.807	59.867	79.922	61.348	105.287	12.301	3.321	9.487	18.502	1.565	452.408
23	97.650	59.802	81.931	58.535	106.985	11.604	3.319	9.346	18.152	1.419	448.744
24	96.090	59.235	80.950	61.638	108.191	12.750	3.342	9.234	18.360	1.253	451.044
25	94.712	59.676	80.501	60.281	110.873	13.295	3.342	9.328	17.797	1.323	451.128
26	94.581	60.534	80.404	57.932	113.226	12.598	2.990	9.132	18.405	1.531	451.333
27	93.167	61.103	81.238	61.320	113.029	12.944	3.291	8.639	18.549	1.483	454.762
28	94.968	61.359	81.691	61.793	113.649	13.212	3.328	8.914	18.702	1.513	459.129
29	87.792	57.977	79.197	62.737	114.992	12.926	3.184	9.332	19.103	1.663	448.902
30	89.027	57.771	75.909	61.836	118.663	13.155	3.188	9.504	18.987	1.581	449.623
Maximum	114.032	63.559	81.931	68.980	119.936	14.740	4.066	9.527	19.711	1.728	479.259
Minimum	87.792	57.614	68.541	57.932	104.964	11.604	2.990	8.468	16.555	1.253	448.744
Average	102.683	61.169	77.436	64.137	113.573	13.223	3.431	9.135	18.202	1.576	464.565
Month Total	3080.480	1835.082	2323.084	1924.096	3407.186	396.691	102.936	274.050	546.054	47.289	13936.948

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-Sep-2004	51279	56099	35855	36946	28391	30465	41850	34253	50141	54213	782	-580
2-Sep-2004	48456	49840	34047	35572	26695	30027	41116	34701	48234	50809	740	-66
3-Sep-2004	48748	48356	34294	36333	27266	30248	39707	35977	48780	51111	1402	-1333
4-Sep-2004	49007	49707	35141	36041	27629	30949	39978	33839	49456	53457	1440	-615
5-Sep-2004	50492	51001	35154	37804	27839	31550	39989	31556	49684	53798	1402	102
6-Sep-2004	49722	50534	36188	37570	28619	31288	40039	35883	49908	52478	1727	461
7-Sep-2004	49773	50794	36338	36949	28623	31441	40427	36702	50047	53051	1907	1101
8-Sep-2004	48946	50477	36154	37184	28288	30844	41263	37051	48894	51176	2770	1282
9-Sep-2004	49824	51014	37222	37617	29016	31031	41938	39386	49340	49637	2814	2082
10-Sep-2004	46724	49276	37735	38072	29558	33121	42556	37539	50041	52896	2991	2603
11-Sep-2004	46819	48781	37392	38849	29501	32566	42570	36537	50619	55747	3035	1745
12-Sep-2004	49969	54068	38037	39084	30097	32987	42157	33833	51136	56689	3033	521
13-Sep-2004	50704	51396	37119	37910	29153	31732	41849	36462	49790	54973	2971	1161
14-Sep-2004	50337	50936	37155	38744	29028	29124	41543	38364	50358	56812	3157	703
15-Sep-2004	46837	49821	35838	35757	28512	31739	39518	34518	52032	54879	3169	-1266
16-Sep-2004	48626	50635	35135	36767	29045	34341	41904	33378	53554	56153	2882	-884
17-Sep-2004	50946	53046	36097	36051	29815	35490	40875	35016	54020	56187	2647	-1337
18-Sep-2004	49518	51215	34570	38532	29248	30083	40391	34464	54192	58037	2737	-375
19-Sep-2004	48508	50292	34511	37669	29448	28889	37381	33576	55594	57917	2987	674
20-Sep-2004	48766	49540	34561	36933	29102	27199	36984	36439	55258	57304	3218	531
21-Sep-2004	47670	49833	33746	36216	29223	28668	38675	35908	55285	56006	3387	584
22-Sep-2004	45580	48292	32456	35527	27379	27453	36496	31381	51689	52632	2834	-370
23-Sep-2004	45029	44984	31786	35168	26762	30683	34978	29960	51750	52909	2816	471
24-Sep-2004	43813	43113	30618	34344	25170	28185	34562	30204	51172	53373	2820	1230
25-Sep-2004	42667	41845	29974	33327	24833	27471	33039	28828	50409	53716	2694	985
26-Sep-2004	43994	42679	30393	34659	25902	28200	32450	26432	51528	56723	2754	986
27-Sep-2004	43716	42723	31143	35299	26485	28400	32703	29479	52010	56286	2857	1561
28-Sep-2004	44459	42758	32056	34218	26861	29443	32835	30741	52437	56339	2886	1835
29-Sep-2004	43487	40355	30968	30267	26379	27210	32393	30874	51642	57296	2870	1965
30-Sep-2004	43141	41376	30158	32361	26278	23128	32141	31603	51965	57236	3130	2001
Total MU	1427.557	1454.786	1031.841	1087.770	840.145	903.955	1154.307	1014.884	1540.965	1639.840	76.859	17.758
Max. MWH	51279	56099	38037	39084	30097	35490	42570	39386	55594	58037	3387	2603
Min MWH	42667	40355	29974	30267	24833	23128	32141	26432	48234	49637	740	-1337
Avg. MWH	47585	48493	34395	36259	28005	30132	38477	33829	51366	54661	2562	592

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-Sep-2004	-2517	-2528	12371	14735	3174	4077	456	111	1621	1548
2-Sep-2004	-1908	-1746	10714	14286	3095	4210	456	100	1862	1557
3-Sep-2004	-114	-1328	10950	15593	3119	4043	456	105	1874	1514
4-Sep-2004	-283	-1413	11388	15841	3101	3772	456	99	1787	1520
5-Sep-2004	-265	-1302	12103	16038	3128	3439	456	106	1873	1585
6-Sep-2004	-288	-1245	13506	15263	3122	3898	456	103	1909	1581
7-Sep-2004	-661	-1598	13527	16456	3118	3790	456	96	1894	1511
8-Sep-2004	-870	-2051	13722	15972	3106	3911	456	99	1906	1629
9-Sep-2004	-842	-2775	13793	16045	3130	3763	456	37	1856	1636
10-Sep-2004	-1235	-3626	14028	16072	3170	3915	456	87	1848	1456
11-Sep-2004	-1426	-2775	13996	15954	3193	3616	456	113	1890	1468
12-Sep-2004	-1434	-3435	14791	16783	3325	3425	456	58	1873	1587
13-Sep-2004	-2019	-3474	13961	16107	3275	3763	456	28	1568	1596
14-Sep-2004	-1755	-3231	13870	16183	3264	3903	456	34	1653	1535
15-Sep-2004	-2022	-5062	11437	15096	3340	3554	456	38	1743	1554
16-Sep-2004	-2627	-3122	13124	15268	3257	3417	456	37	1865	1462
17-Sep-2004	-64	-1078	13741	16525	3964	3673	456	46	1786	1615
18-Sep-2004	-245	-256	13105	16823	3967	3531	456	38	1830	1541
19-Sep-2004	1096	761	14354	17585	3932	3364	456	37	1983	1565
20-Sep-2004	1407	1046	14018	15948	3338	3670	456	34	2030	1524
21-Sep-2004	1482	1027	13789	14418	3943	3424	456	33	1972	1535
22-Sep-2004	1596	1039	13057	16339	3745	3521	456	13	1550	1552
23-Sep-2004	1644	1462	11244	16181	3795	3471	456	0	1556	1419
24-Sep-2004	2362	2039	12140	16302	3765	3481	456	0	1730	1253
25-Sep-2004	3173	3028	12092	15920	3725	3355	456	0	2069	1323
26-Sep-2004	3340	3104	12489	16448	3796	3115	456	0	2079	1531
27-Sep-2004	3800	2262	12729	16805	3845	3391	456	0	1995	1483
28-Sep-2004	3930	2237	12660	17146	3896	3465	456	0	2083	1513
29-Sep-2004	3289	3138	12356	17478	3474	3318	456	0	2018	1663
30-Sep-2004	4011	3860	12341	16952	3271	3263	456	0	2065	1581
Total MU	10.555	-17.042	387.396	482.562	103.373	108.538	13.680	1.452	55.768	45.837
Max. MWH	4011	3860	14791	17585	3967	4210	456	113	2083	1663
Min MWH	-2627	-5062	10714	14286	3095	3115	456	0	1550	1253
Avg. MWH	352	-568	12913	16085	3446	3618	456	48	1859	1528

