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NORTHERN REGION GRID REPORT FOR THE MONTH OF JANUARY 2005

A) Summary Report

1. Grid Overview during the Month

In the month of January 2005 the Power supply in the region was satisfactory . The average energy and peak MW shortages were 11.02% and 10.03%. The average system frequency was 49.34 Hz and frequency remained in normal band i.e. between 49.00 & 50.50 for 76.18 % of time . The average frequency variation index during the month was 6.19 and standard deviation was 0.43 . The maximum regional availability during the month was 22490 MW . The average demand met was 18939 MW and 421.05 MU in terms of energy . The maximum requirement was 24997 MW and average requirement was 473.22 MU in terms of energy.

There was a considerable improvement in voltage profile on most of the 400 KV/220KV buses during this month .

.There was no major grid incident during the month . However there was a minor incident which is reported at annexure-6.

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

- 1 Rihand Stage-II unit-3 (500 MW) commissioned on 31.01.2005**
- 2 Panipat unit-8 (210 MW) test synchronised during this month.**

3. Monthly Frequency Profile :

Maximum frequency 50.68 Hz at 02.18 hours on 28.01.2005
 Minimum frequency 48.49 Hz at 18.10 hours on 13.01.2005

Average frequency 49.34 Hz

Frequency distribution in %

Hz	< 48.50	<49.00	49.00-50.50	> 50.50
% of time	0.01	23.57	76.18	0.24

Monthly Frequency Variation Index 6.19
 Maximum 11.88
 Minimum 1.93

4. Power Supply Position :

a. Average Energy/day (Net)

State / U.T.	Demand met MU/Day	Requirement MU/Day	Shortage MU/Day	Shortage %
Punjab	63.17	73.28	10.11	13.80
Haryana	52.36	59.00	6.64	11.25
Rajasthan	90.17	93.90	3.73	3.98
U.P.	112.03	133.87	21.84	16.31
Uttanchal	12.72	13.63	0.91	6.69
Delhi	53.29	54.38	1.09	2.00
H.P.	10.61	12.47	1.86	14.95
J & K *	22.13	28.11	5.98	21.27
Chandigarh	3.01	3.01	0.00	0.00
N.F.F./Rail	1.57	1.57	0.00	0.00
Total	421.05	473.22	52.17	11.02

b. Peak MW

State / U.T.	MAX. Demand met MW	MAX. Requirement MW	Shortage MW	Shortage %
	A	B	C	(C/B)*100
Punjab	3725	4148	423	10.20
Haryana	3080	3625	545	15.03
Rajasthan	4487	4634	147	3.17
U.P.	5824	7619	1795	23.56
Uttanchal	793	850	57	6.71
Delhi	3122	3282	160	4.88
H.P.	627	695	68	9.78
J & K *	1190	1350	160	11.85
Chandigarh	171	171	0	0.00
N.F.F./Rail	70	70	0	0.00
Region	22490	24997	2507	10.03
Diversity Factor = 1.07				

* Approximate and Estimated

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

(All figs in M.U)

State / U.T.	Schedule	Actual	OD(+)/UD(-)
Punjab	715.75	660.77	-54.98
Haryana	667.69	738.99	71.30
Rajasthan	908.59	1012.82	104.23
U.P.	1647.88	1631.90	-15.98
Uttaranchal	215.17	216.24	1.07
Delhi	799.65	712.11	-87.54
H.P.	248.02	249.76	1.74
J & K	504.92	633.26	128.34
Chandigarh	101.41	97.21	-4.20
N.F.F./Rail	64.61	48.74	-15.87

6. **Inter Regional Exchanges**

	Energy M.U.	Peak MW
<u>Import</u>		
a) From WR over HVDC Vindhyachal B/B	86.62	500
b) From WR over 220 kV Ujjain-Kota	0.00	0
c) From ER over HVDC Sasaram B/B	297.66	500
d) From ER over 220 kV Pusauli-Sahupuri	92.34	190
<u>Export</u>		
e) To WR over HVDC Vindhyachal B/B	0.90	300
f) To WR (MP) over 220 kV Auraiya-Malanpur	14.05	41
g) To WR(MP) over 220 kV Kota-Ujjain	0.00	0
h) To ER over 220 kV/132kV lines	3.01	27
i) To ER over HVDC Sasaram B/B	0.00	0
j) To Nepal over 132 kV Tanakpur-Mahendernagar	7.94	30

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

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

contd/-

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

contd/-

J & K (Contd.)					
	GAS TURBINES				
(h)	Pampore GT St - I	3x25.0	75.00	3x25.0	75.00
	Pampore GT St - II	4x25.0	100.00	4x25.0	100.00
9h)	Total Gas		175.00		175.00
(I)	Diesel Gen. Sets		8.94		7.18
	Total J & K		495.63		493.87
8	PUNJAB				
	HYDRO				
(a)	Jogindernagar/ Shanan	4x15+1x50	110.00	4x15+1x50	110.00
(b)	Upper Behari Doab Canal (UBDC)	3x15+3x15	90.00	3x15+3x15	90.00
(c)	Mukerian	6x15+6x19.5	207.00	6x15+6x19.5	207.00
(d)	Anandpur Sahib (APS)	4x33.5	134.00	4x33.5	134.00
(e)	Ranjit Sagar HPS	4x150	600.00	4x150	600.00
(f)	Small Hydel		4.10	4.10	4.10
	Total Hydro		1145.10		1145.10
	THERMAL				
(g)	Guru Nanak Dev TPS (Bhatinda)	4x110	440.00	4x110	440.00
(h)	Guru Gobind Singh TPS (Ropar)	6x210	1260.00	6x210	1260.00
(i)	Lehra Mohabbat TPS	2x210	420.00	2x210	420.00
(j)	Jhalkeri Rice Straw Fired	1x10	10.00	1x10	10.00
	Total Thermal		2130.00		2130.00
	Total Punjab		3275.10		3275.10
9	RAJASTHAN				
	HYDRO				
(a)	Mahi Bajaj Sagar	2x25+2x45	140.00	2x25+2x45	140.00
(b)	Rana Pratap Sagar (RPS)	4x43	172.00	4x43	172.00
(c)	Jawahar Sagar (JS)	3x33	99.00	3x33	99.00
(d)	Anoopgarh	6x1.5	9.00	6x1.5	9.00
(e)	Small Hydro		14.85	14.85	14.85
(f)	Gandhi Sagar	5x23	115.00	5x23	115.00
	Total Hydro		434.85		434.85
	THERMAL				
(g)	Kota TPS	2x110+3x210 +1x195	1045.00	2x110+3x210 +1x195	1045.00
(h)	Suratgarh TPS	5x250	1250.00	5x250	1250.00
(i)	Ramgarh GT	1x3	3.00	1x3	3.00
(j)	Ramgarh GT EXT.	1x35.5	35.50	1x35.5	35.50
	Total Thermal		2333.50		2333.50
(J)	Wind farm		14.01	14.01	14.01
	Total Rajasthan		2782.36		2782.36

contd/-

10	UP				
	HYDRO				
(a)	Rihand	6x50.0	300.00	6x50.0	300.00
(b)	Obra	3x33.0	99.00	3x33.0	99.00
(c)	Matatilla	3x10.0	30.00	3x10.0	30.00
(d)	Khara	3x24.0	72.00		72.00
	Total Hydro		501.00		501.00
	THERMAL				
(g)	Obra	5x50	250.00	4x40	160.00
(h)	Obra Extn. - I	3x100	300.00	3x94	282.00
(i)	Obra Extn. - II	5x200	1000.00	5x200	1000.00
(j)	Panki	1x32	32.00	1x32	32.00
(k)	Panki Extn.	2x110	220.00	2x105	210.00
(l)	Harduaganj - A	3x30	90.00	0	0.00
(m)	Harduaganj - B	2x50+2x60	220.00	1x40+2x55	150.00
(n)	Harduaganj - C	2x60+1x110	230.00	2x60+1x105	225.00
(o)	Paricha	2x110	220.00	2x110	220.00
(p)	Anpara - A	3x210	630.00	3x210	630.00
(q)	Anpara - B	2x500	1000.00	2x500	1000.00
	Total Thermal		4192.00		3909.00
	Total UP		4693.00		4410.00
11	UTTRANCHAL				
	HYDRO				
(a)	Khatima	3x13.8	41.40	3x13.8	41.40
(b)	Ramganga	3x66.0	198.00	3x66.0	198.00
(c)	Ganga Canal				
	Chitwa	2x1.5+		2x1.5+	
	Mohamedpur	3x3.1+		3x3.1+	
	Pathri	3x6.8	32.70	3x6.8	32.70
(d)	Yamuna (I & IV)				
	- Dhalipur	3x17.00+		3x17.00+	
	- Dhakrani	3x11.25+		3x11.25+	
	- Kulhal	3x10.00	114.75	3x10.00	114.75
(e)	Chibro	4x60.0	240.00	4x60.0	240.00
(f)	Khodri	4x30.0	120.00	4x30.0	120.00
(g)	Chilla	4x36.0	144.00	4x36.0	144.00
(h)	Maneri Bhali	3x30.0	90.00	3x30.0	90.00
(l)	Sibla+Small hydel		18.20		18.20
	Total Hydro		999.05		999.05
	Total Region (1 to 11)		31306.78		30780.62

SUMMARY OF THE EFFECTIVE GENERATING CAPACITY (MW)

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

Notes The above table does not take into account the shares of a state in Generating stations located in the neighbouring states. Such details are :

- (i) Haryana has one-third share in unit Nos. 2, 3, 4 at Indraprastha power stations of Delhi viz. 62.5 MW.
- (ii) HP has 25 % share in the Dhalipur, Dhakrani, Chibro and Khodri power houses of Uttranchal viz. 111.20 MW and 20 % share in the Kulhal and Khara hydro power houses viz. 20.40 MW. However, these shares are limited to actual physical drawals over designated transmission lines.
- (iii) HP has a fixed energy share (royalty) every month in the Shanan Power House of PSEB.
0.38 LU/Day to 2.22 LU/Day.
- (iv) HP has 4.6 % share in Ranjit Sagar Dam project of PSEB viz. 27.60 MW
- (iv) The shares of Rajasthan in Chambal and Satpura projects are as under :

CHAMBAL

PROJECT	LOCATED	INSTALLED CAPACITY (MW)
Gandhi Sagar	M.P.	5 x 23 = 115
Rana Pratap Sagar	Rajasthan	4 x 43 = 172
Jawahar Sagar	Rajasthan	3 x 33 = 99
	Total	386

Rajasthan has 50 % share in the Chambal Projects viz. 193 MW.

SATPURA

PROJECTS	LOCATED	INSTALLED CAPACITY (MW)
Satpura TPS	M.P.	5x62.5+200.0+3x210.0 = 1142.50

Rajasthan has 40 % share in the first five units of Satpura TPS viz 125 MW.

II. BREAKUP OF HYDRO CAPACITY (MW) IN NORTHERN REGION AS ON 31.01.2005

Agency / Source	Run-of -the -river	Reservoir	Total
NHPC	1264.00	1020.00	2284.00
BBMB	1145.30	1721.00	2866.30
SJVNL	0.00	1500.00	1500.00
DELHI	0.00	0.00	0.00
HARYANA	62.40	0.00	62.40
HP *	712.20	0.00	712.20
J&K	311.69	0.00	311.69
PUNJAB	545.10	600.00	1145.10
RAJASTHAN	262.85	172.00	434.85
UP	201.00	300.00	501.00
UTTRANCHAL	801.05	198.00	999.05
TOTAL	5305.59	5511.00	10816.59
PERCENTAGE	49.05%	50.95%	100%

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

III.

