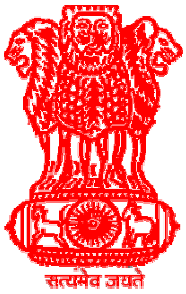


भारत सरकार Government of India
विद्युत मंत्रालय Ministry of Power
केंद्रीय विद्युत प्राधिकरण
Central Electricity Authority

उत्तर पूर्वी क्षेत्रीय विद्युत समिति
North Eastern Regional Power Committee

शिलोंग Shillong

Progress Report

For the month of

April, 2010

CONTENTS

NORTH EASTERN REGIONAL POWER COMMITTEE

Brief highlights of North Eastern Regional Power System for the month of April, 2010

The maximum unrestricted demand during the month of April, 2010 was 1577 MW, which was 1565 MW in the month of March, 2010. The peak demand met in NER during the period under review was 1358 MW, which was same as last month.

The maximum, minimum & average system frequency were 50.51, 48.51 & 49.41 Hz respectively. The maximum, minimum & average FVI were 12.877, 1.890 & 5.579 respectively. The average FVI was more than its previous month's figure. (refer Annex-II).

Maximum export of power from NER to ER was 329 MW (on 04/04/10 at 21:00 hrs) and that from ER to NER was 424 MW (06/04/10 at 10:00 hrs). Total net energy import during the month was 81.69 MU (from ER).

SALIENT FEATURES OF
NORTH EASTERN REGIONAL GRID FOR APRIL, 2010

1	New unit/ transmission lines/Transformers commissioned during this month		Nil	
2	Number of total grid disturbance during this month		2 (Two)	
			Apr-10	Apr-09
3	**Installed Capacity** of the Region (in MW)(grid)		2033.12	2036.78
4	**Energy Generation in MU (Gross)::**			
	Thermal		334.595	365.508
	Hydel		182.101	153.648
	Diesel / Oil		0.000	0.000
	Total		516.696	519.156
5	**Demand in MW ::**			
	Registered Peak demand		1577.00	1459.95
	Peak demand met		1358.00	1270.00
	Shortage (% age)		-13.89	-13.01
6	**Regional Energy(Gross) in MU ::**			
	Energy requirement		691.52	700.42
	Energy availability		582.64	609.98
	Surplus (+) / Deficit (-) (% age)		-15.75	-12.91
7	**Inter Regional Energy Exchange in MU ::**			
	NER ----> ER		15.320	1.560
	ER ----> NER		97.010	103.480
	Net Export		-81.690	-101.92
8	**Frequency profile ::**			
	Average frequency (Hz)		49.41	49.46
	Average Frequency Variation Index		5.579	3.767
9	Load Factor (in %)		51.31	66.71

ENERGY GENERATION IN THE REGION FOR THE MONTH OF Apr-10

All figures in MU

Constituents	Hydro		Coal / Oil fired		Gas Based(OpenCycle)		Gas Based(Com Cycle)		Total(gen)	Total(gen)
	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net
	A	B	C	D	E	F	G	H	I	J
State Sector :										
Assam	6.650	6.584	0.000	0.000	68.500	67.815	45.450	44.087	120.600	118.485
Meghalaya	21.080	20.869	0.000	0.000	0.000	0.000	0.000	0.000	21.080	20.869
Mizoram	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Tripura	0.000	0.000	0.000	0.000	47.305	46.832	0.000	0.000	47.305	46.832
Nagaland	2.500	2.475	0.000	0.000	0.000	0.000	0.000	0.000	2.500	2.475
Total (State Sector)									**191.485**	**188.661**
Central Sector :										
NEEPCO :										
Khd+Kop+Kop-II	14.450	14.306	0.000	0.000	0.000	0.000	0.000	0.000	14.450	14.306
K'guri	0	0	0.000	0.000	0	0	119.810	116.216	119.810	116.216
RCNagar	0	0	0	0	53.530	52.995	0	0	53.530	52.995
Doyang	3.460	3.425	0	0	0	0	0	0	3.460	3.425
Ranganadi	96.840	95.872	0	0	0	0	0	0	96.840	95.872
NHPC :										
Loktak	38.410	38.026	0.000	0.000	0.000	0.000	0.000	0.000	38.410	38.026
Total (Central Sector)									326.500	320.839
Total NER	183.390	181.556	0.000	0.000	169.335	167.642	165.260	160.302	**517.985**	**509.500**

REQUIREMENT Vs AVAILABILITY IN THE REGION

STATES	ENERGY requirement (MU) at 50 Hz				POWER requirement (MW) at 50 Hz			
	Availability & L/S at prevailing freq.				*Availability & L/S at prevailing freq.*			
	Requirt.	Availy.	Shortfall	%Shortfall	Requirt.	Availy.**	Shortfall	%Shortfall
Ar.Pr.	33.44	26.65	6.79	20.31%	85	73	12	13.99%
Assam	384.33	334.20	50.13	13.04%	851	782	69	8.07%
Manipur	38.32	29.11	9.22	24.05%	90	87	3	2.81%
M'laya	98.14	73.44	24.70	25.17%	281	191	90	31.93%
Mizoram	27.78	23.01	4.78	17.19%	60	53	7	11.88%
Nagaland	41.55	35.88	5.68	13.66%	98	91	7	7.27%
Tripura	67.97	60.37	7.60	11.18%	131	121	10	7.93%
REGION	691.52	582.64	108.88	15.75%	1577	1358	219	13.87%

ESTIMATION OF PEAK DEMAND (in MW)

Constituents	Peak Demand Met	Date	Freq. (Hz)	Freq. Corr.**	L/S	Estimated Peak demand at 50 Hz
Arunachal Pradesh	73.00	21/04/2010	49.60	0.88	11	84.88
Assam	782.00	12/04/2010	49.42	13.61	55	850.61
Manipur	87.00	12/04/2010	49.42	1.51	1	89.51
Meghalaya	191.00	03/04/2010	48.85	6.59	83	280.59
Mizoram	53.00	27/04/2010	49.28	1.14	6	60.14
Nagaland	91.00	03/04/2010	48.85	3.14	4	98.14
Tripura	121.00	26/04/2010	49.61	1.42	9	131.42
REGION	1358.00	12/04/2010	49.42	23.63	195	1576.63

** Freq.Correction = Demand met x 0.03 x (50 - Av. Freq.)

ESTIMATION OF ENERGY REQUIREMENT (in MU)

Average Frequency 49.41 Hz

Constituents	Generation	Energy drawal from grid			Over(+) / Under(-) Drawal	Energy Availability*	Freq. Corr.**	L / S	Actual Requirement
		Entitlement frm ISGS of NER	Entitlement frm ISGS of ER	Drawal					
Ar.Pr.	0.000	31.954	2.171	26.647	-7.478	26.647	0.472	6.32	33.439
Assam	118.485	155.441	87.065	215.717	-26.788	334.202	5.915	44.21	384.328
Manipur	0.000	34.988	0.000	29.107	-5.881	29.107	0.515	8.70	38.322
M'laya	20.869	38.603	17.276	52.567	-3.312	73.436	1.300	23.40	98.136
Mizoram	0.000	18.295	0.000	23.005	4.710	23.005	0.407	4.37	27.783
Nagaland	2.475	19.160	8.904	33.402	5.338	35.877	0.635	5.04	41.552
Tripura	46.832	30.583	0.000	13.535	-17.048	60.367	1.068	6.53	67.965
REGION	188.661	329.025	115.416	393.980	-50.460	582.641	10.313	98.57	691.524

*Energy availability means energy consumed by constituents

** Freq.Correction = Demand met x 0.03 x (50 - Av.Freq.)

ENERGY GENERATED (MU) AND PEAK GENERATION (MW) FROM GENERATING STATIONS/UNITS:

Sl. No.	Power Sations / Units	Installed Capacity(MW)	Peak Generation(MW)	Energy Generation (MU)	
				Apr-10	Apr-09
	STATE SECTOR : HYDRO				
	ASSAM :: HYDRO				
1	KARBI HEP U - 1	50.00	50.00	3.210	14.180
2	KARBI HEP U - 2	50.00	50.00	3.440	1.512
	TOTAL	100.00		6.65	15.692
	MEGHALAYA :: HYDRO				
1	STAGE - 1	36.00	27.00	3.580	6.940
2	STAGE - 2	18.00	13.50	6.090	3.400
3	STAGE - 3	60.00	30.30	8.890	8.860
4	STAGE - 4	60.00	55.10	2.360	9.360
5	UMTRU	11.20	17.40	0.160	3.970
6	SAONAPANI			0.000	0.000
	TOTAL	185.20		21.080	32.530
	NAGALAND :: HYDRO				
6 7 8	LIKIMRO - 1 LIKIMRO - 2 LIKIMRO - 3	24.00	5.00	1.210	2.750
	TOTAL	24.00		1.210	2.750
	TRIPURA :: HYDRO				
9	GUMTI - 1	5.00	Gumti Stn. Peak =0 MW	0.000	0.000
10	GUMTI - 2	5.00		0.000	0.000
11	GUMTI - 3	5.00		0.000	0.987
	TOTAL	15.00		0.000	0.987
TOTAL STATE (HYDRO) :		324.20		28.940	51.959