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-Sep-2004	38708	39858	10800	10988	18360	18807	9173	9331	9173	9323	16507	16914
2-Sep-2004	35424	36659	10800	11020	18360	18590	9173	9328	9173	9323	17293	17111
3-Sep-2004	37266	38314	10800	10984	18360	18558	9173	9332	9173	9320	17257	17162
4-Sep-2004	39864	41031	10745	10855	18360	18563	9173	9331	9173	9323	16237	15722
5-Sep-2004	39864	40623	10458	10576	18360	18555	9173	9330	9173	9321	17176	17265
6-Sep-2004	39864	40648	10553	10667	18360	18554	9173	9325	9173	9318	17379	17251
7-Sep-2004	39864	40629	10800	10875	18360	18568	9173	9331	9173	9327	17383	17231
8-Sep-2004	36670	37252	10800	10922	18360	18556	9173	9316	9173	9322	17568	17162
9-Sep-2004	37086	37575	10800	10923	18360	18561	9164	9314	9173	9328	17143	16684
10-Sep-2004	39864	40388	10233	10221	18360	18556	9173	9328	8698	8856	16948	16637
11-Sep-2004	39864	40512	10686	10893	18360	18540	9173	9335	9173	9337	17066	16912
12-Sep-2004	39864	40391	20486	20782	18360	18559	5197	5258	9173	9334	16744	16755
13-Sep-2004	39864	40522	21960	22187	18360	18555	4522	4608	9054	9213	12569	12606
14-Sep-2004	39864	40493	21960	22206	18360	18560	4526	4609	9103	9266	12491	12731
15-Sep-2004	39864	40406	21908	22239	18360	18544	4574	4655	9173	9330	12955	12917
16-Sep-2004	39864	40368	21960	22347	18360	18552	4608	4690	9173	9334	15479	15392
17-Sep-2004	39864	40411	21960	22388	18360	18557	4608	4694	9173	9332	15919	15497
18-Sep-2004	41454	42042	21960	22394	18360	18563	4608	4680	9173	9298	15772	16013
19-Sep-2004	44280	44905	21960	22210	15641	15812	4608	4680	9173	9295	16613	16635
20-Sep-2004	44280	44896	21960	22241	16286	16437	4608	4673	9173	9293	17267	16852
21-Sep-2004	44280	44772	20559	20679	18360	18507	4571	4625	9127	9267	15462	14751
22-Sep-2004	44280	44874	10862	10986	18360	18554	4608	4672	9173	9289	15092	14536
23-Sep-2004	44280	44908	10992	11066	17709	18579	4608	4676	9173	9298	14142	14259
24-Sep-2004	44280	45083	10638	10780	18360	18561	4608	4672	9173	9297	15363	15738
25-Sep-2004	43163	44014	10545	10718	18360	18570	4608	4674	9173	9297	16866	16955
26-Sep-2004	44280	44910	10800	10929	18360	18556	4608	4669	9173	9296	17199	17293
27-Sep-2004	44280	45005	10683	10904	18360	18556	4608	4669	9173	9298	16304	16488
28-Sep-2004	44280	45103	10800	10919	18360	18548	4608	4671	9163	9292	16253	16632
29-Sep-2004	44280	44898	10800	10993	18360	18553	4608	4671	8892	9021	15957	15918
30-Sep-2004	44280	44947	10992	11100	18360	18558	4608	4676	9173	9302	15817	15771
Total MU	1235.219	1256.437	431.260	436.992	545.356	552.089	188.796	191.823	274.189	278.450	482.221	479.790
Max. MWH	44280	45103	21960	22394	18360	18807	9173	9335	9173	9337	17568	17293
Min MWH	35424	36659	10233	10221	15641	15812	4522	4608	8698	8856	12491	12606
Avg. MWH	41174	41881	14375	14566	18179	18403	6293	6394	9140	9282	16074	15993

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-Sep-2004	8813	8879	9559	9603	3840	3640	3169	2963	1557	1572	13471	13597
2-Sep-2004	8944	8953	9529	9554	3840	3654	0	-232	1497	1511	12675	12793
3-Sep-2004	8779	8873	9613	9581	3840	3673	0	-181	1407	1420	11549	11661
4-Sep-2004	8983	8892	9632	9615	3840	3690	0	-188	1332	1345	12037	12098
5-Sep-2004	8840	8828	9626	9579	3792	3705	1050	882	1319	1331	13558	13678
6-Sep-2004	8903	8789	9669	9524	3816	3693	4080	3893	1227	1239	13842	13920
7-Sep-2004	8775	8585	9687	9474	3816	3728	4080	3854	1212	1224	15049	15161
8-Sep-2004	8848	8736	9706	9506	3792	3714	4080	3876	1152	1163	15872	16031
9-Sep-2004	8836	8791	9626	9526	3840	3671	4080	3902	1167	1178	16125	16259
10-Sep-2004	8941	8904	9685	9569	3840	3660	4080	3921	1182	1194	16196	16356
11-Sep-2004	8957	8905	9627	9604	3792	3691	4080	3932	1167	1178	15950	16085
12-Sep-2004	8763	8479	9507	9526	3792	3691	4080	3960	1200	1211	16365	16517
13-Sep-2004	8947	8934	11378	11355	3816	3668	4080	3917	1422	1435	16392	16533
14-Sep-2004	9076	9028	14061	13787	3792	3663	4080	3706	1587	1602	16392	16528
15-Sep-2004	8717	8346	14308	14231	3792	3753	4080	3603	2212	2228	5295	5305
16-Sep-2004	8757	8637	14067	13658	3792	3705	5166	4755	1915	1932	11395	11457
17-Sep-2004	8544	8295	13546	13183	3768	3547	7459	7287	1662	1677	14912	14992
18-Sep-2004	8586	8861	13655	13932	3888	3620	8016	7800	1422	1436	12630	12742
19-Sep-2004	8644	8609	14146	14011	5961	5628	7944	7860	1467	1480	12238	12350
20-Sep-2004	8808	8684	12996	12850	7464	7135	7872	7835	1364	1377	11493	11596
21-Sep-2004	8312	7719	12669	11812	7464	7518	7920	7939	1572	1586	11785	11877
22-Sep-2004	8511	8190	13055	12385	7440	7594	5465	5323	1437	1451	10778	10866
23-Sep-2004	8817	8763	13300	12990	7560	7536	4056	3986	1302	1314	9418	9504
24-Sep-2004	8869	8615	13416	13403	7560	7481	4200	3992	1272	1284	8196	8267
25-Sep-2004	8881	8895	13555	13629	7560	7387	4104	3878	1197	1208	7826	7896
26-Sep-2004	8798	8703	13853	13644	7560	7481	7037	7062	1152	1164	7580	7643
27-Sep-2004	8862	8706	14233	14087	7560	7529	7944	8031	1212	1223	7951	8017
28-Sep-2004	8717	8792	14193	14179	7560	7432	8592	7992	1197	1208	7675	7744
29-Sep-2004	8503	8798	13607	13768	7584	7466	8568	7983	1137	1147	7768	7840
30-Sep-2004	8778	8807	14186	14121	7488	7460	8496	8105	1047	1057	7586	7655
Total MU	263.509	260.996	359.690	355.686	157.449	153.813	147.858	141.636	40.995	41.375	359.999	362.968
Max. MWH	9076	9028	14308	14231	7584	7594	8592	8105	2212	2228	16392	16533
Min MWH	8312	7719	9507	9474	3768	3547	0	-232	1047	1057	5295	5305
Avg. MWH	8784	8700	11990	11856	5248	5127	4929	4721	1367	1379	12000	12099

