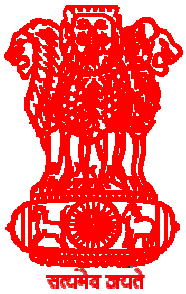


भारत सरकार Government of India
विद्युत मंत्रालय Ministry of Power
केंद्रीय विद्युत प्राधिकरण
Central Electricity Authority

उत्तर पूर्वी क्षेत्रीय विद्युत समिति
North Eastern Regional Power Committee

शिलोंग Shillong

Progress Report

For the month of

January, 2011

CONTENTS

NORTH EASTERN REGIONAL POWER COMMITTEE

Brief highlights of North Eastern Regional Power System for the month of January, 2011

- The maximum unrestricted demand during the month of January, 2011 was 1667 MW, which was 1676 MW in the month of December, 2010. The peak demand met in NER during the period under review was 1547 MW, which was 1529 MW last month.

- The energy requirement during the month of January, 2011 was 790.59 MU, which was 785.99 MU in the month of December, 2010. The energy availability in NER during the period under review was 744.68 MU, which was 741.11 MU last month.

- The maximum, minimum & average system frequency were 50.61, 48.89 & 49.85 Hz respectively. The maximum, minimum & average FVI were 1.450, 0.360 & 0.678 respectively. The average FVI was more than its previous month's figure. (refer Annex-II).

- Maximum export of power from NER to ER was 18 MW (on 26/01/11 at 18:00 hrs) and that from ER to NER was 462 MW (30/01/11 at 23:00 hrs). Total net energy import during the month was 166.67 MU (from ER).

SALIENT FEATURES OF
NORTH EASTERN REGIONAL GRID FOR JANUARY, 2011

1	New unit/ transmission lines/Transformers commissioned during this month		**Nil**	
2	Number of total grid disturbance during this month		**Nil**	
			Jan-11	**Jan-10**
3	**Installed Capacity** of the Region (in MW)(grid)		2054.12	2033.12
4	**Energy Generation in MU (Gross)::**			
	Thermal		433.279	391.595
	Hydel		214.254	168.084
	Diesel / Oil		0.000	0.000
	Total		647.533	559.679
5	**Demand in MW ::**			
	Registered Peak demand		1667.00	1599.00
	Peak demand met		1547.00	1429.00
	Shortage (% age)		-7.20	-10.63
6	**Regional Energy(Gross) in MU ::**			
	Energy requirement		790.59	769.81
	Energy availability		744.68	716.72
	Surplus (+) / Deficit (-) (% age)		-5.81	-6.90
7	**Inter Regional Energy Exchange in MU ::**			
	NER ----> ER		2.520	0.078
	ER ----> NER		169.191	175.014
	Net Import		166.671	-174.94
8	**Frequency profile ::**			
	Average frequency (Hz)		49.85	49.72
	Average Frequency Variation Index		0.678	1.671
9	Load Factor (in %)		60.04	60.25

ENERGY GENERATION IN THE REGION FOR THE MONTH OF Jan-11

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	19.200	19.008	0.000	0.000	70.880	70.171	40.490	39.275	130.570	128.455
Meghalaya	31.250	30.938	0.000	0.000	0.000	0.000	0.000	0.000	31.250	30.938
Mizoram	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Tripura	5.414	5.360	0.000	0.000	70.925	70.216	0.000	0.000	76.339	75.576
Nagaland	3.500	3.465	0.000	0.000	0.000	0.000	0.000	0.000	3.500	3.465
Total (State Sector)									**241.659**	**238.433**
Central Sector :										
NEEPCO :										
Khd+Kop+Kop-II	56.800	56.232	0.000	0.000	0.000	0.000	0.000	0.000	56.800	56.232
K'guri	0	0	0.000	0.000	0	0	197.110	191.197	197.110	191.197
RCNagar	0	0	0	0	53.874	53.335	0	0	53.874	53.335
Doyang	7.020	6.950	0	0	0	0	0	0	7.020	6.950
Ranganadi	40.080	39.679	0	0	0	0	0	0	40.080	39.679
NHPC :										
Loktak	50.990	50.480	0.000	0.000	0.000	0.000	0.000	0.000	50.990	50.480
Total (Central Sector)									405.874	397.873
Total NER	214.254	212.111	0.000	0.000	195.679	193.722	237.600	230.472	**647.533**	**636.306**

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.	45.04	40.73	4.30	9.55%	85	81	4	4.68%
Assam	405.96	387.97	18.00	4.43%	890	857	33	3.69%
Manipur	53.82	49.15	4.66	8.66%	118	115	3	2.60%
M'laya	126.31	117.26	9.05	7.16%	255	244	11	4.38%
Mizoram	37.31	32.91	4.40	11.79%	76	65	11	14.03%
Nagaland	51.79	48.18	3.61	6.96%	110	104	6	5.27%
Tripura	70.38	68.48	1.90	2.70%	170	165	5	3.05%
REGION	790.59	744.68	45.91	5.81%	1667	1547	120	7.21%