ENERGY GENERATED (MU) AND PEAK GENERATION (MW) FROM GENERATING STATIONS/UNITS:

Sl. No.	Power Sations / Units	Installed Capacity(MW)	Peak Generation(MW)	Energy Generation (MU)	
				Apr-10	Apr-09
	STATE SECTOR : THERMAL/GAS				
	MIZORAM ::Thermal				
1	Bairabi	22.92	0.00	0.000	0.000
	TRIPURA :: THERMAL				
1	BARAMURA - 1	5.00	Baramura Stn. Peak = 21 MW	0.000	0.000
2	BARAMURA - 2	5.00		0.000	0.000
3	BARAMURA - 3	6.50		0.000	0.000
4	BARAMURA - 4	21.00		13.425	14.545
5	ROKHIA - 1	8.00	Rokhia Stn. Peak = 57.9 MW	0.000	0.000
6	ROKHIA - 2	8.00		0.000	0.000
7	ROKHIA - 3	8.00		4.070	3.955
8	ROKHIA - 4	8.00		2.505	3.265
9	ROKHIA - 5	8.00		0.000	0.000
10	ROKHIA - 6	8.00		0.000	0.000
11	ROKHIA - 7	21.00		14.115	14.602
12	ROKHIA - 8	21.00		13.190	14.389
	TOTAL	127.50		47.305	50.756
	ASSAM :: THERMAL				
1	LTPS - 1	15.00	LTPS Stn. Peak = 106 MW	8.950	9.310
2	LTPS - 2	15.00		5.040	8.220
3	LTPS - 3	15.00		9.510	5.530
4	LTPS - 4	15.00		9.250	8.730
5	LTPS - 5	20.00		9.530	12.260
6	LTPS - 6	20.00		14.090	11.650
7	LTPS - 7	20.00		6.880	7.860
8	NTPS - 1	20.00	NTPS Stn. Peak = 95 MW	10.470	13.640
9	NTPS - 2	21.00		9.990	11.480
10	NTPS - 3	21.00		9.080	9.050
11	NTPS - 4	11.00		5.990	0.000
12	NTPS - 5	22.00		7.910	8.560
13	NTPS - 6	22.00		2.010	7.150
14	DLF	24.50		5.250	7.160
	TOTAL	261.50		113.950	120.600
TOTAL STATE THERMAL/GAS :		411.92		161.255	171.356
TOTAL SC GEN(HY+TH/GAS)		**736.12**		**190.195**	**223.315**

ENERGY GENERATED (MU) AND PEAK GENERATION (MW) FROM GENERATING STATIONS/UNITS:

Sl. No.	Power Sations / Units	Installed Capacity(MW)	Peak Generation(MW)	Energy Generation (MU)	
				Apr-10	Apr-09
	CENTRAL SECTOR : HYDRO				
1	KHANDONG - 1	25.00	0.00	0.000	1.115
2	KHANDONG - 2	25.00	0.00	0.000	0.900
3	KOPILI Stg - II	25.00	0.00	0.000	1.404
4	KOPILI - 1	50.00	0.00	0.000	8.260
5	KOPILI - 2	50.00	50.00	2.610	0.050
6	KOPILI - 3	50.00	50.00	6.970	6.240
7	KOPILI - 4	50.00	50.00	4.870	3.120
8	DOYANG -1	25.00	Doyang Stn. Peak = 46.5 MW	1.190	1.080
9	DOYANG -2	25.00		1.000	1.300
10	DOYANG -3	25.00		1.270	1.260
11	LOKTAK - 1	35.00	Loktak Stn. Peak = 65 MW	16.960	11.870
12	LOKTAK - 2	35.00		0.000	5.490
13	LOKTAK - 3	35.00		21.450	0.000
14	RANGANADI - 1	135.00	Ranganadi Stn. Peak =407 MW	27.680	22.360
15	RANGANADI - 2	135.00		30.400	18.370
16	RANGANADI - 3	135.00		38.760	18.870
	TOTAL HYDRO :	**860.00**		**153.160**	**101.689**
	CENTRAL SECTOR : THERMAL/GAS				
1	KATHALGURI - 1	33.50	Kathalguri Stn. Peak = 235 MW	17.620	20.810
2	KATHALGURI - 2	33.50		15.070	12.940
3	KATHALGURI - 3	33.50		13.810	21.350
4	KATHALGURI - 4	33.50		14.550	15.660
5	KATHALGURI - 5	33.50		12.240	13.570
6	KATHALGURI - 6	33.50		17.410	15.740
7	KATHALGURI - 7	30.00		12.080	12.960
8	KATHALGURI - 8	30.00		6.600	15.600
9	KATHALGURI - 9	30.00		10.430	11.370
10	R.C.NAGAR - 1	21.00	RC Nagar Stn. Peak = 82 MW	13.610	13.907
11	R.C.NAGAR - 2	21.00		13.320	13.773
12	R.C.NAGAR - 3	21.00		13.130	13.082
13	R.C.NAGAR - 4	21.00		13.470	13.390
TOTAL THERMAL/GAS :		375.00		173.340	194.152
TOTAL CS (HY + TH/GAS) :		1235.000		326.500	295.841
TOTAL NER GEN(HY+TH/GAS) :		**1971.120**		**516.695**	**519.156**

Plant Load Factor (PLF) and Voltage Profile : Apr-10

PLANT LOAD FACTOR OF THE THERMAL/ GAS STATIONS IN NER

Sl. No.	Power Station	State/ Constituent	Installed Capacity (MW)	Generation (in MU)	Stationwise PLF (%)
1	LTPS*	AEGCL	120.00	63.250	73.21
2	NTPS*	AEGCL	117.00	45.450	53.95
3	Baramura	Tripura	37.50	13.425	49.72
4	Rokhia	Tripura	90.00	33.880	52.28
5	AGBPP	NEEPCO	291.00	119.810	57.18
6	AGTPP	NEEPCO	84.00	53.530	**88.51**
7	Bairabi	Mizoram	22.92	0.000	0.00

*LTPS-- Lakwa Thermal Power Station, NTPS-- Namrup Thermal Power Station

VOLTAGE PROFILE :

A. MAXIMUM AND MINIMUM VOLTAGE (kV) OF IMPORTANT SUB - STATIONS :

Sl. No.	NAME OF S/S	MAXIMUM (kV)	MINIMUM (kV)
1	BALIPARA 400 kV	427	375
2	MISA 400 kV	438	375
3	MISA 220 kV	235	207
4	SALAKATI 220 kV	235	210
5	HAFLONG 132 kV	145	127
6	AIZAWL 132kV	138	124
7	KUMARGHAT 132kV	136	125

Voltage Range in kV as percentage of time for the block

SUB-STATION	kV < 360	360<kV<380	380<kV<420	kV>420
MISA	0.56	0.00	88.12	11.32
BALIPARA	1.08	0.00	97.23	1.69

1 **INTER - REGIONAL EXCHANGE :**

All Fig in MU

NER to ER	15.320
ER to NER	97.010
NET EXPORT	-81.690

2	**Major Grid Disturbances during this month**	1. On 13.04.10 at 23:48 Hrs (Cat. GD-V) 2. On 23.04.10 at 22:15 Hrs (Cat. GD-IV)

3	**MEETING HELD BY NERPC DURING THIS MONTH**	1. 49th OCC Meeting was held on 09.04.10 at NERLDC Conference hall, PGCIL, Shillong.