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-Sep-2004	2276	2302	6764	6824	5626	5685	14605	14075	14243	13948	2703	2759
2-Sep-2004	2265	2295	6008	6059	5538	5590	14846	13805	13904	13933	2624	2715
3-Sep-2004	2268	2285	5874	5920	5245	5314	14640	13692	13930	13807	2779	2772
4-Sep-2004	2281	2303	5118	5158	4926	4987	14524	13842	14445	14346	2765	2767
5-Sep-2004	2243	2271	5029	5070	4650	4657	14756	14097	14305	14209	2765	2878
6-Sep-2004	2269	2295	5518	5568	4439	4478	14787	14123	14328	13903	2743	2691
7-Sep-2004	2278	2300	5518	5562	4149	4195	15023	14226	14086	13852	2727	2760
8-Sep-2004	2200	2228	5518	5571	3785	3836	14862	14182	14010	13767	2790	2849
9-Sep-2004	2256	2273	5518	5563	3823	3854	14939	14132	15528	14907	2774	2769
10-Sep-2004	2256	2277	6230	6282	3326	3354	14876	14154	14833	14395	2774	2811
11-Sep-2004	2222	2245	6052	6100	3182	3225	15029	14335	14833	14194	2774	2730
12-Sep-2004	2261	2284	6052	6102	3178	3211	14721	14174	14833	14223	2774	2794
13-Sep-2004	2249	2274	5029	5067	3042	3077	15011	14321	14340	14051	2774	2728
14-Sep-2004	2259	2280	4094	4143	3151	3181	15035	14286	14345	13963	2774	2869
15-Sep-2004	2265	2285	7476	7529	2979	3023	15011	14099	14340	13862	2774	2681
16-Sep-2004	2270	2284	4050	4081	2997	3031	14894	14147	14055	14038	2774	2790
17-Sep-2004	2242	2266	5696	5737	2924	3104	14856	14341	13948	13553	2774	2852
18-Sep-2004	2208	2228	5874	5923	3343	3392	14856	14261	11454	11155	2772	2803
19-Sep-2004	2264	2283	4806	4844	3437	3485	14554	14189	9465	9451	2774	2780
20-Sep-2004	2275	2301	3783	3815	3580	3628	14894	14327	9445	9553	2774	2750
21-Sep-2004	2256	2278	4450	4487	3627	3666	13825	13086	10013	10083	3279	3333
22-Sep-2004	2280	2302	4005	4038	4230	4281	14050	13127	10013	9985	3279	3318
23-Sep-2004	2247	2290	3827	3859	4227	4296	13185	12199	9520	9648	3279	3419
24-Sep-2004	2294	2313	3605	3634	4271	4273	13271	12118	7585	7851	3279	3310
25-Sep-2004	2280	2299	3293	3321	3914	3962	13161	11708	7005	7128	3279	3335
26-Sep-2004	2284	2298	2715	2736	4092	4192	13075	12023	7005	7123	3311	3321
27-Sep-2004	2303	2322	3649	3678	3937	4076	13075	12005	7530	7722	3311	3380
28-Sep-2004	1594	1633	4584	4619	3958	4035	13150	12041	8325	8415	3346	3327
29-Sep-2004	2304	2232	1958	1974	3771	3829	12820	11673	8505	8561	3653	3714
30-Sep-2004	2105	2170	3471	3498	3879	3939	12820	11948	6485	6483	3698	3729
Total MU	67.054	67.696	145.564	146.762	117.226	118.856	429.151	404.736	356.656	352.109	88.896	89.734
Max. MWH	2304	2322	7476	7529	5626	5685	15035	14341	15528	14907	3698	3729
Min MWH	1594	1633	1958	1974	2924	3023	12820	11673	6485	6483	2624	2681
Avg. MWH	2235	2257	4852	4892	3908	3962	14305	13491	11889	11737	2963	2991

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-Aug-2004	20750	20889	5037	5084
2-Aug-2004	18675	18823	4321	4351
3-Aug-2004	19600	19767	4752	4792
4-Aug-2004	20425	20597	4812	4855
5-Aug-2004	19863	20049	4794	4834
6-Aug-2004	19800	19936	4878	4920
7-Aug-2004	19750	19923	4972	5017
8-Aug-2004	21000	21168	5270	5317
9-Aug-2004	23225	23425	5341	5385
10-Aug-2004	24000	24182	5792	5844
11-Aug-2004	24000	24193	5019	4998
12-Aug-2004	21063	21208	5835	5883
13-Aug-2004	18000	18154	5877	5927
14-Aug-2004	17375	17519	5335	5379
15-Aug-2004	15375	15323	5495	5535
16-Aug-2004	18000	18146	5285	5331
17-Aug-2004	18000	18150	4833	4872
18-Aug-2004	16563	16691	4164	4159
19-Aug-2004	18000	18137	3675	3687
20-Aug-2004	17950	18071	3265	3293
21-Aug-2004	18000	18088	3401	3428
22-Aug-2004	16750	16897	3332	3359
23-Aug-2004	15688	15821	3087	3113
24-Aug-2004	13825	13944	2872	2887
25-Aug-2004	11875	11975	2450	2474
26-Aug-2004	11638	11711	2846	2876
27-Aug-2004	12288	12384	2689	2715
28-Aug-2004	13513	13597	3050	3069
29-Aug-2004	12000	12099	2844	2869
30-Aug-2004	12000	12094	2525	2547
31-Aug-2004	23200	23380	5397	5438
Total MU	552.191	556.341	133.245	134.238
Max. MWH	24000	24193	5877	5927
Min MWH	11638	11711	2450	2474
Avg. MWH	17813	17946	4298	4330