Frequency Profile

Date	% of Time Frequency in various frequency bands								
	< 48.00	< 48.50	< 49.00	<49.50	49.0-50.5	> 50.00	> 50.50	> 51.00	>51.50
01	0.00	0.00	8.85	43.51	90.97	19.06	0.17	0.00	0.00
02	0.00	0.00	2.64	28.37	97.36	30.94	0.00	0.00	0.00
03	0.00	0.00	10.53	54.92	89.47	6.95	0.00	0.00	0.00
04	0.00	0.00	24.40	82.89	75.60	1.15	0.00	0.00	0.00
05	0.00	0.00	22.58	81.31	77.42	0.10	0.00	0.00	0.00
06	0.00	0.00	25.40	81.54	74.60	0.45	0.00	0.00	0.00
07	0.00	0.00	18.23	83.48	81.77	0.55	0.00	0.00	0.00
08	0.00	0.00	15.01	76.69	84.99	3.68	0.00	0.00	0.00
09	0.00	0.00	14.49	75.78	85.51	3.68	0.00	0.00	0.00
10	0.00	0.00	24.72	81.20	75.28	0.32	0.00	0.00	0.00
11	0.00	0.00	27.15	90.59	72.85	0.38	0.00	0.00	0.00
12	0.00	0.00	33.91	90.16	66.09	0.14	0.00	0.00	0.00
13	0.00	0.00	46.52	91.74	53.48	0.00	0.00	0.00	0.00
14	0.00	0.00	39.20	93.13	60.80	0.31	0.00	0.00	0.00
15	0.00	0.00	34.28	91.59	65.72	1.22	0.00	0.00	0.00
16	0.00	0.00	16.25	68.82	83.75	3.99	0.00	0.00	0.00
17	0.00	0.00	29.31	65.49	70.69	12.15	0.00	0.00	0.00
18	0.00	0.00	25.28	71.15	74.72	3.06	0.00	0.00	0.00
19	0.00	0.00	51.75	95.24	48.25	0.00	0.00	0.00	0.00
20	0.00	0.00	62.78	96.91	37.22	0.63	0.00	0.00	0.00
21	0.00	0.00	63.96	94.03	36.04	0.87	0.00	0.00	0.00
22	0.00	0.00	29.65	68.82	70.35	3.58	0.00	0.00	0.00
23	0.00	0.00	7.53	38.37	90.59	28.96	1.88	0.00	0.00
24	0.00	0.00	34.76	71.39	65.24	8.26	0.00	0.00	0.00
25	0.00	0.00	16.16	75.99	83.84	1.08	0.00	0.00	0.00
26	0.00	0.00	15.83	47.81	84.17	9.93	0.00	0.00	0.00
27	0.00	0.00	14.47	50.23	85.42	10.24	0.10	0.00	0.00
28	0.00	0.00	10.00	40.02	85.35	27.35	4.65	0.00	0.00
29	0.00	0.00	15.60	55.61	84.40	11.50	0.00	0.00	0.00
30	0.00	0.00	8.85	36.08	91.04	20.73	0.10	0.00	0.00
31	0.00	0.00	2.01	28.38	97.81	36.26	0.17	0.00	0.00
Max	0.00	0.00	63.96	96.91	97.81	36.26	4.65	0.00	0.00
Min	0.00	0.00	2.01	28.37	36.04	0.00	0.00	0.00	0.00
Average	0.00	0.00	23.57	68.47	76.18	8.33	0.24	0.00	0.00

Frequency (Hz)				Average Frequency Hz	Frequency Variation Index
Maximum		Minimum			
Freq	Time	Freq	Time		
50.57	1:22	48.59	19:35	49.58	3.40
50.49	5:02	48.80	7:30	49.75	1.97
50.45	16:04	48.57	18:15	49.46	4.19
50.12	18:03	48.55	17:34	49.23	6.93
50.05	18:01	48.55	17:29	49.23	6.80
50.20	5:04	48.55	17:43	49.23	6.90
50.08	21:55	48.56	14:15	49.26	6.19
50.23	15:03	48.54	10:06	49.31	5.71
50.34	18:01	48.54	21:32	49.32	5.74
50.13	21:56	48.56	5:59	49.23	6.86
50.35	17:17	48.53	22:16	49.18	7.51
50.10	7:06	48.54	21:04	49.13	8.34
50.00	9:33	48.51	18:10	49.07	9.62
50.22	18:02	48.54	12:23	49.09	8.96
50.21	5:05	48.55	13:01	49.13	8.30
50.34	21:53	48.56	13:13	49.35	5.46
50.39	5:05	48.53	21:00	49.35	6.44
50.26	16:49	48.53	20:17	49.29	6.36
49.85	5:07	48.53	21:32	49.02	10.40
50.31	18:01	48.53	17:35	48.95	11.81
50.11	18:00	48.53	5:53	48.96	11.88
50.38	5:04	48.55	12:18	49.29	6.80
50.62	5:04	48.58	9:17	49.69	3.34
50.38	5:02	48.54	17:36	49.26	7.52
50.13	18:02	48.53	22:10	49.31	5.73
50.34	16:05	48.56	8:43	49.49	4.24
50.54	23:56	48.56	11:26	49.48	4.34
50.68	2:18	48.56	18:25	49.69	3.62
50.49	18:02	48.56	10:03	49.44	4.86
50.54	22:00	48.57	10:34	49.64	2.99
50.54	18:02	48.71	19:08	49.78	1.93
50.68		48.80		49.78	11.88
49.85		48.51		48.95	1.93
50.30		48.56		49.34	6.19

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	418	01.22	392	13.40	412	01.20	395	13.39	222	01.20	213	18.14	427	02.43	397	13.43
02	412	21.50	391	06.28	411	21.50	391	06.21	224	23.59	214	06.17	422	23.59	390	22.27
03	409	20.23	397	05.48	414	00.08	391	18.13	225	00.01	212	17.55	423	00.01	398	12.20
04	408	21.49	390	12.37	409	08.03	396	12.21	221	04.36	212	18.16	416	00.57	393	14.49
05	408	21.52	388	12.12	410	21.54	388	14.18	222	21.53	212	11.30	420	21.57	399	18.13
06	411	2155.00	392	14.22	410	21.56	396	18.13	222	21.44	212	18.16	419	04.03	397	18.13
07	408	21.54	389	18.20	406	00.19	395	14.02	222	21.56	211	18.16	418	00.20	397	14.10
08	410	21.24	388	5.56	407	21.28	388	5.53	221	21.23	211	12.10	419	21.27	400	18.27
09	408	21.09	391	05.29	409	21.50	387	03.50	222	21.46	212	18.24	417	12.59	397	18.25
10	408	21.54	385	11.35	404	06.56	387	05.54	221	21.54	211	05.54	418	13.02	397	05.39
11	409	22.30	385	12.31	407	17.16	388	13.45	221	22.33	211	09.34	420	20.36	395	18.10
12	406	22.40	385	11.34	407	07.04	387	14.12	220	21.57	211	09.56	416	12.45	397	05.44
13	407	21.44	384	14.29	409	21.51	388	13.32	219	21.44	210	18.24	417	21.44	397	14.08
14	405	21.53	383	12.17	409	18.00	385	14.32	220	21.57	209	09.39	414	20.39	395	15.16
15	407	21.29	383	11.04	411	18.01	390	05.56	221	13.16	212	09.44	418	13.15	393	18.13
16	412	21.49	392	05.44	414	21.49	394	04.45	221	21.45	213	11.02	415	08.04	397	18.15
17	411	21.52	388	5.52	413	21.56	388	5.53	222	21.51	211	17.40	416	8.29	394	18.08
18	409	20.05	387	14.59	409	20.05	389	14.12	218	22.00	212	11.00	419	16.49	395	15.00
19	406	03.03	386	14.10	404	07.04	386	14.12	218	22.00	212	11.00	417	10.42	391	14.10
20	408	07.09	388	11.08	409	07.07	386	11.08	219	07.07	212	18.21	417	10.33	394	18.23
21	412	20.56	391	11.14	410	18.00	390	00.02	221	21.53	212	18.23	420	21.38	396	18.23
22	414	21.48	388	14.11	414	21.57	385	14.57	221	21.46	213	14.02	420	21.46	390	14.03
23	415	02.54	390	12.18	411	05.04	389	13.51	223	01.52	213	12.18	417	00.58	394	15.24
24	415	02.54	390	12.18	411	05.04	389	13.51	223	01.52	213	12.18	417	00.58	394	15.24
25	412	21.50	393	9.43	407	06.07	392	09.43	220	00.00	212	09.44	415	21.50	397	18.25
26	415	21.54	396	07.33	407	14.02	391	05.40	223	13.58	215	18.44	418	21.54	398	18.23
27	412	21.48	390	06.45	410	18.01	390	14.37	222	01.27	213	18.26	420	22.49	397	06.47
28	416	00.44	386	10.34	409	05.03	385	10.30	223	00.28	210	10.30	422	21.44	394	15.42
29	410	01.02	390	10.04	409	18.02	389	7.30	221	21.53	212	10.02	419	01.02	394	18.23
30	414	21.49	393	05.54	412	21.57	391	04.41	222	21.45	213	18.22	419	09.04	396	18.22
31	410	08.02	389	05.49	407	08.02	390	12.05	222	21.48	212	18.37	416	09.03	391	17.41
Max	418		397		414		396		225		215		427		400	
Min	405		383		404		385		218		209		414		390	

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	21609	23848	2239	16126	16556	430	421.65
02	21754	23514	1760	17167	17797	630	429.61
03	20872	23367	2495	16578	16910	332	415.58
04	20941	23766	2825	17115	18045	930	423.37
05	21789	24577	2788	17527	18647	1120	436.87
06	21731	24505	2774	17651	18909	1258	432.12
07	21989	24313	2324	17646	19029	1383	434.74
08	22090	24399	2309	17841	19055	1214	438.98
09	22145	24045	1900	18149	19497	1348	439.60
10	22316	24494	2178	18168	19256	1088	444.43
11	21719	24513	2794	18501	19776	1275	445.38
12	21563	24219	2656	18042	19438	1396	435.04
13	21497	24729	3232	18219	19424	1205	433.73
14	21361	24743	3382	17961	19647	1686	425.45
15	21196	24141	2945	18156	19851	1695	432.73
16	21403	24198	2795	18069	19371	1302	434.92
17	21384	24123	2739	17624	18116	492	428.40
18	20928	24626	3698	17326	17718	392	420.29
19	20938	24680	3742	17241	19082	1841	417.82
20	21167	24457	3290	17749	19204	1455	420.70
21	21658	25028	3370	17585	19868	2283	428.55
22	20980	24188	3208	17623	19073	1450	423.28
23	21365	24314	2949	15734	16897	1163	416.13
24	21609	25095	3486	17479	18599	1120	433.71
25	22247	24826	2579	17440	18795	1355	442.00
26	21459	24211	2752	18006	19261	1255	436.38
27	21778	23971	2193	17274	18379	1105	428.30
28	21552	24301	2749	15455	15960	505	418.66
29	21226	23314	2088	17453	17777	324	431.57
30	20978	23139	2161	17199	18214	1015	429.28
31	21658	23731	2073	17078	17793	715	429.00
Maximum	22316	25095	3742	18501	19868	2283	445.38
Minimum	20872	23139	1760	15455	15960	324	415.58
Average	21513	24238	2725	17457	18579	1121	429.94

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	3402	1701	2768	2014	4086	3691	2711	1396	4955	5317
02	3415	2225	2948	2179	4111	3782	2685	1253	4853	5238
03	3538	2411	1923	1650	4144	3707	2833	1284	4790	5109
04	3519	2563	2504	2168	3992	3784	2912	1352	4487	4780
05	3569	2577	2650	2286	4122	3731	2862	1386	4890	4996
06	3653	2502	2584	2342	4155	3871	2960	1410	5143	4903
07	3611	2486	2654	2431	4042	3760	2870	1416	5232	4849
08	3324	2607	2682	2423	4079	3806	2740	1427	5302	5085
09	3504	2627	2909	2381	4296	3699	2618	1345	4987	5529
10	3478	2534	2597	2354	4116	3843	2798	1316	5515	5593
11	3484	2714	2426	2387	4173	3883	2823	1315	5058	5548
12	3317	2633	2423	2262	4222	3591	2699	1367	5072	5281
13	3354	2675	2427	2278	4136	3966	2798	1364	4969	5250
14	3496	2697	2630	2393	4063	3818	2724	1405	4766	5009
15	3480	2625	2592	2529	4080	3894	2742	1348	4875	5168
16	3324	2769	2681	2444	4043	3823	2769	1363	5065	5151
17	3361	2487	2665	2294	4137	3881	2733	1391	4898	5056
18	3346	2635	2426	2386	3770	3997	2844	1381	4902	4619
19	3103	2414	2644	2217	3906	3632	2773	1379	4745	4908
20	3013	2525	2787	2479	4042	3627	2819	1281	4773	5078
21	3249	2475	2666	2277	4056	3868	2852	1431	4772	4798
22	3049	2610	2592	2471	4084	3911	2915	1386	4679	5095
23	3264	2127	2739	1569	4064	4003	2829	1107	4909	4613
24	3367	2407	2466	2169	4070	3915	2874	1418	5027	5011
25	3163	2414	2774	2279	4083	3966	2945	1510	5296	5193
26	3190	2468	2826	2419	3868	3969	2607	1517	5160	5274
27	3099	2246	2730	2225	3909	3904	2941	1245	5166	5064
28	3209	1671	2636	1452	4009	3788	2844	1363	5449	4868
29	3199	2244	2638	2177	3905	3833	2760	1446	5278	5243
30	3162	2267	2707	2171	3905	3833	2763	1411	5664	5045
31	3160	2317	2750	2142	3937	3835	2805	1350	4874	5221
Maximum	3653	2769	2948	2529	4296	4003	2960	1517	5664	5593
Minimum	3013	1671	1923	1452	3770	3591	2607	1107	4487	4613
Average	3336	2440	2627	2234	4052	3826	2802	1367	5020	5093