PROGRESS OF GENERATION PROJECTS IN NER

Name of the Generation Scheme	No. of Units	Capacity (MW)	Commissioning Schedule	REMARKS
[A] NEEPCO				
1. Monarchak TGBPP		104	2012	Activities in progress
2. Tuirial HEP Mizoram	2	2 X 30	WORKS HELD-UP	Being reviewed by PIB
3. Kameng HEP A. Pradesh	4	4X150	MAR' 2012	Activities in progress
4. Tuival H.E. Proj. Mizoram	3	3X70	2012	Status not available
5. Tipaimukh HEP		1500	2012	Activities in progress
6. Mawphu HEP	2	90	2014	UNDER CCEA
7. Pare HEP, Ar. Pradesh		110	2012	UNDER CCEA
[B] NHPC				
a). Loktak Downstream HEP	2	66	2012	Activities in progress
b) Subansiri Lower HEP		2000	2012	Activities in progress
c) Siang Middle HEP		2000	2014	Activities in progress
d) Subansiri Upper HEP		2000	DPR Under prep	
e) Subansiri Middle HEP		1000	DPR Under prep	
f) Dibang Multipurpose Project		3000	Under TEC	
[C] NTPC				
a). Bongaigaon TPS	3	3X250	Unit # I- Mar' 2011 Unit # II- Aug' 2011 Unit # III- Jan' 2012	Activities in progress
[D] JV PROJECT				
a). Palatana CCPP	2	2X323.3	Unit # I- Dec'2011 Unit # II- Mar'2012	Activities in progress
[E] ASSAM				
(a) Lakwa WHRP		37.2	2012	Activities in progress
[F] MIZORAM				
(a) Tuivai Hydel Project	2	51	2010-11	Activities in progress
(b) Bairabi Dam Project	2	2 X 40	2010-11	Activities in progress
(G) MeSEB				
(a) Myntdu - Leishka HEP	2	3x42	2009-10	Activities in progress

PROGRESS OF TRANSMISSION LINES IN NE REGION

Name of the line	Length	Commi'ng Sch		Total no.	Stubs com -	Tower	Stringing	Remarks
	(ckt kms)	Ann.pl	Ant/revd	of locs .	pleted(nos.)	Erected	complt-ckm	
A : Lines under ASEB.								
132 kV Nazira - Lakwa 2nd Ckt	21						Completed	Work in progress
132 kV, S/C Rangia - Sipajhar - Rowta- Depota	147							Work in progress
132 kV, S/C Sarusajai - Kahilipara	8							Work in progress
LILO of 132 kV Mariani - Dimapur S/C at Bokajan	6					completed		Rly Clearance awaited
132 kV Nazira- Garmur (Mariani) S/C	63							Tender is in progress
220 kV Kathalguri - Tinsukia 2nd Ckt	50	2006-07						Work in progress
D : Lines under Meghalaya :								
Myntdu Leshka-Khlieriat 132 KV D/C			2010					Work in progress
220 kV Misa-Byrinahat D/C			Mar-10					Work in progress
132 kV Agia - Nangalbibra								Work in progress
E : Lines under Mizoram :								
132 kV Khawzawl-E Lungdar S/C	48			100	100	76	0	Work in progress
132 kV Khawzawl-Ngopa S/C	57			117	117	117	57	Work in progress
132 kV Kolasib-Tuirial S/C	41			114	114	114	41(Conductor)	Work in progress
Kolasib-Sairul B D/C	25							Work in progress
132 kV Kolasib-Melriat S/C	90			369	Nil	Nil	Nil	Work in progress
132 kV Bairabi-Bawktlang S/C	30			93	91	85	14	Work in progress
132 kV Khawzawl-Champhai S/C	30			90	Nil	Nil	Nil	Work in progress
G : CTU Lines:								
1.LILO of 132 kV Dimapur-Kohima at Dimapur (PG)	2	09/2009	06/2010	3				ROW problem
2. 132 kV Kopili-Khandong	12	09/2009	03/2010	43	37	24	8	ROW problem
3. 132 kV Aizwal-Aizwal (Deposit Work)			03/2010					
4.+/- 800 kV HVDC Bipol Bis'nath Chariali-Agra	1971	08/2013	08/2013	1343	174			Award is in progress
5. 400 kV Balipara - Biswanath Chariali D/C	130	08/2013	08/2013	167	25	5		
6.LILO of 400 kV R'nadi-Balipara D/C at Bis Chariali	54	08/2013	08/2013	68				Engg.&survey under progre
7. 400 kV Kameng - Balipara D/C	110	02/2013	02/2013	142	7			
8.400 kV Balipara - Bongaigaon D/C	596	02/2013	03/2012	838	205	44		
9. 400 kV Lower Subansiri - Biswanath Chariali line-I	334	02/2013	03/2012	432	80	18		
10. 400 kV Lower Subansiri - Biswanath Chariali line-II	340	02/2013	03/2012	442	13	3		
11. 132 kV D/C Biswanath Chariyali- B. Chariyali (AEGCL)	32	08/2013	08/2013	55				Engg.&survey under prog.
12.400 kV Palatana - Silchar	248							
13.400 kV Silchar - Bongaigaon	405							

Name of the line	Length	Commi'ng Sch		Total no.	Stubs com -	Tower	Stringing	Remarks
	(ckt kms)	Ann.pl	Ant/revd	of locs .	pleted(nos.)	Erected	complt-ckm	
H : Lines under Arunachal Pradesh								
i) Transmission Lines Plan works completed & on going								
1. 132 kV Nirjuli - Itanagar S/C (Under NLCPR)		2007-12				Completed	in progress	Work is in progress
2. 132 kV Along - Pasighat (Under NLCPR)		2007-12						Work is in progress
3. 132 kV Ranganadi - Itanagar S/C		2007-12						Work is in progress
ii) Proposed for XIth Five Years Plan (State)								
1. 132 kV Khupi - Seppa		2007-12						Work is in progress
2. 132 kV Line LILO at Bhalukpong		2007-12						Work is in progress
3. 132 kV Nirjuli - Banderdewa		2007-12						Work is in progress
4. 132 kV Along - Yingkiong		2007-12						Work is in progress
5. 132 kV Naharlagun - Seppa		2007-12						Work is in progress
6. 132 kV Roing - Anini		2007-12						Work is in progress
7. 132 kV Along - Reying		2007-12						Work is in progress
8. 132 kV Tezu - Roing		2007-12						Work is in progress
9. 132 kV Namsai - Tezu		2007-12						Work is in progress
10. 132 kV Ziro - Sangram		2007-12						Work is in progress
iii) Proposed for XIth Five Years Plan (NLCPR)								
1. 132 kV Pasighat - Roing		2007-12						Work is in progress
2. 132 kV Likabali - Gerukamukh		2007-12						Work is in progress
3. 132 kV Pasighat - Niglok		2007-12						Work is in progress
4. 132 kV Deomali - Khonsa		2007-12						Work is in progress
5. 132 kV Khupi - Banderdawa		2007-12						Work is in progress
6. 132 kV Banderdawa - Tawang		2007-12						Work is in progress
7. 132 kV Khonsa - Changlang		2007-12						Work is in progress
8. 132 kV Changlang - Jairampur		2007-12						Work is in progress
9. 132 kV Jairampur - Miao		2007-12						Work is in progress
10 132 kV Itanagar - Seijusa		2007-12						Work is in progress
11. 132 kV Seijusa - Balipara		2007-12						Work is in progress
iv) Proposed for XIth Five Years Plan (NEC)								
1. 132 kV Niglok - Likabali		2007-12						Work is in progress
2. 132 kV Itanagar - Gohpur		2007-12						Work is in progress

UI Receivable/ Payable for the month of Apr-10

Organisation	Actual (MU)	Schedule (MU)	UI Energy (MU)	UI Receivable (Rs. in Lakhs)	UI Payable (Rs. in Lakhs)
Arunachal Pradesh	26.647	27.449	-0.802	145.98	114.88
ASEB	215.717	241.226	-25.509	1475.29	144.41
Manipur	29.107	36.879	-7.772	452.77	16.75
MeSEB	52.567	49.932	2.635	127.93	298.46
Mizoram	23.005	20.699	2.307	72.97	195.85
Nagaland	33.402	27.378	6.024	73.93	456.59
Tripura	13.535	18.773	-5.238	380.05	70.43

Entitlement, Schedule, Drawal and UI Charges Apr-10

	Entitlement from CGSs (MU)	Drawal Schedule from CGSs (MU)	Net Schedule from Grid (MU)	Actual Drawal from Grid (MU)	Over Drawal (+) / Under Drawal (-) (MU)	UI Payable (-)/ Receivable (+) (Rs. In Cr)
Arunachal Pradesh	31.954	32.033	27.449	26.647	-0.802	0.311
ASEB	155.441	155.062	241.226	215.717	-25.509	13.309
Manipur	34.988	35.034	36.879	29.107	-7.772	4.360
MeSEB	38.603	38.603	49.932	52.567	2.635	-1.705
Mizoram	18.295	18.293	20.699	23.005	2.307	-1.229
Nagaland	19.160	19.113	27.378	33.402	6.024	-3.827
Tripura	30.583	30.887	18.773	13.535	-5.238	3.096

(Source : UI A/c, NERPC)