X. Daily Generation Details of State Sector Stations

(All Figs in MUs)													Total
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)	
01	43.110	14.705	15.013	1.013	33.387	2.254	48.939	6.970	13.389	14.692	11.898	2.90	208.27
02	43.336	14.097	14.236	1.046	32.650	2.005	49.770	7.168	12.686	14.856	11.012	2.63	205.49
03	43.299	13.633	14.382	1.084	32.886	2.116	50.295	6.316	13.987	14.604	10.641	2.38	205.63
04	42.322	14.116	14.863	1.079	32.477	2.190	48.904	5.950	13.640	15.303	10.596	2.57	204.01
05	41.133	13.694	14.160	1.068	34.424	1.961	49.387	6.149	13.059	15.456	10.732	2.40	203.62
06	42.405	13.706	14.259	1.055	35.237	1.993	50.702	5.942	13.132	14.131	10.881	2.36	205.80
07	42.777	14.025	14.939	0.839	35.069	2.153	51.161	5.851	12.473	11.893	11.129	2.37	204.68
08	43.087	13.604	14.792	1.229	36.500	2.152	49.268	6.226	11.923	13.340	11.101	2.08	205.30
09	42.001	14.016	15.514	1.285	40.023	1.814	47.409	6.653	11.787	14.150	11.976	2.26	208.89
10	43.072	13.994	13.409	1.211	40.971	1.979	49.000	6.683	11.280	14.750	12.989	1.97	211.30
11	41.317	13.980	14.079	1.227	40.369	2.296	45.491	6.821	11.704	14.475	12.077	2.05	205.89
12	38.406	14.274	13.947	1.337	39.398	2.872	44.931	5.999	12.643	14.600	12.465	2.19	203.06
13	42.940	13.440	14.724	1.337	38.697	3.761	45.894	6.633	12.710	15.703	12.651	1.99	210.48
14	43.449	13.320	14.642	1.343	40.844	3.365	39.340	4.812	12.306	15.425	12.194	2.04	203.08
15	43.413	13.583	14.462	1.147	39.488	3.445	38.351	5.405	12.815	14.541	13.667	1.90	202.22
16	43.331	11.259	10.474	1.333	36.545	3.763	43.113	6.300	13.013	15.225	12.004	1.91	198.27
17	42.314	10.456	13.926	1.346	36.198	3.182	45.736	5.693	13.055	14.652	9.989	2.04	198.58
18	43.154	9.709	12.116	1.372	40.479	4.115	40.635	5.990	12.533	14.502	9.523	2.03	196.16
19	43.463	10.234	14.055	1.377	42.741	4.292	42.630	5.574	12.170	13.850	8.525	2.13	201.03
20	43.266	9.902	15.859	1.330	43.843	4.387	45.684	4.980	12.394	14.937	8.459	2.16	207.20
21	42.683	9.851	14.837	1.353	42.361	4.562	49.464	5.089	11.984	14.897	8.162	2.14	207.38
22	43.168	9.166	14.631	1.333	43.513	5.157	43.260	5.009	11.966	14.769	8.533	2.16	202.67
23	42.919	9.412	13.667	1.325	42.430	5.089	43.899	4.336	10.874	13.166	7.964	1.97	197.05
24	43.150	9.302	13.875	1.317	43.810	5.200	45.465	5.831	11.072	15.498	7.268	2.06	203.85
25	43.246	9.337	15.225	1.288	44.197	5.054	40.828	6.148	11.741	15.536	6.364	1.88	200.84
26	42.475	9.214	14.854	1.216	43.415	5.001	44.000	5.980	11.305	15.682	6.089	1.96	201.19
27	40.709	9.201	14.920	1.227	44.218	4.866	44.940	5.732	11.091	16.004	6.441	1.74	201.09
28	42.645	9.187	16.221	1.299	43.638	4.649	45.159	5.999	10.878	15.800	6.744	1.56	203.77
29	38.853	8.619	17.147	1.164	43.591	4.647	45.439	5.930	10.795	16.665	6.257	1.62	200.73
30	37.889	8.999	14.534	1.182	44.230	4.363	47.819	5.871	10.667	15.467	5.701	2.04	198.76
Maximum	43.46	14.71	17.15	1.38	44.23	5.20	51.16	7.17	13.99	16.66	13.67	2.90	211.30
Minimum	37.89	8.62	10.47	0.84	32.48	1.81	38.35	4.34	10.67	11.89	5.70	1.56	196.16
Average	42.31	11.73	14.46	1.23	39.59	3.49	45.90	5.93	12.17	14.82	9.80	2.12	203.54
Month Total	1269.33	352.04	433.76	36.76	1187.63	104.68	1376.91	178.04	365.07	444.57	294.03	63.49	6106.31

XI. Performance Of Generating Stations

S.No.	Power Station	Effective Capacity MW	Energy Generated during September, 2004 (Ex Bus MU)	Cummulative from 01.04.2004 (Ex-bus MU)
1	CENTRAL SECTOR			
A	NTPC (Thermal)			
(a)	Badarpur TPS	705.00	456.97	2594.93
(b)	Singrauli STPS	2000.00	1256.44	6981.21
(c)	Rihand STPS	1000.00	437.04	3535.94
(d)	Dadri NCTPS	840.00	535.77	3066.21
(e)	Unchahar-I TPS	420.00	191.82	1497.57
(f)	Unchahar-II TPS	420.00	278.45	1417.09
(g)	Tanda TPS	440.00	213.09	1385.69
(h)	Anta GPS	419.33	259.86	1379.93
(i)	Auraiya GPS	663.36	352.01	2181.74
(j)	Dadri GPS	829.78	477.92	2735.23
(k)	Faridabad GPS	431.57	281.26	1589.35
	Total NTPC	8169.04	4740.62	28364.89
B	NHPC			
(a)	Bairasiul	180.00	41.37	375.72
(b)	Salal	690.00	362.98	2445.51
(c)	Tanakpur HPS	94.20	67.70	294.51
(d)	Chamera HPS	540.00	146.84	1398.18
(e)	Uri HPS	480.00	118.81	1407.27
(f)	Chamera2 HPS	300.00	128.79	972.90
	Total NHPC	2284.20	866.49	6894.09
C	Nathpa-Jhakri	1500.00	532.98	3843.79
D	NPC			
(a)	RAPS -A	300.00	121.16	576.84
(b)	RAPS -B	440.00	141.66	1081.24
(c)	NAPS	440.00	153.84	1008.14
	Total NPC	1180.00	416.65	2666.22
2	JOINTLY OWNED (BBMB)			
(a)	Bhakra Complex	1490.15	429.26	2512.94
(b)	Dehar	990.00	352.26	2095.44
(c)	Pong	396.00	89.29	453.31
	Total BBMB	2876.15	870.81	5061.69
3	DELHI			
(a)	Indra Prastha	247.50	69.98	418.89
(b)	Rajghat	135.00	47.38	344.73
(c)	Gas Turbines	282.00	107.35	751.01
(d)	Pragati Gas	330.00	222.64	1250.01
	Total DELHI	994.50	447.34	2764.64
4	HARYANA			
(a)	WYC	62.40	37.14	154.95
(b)	Faridabad (New)	165.00	66.37	366.21
(c)	Panipat	860.00	418.77	2428.30
(d)	Magnum Diesel(IPP)	25.20	7.58	45.68
	Total Haryana	1112.60	529.86	2995.13