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	81.00	25/01/2011	50.01	-0.02	4	84.98
Assam	857.00	31/01/2011	49.93	1.80	31	889.80
Manipur	115.00	13/01/2011	49.69	1.07	2	118.07
Meghalaya	244.00	30/01/2011	50.25	-1.83	13	255.17
Mizoram	65.00	13/01/2011	49.69	0.60	10	75.60
Nagaland	104.00	07/01/2011	49.75	0.78	5	109.78
Tripura	165.00	14/01/2011	49.96	0.20	5	170.20
REGION	1547.00	31/01/2011	49.93	3.25	117	1667.25

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

ESTIMATION OF ENERGY REQUIREMENT (in MU)

Average Frequency 49.85 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	26.008	3.146	40.735	11.580	40.735	0.183	4.12	45.038
Assam	128.455	173.590	84.719	259.511	1.201	387.965	1.746	16.25	405.961
Manipur	0.000	38.852	0.000	49.155	10.302	49.155	0.221	4.44	53.816
M'laya	30.938	43.446	20.687	86.320	22.187	117.258	0.528	8.52	126.305
Mizoram	0.000	19.277	0.000	32.909	13.632	32.909	0.148	4.25	37.307
Nagaland	3.465	21.492	10.240	44.715	12.982	48.180	0.217	3.39	51.786
Tripura	75.576	32.403	0.000	-7.093	-39.496	68.483	0.308	1.59	70.381
REGION	238.433	355.069	118.793	506.250	32.389	744.683	3.351	42.56	790.594

*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)	
				Jan-11	Jan-10
	STATE SECTOR : HYDRO				
	ASSAM :: HYDRO				
1	KARBI HEP U - 1	50.00	50.00	11.480	7.590
2	KARBI HEP U - 2	50.00	50.00	7.720	7.060
	TOTAL	100.00		19.200	14.650
	MEGHALAYA :: HYDRO				
1	STAGE - 1	36.00	27.00	4.740	9.490
2	STAGE - 2	18.00	12.00	10.900	4.450
3	STAGE - 3	60.00	30.20	13.290	7.380
4	STAGE - 4	60.00	55.40	1.810	11.310
5	UMTRU	11.20	3.50	0.510	3.790
					0.580
	TOTAL	185.20		31.250	37.000
	NAGALAND :: HYDRO				
6	LIKIMRO - 1				
7	LIKIMRO - 2	24.00	10.00	3.500	3.500
8	LIKIMRO - 3				
	TOTAL	24.00		3.500	3.500
	TRIPURA :: HYDRO				
9	GUMTI - 1	5.00	Gumti Stn. Peak =8 MW	0.000	0.000
10	GUMTI - 2	5.00		2.899	2.027
11	GUMTI - 3	5.00		2.515	2.607
	TOTAL	15.00		5.414	4.634
	TOTAL STATE (HYDRO) :	324.20		59.364	59.784

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)	
				Jan-11	Jan-10
	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 = 42 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		15.336	14.820
5	BARAMURA - 5	21.00		15.475	0.000
6	ROKHIA - 1	8.00	Rokhia Stn. Peak = 58.5MW	0.000	0.000
7	ROKHIA - 2	8.00		0.000	0.000
8	ROKHIA - 3	8.00		5.326	5.287
9	ROKHIA - 4	8.00		4.413	4.736
10	ROKHIA - 5	8.00		0.000	0.000
11	ROKHIA - 6	8.00		0.000	0.000
12	ROKHIA - 7	21.00		15.345	15.908
13	ROKHIA - 8	21.00		15.030	16.170
	TOTAL	148.50		70.925	56.921
	ASSAM :: THERMAL				
1	LTPS - 1	15.00	LTPS Stn. Peak = 107 MW	4.350	11.140
2	LTPS - 2	15.00		7.810	7.820
3	LTPS - 3	15.00		10.400	11.040
4	LTPS - 4	15.00		2.040	7.790
5	LTPS - 5	20.00		13.820	5.140
6	LTPS - 6	20.00		12.790	15.910
7	LTPS - 7	20.00		14.270	12.470
8	NTPS - 1	20.00	NTPS Stn. Peak = 82.5 MW	12.070	4.160
9	NTPS - 2	21.00		9.980	12.830
10	NTPS - 3	21.00		3.880	11.690
11	NTPS - 4	11.00		7.690	7.920
12	NTPS - 5	22.00		0.000	0.000
13	NTPS - 6	22.00		6.870	7.030
14	DLF	24.50		5.400	6.440
	TOTAL	261.50		111.370	121.380
TOTAL STATE THERMAL/GAS :		432.92		182.295	178.301
TOTAL SC GEN(HY+TH/GAS)		**757.12**		**241.659**	**238.085**