Schedule for ISGS's Generation and State's Drawl for the month of Apr-10

States	Schedule From ISGS(MWH)	Bilateral Schedule from Outside NER (MWH)	Total Schedule (MWH)	Ex.PP. Drawal (MWH)	Tr. Energy (MWH)
Arunachal Pradesh	31829.36		31829.36	27690.30	31829.36
ASEB	154317.32	90078.050000	244395.37	224164.40	244395.37
Manipur	34815.08		34815.08	30246.85	34815.08
MeSEB	38357.84	17784.025000	56141.87	54625.37	56141.87
Mizoram	18173.93		18173.93	23906.26	23906.26
Nagaland	19037.53	9211.68	28249.21	34709.63	34709.63
Tripura	30361.26		30361.26	14064.95	30361.26
Total	326892.33	117073.75	443966.08	409407.76	456158.83

ISGS	Schedule (MWH)	Injection (MWH)
LOKTAK	36846.62	37195.73
KHANDONG	0.00	-147.31
KOPILI-I	14539.56	14171.54
KOPILI-II	0.00	-22.62
DHEP	3067.06	3052.54
RHEP	104017.17	104401.21
AGTPP	51411.59	52436.78
AGBPP	117010.34	116629.94
Total	326892.33	327717.80

Source : Provisional REA for the month: Apr-10

Cumulative wt. Average Share Allocation (%) (Up to this month) in CS Stations

States	KOPILI (200 MW)	KOPILI-II (25 MW)	KHANDONG (50 MW)	RHEP (405 MW)	DHEP (75 MW)	AGBPP (291 MW)	AGTPP (84 MW)	Loktak HEP (90 MW)
Arunachal Pradesh	5.193	6.193	4.192	18.462	6.882	5.693	6.180	4.942
Assam	53.455	46.615	56.277	43.328	43.742	56.465	45.178	29.415
Manipur	7.385	7.225	6.565	8.373	7.893	8.125	8.143	30.115
Meghalaya	17.150	18.650	16.650	11.250	11.230	11.550	11.340	12.140
Mizoram	4.619	6.278	3.940	5.710	5.240	5.429	6.190	5.068
Nagaland	6.155	5.656	6.653	5.335	17.935	5.805	5.607	6.427
Tripura	6.043	9.383	5.723	7.542	7.078	6.933	17.362	11.893
Total	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00

Details of Fixed and Energy Charges of CS Stations for FY 2009-10

Projects	Installed Capacity (MW)	Design Energy (GWh)	Annual Fixed Charge (Rs. Crore)	Reference
KOPILI HEP	200	1186.14*	57.6738 *	*As per CERC order dated 19.02.08 in petition No 76/2007.
KOPILI -II	25	86.3*	12.9511 **	* Provisional, ** As per CERC order dated 01.01.08 in pet. No 70/2006
KHANDONG HEP	50	277.61*	19.6328 *	*As per CERC order dated 14.01.08 in petition No 26/2007.
RHEP	405	1509.69	203.4081	*As per CERC order dated 30.04.08 in petition No 89/2007.
DHEP	75	227.24	58.5 *	*As per CERC order dated 03.10.07 in petition No 88/2007.
AGBPP	291	NA	233.59 *	*As per CERC order dated 22.02.08 in Pet.No150/ /2005, ^ Base Rate of energy Charge as per CERC Order
AGTPP	84	NA	52.71 *	*As per CERC order dated 20.02.08 in Pet.No 135/2005,^Base Engy. charge as per CERC order
LOKTAK HEP	105	448.00	50.0353 *	*As per CERC order dated 05.09.07 in Pet.No 171/2004

HOURLY DATA ON PEAK DEMAND MET DAY

DATE:- 12.04.2010

All figures in MW

HRS.	Total ISGS Injection (MW)	STATE SECTOR													ER					Total Drawal by States
		ASEB			MeSEB			Tripura			Manipur	Mizoram	Nagaland	ArPr		Total N.E.R GEN	Total Demand Met	Gross Demand met	Actual Loss	
		GEN	Drawal	Demand Met	GEN	Demand Met	Drawal	GEN	Demand Met	Drawal	DM	DM	DM	DM	IMPORT(+)/ EXPORT(-)					
1	295.44	220	272.02	492.5	29	155.7	126.58	80	77.0	-2.59	32.45	30.05	42.10	41.30	268.03	624.56	871.02	892.67	21.7	273.79
2	295.60	220	256.98	476.8	5	98.2	93.24	79	75.1	-4.28	32.52	30.12	41.50	43.37	218.57	599.88	797.73	818.53	20.8	274.80
3	322.29	220	258.10	478.1	5	122.5	117.47	79	73.4	-5.80	23.09	29.71	42.14	44.97	204.38	626.55	813.94	831.01	17.1	305.22
4	325.77	221	254.38	475.0	5	137.9	132.94	80	73.1	-6.59	22.37	27.71	42.70	44.20	218.07	631.00	822.92	849.15	26.2	299.55
5	332.78	221	251.66	472.2	5	157.4	152.41	79	73.6	-5.70	32.26	28.99	48.14	47.21	255.42	637.62	859.80	893.13	33.3	299.46
6	358.00	220	278.68	498.4	5	142.0	136.98	79	78.7	-0.48	58.26	39.25	60.96	45.12	278.69	661.93	922.71	940.71	18.0	340.01
7	354.19	218	310.90	528.9	18	167.5	149.54	79	82.2	3.28	61.76	31.36	56.50	41.96	322.84	669.01	970.13	991.93	21.8	332.39
8	353.58	221	321.50	542.2	56	156.6	100.37	79	85.8	6.80	61.43	32.89	51.10	37.75	277.55	709.45	967.71	987.08	19.4	334.21
9	369.33	220	348.08	568.5	57	169.4	112.75	79	86.2	7.58	58.52	34.10	43.84	31.48	287.28	724.94	991.97	1012.30	20.3	349.00
10	385.68	221	354.17	575.1	56	160.6	104.67	78	85.3	7.43	54.10	36.46	46.09	30.18	269.53	740.49	987.92	1010.10	22.2	363.49
11	329.26	221	325.74	546.7	56	112.3	56.42	76	82.7	6.49	48.38	36.94	39.82	27.53	228.94	682.36	894.41	911.38	17.0	312.29
12	325.75	142	319.57	461.4	31	108.5	77.22	75	82.2	6.87	39.75	35.99	41.92	30.19	248.26	574.19	799.96	822.54	22.6	303.17
13	280.33	141	311.49	452.9	31	111.9	80.65	74	83.3	8.91	23.81	37.40	40.67	31.04	279.50	527.36	781.00	806.94	25.9	254.39
14	309.76	143	309.26	452.4	31	112.4	81.00	67	75.0	8.51	48.52	38.94	45.33	29.78	268.49	550.89	802.46	819.46	17.0	292.76
15	337.29	146	302.05	448.4	31	118.9	87.50	66	77.2	10.94	37.66	42.98	52.13	34.06	244.48	581.33	811.36	825.89	14.5	322.76
16	338.70	145	314.10	458.7	31	139.5	108.05	67	78.3	11.69	53.11	48.27	58.74	31.93	311.89	581.26	868.45	893.24	24.8	313.91
17	336.51	138	331.96	469.7	55	121.0	65.80	67	84.1	17.26	66.22	48.31	66.45	44.85	325.17	596.33	900.67	921.67	21.0	315.51
18	534.61	139	433.96	573.3	41	130.0	89.48	69	109.0	40.38	64.40	48.44	85.24	66.89	315.91	783.01	1077.18	1099.09	21.9	512.70
19	818.30	218	531.66	749.4	46	147.2	100.77	70	112.3	42.53	75.39	50.43	72.59	66.16	210.78	1152.29	1273.52	1363.23	89.7	728.59
20	752.47	219	555.49	774.3	79	185.2	106.10	71	110.7	39.80	61.88	47.39	66.87	67.53	197.82	1121.29	1313.88	1319.27	5.4	747.08
21	638.63	218	436.48	654.9	79	175.1	96.34	71	112.2	41.18	80.91	41.98	62.34	61.43	165.18	1006.89	1188.91	1172.24	-16.7	655.31
22	512.32	218	422.25	640.1	79	162.6	83.80	71	110.6	39.44	86.40	33.06	55.73	55.27	296.50	880.20	1143.83	1176.86	33.0	479.29
23	372.95	220	326.58	546.1	58	164.3	106.33	71	88.9	17.63	76.85	31.32	51.17	40.72	312.57	721.64	999.29	1034.29	35.0	337.95
24	315.15	218	289.48	507.5	56	175.6	119.95	71	68.5	-2.73	68.79	28.02	45.21	33.25	298.77	660.10	926.92	958.95	32.0	283.13
Max	818.30	221	555.49	774.35	79	185.2	152.41	80	112.3	42.53	86.40	50.43	85.24	67.53	325.17	1152.29	1313.88	1363.23	89.7	747.08
Min	280.33	138	251.66	448.36	5	98.2	56.42	66	68.5	-6.59	22.37	27.71	39.82	27.53	165.18	527.36	781.00	806.94	-16.7	254.39