contd/-

5	HP			
(a)	Giri	60.00	18.87	80.43
(b)	Bassi	60.00	25.77	189.02
(c)	Binwa	6.00	3.14	16.69
(d)	Rongtong (+Nogli+Micro+Thirot+Sal-2)	15.25	3.85	12.07
(e)	Andhra	16.95	7.19	32.05
(f)	Bhabha (H)	120.00	66.32	450.03
(g)	Baner (H)	12.00	3.14	24.71
(h)	Gaj (H)	10.50	4.42	28.55
(i)	Gumma	3.00	0.08	3.02
(j)	Ghanvi	22.50	7.86	47.28
(k)	Malana (IPP)	86.00	32.37	208.60
(l)	Baspa (IPP)	300.00	154.89	981.97
	Total HP	712.20	327.89	2074.43
6	J & K			
(a)	Lower Jhelum	105.00	24.01	269.30
(b)	Upper Sindh	127.60	30.52	105.33
(c)	Ganderbal	15.00	3.28	12.11
(d)	Mohra	9.00	0.00	0.00
(e)	Chenani	32.80	7.02	55.32
(f)	Stakna	9.75	0.00	0.00
(g)	Small Hydel	3.54	0.69	3.80
(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	65.52	445.86
7	PUNJAB			
(a)	Jogindernagar/ Shanan	110.00	45.90	360.85
(b)	UBDC	90.00	45.75	243.95
(c)	Mukerian	207.00	80.85	475.88
(d)	Anandpur Sahib (APS)	134.00	33.08	324.61
(e)	Ranjit Sagar HPS	600.00	123.20	737.24
(f)	Small Hydel	4.10	0.00	0.21
(g)	GNDTPS (Bhatinda)	440.00	175.02	910.28
(h)	GGSTPS (Ropar)	1260.00	809.35	4607.56
(i)	Jhalkeri	10.00	0.00	0.85
	Peda & Sugarmill		6.00	18.11
(j)	Lehra Mohabbat TPS	420.00	273.56	1424.29
	Total Punjab	3275.10	1592.70	9103.83
8	RAJASTHAN			
(a)	Mahi Bajaj Sagar	140.00	40.78	117.86
(b)	Rana Pratap Sagar (RPS)	172.00	38.26	39.80
(c)	Jawahar Sagar (JS)	99.00	26.13	52.25
(d)	Gandhi sagar	115.00		
(d)	ACW	9.00	0.96	4.65
(e)	MMH	14.85	0.51	0.82
(f)	Kota TPS	1045.00	487.61	3173.88
(g)	RAMGARH GT	3.00		
(h)	RAMGARH GT EXT	35.50	28.90	122.51
(i)	Suratgarh TPS	1250.00	677.20	4040.84
(j)	Wind Farm	14.01	30.44	240.51
(k)	Others		3.72	15.43
	Total Rajasthan	2782.36	1334.51	7808.55

contd/-

9	U.P.			
	<u>HYDRO</u>			
(a)	Rihand	300.00	95.47	383.93
(b)	Obra	99.00	39.06	162.65
(c)	Matatilla	30.00	8.31	61.51
(d)	Khara	72.00	34.98	173.20
	Total U.P. (Hydro)	501.00	177.83	781.31
	<u>THERMAL</u>			
(e)	Obra	1442.00	372.95	2221.99
(f)	Panki	242.00	74.79	492.63
(g)	Harduaganj	375.00	34.75	309.92
(h)	Paricha	220.00	73.02	458.54
(i)	Anpara	1630.00	823.82	4926.00
	Total U.P. (Thermal)	3909.00	1379.34	8409.08
	Total U.P.	4410.00	1557.17	9190.38
10	UTTRANCHAL			
(a)	Khatima	41.40	22.31	102.26
(b)	Ramganga	198.00	0.00	52.58
(c)	Ganga Canal	32.70	14.83	83.21
(d)	Yamuna (I & IV)	114.75	119.72	529.41
(e)	Chibro	240.00	73.10	392.10
(f)	Khodri	120.00	35.25	183.31
(g)	Chilla	144.00	98.11	452.35
(h)	Maneri Bhali	90.00	0.00	0.00
(i)	Sibla+Small hydel	18.20		
	Total Uttranchal	999.05	363.32	1795.21
11	CHANDIGARH			
	Diesel gen set	1.40		
	Total Region	30790.47	13645.84	83008.71

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 SEPTEMBER 2004**(ALL FIGS IN MUs)**

FROM / TO	PUNJAB	HARYANA	RAJASTHAN	DELHI	UP	UTTRANCHAL	HP	J & K	CHANDIGARH	MALANA
PUNJAB	-	-	-		-	39.800****	14.644****	15.237****	-	-
HARYANA	-	-	-		-	-	11.15**** 26.398*	-	-	
RAJASTHAN		-	-		-	-	-	-		
DELHI	-		-		-	-	143.21****	-	-	-
UP	-	-	-	-	-	-	-	-	-	-
UTTRANCHAL		-	-	-	-	-	-	-	-	-
HP		-	-				-	-	-	-
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 September 2004

(ALL FIGS IN MUs)

FROM / TO	GRIDCO	GUJRAT	WBPCL	MPEB	APTRCO	DVC	ASSAM	GOA	ARUNANCHAL
PUNJAB	43.375*WR+71.550*		22.960*+93.01***WR	9.00*		12.510*WR	134.27*+14.855*WR	-	
HARYANA	71.550*+107.332***								
RAJASTHAN	-	-					-	-	
DELHI						--			
UP			66.925*						
UTTRANCHAL	-	-		-	-	-	-	-	
J & K	-	-			-	-	-	-	
CHANDIGARH						8.18*WR			

* Through PTC

(+) Import by NR constituents

** Through Global Energy Limited

(-) Export by NR constituents

*** Throgh NVVN

**** Through ADANI

REMARKS : are provisional and indicative only

POWERGRID CORPORATION OF INDIA LTD.
NRLDC, New Delhi

Smmary of inter regional exchanges for september 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	92	269	500	0	6.98	0.00	6.98	0	0	0	0	0.00	0.00	0.00
02	91	262	500	0	6.78	0.00	6.78	0	0	0	0	0.00	0.00	0.00
03	141	319	500	0	7.91	0.00	7.91	0	0	0	0	0.00	0.00	0.00
04	142	406	450	0	8.41	0.00	8.41	0	0	0	0	0.00	0.00	0.00
05	200	450	500	0	8.76	0.00	8.76	0	0	0	0	0.00	0.00	0.00
06	56	300	500	0	7.94	0.00	7.94	0	0	0	0	0.00	0.00	0.00
07	150	500	500	0	9.32	0.00	9.32	0	0	0	0	0.00	0.00	0.00
08	91	350	500	0	8.22	0.00	8.22	0	0	0	0	0.00	0.00	0.00
09	91	228	500	0	6.70	0.00	6.70	0	0	0	0	0.00	0.00	0.00
10	91	350	500	0	6.30	0.00	6.30	0	0	0	0	0.00	0.00	0.00
11	91	400	450	0	6.71	0.00	6.71	0	0	0	0	0.00	0.00	0.00
12	150	300	400	0	6.35	0.00	6.35	0	0	0	0	0.00	0.00	0.00
13	250	300	450	0	7.62	0.00	7.62	0	0	0	0	0.00	0.00	0.00
14	300	400	500	0	9.45	0.00	9.45	0	0	0	0	0.00	0.00	0.00
15	91	500	500	0	7.10	0.00	7.10	0	0	0	0	0.00	0.00	0.00
16	91	269	400	0	5.94	0.00	5.94	0	0	0	0	0.00	0.00	0.00
17	91	374	450	0	7.51	0.00	7.51	0	0	0	0	0.00	0.00	0.00
18	250	374	475	0	8.71	0.00	8.71	0	0	0	0	0.00	0.00	0.00
19	225	450	500	0	9.40	0.00	9.40	0	0	0	0	0.00	0.00	0.00
20	91	391	450	0	7.29	0.00	7.29	0	0	0	0	0.00	0.00	0.00
21	46	377	377	0	6.90	0.00	6.90	0	0	0	0	0.00	0.00	0.00
22	50	377	500	0	8.23	0.00	8.23	0	0	0	0	0.00	0.00	0.00
23	350	450	500	0	10.27	0.00	10.27	0	0	0	0	0.00	0.00	0.00
24	200	500	500	0	10.84	0.00	10.84	0	0	0	0	0.00	0.00	0.00
25	250	500	500	0	10.48	0.00	10.48	0	0	0	0	0.00	0.00	0.00
26	200	500	500	0	10.20	0.00	10.20	0	0	0	0	0.00	0.00	0.00
27	350	500	500	0	11.04	0.00	11.04	0	0	0	0	0.00	0.00	0.00
28	200	500	500	0	10.39	0.00	10.39	0	0	0	0	0.00	0.00	0.00
29	141	500	500	0	9.86	0.00	9.86	0	0	0	0	0.00	0.00	0.00
30	150	450	500	0	9.83	0.00	9.83	0	0	0	0	0.00	0.00	0.00
Maximum	350	500	500	0	11.04	0.00	11.04	0	0	0	0	0.00	0.00	0.00
Minimum	46	228	377	0	5.94	0.00	5.94	0	0	0	0	0.00	0.00	0.00
Average	157	395	480	0	8.38	0.00	8.38	0	0	0	0	0.00	0.00	0.00
Month Total					248.67	0.00	248.67					0.00	0.00	0.00