Remarks: Peak - 1900 hrs offpeak - 0300 hrs

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

State Date	Uttaranchal		Chandigarh		Himachal Pradesh		Jammu & Kashmir	
	Peak	Off Peak	Peak	Off Peak	Peak	Off Peak	Peak	Off Peak
	683	422	147	76	556	223	1015	209
	681	419	140	76	569	309	1010	710
	653	421	154	75	582	295	932	778
	696	400	154	76	584	316	1027	688
	692	425	154	74	560	323	934	798
	660	452	156	78	590	318	1019	772
	659	463	157	80	578	297	1021	883
	696	458	157	76	573	275	1142	902
	659	465	145	79	625	318	1090	903
	737	439	163	80	588	314	941	911
	730	400	164	80	599	331	1077	896
	703	461	156	78	585	315	1076	900
	691	478	150	80	565	322	962	918
	648	478	159	80	565	302	998	871
	647	449	152	79	564	316	1103	983
	605	449	144	79	588	323	1166	968
	533	430	160	76	555	306	1011	901
	600	354	158	79	575	305	1111	978
	596	430	162	81	603	290	898	931
	604	430	160	84	596	284	1037	957
	618	446	165	79	556	266	1131	955
	623	427	168	77	534	271	1083	775
	551	342	157	66	551	249	1062	793
	604	405	169	76	546	273	1041	911
	615	435	160	80	561	261	981	892
	615	420	160	80	589	283	1114	848
	540	405	165	75	559	267	1023	911
	592	384	166	73	512	257	979	565
	553	412	167	82	546	278	1043	832
	568	457	147	76	547	277	1035	923
	607	403	164	83	562	277	1012	785
Maximum	737	478	169	84	625	331	1166	983
Minimum	533	342	140	66	512	223	898	209
Average	634	428	157	78	570	292	1035	840

Remarks: Peak - 1900 hrs offpeak - 0300 hrs

VII Daily Energy Consumption By Constituents

(All Figs In MUs)

Date	Punjab	Haryana	Rajasthan	Delhi	UP	Uttaranchal	Chandigarh	HP	J & K	NFF/RAIL	Total
01	58.670	52.073	90.377	53.142	115.476	13.294	2.958	10.689	15.397	1.544	413.620
02	62.626	54.233	91.697	51.718	114.020	12.912	2.725	10.969	20.163	1.465	422.528
03	63.924	41.641	90.135	54.290	108.844	12.922	3.044	11.353	21.276	1.588	409.018
04	67.218	50.771	87.983	54.798	103.568	12.736	2.881	11.118	22.654	1.573	415.301
05	65.912	53.872	89.218	55.064	110.835	13.482	2.976	11.218	22.977	1.606	427.160
06	65.277	54.120	88.801	55.126	109.390	13.270	3.012	10.981	22.610	1.596	424.183
07	65.540	55.576	86.866	55.818	108.259	13.509	3.058	10.724	23.048	1.622	424.020
08	63.532	55.663	89.040	53.697	116.696	14.208	2.933	10.593	23.191	1.680	431.233
09	65.857	53.746	90.822	51.326	119.294	13.214	2.811	10.867	22.896	1.641	432.474
10	65.223	53.658	88.966	53.174	121.969	13.857	3.062	11.403	22.781	1.579	435.671
11	67.448	51.944	90.245	54.531	117.042	13.824	3.039	11.451	22.659	1.564	433.747
12	63.968	49.573	89.540	54.225	119.002	13.547	3.040	11.281	23.411	1.641	429.228
13	64.903	49.754	89.257	53.820	116.611	13.617	2.983	10.824	21.976	1.584	425.329
14	66.407	53.565	90.851	51.877	107.971	13.391	2.938	10.916	22.306	1.631	421.853
15	65.872	53.876	90.839	52.294	111.745	12.704	2.828	11.096	22.219	1.579	425.050
16	65.181	53.926	91.456	52.770	113.191	13.033	2.779	10.975	22.780	1.471	427.561
17	63.063	53.274	91.486	53.154	109.964	11.707	3.075	11.109	22.653	1.654	421.137
18	60.504	52.261	86.415	54.526	105.344	11.138	3.051	10.561	22.679	1.589	408.068
19	60.396	52.871	84.708	54.546	106.019	12.639	3.084	10.876	22.051	1.702	408.894
20	62.037	53.197	85.545	52.403	108.514	12.488	3.060	10.674	22.124	1.608	411.650
21	61.249	52.518	90.907	55.621	108.205	12.451	3.211	10.295	22.961	1.473	418.890
22	61.192	52.606	91.813	55.258	108.278	12.527	3.100	10.066	20.680	1.482	417.001
23	60.475	47.766	93.436	52.815	105.237	11.200	2.792	9.548	21.806	1.431	406.506
24	64.255	51.370	92.352	56.826	109.308	12.732	3.353	10.151	22.643	1.439	424.429
25	63.624	54.662	93.910	58.566	114.305	12.197	3.306	9.579	22.682	1.621	434.452
26	61.432	57.736	92.580	52.357	113.660	11.890	2.916	9.708	24.334	1.560	428.173
27	58.792	51.680	91.917	54.534	112.900	11.922	3.067	10.003	21.806	1.679	418.299
28	57.713	46.829	92.432	55.343	118.528	12.184	3.045	9.438	19.044	1.630	416.186
29	61.584	52.524	91.150	53.785	113.753	11.738	3.130	10.060	22.689	1.548	421.961
30	62.155	52.961	91.075	53.647	112.976	11.810	2.884	10.103	22.793	1.429	421.834
31	62.256	52.950	89.356	54.050	112.278	12.123	3.044	10.158	22.771	1.535	420.522
Maximum	67.448	57.736	93.910	58.566	121.969	14.208	3.353	11.451	24.334	1.702	435.671
Minimum	57.713	41.641	84.708	51.326	103.568	11.138	2.725	9.438	15.397	1.429	406.506
Average	63.170	52.361	90.167	54.036	112.038	12.718	3.006	10.606	22.131	1.572	421.050
Month Total	1958.284	1623.195	2795.173	1675.101	3473.181	394.266	93.185	328.785	686.061	48.744	13075.975

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-Jan-2005	21773	19987	20735	22380	26459	32338	25552	21723	49894	55998	7213	6584
2-Jan-2005	22288	20429	22271	24159	29296	34079	26356	21176	54063	56900	7783	5907
3-Jan-2005	23400	19110	22960	28640	28827	32304	26504	24286	54467	55895	7348	5782
4-Jan-2005	22975	20100	22589	28100	29762	33555	26305	22225	54354	56490	7539	6065
5-Jan-2005	22410	20486	22738	24821	30224	34472	26114	22654	54536	57000	7611	6637
6-Jan-2005	22492	20115	22343	25227	29490	33629	25995	22700	53701	55811	7179	6708
7-Jan-2005	22630	19733	22945	25705	29209	32849	26055	23159	53811	56271	7274	6977
8-Jan-2005	22488	20629	22842	26061	29967	35529	26032	21067	53885	53291	7281	7315
9-Jan-2005	22020	20109	22640	26383	29502	35197	25987	24031	53530	51038	7421	6988
10-Jan-2005	22261	20964	22075	24290	30167	32989	26181	24822	53943	53717	7532	7101
11-Jan-2005	21735	20400	21065	24031	29015	31708	25908	23793	52626	50933	7393	7478
12-Jan-2005	21931	21184	21084	23678	28845	31539	25938	23531	52627	50260	7369	7260
13-Jan-2005	21070	20172	20500	22474	28795	30863	25841	23864	51658	51302	7183	7193
14-Jan-2005	21059	20495	21052	22865	29604	30671	25336	25241	51877	52435	7357	7793
15-Jan-2005	21757	21804	21156	24350	29052	30523	25858	23712	52430	52774	7354	7399
16-Jan-2005	22286	22131	21275	24557	29606	31088	25675	21439	53030	52011	7074	7508
17-Jan-2005	24902	23912	21818	22994	30440	32011	26231	24713	54734	51605	6372	6675
18-Jan-2005	24675	23805	21981	25658	30531	33766	26087	22259	54707	52811	6330	5458
19-Jan-2005	24640	23746	21482	22863	29416	31356	25677	22941	53160	51299	5987	6644
20-Jan-2005	24732	24409	21330	22472	29332	30513	23605	20721	52891	51486	5853	6816
21-Jan-2005	24627	22349	21213	21988	29756	31257	25773	23634	53430	52219	5816	7142
22-Jan-2005	25058	22629	21548	22539	30698	32362	25966	24025	53623	52565	5880	7188
23-Jan-2005	25032	23702	21238	24337	30845	34583	25526	22363	53545	50545	5881	5733
24-Jan-2005	25243	22010	21930	23951	31332	31820	26049	24681	53710	53635	5955	6601
25-Jan-2005	24363	20850	22443	24019	31067	33439	26502	25584	55213	55287	6966	7757
26-Jan-2005	23755	21851	21619	24461	29365	33116	26001	18800	53338	51247	6986	7997
27-Jan-2005	23033	20475	20756	20483	28440	33893	25510	22316	51994	50251	6687	7610
28-Jan-2005	22781	20400	20329	20363	27844	35466	25050	23531	53075	49485	7210	7429
29-Jan-2005	22522	20466	19361	21438	27226	32189	25423	22139	51257	49191	7057	7223
30-Jan-2005	22553	20330	19838	21622	26953	31782	25191	21314	50723	49685	7030	7436
31-Jan-2005	23255	21991	20535	22080	27520	31931	25421	23665	52044	48463	7250	7834
Total MU	715.746	660.773	667.691	738.989	908.585	1012.817	799.649	712.109	1647.876	1631.900	215.171	216.238
Max. MWH	25243	24409	22960	28640	31332	35529	26504	25584	55213	57000	7783	7997
Min MWH	21059	19110	19361	20363	26459	30513	23605	18800	49894	48463	5816	5458
Avg. MWH	23089	21315	21538	23838	29309	32672	25795	22971	53157	52642	6941	6975

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-Jan-2005	8752	8103	17692	14186	3148	3073	144	93	1935	1451
2-Jan-2005	8845	8377	17619	18617	3212	2850	144	90	1619	1375
3-Jan-2005	8934	8450	17575	19427	3351	3147	144	49	1746	1539
4-Jan-2005	8837	8365	17377	20570	3318	3029	144	46	1702	1527
5-Jan-2005	8829	8443	17355	20772	3332	3105	190	41	2084	1565
6-Jan-2005	8734	8325	16813	20386	3299	3157	188	47	2087	1549
7-Jan-2005	8800	7989	16887	20995	3359	3183	192	46	2095	1576
8-Jan-2005	8829	8024	16795	21280	3389	3063	184	46	2087	1634
9-Jan-2005	8752	8220	16555	21035	3328	2929	185	45	2105	1596
10-Jan-2005	8752	8734	16498	20853	3369	3193	189	57	2126	1522
11-Jan-2005	8445	8887	16112	21060	3299	3197	177	64	1988	1500
12-Jan-2005	8355	8698	15917	21616	3223	3171	180	64	2117	1577
13-Jan-2005	8168	8393	15513	20491	3180	3120	177	64	2118	1520
14-Jan-2005	8189	8417	15530	20720	3215	3062	179	65	2094	1566
15-Jan-2005	8226	8625	15699	20654	3182	2998	187	62	2079	1517
16-Jan-2005	7978	8574	15775	21217	3197	2868	179	49	2088	1422
17-Jan-2005	7529	8619	16005	21259	3290	3221	168	62	2055	1592
18-Jan-2005	7676	8041	16029	21183	3261	3180	184	58	1769	1531
19-Jan-2005	7390	8323	15531	20787	3181	3206	189	49	1798	1653
20-Jan-2005	7309	8273	15445	20614	3181	3229	189	41	1907	1567
21-Jan-2005	7200	7878	15564	21373	3218	3332	195	72	1907	1401
22-Jan-2005	7328	7991	15845	19154	3265	3255	192	79	1909	1403
23-Jan-2005	7163	7053	15974	20124	3274	2898	180	83	1803	1348
24-Jan-2005	7423	7538	15950	21079	3322	3492	174	79	1522	1360
25-Jan-2005	7954	7060	16221	21030	3453	3451	189	68	1850	1553
26-Jan-2005	7874	7184	16412	22683	3398	3050	203	67	2069	1493
27-Jan-2005	7052	7439	16112	20251	3242	3237	187	68	1926	1611
28-Jan-2005	7332	6930	16221	17407	3276	3208	54	74	1860	1556
29-Jan-2005	7136	7439	16102	20939	3211	3172	45	70	1557	1478
30-Jan-2005	7159	7665	15938	21137	3206	2990	50	69	1922	1360
31-Jan-2005	7069	7706	15863	20357	3231	3143	39	55	1668	1480
Total MU	248.019	249.763	504.924	633.256	101.410	97.209	5.021	1.922	59.592	46.822
Max. MWH	8934	8887	17692	22683	3453	3492	203	93	2126	1653
Min MWH	7052	6930	15445	14186	3148	2850	39	41	1522	1348
Avg. MWH	8001	8057	16288	20428	3271	3136	162	62	1922	1510