HOURLY DATA ON MINIMUM DEMAND MET DAY

DATE: 14.04.2010

All figures in MW

HRS.	Total ISGS Injection (MW)	STATE SECTOR													ER	Total N.E.R GEN	Total Demand Met	Gross Demand met = Sum of demand met of all the states+loss	Actual Loss	Total Drawal by States
		ASEB			MeSEB			Tripura			Manipur	Mizoram	Nagaland	ArPr						
		GEN	Demand Met	Drawal	GEN	Demand Met	Drawal	GEN	drawal	Demand Met	DM	DM	DM	DM	IMPORT(+)/ EXPORT(-)					
1	377.16	38	192.7	154.91	5	61.9	56.94	0	22.81	22.81	24.25	25.85	31.07	27.04	-8.08	420.0	385.7	411.97	26.3	350.87
2	383.36	38	155.2	117.39	5	76.1	71.14	15	20.01	34.78	20.74	22.69	29.13	30.54	-51.75	440.9	369.2	389.27	20.0	363.31
3	352.31	38	121.7	83.87	5	58.8	53.78	25	18.99	43.56	0.25	20.72	18.64	31.19	-104.91	419.7	294.8	314.86	20.1	332.26
4	379.58	38	152.2	114.41	54	120.9	66.45	31	15.53	46.80	6.28	21.53	7.37	32.30	-96.55	503.1	387.4	406.64	19.2	360.34
5	384.22	38	119.4	81.62	23	102.0	79.01	31	13.77	44.70	9.60	24.87	9.82	24.08	-119.17	476.0	334.5	356.87	22.4	361.86
6	384.63	38	124.4	86.58	23	102.0	79.01	29	4.63	34.04	20.59	34.57	22.54	33.79	-70.78	474.8	371.9	388.38	16.4	368.18
7	384.56	38	166.6	128.79	31	145.2	113.91	49	15.26	63.81	18.98	49.28	37.48	38.73	29.89	502.2	520.0	532.14	12.1	372.45
8	376.99	38	156.5	118.73	31	95.3	64.14	45	19.99	65.08	23.16	49.84	35.48	45.15	-5.15	491.1	470.6	486.01	15.4	361.55
9	375.00	38	176.5	138.71	31	122.5	91.27	34	9.45	43.25	22.25	40.45	23.10	40.18	11.98	477.8	468.2	489.85	21.7	353.34
10	397.90	38	196.8	158.96	31	106.3	74.97	49	18.18	66.89	32.13	31.82	28.49	34.73	4.27	515.7	497.1	520.05	23.0	374.94
11	396.10	38	180.7	142.91	11	82.8	71.96	50	12.86	63.11	28.24	30.53	25.84	41.20	-17.68	495.0	452.4	477.39	25.0	371.14
12	397.70	58	231.4	173.20	11	98.6	87.74	43	3.92	46.86	37.06	34.07	24.43	38.15	31.43	509.7	510.6	541.25	30.6	367.07
13	400.81	80	279.0	198.82	7	95.1	88.21	41	9.93	50.61	36.08	32.95	25.39	35.60	46.17	528.5	554.7	574.77	20.1	380.72
14	413.62	91	295.3	204.36	5	99.2	94.18	44	18.03	62.40	33.53	33.35	29.54	39.90	63.35	554.0	593.3	617.41	24.2	389.46
15	418.32	94	305.0	211.16	5	97.4	92.45	49	7.91	56.91	30.72	37.43	26.58	36.08	45.67	566.1	590.1	611.89	21.7	396.58
16	413.63	116	337.7	221.59	5	97.2	92.24	48	11.44	59.69	36.08	39.60	38.22	42.21	81.28	583.0	650.7	664.37	13.6	400.01
17	425.19	110	423.5	313.09	5	108.9	103.89	49	16.67	66.07	34.31	38.12	41.20	48.79	171.71	590.1	760.9	761.93	1.0	424.18
18	490.46	156	574.5	418.02	11	101.4	90.75	49	38.46	87.84	54.36	44.84	57.03	59.99	324.07	707.0	980.0	1031.21	51.2	439.21
19	774.51	159	567.7	408.90	32	122.8	91.32	52	42.30	93.85	67.36	44.42	61.97	61.51	55.13	1016.4	1019.7	1071.70	52.0	722.49
20	779.96	110	454.7	344.67	41	142.9	102.02	51	37.88	89.19	42.31	43.00	38.93	64.09	-72.00	982.2	875.1	910.34	35.2	744.74
21	703.60	202	497.8	295.38	64	163.0	99.00	52	45.39	97.05	30.85	49.33	45.76	55.27	-52.89	1021.7	939.1	968.97	29.9	673.70
22	709.89	225	497.8	272.81	64	140.1	76.32	51	35.67	86.91	31.95	39.89	30.97	49.83	-149.20	1049.9	877.4	900.84	23.4	686.48
23	700.06	237	533.3	296.72	64	152.0	88.19	51	46.62	98.10	22.99	32.00	13.38	37.98	-142.65	1052.0	889.8	909.41	19.6	680.44
24	679.53	239	486.8	247.78	40	158.8	118.88	51	7.30	58.75	15.79	25.82	12.48	34.29	-178.58	1009.9	792.7	831.40	38.7	640.84
Max	779.96	239	574.5	418.02	64	163.0	118.88	52	46.62	98.10	67.36	49.84	61.97	64.09	324.07	1052.0	1019.7	1071.70	52.0	744.74
Min	352.31	38	119.4	81.62	5	58.8	53.78	0	3.92	22.81	0.25	20.72	7.37	24.08	-178.58	419.7	294.8	314.86	1.0	332.26

ANNEXURES
&
EXHIBITS

Annexure-I

RESERVOIR PARTICULARS OF THE MONTH : **Apr-10**

Name of the Reservoirs	FRL	MDDL	Beginning of the month		End of the month	
			Level	Energy content(MU)	Level	Energy content(MU)
KHANDONG	719.3 M	704 M	703.13	0.00	703.13	0.00
KOPILI	609.5 M	592.83 M	600.15	32.20	598.10	21.20
LOKTAK	768.5 M	766.2 M	767.41	52.50	767.80	84.33
BARAPANI	3220 Ft	3150 Ft	3176.05	11.50	3165.82	6.80
GUMTI	93.55 M	83.6 M	81.30	3.30	81.50	2.00
DOYANG	333 M	306 M	308.90	4.00	307.59	2.00

Annexure-II

FREQUENCY ANALYSIS FOR THE MONTH OF : **Apr-10**

Frequency	(Freq.in Hz)	(Time: H:M)	(Date:D.M.Y)
1. Maximum frequency	50.51	18:19	25.04.10
2. Minimum frequency	48.51	8:11	18.04.10
3. Monthly average	49.41		

Frequency in Hz as %age of time for the blocks :

f < 49.2	49.2 < f < 50.3	f >50.3
5.57	93.80	0.63

Daily Frequency Variation Index :

DATE	FVI	DATE	FVI
01-Apr-10	2.040	17-Apr-10	11.862
02-Apr-10	2.680	18-Apr-10	5.521
03-Apr-10	3.920	19-Apr-10	5.435
04-Apr-10	**1.890**	20-Apr-10	5.536
05-Apr-10	3.760	21-Apr-10	4.560
06-Apr-10	4.180	22-Apr-10	6.920
07-Apr-10	4.410	23-Apr-10	9.643
08-Apr-10	6.150	24-Apr-10	7.955
09-Apr-10	3.044	25-Apr-10	4.598
10-Apr-10	5.694	26-Apr-10	4.760
11-Apr-10	3.418	27-Apr-10	6.016
12-Apr-10	4.095	28-Apr-10	7.287
13-Apr-10	5.737	29-Apr-10	4.330
14-Apr-10	**12.877**	30-Apr-10	6.341
15-Apr-10	3.331		
16-Apr-10	9.389	**Average FVI**	**5.579**