POWERGRID CORPORATION OF INDIA LTD.
NRLDC, New Delhi

Smmary of inter regional exchanges for september 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	338	450	500	0	10.32	0.00	10.32
02	0	0	0	0	0.00	0.00	0.00	338	500	500	0	11.13	0.00	11.13
03	0	0	0	0	0.00	0.00	0.00	400	338	500	0	11.70	0.00	11.70
04	0	0	0	0	0.00	0.00	0.00	450	450	500	0	10.41	0.00	10.41
05	0	0	0	0	0.00	0.00	0.00	388	450	500	0	10.17	0.00	10.17
06	0	0	0	0	0.00	0.00	0.00	400	500	500	0	11.08	0.00	11.08
07	0	0	0	0	0.00	0.00	0.00	338	450	500	0	10.64	0.00	10.64
08	0	0	0	0	0.00	0.00	0.00	338	400	500	0	9.70	0.00	9.70
09	0	0	0	0	0.00	0.00	0.00	338	384	450	0	9.32	0.00	9.32
10	0	0	0	0	0.00	0.00	0.00	338	360	384	0	8.79	0.00	8.79
11	0	0	0	0	0.00	0.00	0.00	400	450	450	0	9.54	0.00	9.54
12	0	0	0	0	0.00	0.00	0.00	400	434	500	0	10.07	0.00	10.07
13	0	0	0	0	0.00	0.00	0.00	438	400	475	0	10.18	0.00	10.18
14	0	0	0	0	0.00	0.00	0.00	338	410	438	0	9.09	0.00	9.09
15	0	0	0	0	0.00	0.00	0.00	338	450	450	0	9.14	0.00	9.14
16	57	0	0	57	0.00	0.53	-0.53	338	384	434	0	8.31	0.00	8.31
17	75	42	0	98	0.00	1.29	-1.29	338	384	450	0	9.30	0.00	9.30
18	90	83	0	99	0.00	1.99	-1.99	338	450	450	0	10.03	0.00	10.03
19	55	89	0	99	0.00	2.02	-2.02	338	400	450	0	9.48	0.00	9.48
20	-71	-85	0	90	0.00	1.75	-1.75	338	350	450	0	9.13	0.00	9.13
21	-96	-92	0	101	0.00	2.15	-2.15	338	384	384	0	8.96	0.00	8.96
22	0	0	0	0	0.00	0.00	0.00	338	384	450	0	8.79	0.00	8.79
23	0	0	0	0	0.00	0.00	0.00	338	384	450	0	9.86	0.00	9.86
24	0	0	0	0	0.00	0.00	0.00	438	384	450	0	10.19	0.00	10.19
25	0	0	0	0	0.00	0.00	0.00	450	450	500	0	10.86	0.00	10.86
26	0	0	0	0	0.00	0.00	0.00	388	450	500	0	10.42	0.00	10.42
27	0	0	0	0	0.00	0.00	0.00	450	500	500	0	10.46	0.00	10.46
28	0	0	0	0	0.00	0.00	0.00	400	450	500	0	10.93	0.00	10.93
29	0	0	0	0	0.00	0.00	0.00	400	480	500	0	10.63	0.00	10.63
30	0	0	0	0	0.00	0.00	0.00	400	450	500	0	9.09	0.00	9.09
Maximum	90	89	0	101	0.00	2.15	0.00	450	500	500	0	11.70	0.00	11.70
Minimum	-96	-92	0	0	0.00	0.00	-2.15	338	338	384	0	8.31	0.00	8.31
Average	4	1	0	18	0.00	0.32	-0.32	374	424	471	0	9.92	0.00	9.92
Month Total					0.00	10.53	-10.53					297.48	0.00	297.48

Smmary of inter regional exchanges for september 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	0.80	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
Maximum	0.00	0.00	0.00	0.00	0.00	0.80	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	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Month Tota					0.00	0.80	0.00					0.00	0.00	0.00

POWERGRID CORPORATION OF INDIA LTD.
NRLDC, New Delhi

Smmary of inter regional exchanges for september 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	135	145	150	0	3.07	0.00	3.07	0	0	0	0	0.00	0.00	0.00
02	100	130	146	0	3.19	0.00	3.19	0	0	0	0	0.00	0.00	0.00
03	128	142	167	0	3.35	0.00	3.35	0	0	0	0	0.00	0.00	0.00
04	100	130	160	0	3.42	0.00	3.42	0	0	0	0	0.00	0.00	0.00
05	118	145	159	0	3.30	0.00	3.30	0	0	0	0	0.00	0.00	0.00
06	115	85	140	0	3.31	0.00	3.31	0	0	0	0	0.00	0.00	0.00
07	100	150	150	0	3.28	0.00	3.28	0	0	0	0	0.00	0.00	0.00
08	152	145	152	0	3.33	0.00	3.33	0	0	0	0	0.00	0.00	0.00
09	156	147	158	0	3.51	0.00	3.51	0	0	0	0	0.00	0.00	0.00
10	100	150	150	0	3.48	0.00	3.48	0	0	0	0	0.00	0.00	0.00
11	125	160	165	0	3.25	0.00	3.25	0	0	0	0	0.00	0.00	0.00
12	120	150	150	0	3.33	0.00	3.33	0	0	0	0	0.00	0.00	0.00
13	100	140	170	0	3.38	0.00	3.38	0	0	0	0	0.00	0.00	0.00
14	140	150	167	0	3.29	0.00	3.29	0	0	0	0	0.00	0.00	0.00
15	135	140	165	0	3.42	0.00	3.42	0	0	0	0	0.00	0.00	0.00
16	155	150	155	0	3.43	0.00	3.43	0	0	0	0	0.00	0.00	0.00
17	165	155	165	0	3.55	0.00	3.55	0	0	0	0	0.00	0.00	0.00
18	133	150	160	0	3.10	0.00	3.10	0	0	0	0	0.00	0.00	0.00
19	90	140	160	0	3.21	0.00	3.21	0	0	0	0	0.00	0.00	0.00
20	117	135	177	0	3.27	0.00	3.27	0	0	0	0	0.00	0.00	0.00
21	110	140	165	0	3.24	0.00	3.24	0	0	0	0	0.00	0.00	0.00
22	85	173	175	0	3.12	0.00	3.12	0	0	0	0	0.00	0.00	0.00
23	118	172	173	0	3.23	0.00	3.23	0	0	0	0	0.00	0.00	0.00
24	90	165	170	0	3.24	0.00	3.24	0	0	0	0	0.00	0.00	0.00
25	120	130	155	0	3.22	0.00	3.22	0	0	0	0	0.00	0.00	0.00
26	130	130	155	0	3.48	0.00	3.48	0	0	0	0	0.00	0.00	0.00
27	100	85	160	0	3.18	0.00	3.18	0	0	0	0	0.00	0.00	0.00
28	120	130	165	0	3.43	0.00	3.43	0	0	0	0	0.00	0.00	0.00
29	110	90	170	0	3.34	0.00	3.34	0	0	0	0	0.00	0.00	0.00
30	115	165	170	0	3.41	0.00	3.41	0	0	0	0	0.00	0.00	0.00
Maximum	165	173	177	0	3.55	0.00	3.55	0	0	0	0	0.00	0.00	0.00
Minimum	85	85	140	0	3.07	0.00	3.07	0	0	0	0	0.00	0.00	0.00
Average	119	141	161	0	3.31	0.00	3.31	0	0	0	0	0.00	0.00	0.00
Month Total					98.09	0.00	98.09					0.00	0.00	0.00