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-Jan-2005	29088	29240	22080	22549	18248	18762	9171	9406	9056	9347	16624	16030
2-Jan-2005	39472	40127	22080	22472	18552	18764	9231	9393	9173	9340	17378	16723
3-Jan-2005	40200	40595	22080	22490	18552	18794	9240	9408	9192	9349	16602	16275
4-Jan-2005	40008	40606	22080	22594	18552	18902	9240	9408	9192	9362	17401	17331
5-Jan-2005	39864	40618	22080	22464	18552	18917	9240	9415	9192	9354	17784	17632
6-Jan-2005	39864	40568	22080	22402	18552	18901	9240	9411	9192	9359	17843	17743
7-Jan-2005	39864	40586	22080	22440	18552	18915	9240	9414	9192	9358	17929	17861
8-Jan-2005	39864	40548	22080	22542	18552	18821	9240	9421	9192	9367	17626	17588
9-Jan-2005	39864	40306	21930	22372	18552	18792	9240	9419	9192	9366	17816	17719
10-Jan-2005	39864	40199	22080	22580	18552	18900	9240	9413	9192	9360	18192	18206
11-Jan-2005	39243	39840	22080	22617	18552	18854	9240	9413	9192	9364	17914	18025
12-Jan-2005	39600	40287	22080	22709	18552	18879	9240	9417	9192	9365	18245	18351
13-Jan-2005	39600	40176	22080	22687	18552	18915	9240	9410	9192	9359	18527	18474
14-Jan-2005	39600	40358	22080	22639	18552	18919	9240	9413	9192	9356	18820	19014
15-Jan-2005	39600	40362	22080	22619	18552	18887	9240	9413	9192	9356	18879	18986
16-Jan-2005	40888	41455	22080	22366	18552	18850	9240	9410	9192	9359	18853	18840
17-Jan-2005	44115	44645	22080	22411	18552	18891	9240	9422	9192	9364	18791	18611
18-Jan-2005	44040	44471	22080	22430	18552	18905	9240	9419	9192	9366	18527	18612
19-Jan-2005	44040	44644	22080	22477	18552	18951	9240	9475	9192	9428	18812	18927
20-Jan-2005	44040	44929	22080	22607	16103	16089	9240	9469	9192	9422	18982	19061
21-Jan-2005	44078	44920	22080	22544	18552	19025	9240	9478	9192	9434	18952	19263
22-Jan-2005	44000	44411	22080	22400	18552	18732	9252	9493	9192	9434	19024	19060
23-Jan-2005	43920	44408	22080	22160	18272	18238	9221	9344	9070	9219	18302	17841
24-Jan-2005	43610	44291	22080	22221	18552	18805	9264	9504	9192	9433	18254	18274
25-Jan-2005	44241	44850	22080	22231	18552	18836	8743	8959	9192	9429	18051	18287
26-Jan-2005	36715	37298	22080	22296	18552	18775	9264	9490	9192	9423	17496	17399
27-Jan-2005	35659	36302	22080	22385	18552	18695	9264	9478	9192	9406	18163	17976
28-Jan-2005	38950	39274	21908	22062	18050	18091	9174	9262	9018	9187	17034	16709
29-Jan-2005	33216	33507	22080	22330	18552	18970	9242	9536	9156	9447	17466	17534
30-Jan-2005	33216	33401	22080	22244	18552	18996	9264	9488	9192	9422	17781	17597
31-Jan-2005	39102	39454	22080	22268	18552	18990	9264	9457	9192	9390	17602	17211
Total MU	1239.425	1256.676	684.158	695.608	571.577	580.761	285.914	291.858	284.465	290.525	559.670	557.160
Max. MWH	44241	44929	22080	22709	18552	19025	9264	9536	9192	9447	19024	19263
Min MWH	29088	29240	21908	22062	16103	16089	8743	8959	9018	9187	16602	16030
Avg. MWH	39981	40538	22070	22439	18438	18734	9223	9415	9176	9372	18054	17973

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-Jan-2005	8380	8165	11154	10876	8016	7990	8856	8925	1433	1446	7704	7819
2-Jan-2005	9298	8108	11421	10945	8016	8057	8856	8976	1170	1182	5233	5269
3-Jan-2005	8617	8340	11208	11010	8040	8036	8976	8922	1512	1527	4577	4611
4-Jan-2005	8868	8869	11559	11417	8112	8043	9024	8884	942	951	3900	3938
5-Jan-2005	8759	8758	11567	11439	8112	8069	8928	8870	942	951	3330	3359
6-Jan-2005	6192	6276	11560	11403	8112	8032	8904	8851	972	981	3101	3121
7-Jan-2005	6314	6432	11657	11602	7920	8023	8904	8843	985	995	3180	3208
8-Jan-2005	6254	6253	11607	11447	8136	8020	8904	8908	820	828	2980	3007
9-Jan-2005	6345	6254	11653	11518	8160	7992	8085	7928	885	894	3105	3132
10-Jan-2005	6306	6322	11660	11357	8160	7903	8952	8812	890	898	2904	2929
11-Jan-2005	6338	6400	9103	8959	8160	7937	8904	8828	660	664	2760	2783
12-Jan-2005	6386	6515	11863	11738	6540	6286	8808	8812	765	774	2760	2781
13-Jan-2005	6491	6518	11838	11600	4032	3900	8904	8723	690	698	2680	2706
14-Jan-2005	6479	6404	11978	11608	4765	4505	8736	8742	720	726	2550	2576
15-Jan-2005	6500	6354	12069	11526	7280	7657	8736	8731	750	757	2643	2669
16-Jan-2005	6377	6363	11835	11519	7920	8006	8736	8772	720	727	2597	2625
17-Jan-2005	8028	8017	11761	11155	7920	7967	8784	8794	750	758	2595	2621
18-Jan-2005	7437	7477	11767	11473	8088	7971	8808	8792	720	727	2656	2679
19-Jan-2005	6578	6542	7869	7722	8088	7888	8856	8759	690	698	2658	2694
20-Jan-2005	7016	6958	7786	7702	8016	7849	8856	8763	645	651	2568	2602
21-Jan-2005	9432	9512	7825	7715	7944	7934	8784	8763	645	651	2568	2601
22-Jan-2005	9522	9672	7860	7543	7920	7935	8784	8800	690	535	2987	3024
23-Jan-2005	9237	8684	7675	7401	7992	8087	8784	8881	795	802	2970	2997
24-Jan-2005	9523	9502	7784	7547	7992	7988	8784	8653	705	712	2760	2789
25-Jan-2005	9118	9441	9794	9805	8016	7994	8616	8817	705	712	2703	2730
26-Jan-2005	8887	8421	11435	11100	8016	8027	9264	8862	735	742	2920	2949
27-Jan-2005	9381	8929	11870	11483	8016	7975	9312	8835	735	742	2760	2788
28-Jan-2005	8840	8367	11329	10976	8016	7977	9336	8901	825	832	3105	3137
29-Jan-2005	8980	8954	11577	11346	8016	7983	9336	8923	780	787	3100	3128
30-Jan-2005	8957	8867	10160	9779	8016	8015	9408	8934	780	788	2760	2784
31-Jan-2005	8882	8613	7835	7573	8016	8055	9408	8962	810	818	2760	2785
Total MU	243.722	240.287	328.059	320.284	239.553	238.101	276.333	272.966	25.866	25.954	97.874	98.841
Max. MWH	9523	9672	12069	11738	8160	8087	9408	8976	1512	1527	7704	7819
Min MWH	6192	6253	7675	7401	4032	3900	8085	7928	645	535	2550	2576
Avg. MWH	7862	7751	10583	10332	7728	7681	8914	8805	834	837	3157	3188

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-Jan-2005	782	788	1691	1705	3643	3517	10536	9662	4316	3874	3140	3162
2-Jan-2005	773	780	1691	1698	4661	4760	10536	9781	3578	3156	2954	2987
3-Jan-2005	798	808	3026	3050	4954	5450	11542	10810	3994	3999	3957	3788
4-Jan-2005	770	780	3026	3048	5148	5239	11539	10561	4019	4007	3556	3482
5-Jan-2005	793	800	4005	4037	5462	5626	11287	10571	3134	3066	3648	3797
6-Jan-2005	773	781	4272	4307	5041	5336	11238	10471	3038	3038	3539	3593
7-Jan-2005	741	752	5073	5111	5147	5356	11238	10387	3049	3081	2426	2425
8-Jan-2005	741	750	5518	5565	5134	5259	11238	10361	3049	2961	2368	2318
9-Jan-2005	730	736	5073	5115	4745	5008	11094	10735	3049	3098	1966	2131
10-Jan-2005	715	721	5340	5385	4897	5037	10746	10484	3038	3044	2698	2688
11-Jan-2005	719	725	3961	3995	4584	4736	10599	10668	3043	3032	2336	2271
12-Jan-2005	656	661	2937	2959	4424	4548	10723	10581	2974	2972	2077	2124
13-Jan-2005	661	671	2492	2511	4002	4143	10686	10665	2974	2920	1746	1771
14-Jan-2005	707	728	2492	2513	3969	4071	10686	10568	2974	2954	2107	2101
15-Jan-2005	701	711	1691	1703	3743	3901	10686	10582	2940	2897	1885	1907
16-Jan-2005	626	635	1246	1255	3730	3932	10686	10458	2964	2806	1725	1683
17-Jan-2005	609	633	1780	1795	3419	3589	10653	10470	2949	2863	2121	2154
18-Jan-2005	856	877	2225	2243	3559	3715	10650	10464	3056	2942	2215	2190
19-Jan-2005	824	831	2047	2065	3309	3443	10836	10059	3155	3202	2276	2317
20-Jan-2005	792	803	2047	2065	3070	3228	10762	10182	2979	3033	2080	2034
21-Jan-2005	703	720	623	629	2952	3101	10738	9922	2604	2501	2089	2196
22-Jan-2005	649	662	890	898	3246	3348	10811	10248	3004	2915	2866	2867
23-Jan-2005	944	983	623	629	3385	3567	11020	10138	2963	2918	2756	2580
24-Jan-2005	1071	1080	2674	2695	3362	3498	10992	10241	3240	3171	2536	2720
25-Jan-2005	867	875	4784	4817	3390	3551	10908	10057	3228	2982	2757	2862
26-Jan-2005	814	824	4272	4308	3601	3739	10875	10058	3194	2782	2560	2400
27-Jan-2005	834	842	0	7	3507	3601	11019	9895	3194	2874	2466	2633
28-Jan-2005	800	811	0	8	2882	3114	10725	9693	3128	2926	2408	2378
29-Jan-2005	795	809	0	9	3708	3852	10230	9306	3244	3174	2474	2486
30-Jan-2005	772	781	0	7	3399	3511	10302	9468	2888	2629	2456	2499
31-Jan-2005	771	780	0	5	3360	3502	10314	9409	3108	2689	2736	2781
Total MU	23.787	24.138	75.499	76.137	123.433	128.278	335.895	316.955	98.067	94.506	78.924	79.325
Max. MWH	1071	1080	5518	5565	5462	5626	11542	10810	4316	4007	3957	3797
Min MWH	609	633	0	5	2882	3101	10230	9306	2604	2501	1725	1683
Avg. MWH	767	779	2435	2456	3982	4138	10835	10224	3163	3049	2546	2559