Annexure-III

Details of Scheduled Bilateral Exchanges within the Region in **Apr-10**

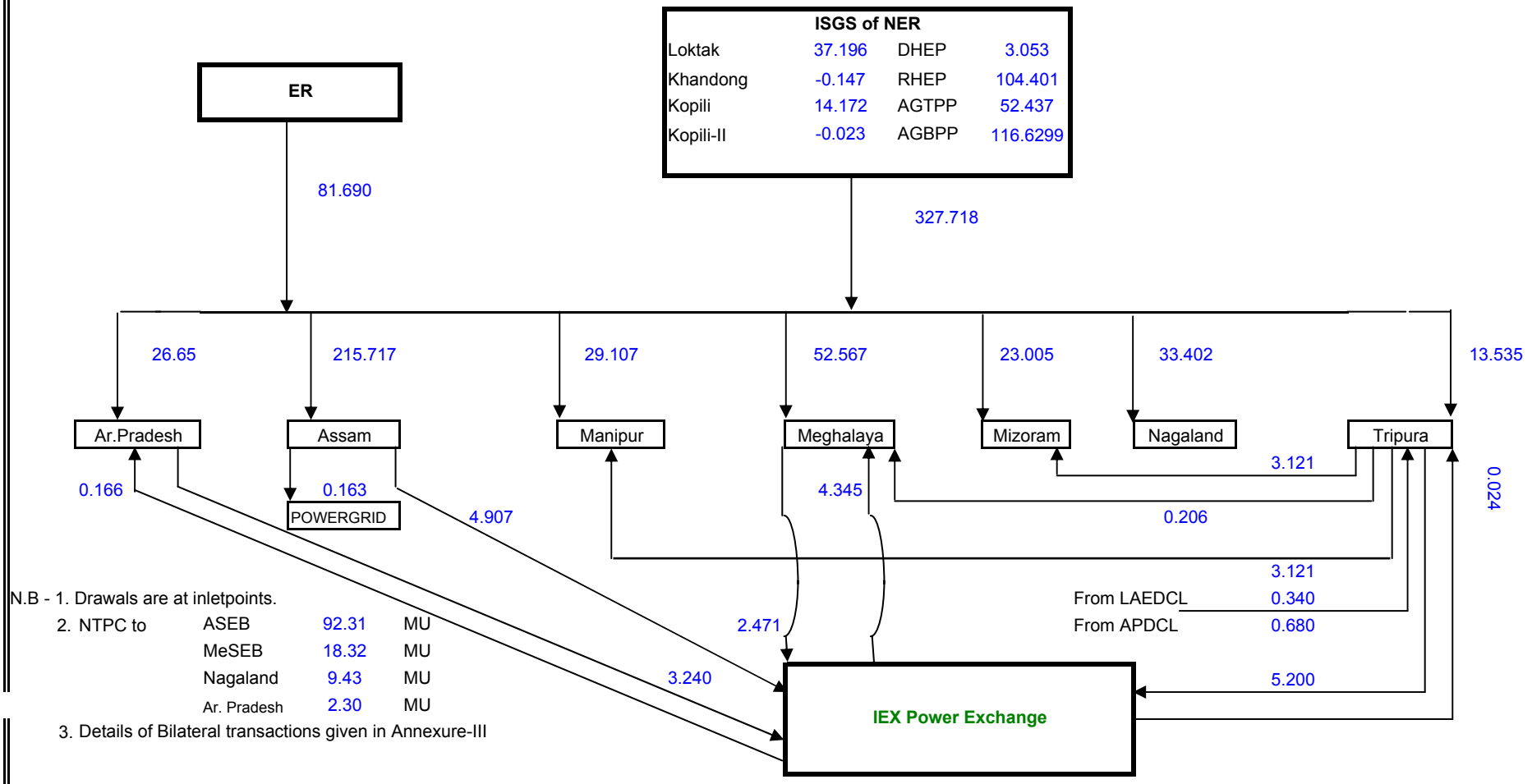
Sl.No.	From	To	Energy (At Seller Injn. Point) (MWH)		Energy (At State Periphery) (MWH)
1	Tripura(Baramura)	Manipur	3121.125000		3016.751500
2	Tripura(Baramura)	Mizoram	3121.125000		3016.751500
3	ASEB	POWERGRID^	162.653080	^ The actual energy consumed by POWERGRID	
4	APDCL	TSECL (NVVN)	680.000000		655.520000
5	LAEDCL	TSECL (NVVN)	340.000000		327.760000
6	TSECL	MeSEB (NVVN)	25.000000		24.200000
7	TSECL	MeSEB (NVVN)	181.250000		175.017500

Scheduled Bilateral Exchange with SEBs / Organisations in other Regions

Sl.No.	From	To	Energy (At Seller Periphery) (MWH)	Energy (At NER-ER Periphery) (MWH)	Energy (At Buyer Periphery) (MWH)
1	Ar. Pradesh	NDPL (IEXL)	130.000000	125.320000	
2	Ar. Pradesh	BSES (AP)	1521.000000	1471.010000	
3	Ar. Pradesh	BYPL (AP)	40.000000	38.720000	
4	Ar. Pradesh	BRPL(AP)	921.000000	891.040000	
5	HPPC	APDCL (NVVN)	9000.000000	8493.360000	8209.800000
6	HPPC	APDCL (NVVN)	27000.000000	25480.080000	24629.400000
7	APDCL	WBSEDCL (NVVN)	4970.000000	4801.490000	
8	APDCL	WBSEDCL (NVVN)	4500.000000	4347.900000	
9	APDCL	WBSEDCL (NVVN)	13500.000000	13043.700000	
10	Shyam Century	APPCC (LANCO)	8640.000000	8073.600000	
11	NDPL	MeSEB (NVVN)	1800.000000	1673.760000	1618.320000
12	TSECL	WBSEDCL (NVVN)	50.000000	48.400000	
13	TSECL	WBSEDCL (NVVN)	62.500000	60.500000	
14	Farakka*	Ar. Pradesh	809.810625	797.325000	770.531350
15	Kahalgaon 1*	Ar. Pradesh	484.127000	462.625000	447.247175
16	Talcher*	Ar. Pradesh	1001.591250	985.975000	953.025525
17	Farakka*	Assam	26740.150250	26088.525000	25211.862000
18	Kahalgaon 1*	Assam	11316.713000	11046.275000	10678.900350
19	Kahalgaon 2*	Assam	29430.541250	28726.175000	27766.028200
20	Talcher*	Assam	24819.269750	24217.075000	23408.083750
21	Farakka*	MeSEB	3131.267750	3058.250000	2955.467675
22	Kahalgaon 1*	MeSEB	2005.669000	1971.725000	1906.136075
23	Kahalgaon 2*	MeSEB	9306.100000	9075.325000	8771.969900
24	Talcher*	MeSEB	3872.819500	3678.725000	3642.824600
25	Farakka*	Nagaland	3293.121250	3211.075000	3103.200100
26	Kahalgaon 1*	Nagaland	2077.038000	2032.325000	1964.719900
27	Talcher*	Nagaland	4060.296500	3968.275000	3835.737950
	Bilateral exchange through IEX Power Exchange (-ve means injection, +ve means drawal)				
28	Arunachal Pradesh		-3239.940000	-3133.000000	
29	Arunachal Pradesh			171.300000	165.830000
30	Assam		-4906.920000	-4742.190000	
31	MeSEB		-2471.150000	-2388.450000	
32	MeSEB			4494.370000	4345.420000
33	Tripura		-5199.960000	-5029.470000	
34	Tripura			25.000000	24.200000

Annexure-IV

ENERGY EXCHANGE(in MU) IN NER DURING April, 2010



N.B - 1. Drawals are at inletpoints.