XV. Status Of Installation Of Shunt Capacitors As On 30.09.2004**(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 30.09.2004	Balance not installed during 2004-05	Capacitors installed as on 30.09.2004
DELHI	3135	** 3021	567	-	161	406	3182
HARYANA	2920	3269	141	500	81	60	3350
PUNJAB	4564	4721	551	500	64	487	4785
RAJASTHAN	2650	2895	189	500	157	32	3052
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	463	2592	20625

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

XVI. Hydraulic Data For Reservoirs During September 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 SEPTEMBER 2004 (m)	487.34 1598.88	409.29 1342.81	257.62 845.20	349.30 1146.01	394.79 1295.24
Level on last day of SEPTEMBER 2003 (m)	509.03 1670.05	416.41 1366.19	265.60 871.40	347.61 1140.44	388.28 1273.90
Live Capacity as on (mhmt) last day of SEPTEMBER 2004 (m)	0.38 3.08	0.30 2.43	0.13 1.05	0.06 0.49	0.39 3.16
Live Capacity as on (mhmt) last day of SEPTEMBER 2003 (m)	0.63 5.07	0.48 3.86	0.44 3.55	0.06 0.52	0.17 1.38
Energy content as on last day of SEPTEMBER 2004 (MU)	1250.00	465.00	200.00	175.00	1080.00
Energy content as on last day of SEPTEMBER 2003 (MU)	2550.00	720.00	850.00	120.00	450.00
Maximum level (m) (ft) (date)	487.40 1599.08 24.09.2004	409.74 1344.29 18.09.2004	258.14 846.90 01.09.2004	349.41 1146.36 01.09.2004	395.39 1297.21 01.09.2004
Minimum level (m) (ft) (date)	484.69 1590.19 01.09.2004	409.13 1342.30 10.09.2004	257.34 844.30 19.09.2004	349.30 1146.01 30.09.2004	394.79 1295.24 30.09.2004

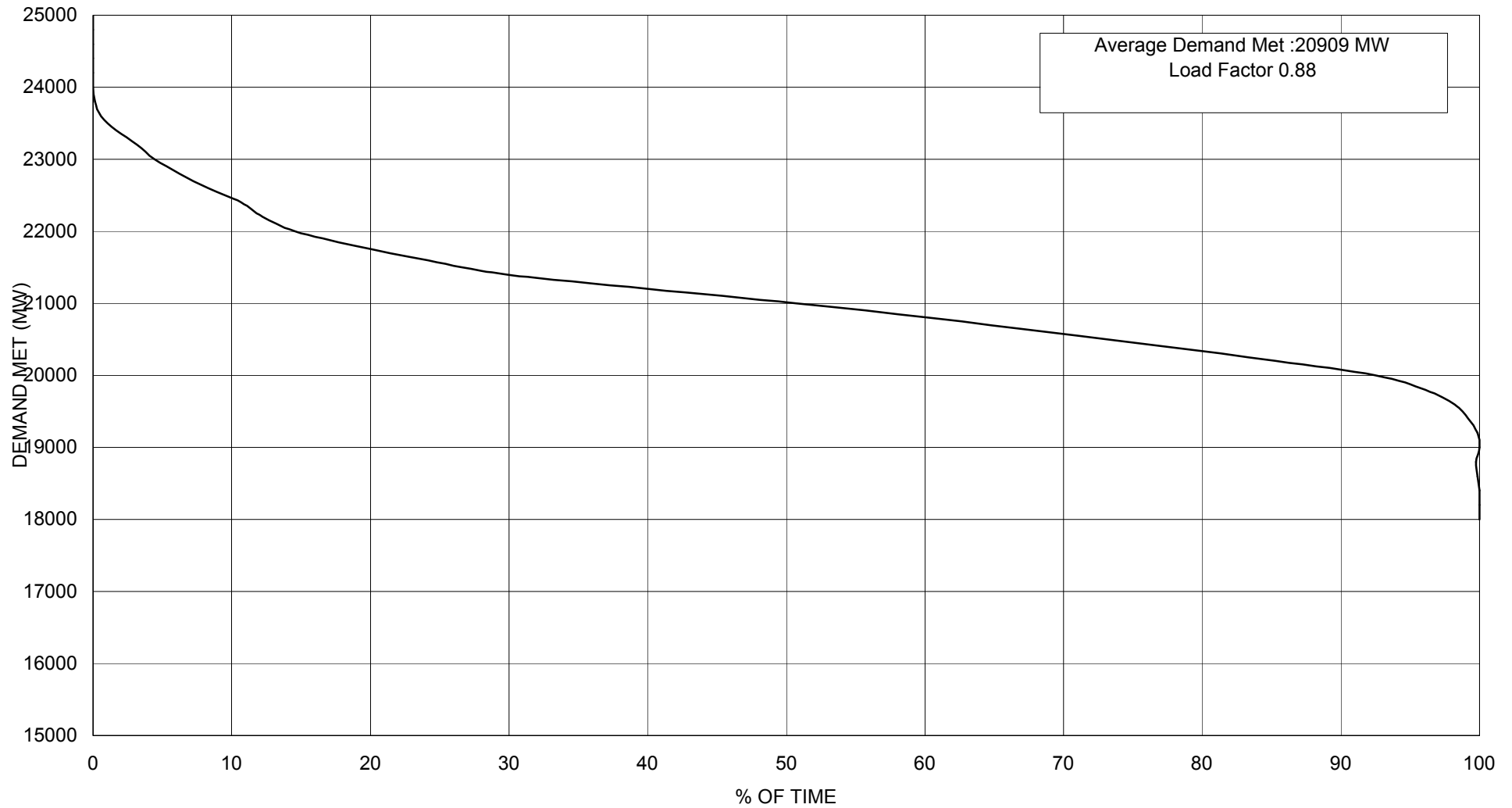
Energy content of Bhakra : Total Energy content at Bhakra, Ganguwal and Kotla power stations