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-Jan-2005	6740	6815	1995	2015
2-Jan-2005	6762	6814	2094	2138
3-Jan-2005	6518	6576	1451	1468
4-Jan-2005	6334	6388	1451	1466
5-Jan-2005	6442	6500	1451	1464
6-Jan-2005	6268	6314	1401	1413
7-Jan-2005	6323	6374	1352	1364
8-Jan-2005	6003	6056	1352	1365
9-Jan-2005	5924	5972	1352	1367
10-Jan-2005	5605	5668	1352	1364
11-Jan-2005	5926	5986	1253	1264
12-Jan-2005	5580	5632	1251	1263
13-Jan-2005	5605	5662	1154	1164
14-Jan-2005	5752	5804	1055	1066
15-Jan-2005	5639	5692	1253	1263
16-Jan-2005	5868	5915	1352	1363
17-Jan-2005	5825	5876	1253	1264
18-Jan-2005	5355	5406	1203	1214
19-Jan-2005	5984	6028	1203	1216
20-Jan-2005	5748	5804	1203	1215
21-Jan-2005	5645	5695	1154	1165
22-Jan-2005	5810	5865	1196	1215
23-Jan-2005	5663	5704	1144	1173
24-Jan-2005	5653	5707	1030	1039
25-Jan-2005	5662	5711	1376	1390
26-Jan-2005	5913	5982	1104	1115
27-Jan-2005	5331	5365	1104	1113
28-Jan-2005	5877	5925	1253	1261
29-Jan-2005	5739	5787	1109	1119
30-Jan-2005	5889	5915	1203	1167
31-Jan-2005	5719	5757	1327	1334
Total MU	183.102	184.695	40.431	40.807
Max. MWH	6762	6815	2094	2138
Min MWH	5331	5365	1030	1039
Avg. MWH	5907	5958	1304	1316

X. Daily Generation Details of State Sector Stations

(All Figs in MUs)

Date	Punjab(T)	Punjab(H)	Haryana(T)	Haryana(H)	Rajasthan(T)	Rajasthan(H)	UP (T)	UP (H)	Uttaranchal(H)	Delhi(T)	HP+B'PA(H)	J & K(H+GT)	Total
01	38.106	1.984	19.218	0.560	50.587	4.405	47.109	1.265	6.970	15.381	2.612	1.21	189.41
02	39.776	1.694	19.815	0.619	50.761	3.786	44.979	1.337	7.268	14.080	2.618	1.55	188.28
03	40.631	2.614	7.773	0.572	50.499	4.329	40.946	1.225	7.465	13.838	2.932	1.85	174.67
04	42.758	3.031	12.191	0.589	50.164	4.110	37.005	1.996	7.174	15.911	2.781	2.08	179.79
05	40.920	2.970	18.023	0.556	50.573	4.003	43.017	2.117	6.979	15.941	2.803	2.20	190.11
06	38.259	5.241	17.875	0.570	50.871	4.205	42.825	1.895	6.939	15.853	2.683	2.22	189.44
07	38.262	5.962	18.980	0.580	49.947	4.136	43.899	1.219	6.877	16.152	2.763	2.05	190.83
08	35.572	5.758	17.641	0.550	49.116	4.395	53.440	1.202	6.851	16.162	2.595	1.91	195.19
09	38.367	6.241	18.937	0.537	50.955	4.637	55.644	1.203	6.703	15.889	2.674	1.86	203.65
10	37.399	5.978	18.713	0.563	50.859	4.799	55.890	1.206	6.812	14.866	2.696	1.93	201.71
11	39.892	5.734	16.578	0.553	50.948	5.180	56.202	1.238	6.762	14.211	2.590	1.60	201.49
12	36.562	4.507	15.031	0.554	49.293	4.829	55.802	1.135	6.775	14.221	2.609	1.79	193.11
13	38.786	4.711	16.415	0.554	50.678	4.907	53.908	1.090	6.695	14.673	2.456	1.49	196.36
14	38.826	5.347	19.878	0.576	51.334	4.941	48.441	1.157	6.015	15.090	2.524	1.59	195.72
15	36.808	5.458	19.227	0.417	51.758	4.636	50.467	0.000	5.916	13.866	2.496	1.57	192.61
16	35.818	5.246	19.258	0.509	51.096	5.004	50.432	0.787	6.021	15.224	2.425	1.56	193.38
17	32.039	5.048	19.655	0.491	50.580	4.876	47.975	0.771	5.706	15.802	2.515	1.39	186.85
18	29.845	5.640	15.633	0.554	44.010	4.619	44.169	1.419	6.396	15.949	2.545	1.50	172.28
19	27.890	6.682	18.930	0.547	44.902	4.459	47.517	1.042	6.351	15.117	2.579	1.26	177.28
20	29.816	6.523	19.862	0.522	46.069	4.658	45.658	0.883	6.101	15.637	2.425	1.51	179.66
21	31.167	5.776	19.292	0.521	50.710	4.571	43.778	2.146	5.881	15.942	2.541	1.59	183.91
22	30.729	5.580	18.967	0.523	50.913	4.443	44.696	0.104	6.000	15.193	2.096	1.53	180.77
23	29.234	5.667	13.398	0.630	50.489	4.354	46.296	0.084	6.133	14.582	2.520	1.68	175.07
24	34.403	5.874	17.232	0.561	51.728	4.768	46.641	0.556	6.434	15.418	2.639	1.56	187.82
25	35.106	5.680	19.684	0.651	51.596	4.814	48.981	0.737	4.990	16.239	2.544	1.65	192.67
26	31.870	5.376	23.660	0.590	50.735	4.699	52.605	0.907	4.731	15.992	2.549	1.65	195.36
27	31.670	5.318	20.971	0.514	48.591	4.640	53.713	0.320	4.942	15.926	2.590	1.56	190.75
28	31.357	4.896	17.412	0.606	47.830	4.773	53.713	0.320	4.955	15.522	2.533	1.64	185.55
29	34.670	5.047	20.844	0.543	51.502	4.486	50.665	0.594	5.094	15.342	2.647	1.75	193.18
30	35.363	5.057	20.929	0.604	51.500	4.092	50.530	0.411	4.816	15.024	2.463	1.66	192.44
31	33.338	5.387	20.716	0.566	51.363	4.397	53.710	0.000	4.718	15.636	2.477	1.63	193.94
Maximum	42.76	6.68	23.66	0.65	51.76	5.18	56.20	2.15	7.47	16.24	2.93	2.22	203.65
Minimum	27.89	1.69	7.77	0.42	44.01	3.79	37.00	0.00	4.72	13.84	2.10	1.21	172.28
Average	35.33	5.03	18.15	0.56	50.06	4.55	48.73	0.98	6.18	15.31	2.58	1.68	189.14
Month Total	1095.24	156.02	562.74	17.28	1551.96	140.95	1510.65	30.36	191.47	474.68	79.92	52.03	5863.30

XI. Performance Of Generating Stations

S.No.	Power Station	Effective Capacity MW	Energy Generated during January 2005 (Ex Bus MU)	Cummulative from 01.04.2004 (Ex-bus MU)
1	CENTRAL SECTOR			
A	NTPC (Thermal)			
(a)	Badarpur TPS	705.00	460.04	4264.29
(b)	Singrauli STPS	2000.00	1256.45	12116.45
(c)	Rihand STPS	1000.00	695.68	6098.20
(d)	Dadri NCTPS	840.00	568.78	5178.60
(e)	Unchahar-I TPS	420.00	287.46	2530.97
(f)	Unchahar-II TPS	420.00	289.66	2577.69
(g)	Tanda TPS	440.00	272.95	2395.51
(h)	Anta GPS	419.33	238.17	2285.82
(i)	Auraiya GPS	663.36	315.23	3440.52
(j)	Dadri GPS	829.78	552.74	4635.98
(k)	Faridabad GPS	431.57	295.29	2643.15
	Total NTPC	8169.04	5232.45	48167.17
B	NHPC			
(a)	Bairasiul	180.00	25.92	492.68
(b)	Salal	690.00	98.84	2897.94
(c)	Tanakpur HPS	94.20	24.15	441.45
(d)	Chamera HPS	540.00	76.11	1739.00
(e)	Uri HPS	480.00	128.30	1822.39
(f)	Chamera2 HPS	300.00	40.80	1198.31
	Total NHPC	2284.20	394.12	8591.77
C	Nathpa-Jhakri	1500.00	184.69	4708.41
D	NPC			
(a)	RAPS -A	300.00	85.71	1021.95
(b)	RAPS -B	440.00	273.01	2094.57
(c)	NAPS	440.00	238.13	1962.46
	Total NPC	1180.00	596.85	5078.99
2	JOINTLY OWNED (BBMB)			
(a)	Bhakra Complex	1490.15	333.08	4006.59
(b)	Dehar	990.00	94.10	2684.12
(c)	Pong	396.00	78.34	841.96
	Total BBMB	2876.15	505.52	7532.67
3	DELHI			
(a)	Indra Prastha	247.50	42.78	688.22
(b)	Rajghat	135.00	42.73	504.44
(c)	Gas Turbines	282.00	148.25	1287.39
(d)	Pragati Gas	330.00	241.41	2126.00
	Total DELHI	994.50	475.18	4606.05
4	HARYANA			
(a)	WYC	62.40	17.37	243.05
(b)	Faridabad (New)	165.00	75.45	644.49
(c)	Panipat	860.00	552.00	4304.50
(d)	Magnum Diesel(IPP)	25.20	8.31	69.01
	Total Haryana	1112.60	653.13	5261.05

contd/-

5	HP			
(a)	Giri	60.00	7.39	119.38
(b)	Bassi	60.00	9.27	241.39
(c)	Binwa	6.00	1.60	24.88
(d)	Rongtong (+Nogli+Micro+Thirot+Sal-2)	15.25	7.01	37.36
(e)	Andhra	16.95	1.87	48.74
(f)	Bhabha (H)	120.00	17.36	551.46
(g)	Baner (H)	12.00	1.55	33.71
(h)	Gaj (H)	10.50	2.09	39.79
(i)	Gumma	3.00	0.31	3.33
(j)	Ghanvi	22.50	2.25	64.16
(k)	Malana (IPP)	86.00	6.46	247.51
(l)	Baspa (IPP)	300.00	29.05	1145.45
	Total HP	712.20	86.20	2557.15
6	J & K			
(a)	Lower Jhelum	105.00	25.44	347.67
(b)	Upper Sindh	127.60	10.07	161.83
(c)	Ganderbal	15.00	3.02	21.60
(d)	Mohra	9.00	0.00	0.00
(e)	Chenani	32.80	6.22	75.92
(f)	Stakna	9.75	0.00	0.00
(g)	Small Hydel	3.54	0.00	4.90
(h)	Sewa	9.00	2.44	0.00
(i)	Diesel gen set	7.18	5.09	0.00
(j)	Pampore GT St - I	75.00	2.44	6.31
(k)	Pampore GT St - II	100.00	5.09	12.75
	Total J & K	493.87	59.81	630.98
7	PUNJAB			
(a)	Jogindernagar/ Shanan	110.00	17.37	455.85
(b)	UBDC	90.00	18.60	336.13
(c)	Mukerian	207.00	55.10	763.08
(d)	Anandpur Sahib (APS)	134.00	4.07	380.11
(e)	Ranjit Sagar HPS	600.00	45.56	954.77
(f)	Small Hydel	4.10	0.30	0.80
(g)	GNDTPS (Bhatinda)	440.00	144.07	1485.26
(h)	GGSTPS (Ropar)	1260.00	670.18	7135.08
(i)	Jhalkeri	10.00	5.00	5.85
	Peda & Sugarmill		12.00	57.39
(j)	Lehra Mohabbat TPS	420.00	280.69	2517.99
	Total Punjab	3275.10	1252.91	14092.31
8	RAJASTHAN			
(a)	Mahi Bajaj Sagar	140.00	30.82	208.15
(b)	Rana Pratap Sagar (RPS)	172.00	66.57	279.53
(c)	Jawahar Sagar (JS)	99.00	44.79	214.43
(d)	Gandhi sagar	115.00		
(d)	ACW	9.00	0.72	8.11
(e)	MMH	14.85	2.23	6.97
(f)	Kota TPS	1045.00	703.32	5660.79
(g)	RAMGARH GT	3.00		
(h)	RAMGARH GT EXT	35.50	41.04	262.22
(i)	Suratgarh TPS	1250.00	820.25	7134.10
(j)	Wind Farm	14.01	20.45	305.59
(k)	Others		3.95	30.89
	Total Rajasthan	2782.36	1734.14	14110.78

contd/-

9	U.P.			
	<u>HYDRO</u>			
(a)	Rihand	300.00	8.03	446.83
(b)	Obra	99.00	2.77	187.24
(c)	Matatilla	30.00	12.31	124.15
(d)	Khara	72.00	7.11	251.20
	Total U.P. (Hydro)	501.00	30.21	1009.41
	<u>THERMAL</u>			
(e)	Obra	1442.00	396.31	3923.86
(f)	Panki	242.00	94.49	748.30
(g)	Harduaganj	375.00	43.35	494.44
(h)	Paricha	220.00	60.12	742.04
(i)	Anpara	1630.00	916.98	8270.01
	Total U.P. (Thermal)	3909.00	1511.25	14178.65
	Total U.P.	4410.00	1541.47	15188.06
10	UTTRANCHAL			
(a)	Khatima	41.40	10.52	158.28
(b)	Ramganga	198.00	61.75	141.52
(c)	Ganga Canal	32.70	11.70	122.26
(d)	Yamuna (I & IV)	114.75	35.70	794.01
(e)	Chibro	240.00	26.69	524.23
(f)	Khodri	120.00	13.10	247.29
(g)	Chilla	144.00	31.13	666.75
(h)	Maneri Bhali	90.00	0.00	0.00
(i)	Sibla+Small hydel	18.20		
	Total Uttranchal	999.05	190.59	2654.34
11	CHANDIGARH			
	Diesel gen set	1.40		
	Total Region	30790.47	12907.05	133179.72

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

FROM / TO	PUNJAB	HARYANA	RAJASTHAN	DELHI	UP	UTTRANCHAL	HP	J & K	CHANDIGARH	MALANA
PUNJAB	-		-		-				-	-
HARYANA	-	-	-	56.42**** 8.228***		-		-	-	5.322*
RAJASTHAN		-	-		-	-	-	-		
DELHI	-	24.180****	-		-	-		-	-	-
UP	-	-	-	-	-	-		-	-	-
UTTRANCHAL	42.650****	-	-	-	-	-		-	-	-
HP	15.990**** 3.297***	-	-		4.092***	10.739***	-	-	-	-
J & K		-	-		-	-	-	-	-	-
CHANDIGARH	-	-	-	-	-	-	-	-	-	-

* Through PTC

** Through NVVN

*** Shared projects



**** Through Banking/ Agreement

REMARKS : Figures are provisional and indicative only.