2. NTPC to

ASEB	92.31	MU
MeSEB	18.32	MU
Nagaland	9.43	MU
Ar. Pradesh	2.30	MU

3. Details of Bilateral transactions given in Annexure-III

Exhibit-I

Frequency Duration for April, 2010

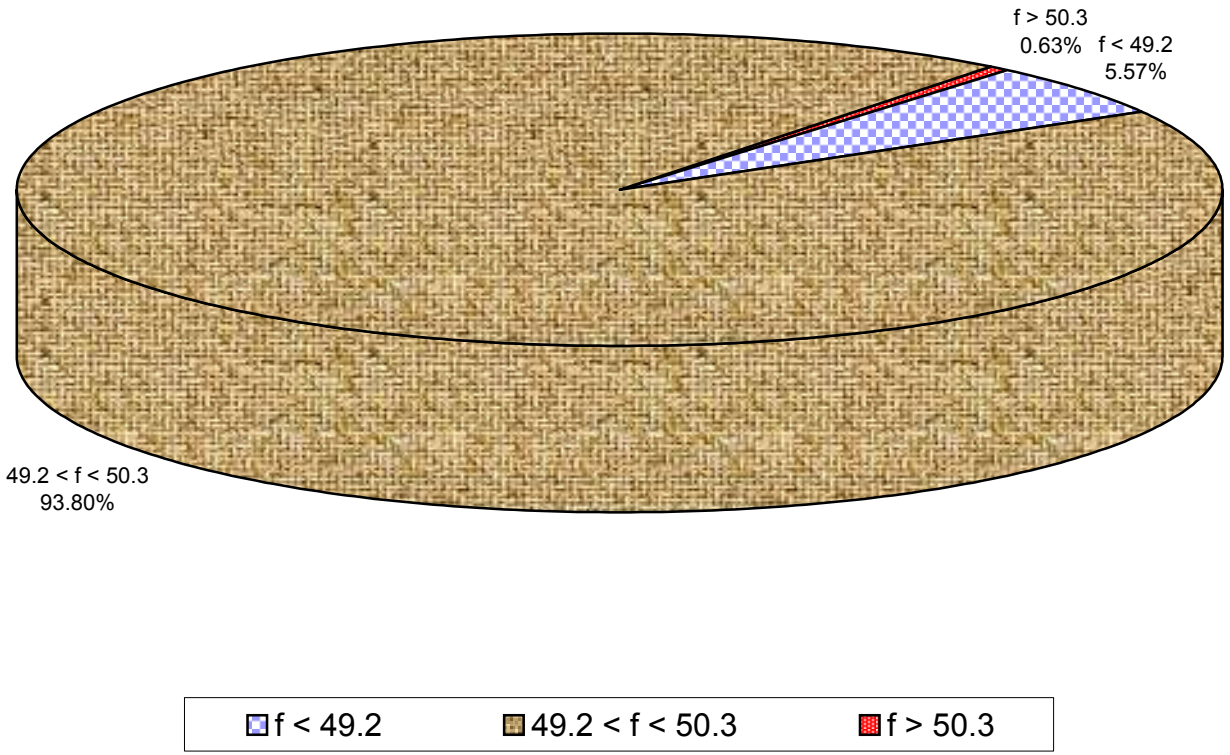


Exhibit-II

FVI Characteristics for April, 2010

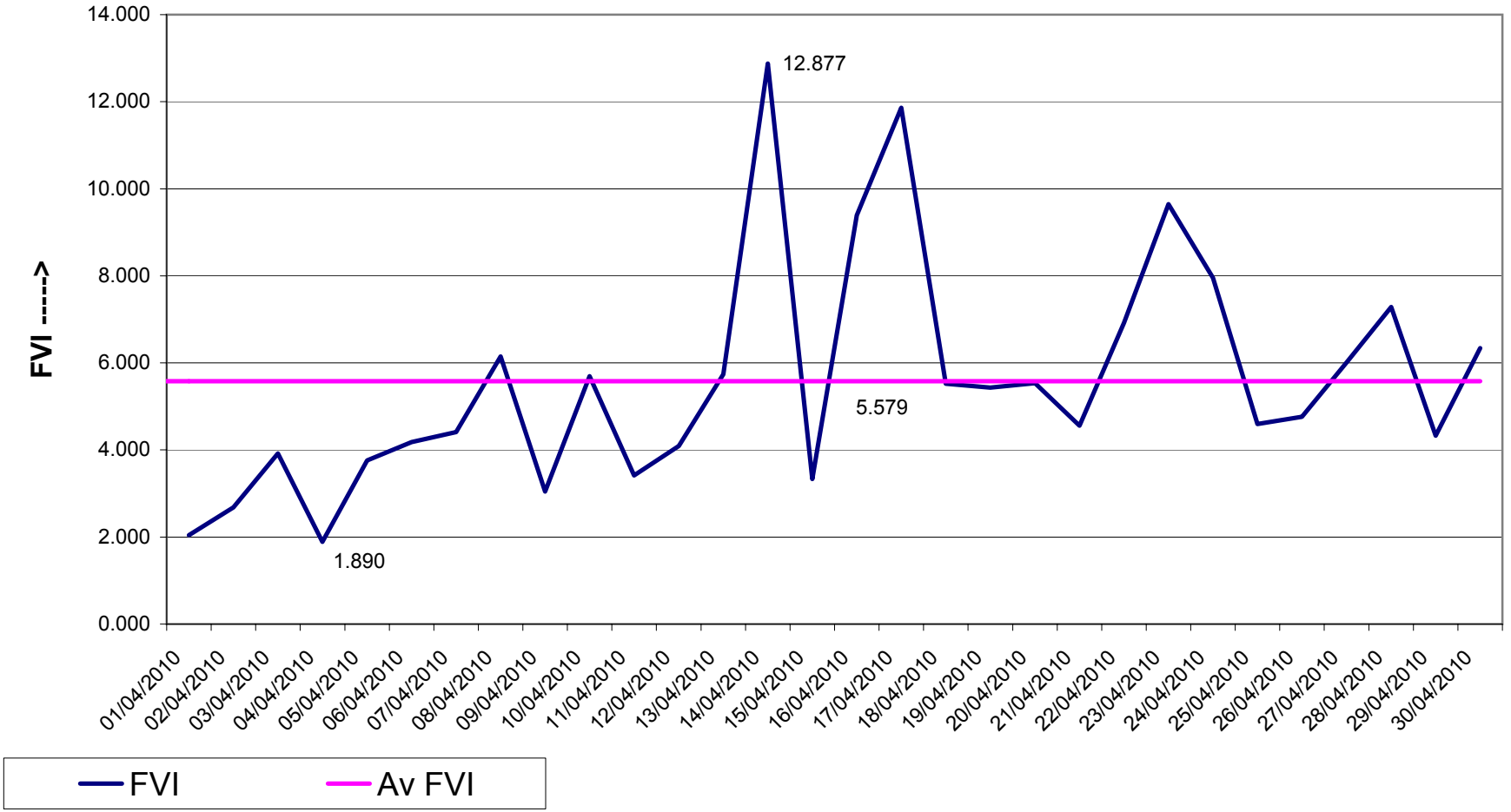


Exhibit-III

Maximum & Minimum Voltage Levels of Important Substations in NER during April, 2010