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

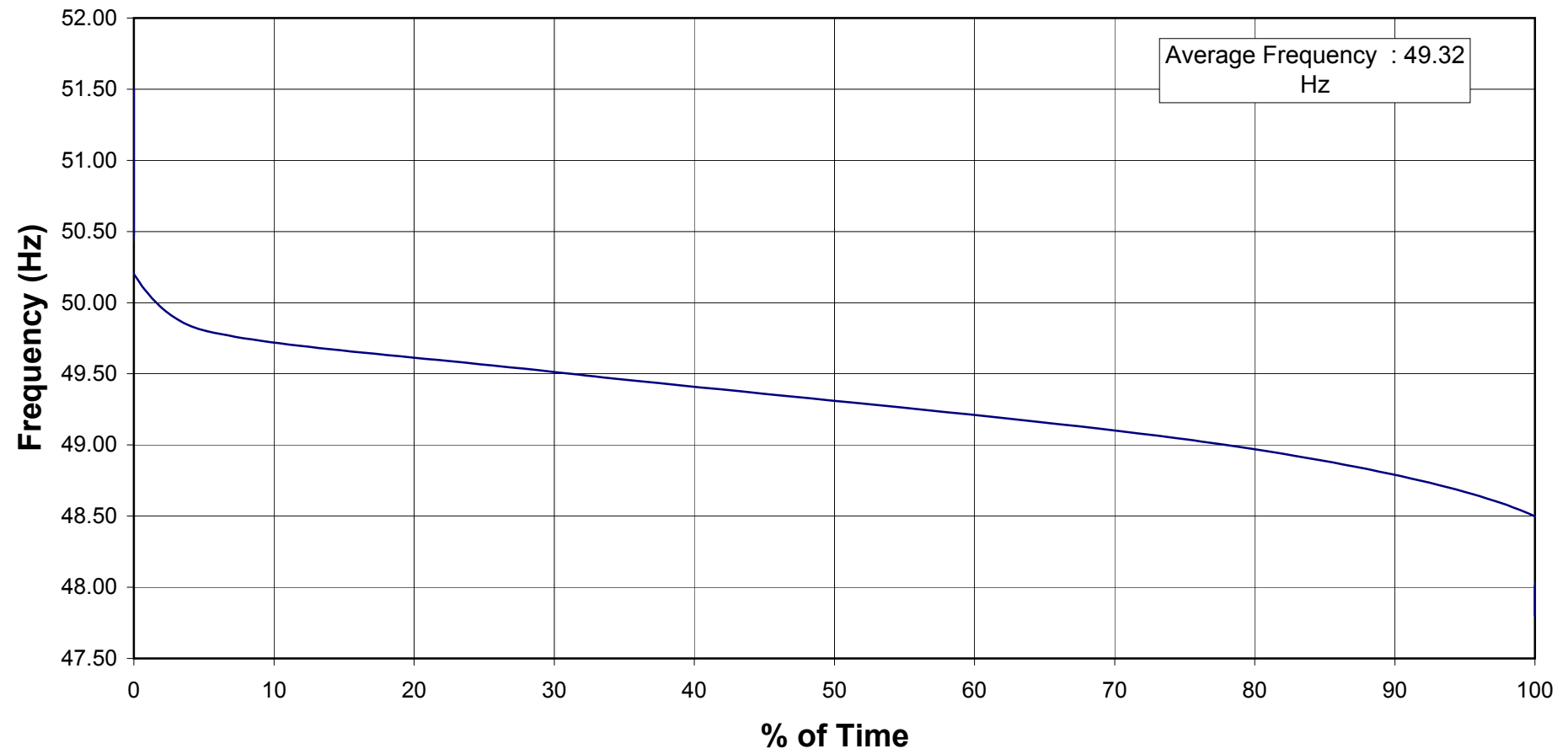
Energy content of RPS : Total Energy content of Rana Pratap Sagar and Jawahar Sagar Power Stations.

Energy Content of G. Sagar : Total Energy content at Gandhi Sagar, RP Sagar and Jawahar Sagar Power Stations.

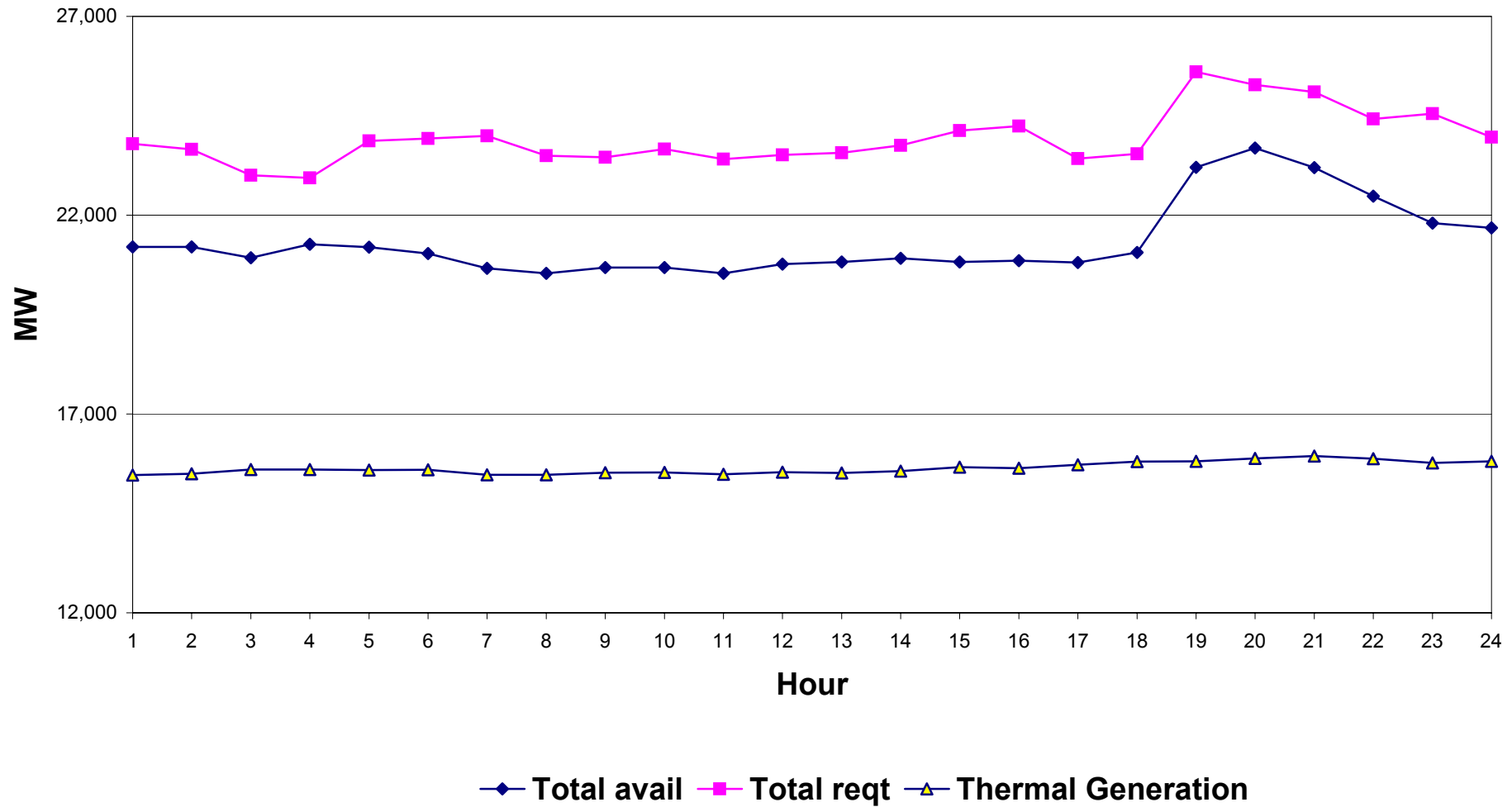
Load Duration Curve For Northern Region For SEPTEMBER 2004



Frequency Duration Curve For Northern Region For September 2004



Load Curve Of Northern Region For Maximum Demand Met Day (20th September 2004)



Load Curve Of Northern Region For Minimum Demand Met Day (25th September 2004)