XIII. DETAILS OF ENERGY EXCHANGES THROUGH BILATERAL AGREEMENTS (INTER-REGIONAL) DURING JANUARY 2005

(ALL FIGS IN MUs)									
FROM / TO	GRIDCO	BSEB	WBPCL	TATA	GEB	DVC	ASSAM	Meghalaya	TRIPURA
PUNJAB			29.607*+15.14***+6.839***WR +7.816*WR		4.225*WR			-	
HARYANA		2.160*WR	36.917*+14.893***+6.865***WR					4.65***	11.522***
RAJASTHAN	9.3***		29.653*+15.498***+6.930***WR	24.570**			-		
DELHI						--			
UP									
UTTRANCHAL	-			-	-	-	-	-	
J & K	18.6*		52.702*		-	-	-	-	
CHANDIGARH									

* Through PTC

(+) Import by NR constituents

** Through Tata

(-) 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 January 2005

Date	Vindhyachal HVDC B/B							Auraiya - Malanpur						
	Peak MW	Off Peak MW	Max Import	Max Export	Energy Import	Energy Export	Total	Peak MW	Off Peak MW	Max Import	Max Export	Energy Import	Energy Export	Total
	MW	MW	MW	MW	MU	MU	MU	MW	MW	MW	MW	MU	MU	MU
01	0	-300	300	300	0.35	1.07	-0.72	0	0	0	0	0.00	0.00	0.00
02	0	0	50	200	0.03	0.19	-0.17	0	0	0	0	0.00	0.00	0.00
03	0	0	100	100	0.15	0.15	0.00	0	0	0	0	0.00	0.00	0.00
04	0	100	150	100	0.93	0.05	0.89	0	0	0	0	0.00	0.00	0.00
05	0	55	154	0	0.99	0.00	0.99	0	0	0	0	0.00	0.00	0.00
06	50	150	150	0	1.61	0.00	1.61	0	0	0	0	0.00	0.00	0.00
07	0	135	250	0	2.14	0.00	2.14	0	0	0	0	0.00	0.00	0.00
08	0	314	350	200	3.24	0.04	3.20	0	0	0	0	0.00	0.00	0.00
09	0	350	400	0	3.41	0.00	3.41	0	0	0	0	0.00	0.00	0.00
10	0	279	350	0	3.44	0.00	3.44	-18	-14	0	26	0.00	0.54	-0.54
11	0	380	380	0	3.42	0.00	3.42	-18	-14	0	26	0.00	0.54	-0.54
12	0	278	300	0	3.17	0.00	3.17	-25	-19	0	31	0.00	0.76	-0.76
13	0	400	450	0	3.41	0.00	3.41	-20	-25	0	25	0.00	0.73	-0.73
14	0	350	400	0	4.87	0.00	4.87	-33	-39	0	40	0.00	0.73	-0.73
15	0	500	500	0	4.59	0.00	4.59	-30	-28	0	40	0.00	0.73	-0.73
16	50	250	250	50	2.78	0.18	2.60	-30	-28	0	40	0.00	0.70	-0.70
17	0	277	277	0	3.18	0.00	3.18	-30	-29	0	41	0.00	0.68	-0.68
18	50	327	327	0	3.89	0.00	3.89	-23	-26	0	35	0.00	0.72	-0.72
19	0	350	400	0	3.15	0.00	3.15	-38	-32	0	38	0.00	0.71	-0.71
20	50	450	400	100	3.73	0.02	3.71	-38	-32	0	38	0.00	0.74	-0.74
21	0	350	400	50	2.82	0.01	2.81	-38	-28	0	38	0.00	0.72	-0.72
22	0	300	300	0	2.75	0.00	2.75	-39	-25	0	39	0.00	0.65	-0.65
23	0	300	300	50	3.78	0.02	3.76	-37	-28	0	40	0.00	0.69	-0.69
24	0	312	350	0	3.08	0.00	3.08	-25	-24	0	40	0.00	0.68	-0.68
25	50	312	312	25	2.61	0.01	2.61	-27	-28	0	34	0.00	0.65	-0.65
26	0	312	362	50	3.19	0.00	3.19	-30	-25	0	38	0.00	0.54	-0.54
27	0	250	400	200	2.58	0.05	2.52	-26	0	0	35	0.00	0.41	-0.41
28	50	-50	300	250	1.88	0.38	1.50	-30	-25	0	32	0.00	0.64	-0.64
29	100	400	450	50	3.75	0.03	3.72	-28	-30	0	32	0.00	0.73	-0.73
30	0	500	500	50	4.42	0.01	4.41	-27	-30	0	35	0.00	0.73	-0.73
31	0	500	500	0	4.83	0.00	4.83	-28	-25	0	30	0.00	0.69	-0.69
Maximum	100	500	500	300	4.87	1.07	4.87	0	0	0	41	0.00	0.76	0.00
Minimum	0	-300	50	0	0.03	0.00	-0.72	-39	-39	0	0	0.00	0.00	-0.76
Average	13	262	326	57	2.84	0.07	2.77	-21	-18	0	25	0.00	0.47	-0.47
Month Tota					88.13	2.22	85.91					0.00	14.05	-14.05

POWERGRID CORPORATION OF INDIA LTD.
NRLDC, New Delhi

Smmary of inter regional exchanges for January 2005

Date	Ujjain - Kota							Sasaram HVDC B/B						
	Peak MW	Off Peak MW	Max Import	Max Export	Energy Import	Energy Export	Total	Peak MW	Off Peak MW	Max Import	Max Export	Energy Import	Energy Export	Total
	MW	MW	MW	MW	MU	MU	MU	MW	MW	MW	MW	MU	MU	MU
01	0	0	0	0	0.00	0.00	0.00	193	393	490	0	8.81	0.00	8.81
02	0	0	0	0	0.00	0.00	0.00	193	400	450	0	8.10	0.00	8.10
03	0	0	0	0	0.00	0.00	0.00	238	388	450	0	8.36	0.00	8.36
04	0	0	0	0	0.00	0.00	0.00	193	425	450	0	9.40	0.00	9.40
05	0	0	0	0	0.00	0.00	0.00	193	450	450	0	9.17	0.00	9.17
06	0	0	0	0	0.00	0.00	0.00	243	450	450	0	9.63	0.00	9.63
07	0	0	0	0	0.00	0.00	0.00	194	500	500	0	10.23	0.00	10.23
08	0	0	0	0	0.00	0.00	0.00	210	450	500	0	9.63	0.00	9.63
09	0	0	0	0	0.00	0.00	0.00	200	450	500	0	9.82	0.00	9.82
10	0	0	0	0	0.00	0.00	0.00	350	419	500	0	10.15	0.00	10.15
11	0	0	0	0	0.00	0.00	0.00	285	430	500	0	10.57	0.00	10.57
12	0	0	0	0	0.00	0.00	0.00	227	400	470	0	9.26	0.00	9.26
13	0	0	0	0	0.00	0.00	0.00	250	450	469	0	9.63	0.00	9.63
14	0	0	0	0	0.00	0.00	0.00	400	450	469	0	10.73	0.00	10.73
15	0	0	0	0	0.00	0.00	0.00	229	500	500	0	9.97	0.00	9.97
16	0	0	0	0	0.00	0.00	0.00	229	418	469	0	9.27	0.00	9.27
17	0	0	0	0	0.00	0.00	0.00	256	442	470	0	10.14	0.00	10.14
18	0	0	0	0	0.00	0.00	0.00	300	450	500	0	12.53	0.00	12.53
19	0	0	0	0	0.00	0.00	0.00	300	446	450	0	9.53	0.00	9.53
20	0	0	0	0	0.00	0.00	0.00	256	450	450	0	9.65	0.00	9.65
21	0	0	0	0	0.00	0.00	0.00	500	475	500	0	9.85	0.00	9.85
22	0	0	0	0	0.00	0.00	0.00	225	400	450	0	9.08	0.00	9.08
23	0	0	0	0	0.00	0.00	0.00	227	450	450	0	9.85	0.00	9.85
24	0	0	0	0	0.00	0.00	0.00	232	500	500	0	9.40	0.00	9.40
25	0	0	0	0	0.00	0.00	0.00	233	425	475	0	9.24	0.00	9.24
26	0	0	0	0	0.00	0.00	0.00	233	378	428	0	8.65	0.00	8.65
27	0	0	0	0	0.00	0.00	0.00	237	450	475	0	9.58	0.00	9.58
28	0	0	0	0	0.00	0.00	0.00	282	325	473	0	9.21	0.00	9.21
29	0	0	0	0	0.00	0.00	0.00	237	400	500	0	9.02	0.00	9.02
30	0	0	0	0	0.00	0.00	0.00	257	500	500	0	10.34	0.00	10.34
31	0	0	0	0	0.00	0.00	0.00	300	400	500	0	9.65	0.00	9.65
Maximum	0	0	0	0	0.00	0.00	0.00	500	500	500	0	12.53	0.00	12.53
Minimum	0	0	0	0	0.00	0.00	0.00	193	325	428	0	8.10	0.00	8.10
Average	0	0	0	0	0.00	0.00	0.00	255	434	475	0	9.63	0.00	9.63
Month Total					0.00	0.00	0.00					297.66	0.00	297.66

Summary of inter regional exchanges for January 2005

Date	Sahupuri - Karamnasa							Rihand-Son Nagar						
	Peak MW	Off Peak MW	Max Import	Max Export	Energy Import	Energy Export	Total	Peak MW	Off Peak MW	Max Import	Max Export	Energy Import	Energy Export	Total
	MW	MW	MW	MW	MU	MU	MU	MW	MW	MW	MW	MU	MU	MU
01	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
02	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
03	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
04	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
05	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
06	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
07	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
08	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
09	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
10	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
11	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
12	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
13	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
14	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
15	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
16	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
17	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
18	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
19	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
20	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
21	0	0	0	0	0.00	0.00	0.00	-20	-25	0	27	0.00	0.55	-0.55
22	0	0	0	0	0.00	0.00	0.00	-17	-18	0	22	0.00	0.55	-0.55
23	0	0	0	0	0.00	0.00	0.00	-17	-18	0	22	0.00	0.50	-0.50
24	0	0	0	0	0.00	0.00	0.00	-22	-18	0	25	0.00	0.56	-0.56
25	0	0	0	0	0.00	0.00	0.00	0	0	0	25	0.00	0.56	-0.56
26	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
27	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
28	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
29	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
30	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
31	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
Maximum	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27.00	0.00	0.56	0.00
Minimum	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-22.00	-25.00	0.00	0.00	0.00	0.00	-0.56
Average	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-2.45	-2.55	0.00	3.90	0.00	0.09	-0.09
Month Total					0.00	0.00	0.00					0.00	2.71	-2.71