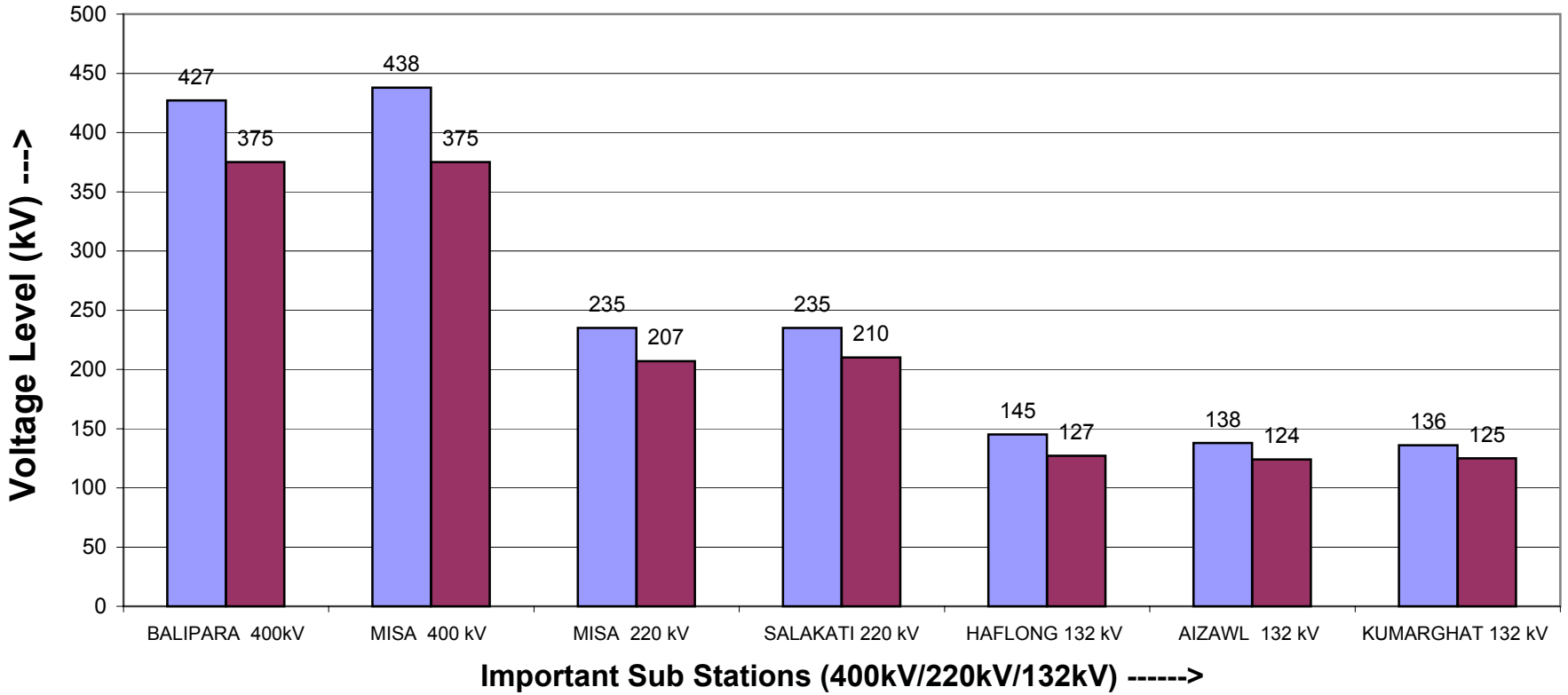


Exhibit-IV

State and Central Sector Generation (MU) in NER in April, 2010

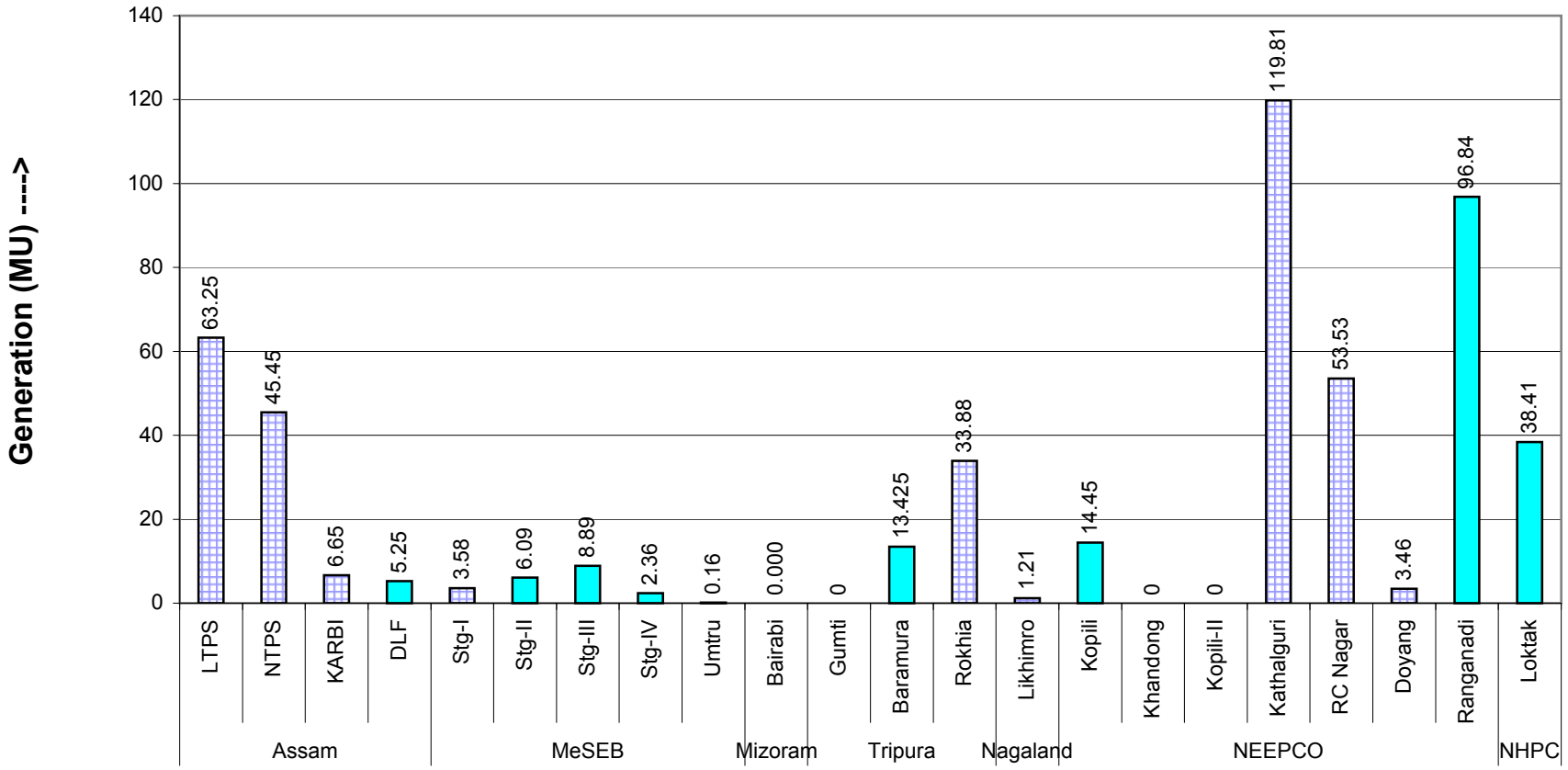


Exhibit-V

NER States Energy Scenario in April, 2010

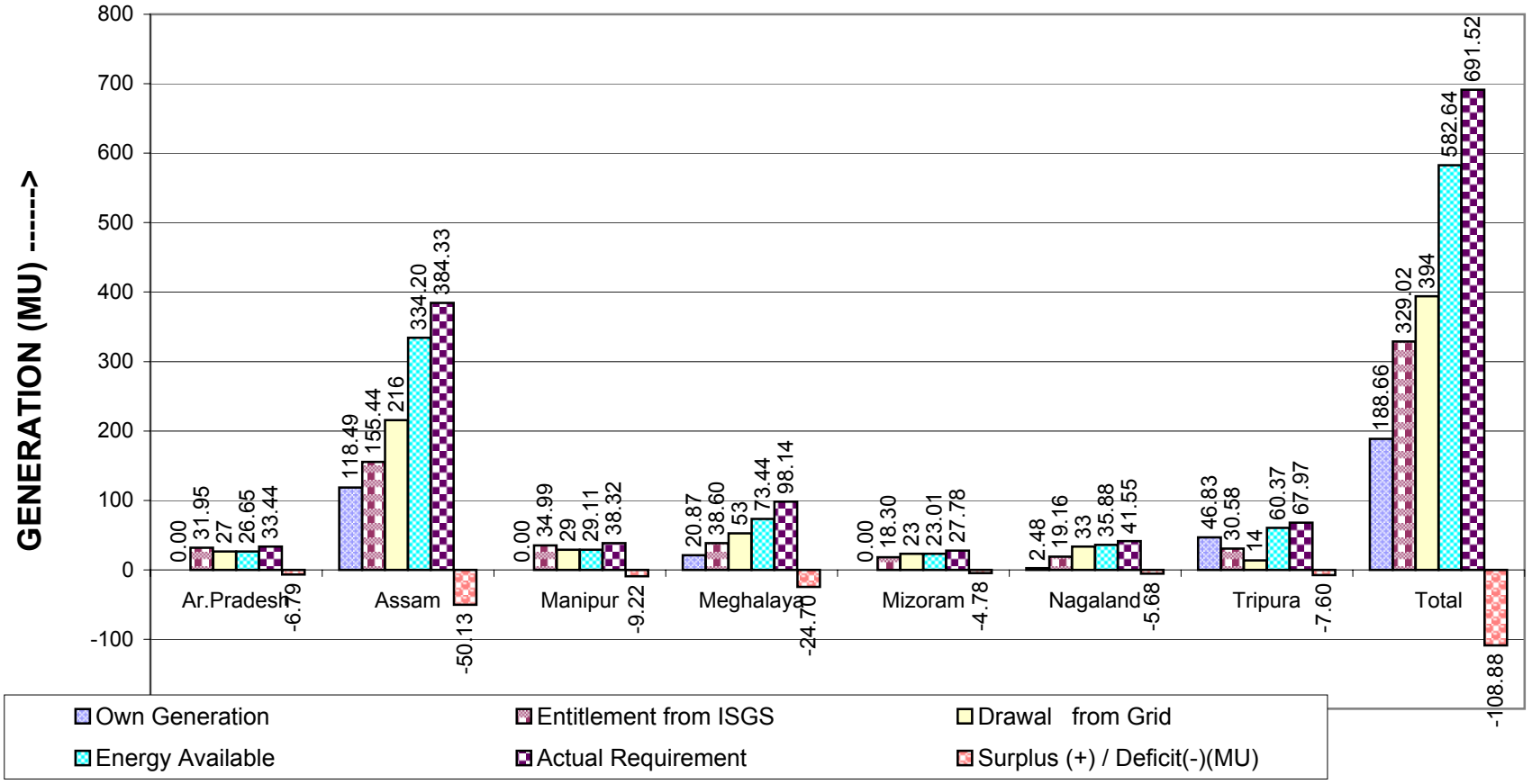


Exhibit-VI

Reservoir Statistics of NER in April, 2010