POWERGRID CORPORATION OF INDIA LTD.
NRLDC, New Delhi

Smmary of inter regional exchanges for January 2005

Date	Shahupuri-Pussauli							Rihand- Garvha						
	Peak MW	Off Peak MW	Max Import	Max Export	Energy Import	Energy Export	Total	Peak MW	Off Peak MW	Max Import	Max Export	Energy Import	Energy Export	Total
	MW	MW	MW	MW	MU	MU	MU	MW	MW	MW	MW	MU	MU	MU
01	132	150	158	0	2.94	0.00	2.94	0	0	0	0	0.00	0.00	0.00
02	128	125	181	0	3.09	0.00	3.09	0	0	0	0	0.00	0.00	0.00
03	84	122	172	0	2.88	0.00	2.88	0	0	0	0	0.00	0.00	0.00
04	84	122	172	0	2.80	0.00	2.80	0	0	0	0	0.00	0.00	0.00
05	125	120	151	0	2.68	0.00	2.68	0	0	0	0	0.00	0.00	0.00
06	140	110	145	0	2.84	0.00	2.84	0	0	0	0	0.00	0.00	0.00
07	145	120	145	0	2.75	0.00	2.75	0	0	0	0	0.00	0.00	0.00
08	125	85	188	0	3.11	0.00	3.11	0	0	0	0	0.00	0.00	0.00
09	128	168	175	0	3.11	0.00	3.11	0	0	0	0	0.00	0.00	0.00
10	159	128	165	0	3.34	0.00	3.34	0	0	0	0	0.00	0.00	0.00
11	132	166	176	0	3.11	0.00	3.11	0	0	0	0	0.00	0.00	0.00
12	136	162	176	0	3.29	0.00	3.29	0	0	0	0	0.00	0.00	0.00
13	136	162	182	0	2.89	0.00	2.89	0	0	0	0	0.00	0.00	0.00
14	145	150	182	0	2.84	0.00	2.84	0	0	0	0	0.00	0.00	0.00
15	157	130	157	0	2.88	0.00	2.88	0	0	0	0	0.00	0.00	0.00
16	162	130	168	0	3.11	0.00	3.11	0	0	0	0	0.00	0.00	0.00
17	132	121	167	0	2.48	0.00	2.48	0	0	0	0	0.00	0.00	0.00
18	137	124	165	0	3.07	0.00	3.07	0	0	0	0	0.00	0.00	0.00
19	130	85	150	0	3.09	0.00	3.09	0	0	0	0	0.00	0.00	0.00
20	130	125	142	0	2.74	0.00	2.74	0	0	0	0	0.00	0.00	0.00
21	130	125	155	0	3.04	0.00	3.04	0	0	0	0	0.00	0.00	0.00
22	145	150	150	0	3.06	0.00	3.06	0	0	0	0	0.00	0.00	0.00
23	130	150	150	0	3.20	0.00	3.20	0	0	0	0	0.00	0.00	0.00
24	134	166	187	0	3.28	0.00	3.28	0	0	0	0	0.00	0.00	0.00
25	120	134	190	0	3.16	0.00	3.16	0	0	0	0	0.00	0.00	0.00
26	115	150	157	0	3.38	0.00	3.38	0	0	0	0	0.00	0.00	0.00
27	110	155	165	0	3.46	0.00	3.46	0	0	0	0	0.00	0.00	0.00
28	150	176	178	0	2.94	0.00	2.94	0	0	0	0	0.00	0.00	0.00
29	120	150	158	0	3.09	0.00	3.09	0	0	0	0	0.00	0.00	0.00
30	128	119	140	0	3.27	0.00	3.27	0	0	0	0	0.00	0.00	0.00
31	125	95	125	0	2.66	0.00	2.66	0	0	0	0	0.00	0.00	0.00
Maximum	162	176	190	0	3.46	0.00	3.46	0	0	0	0	0.00	0.00	0.00
Minimum	84	85	125	0	2.48	0.00	2.48	0	0	0	0	0.00	0.00	0.00
Average	131	135	164	0	3.02	0.00	3.02	0	0	0	0	0.00	0.00	0.00
Month Total					92.34	0.00	92.34					0.00	0.00	0.00

XV. Status Of Installation Of Shunt Capacitors As On 31.01.2005**(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 2004-05 upto 31.01.2005	Balance to be installed during 2004-05	Capacitors installed as on 31.01.2005
DELHI	3135	** 3021	567	-	190	377	3211
HARYANA	2920	3269	141	500	147	-6	3416
PUNJAB	4564	4721	551	500	159	392	4880
RAJASTHAN	2650	2895	189	500	269	-80	3164
UP	4890	5192	477	700	0	477	5192
UTTRANCHAL	350	125	244	45	55	189	180
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	820	2235	20982

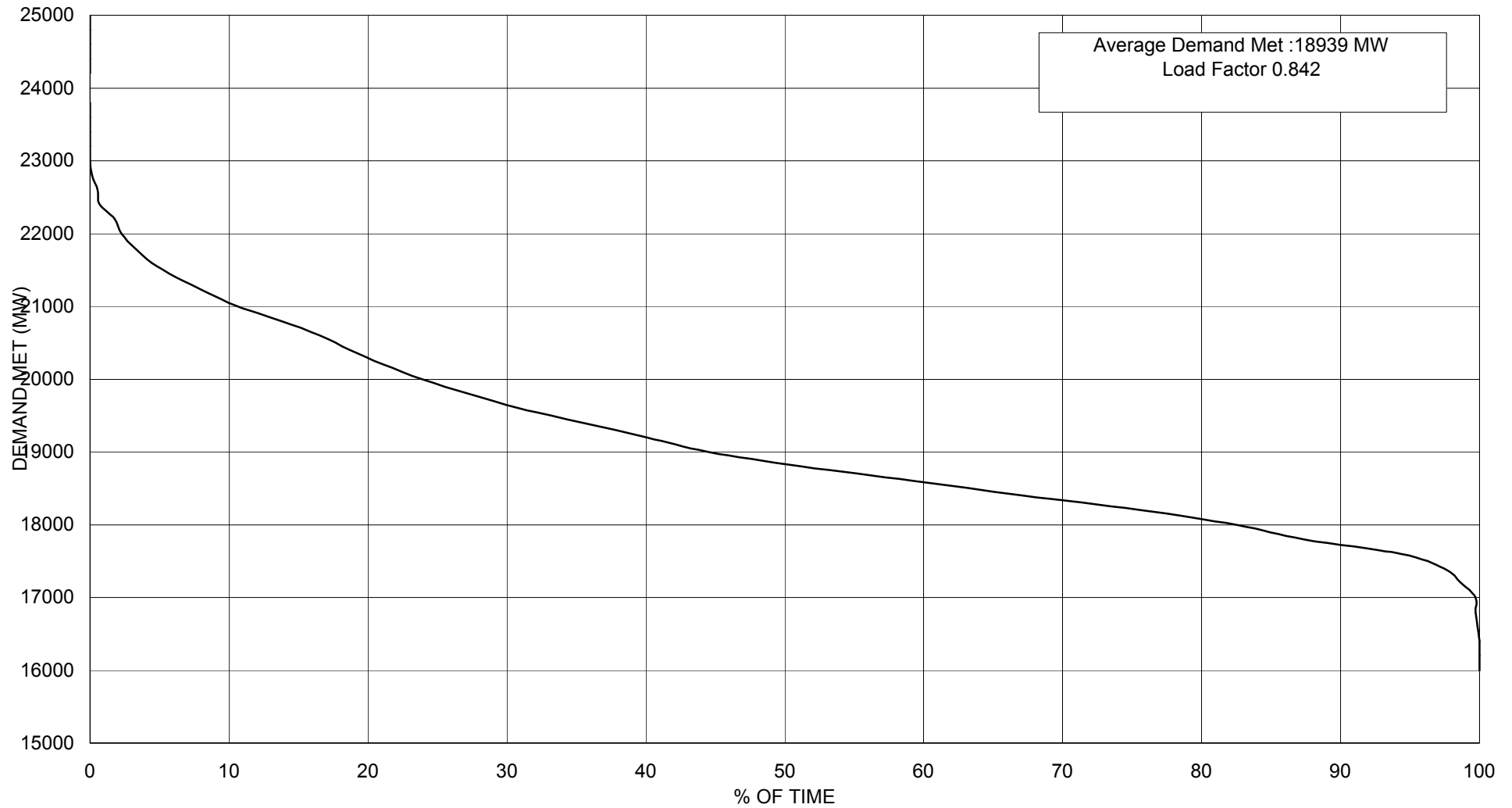
NOTE: However the effective installed capacitors are assumed to be 85% of column II** i.e 17195

XVI. Hydraulic Data For Reservoirs During January 2005

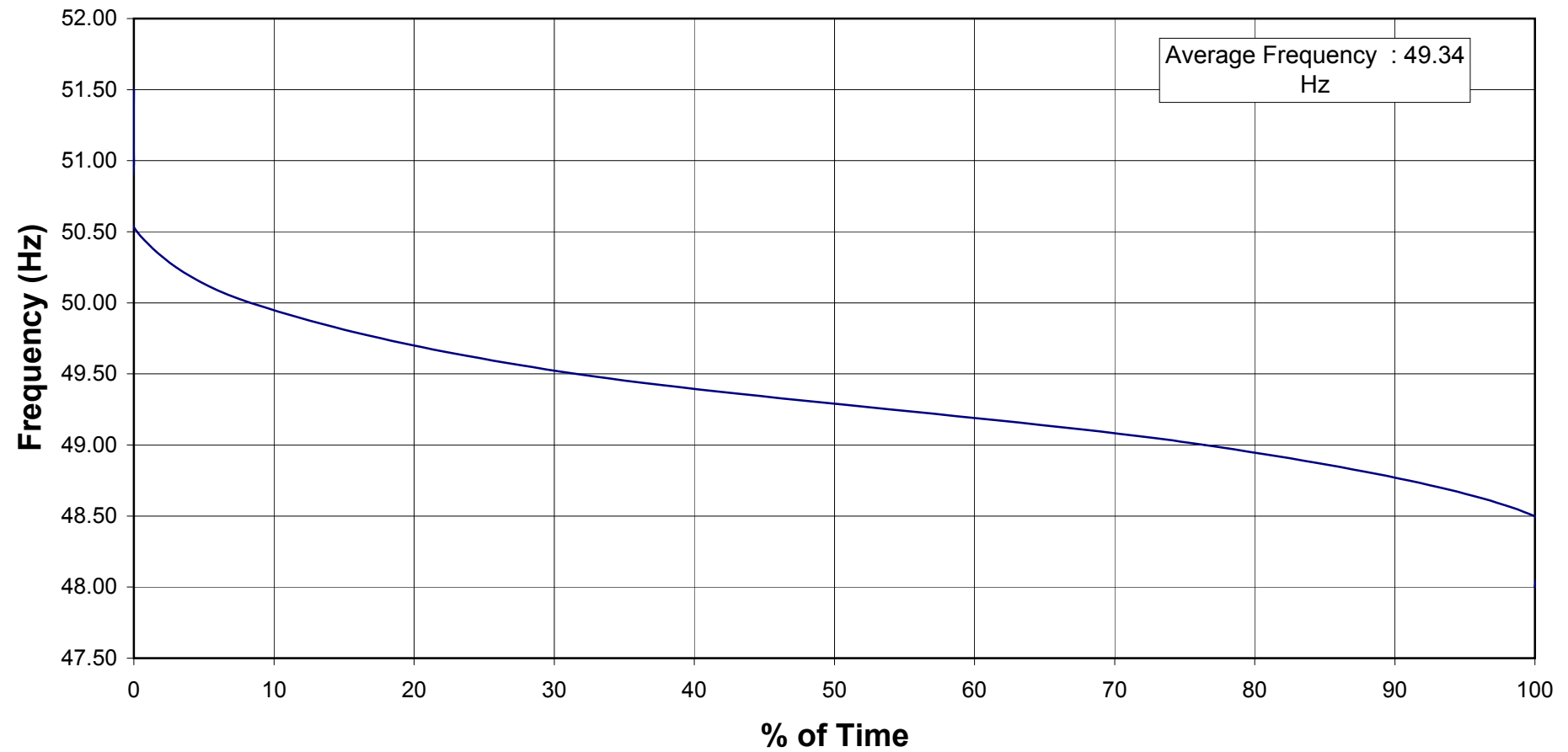
Item	Bhakra	Pong	Rihand	R.P.S.	Gandhi Sagar (M.P.)
Full Reservoir Level (m) (FRL) (ft)	514.50 1688.00	433.12 1421.00	268.22 880.00	352.65 1157.00	402.64 1321.00
Min. Draw Down Level (m) (MDDL) (ft)	445.62 1462.00	384.05 1260.00	252.98 830.00	342.90 1125.00	381.00 1250.00
Level on last day of JANUARY 2005 (m)	469.08 1538.97	401.54 1317.40	256.73 842.30	349.95 1148.14	388.16 1273.49
Level on last day of JANUARY 2004 (m)	485.35 1592.36	406.05 1332.17	260.91 856.00	344.65 1130.73	382.55 1255.07
Live Capacity as on (mhmt) last day of JANUARY 2005 (maft)	0.16 1.30	0.20 1.62	0.07 0.57	0.11 0.89	0.14 1.13
Live Capacity as on (mhmt) last day of JANUARY 2004(maft)	0.32 2.57	0.22 1.82	0.25 2.05	0.02 0.16	0.03 0.23
Energy content as on last day of JANUARY 2005 (MU)	560.00	270.00	150.00	194.00	400.00
Energy content as on last day of JANUARY 2004 (MU)	1150.00	310.00	480.00	34.00	70.00
Maximum level (m) (ft) (date)	475.76 1560.88 01.01.2005	403.62 1324.21 01.01.2005	256.95 843.00 01.01.2005	349.95 1148.14 31.01.2005	390.53 1281.28 01.01.2005
Minimum level (m) (ft) (date)	469.08 1538.97 31.01.2005	401.54 1317.40 31.01.2005	256.73 842.30 31.01.2005	349.45 1146.50 01.01.2005	388.16 1273.49 31.01.2005

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

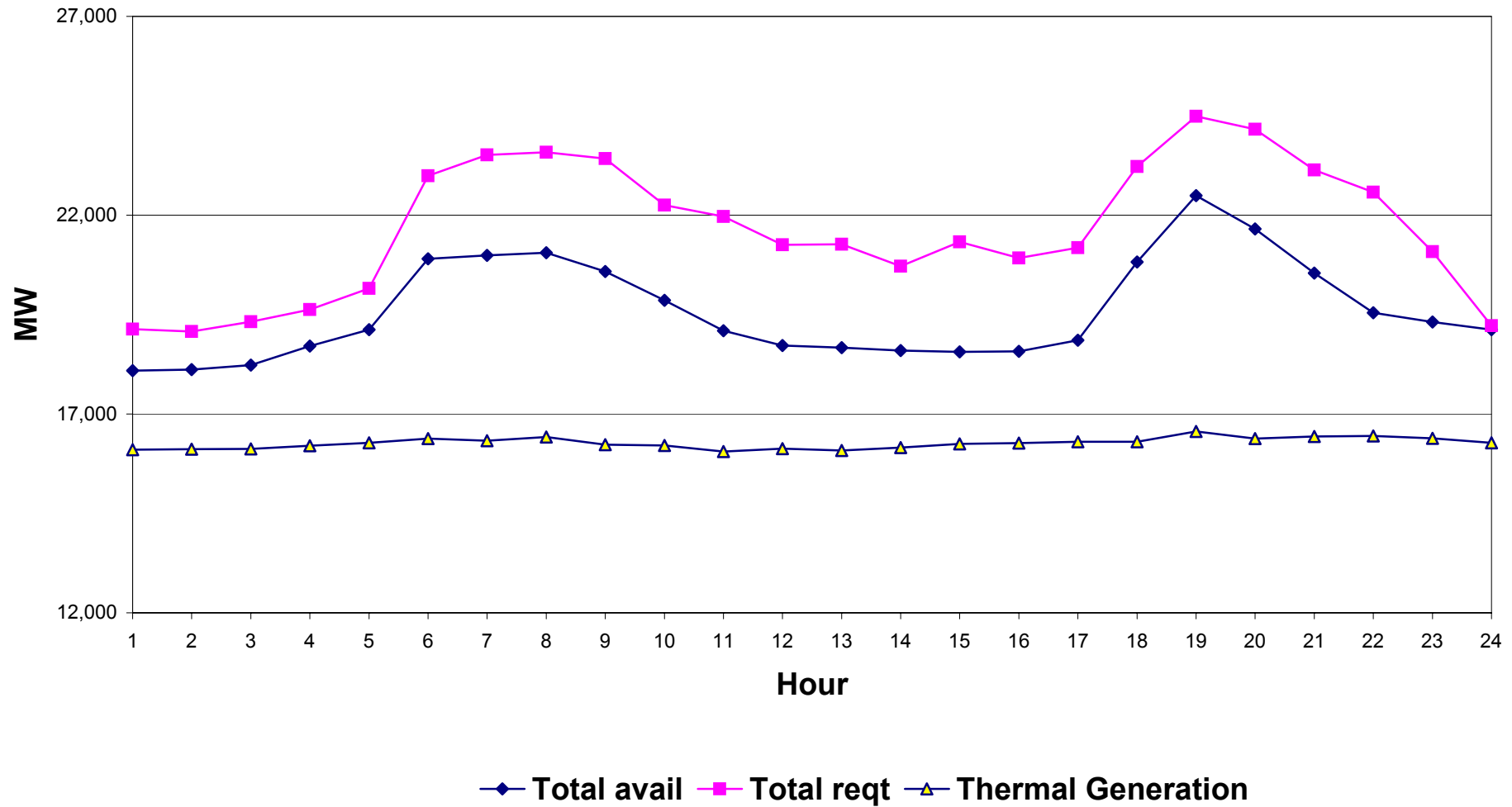
Load Duration Curve For Northern Region For January 2005



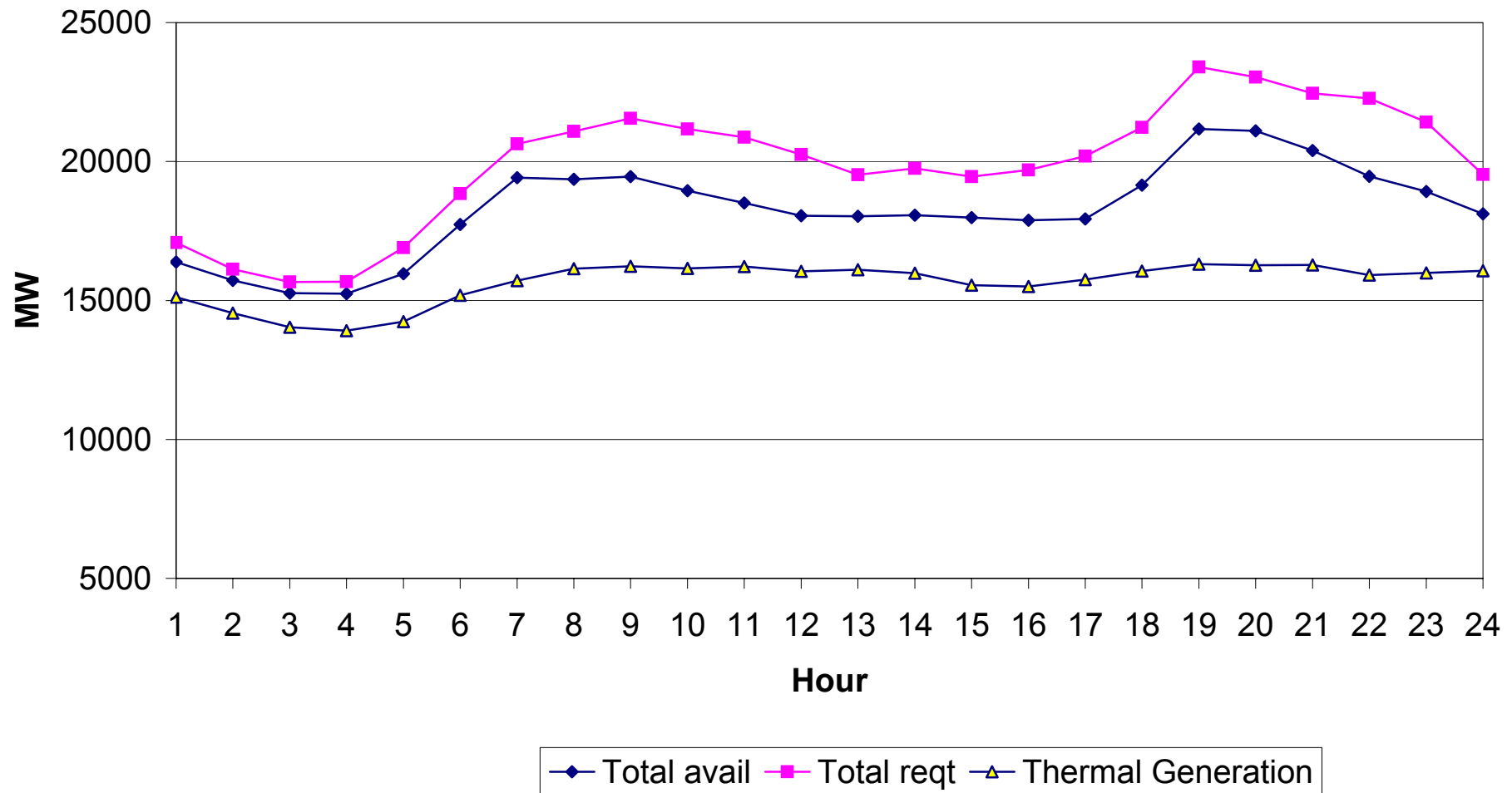
Frequency Duration Curve For Northern Region For January 2005

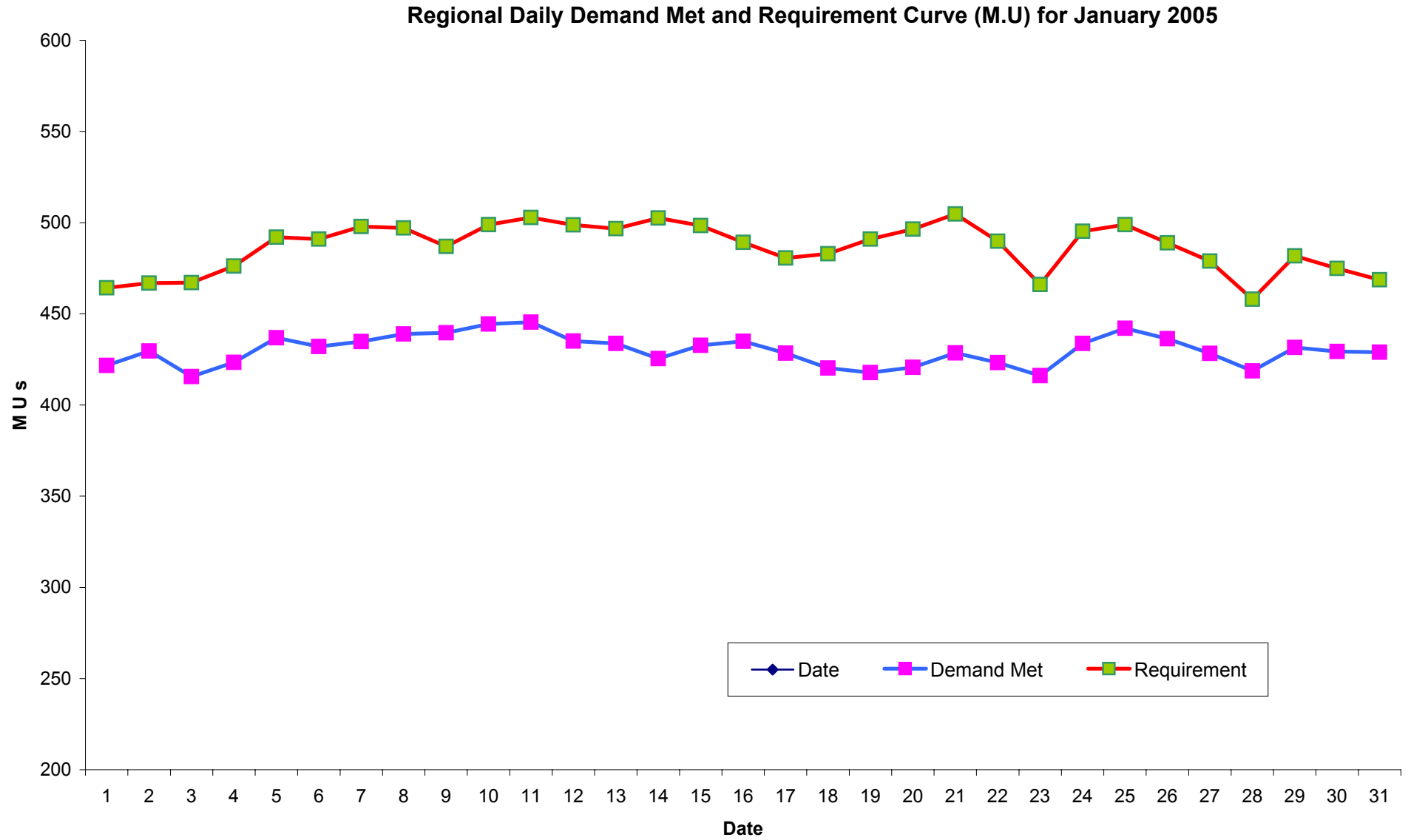


Load Curve Of Northern Region For Maximum Demand Met Day (10th January 2005)



Load Curve Of Northern Region For Minimum Demand Met Day (28th January 2005)





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