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)	
				Jan-11	Jan-10
	CENTRAL SECTOR : HYDRO				
1	KHANDONG - 1	25.00	25.00	3.410	5.450
2	KHANDONG - 2	25.00	25.00	3.450	4.220
3	KOPILI Stg - II	25.00	25.00	0.870	1.910
4	KOPILI - 1	50.00	50.00	2.880	0.000
5	KOPILI - 2	50.00	50.00	19.230	15.540
6	KOPILI - 3	50.00	50.00	6.340	6.840
7	KOPILI - 4	50.00	50.00	20.620	2.230
8	DOYANG -1	25.00	Doyang Stn. Peak = 69.6 MW	2.190	2.280
9	DOYANG -2	25.00		1.770	2.110
10	DOYANG -3	25.00		3.060	1.570
11	LOKTAK - 1	35.00	Loktak Stn. Peak = 96 MW	0.000	10.790
12	LOKTAK - 2	35.00		25.430	0.000
13	LOKTAK - 3	35.00		25.560	23.890
14	RANGANADI - 1	135.00	Ranganadi Stn. Peak =404 MW	23.840	12.140
15	RANGANADI - 2	135.00		16.240	11.590
16	RANGANADI - 3	135.00		0.000	7.740
TOTAL HYDRO :		**860.00**		**154.890**	**108.300**
	CENTRAL SECTOR : THERMAL/GAS				
1	KATHALGURI - 1	33.50	Kathalguri Stn. Peak = 284 MW	23.420	18.240
2	KATHALGURI - 2	33.50		23.230	12.680
3	KATHALGURI - 3	33.50		24.050	22.050
4	KATHALGURI - 4	33.50		23.890	15.470
5	KATHALGURI - 5	33.50		23.340	22.160
6	KATHALGURI - 6	33.50		23.990	21.700
7	KATHALGURI - 7	30.00		17.210	10.720
8	KATHALGURI - 8	30.00		19.500	14.400
9	KATHALGURI - 9	30.00		18.480	17.590
10	R.C.NAGAR - 1	21.00	RC Nagar Stn. Peak = 82 MW	15.197	14.622
11	R.C.NAGAR - 2	21.00		10.582	14.131
12	R.C.NAGAR - 3	21.00		14.273	14.661
13	R.C.NAGAR - 4	21.00		13.822	14.870
TOTAL THERMAL/GAS :		375.00		250.984	213.294
TOTAL CS (HY + TH/GAS) :		1235.000		405.874	321.594
TOTAL NER GEN(HY+TH/GAS) :		**1992.120**		**647.533**	**559.679**

Plant Load Factor (PLF) and Voltage Profile : Jan-11

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	65.480	73.34
2	NTPS*	AEGCL	117.00	40.490	46.51
3	Baramura	Tripura	58.50	30.811	70.79
4	Rokhia	Tripura	90.00	40.114	59.91
5	AGBPP	NEEPCO	291.00	197.110	**91.04**
6	AGTPP	NEEPCO	84.00	53.874	86.20

*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	428	392
2	MISA 400 kV	425	395
3	MISA 220 kV	232	218
4	SALAKATI 220 kV	237	205
5	HAFLONG 132 kV	138	128
6	AIZAWL 132kV	138	123
7	KUMARGHAT 132kV	136	126

Voltage Range in kV as percentage of time for the block

SUB-STATION	kV < 360	360<kV<380	380<kV<420	kV>420
MISA	0.00	0.05	93.95	6.00
BALIPARA	0.00	1.59	96.75	1.66

1 **INTER - REGIONAL EXCHANGE :**

All Fig in MU

NER to ER	2.520
ER to NER	169.191
NET IMPORT	166.671

2	**Major Grid Disturbances during this month**	**Nil**

3	**MEETING HELD BY NERPC DURING THIS MONTH**	1. 58th OCC Meeting was held on 10.01.11 at NERTS, conference hall, 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	2013	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	2012-13	Activities in progress
4. Tuival H.E. Proj. Mizoram	3	3X70	2015	Status not available
5. Tipaimukh HEP		1500	2015	Activities in progress
6. Mawphu HEP	2	90	2014	UNDER CCEA
7. Pare HEP, Ar. Pradesh		110	2015	UNDER CCEA
[B] NHPC				
a). Loktak Downstream HEP	2	66	2014	Activities in progress
b) Subansiri Lower HEP		2000	2013	Activities in progress
c) Siang Middle HEP		2000	2016	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	2012	Activities in progress
[D] JV PROJECT				
a). Palatana CCPP	2	2X323.3	2012	Activities in progress
[E] ASSAM				
(a) Lakwa WHRP		37.2	2012	Activities in progress
(b) Namrup CCPP	2	2X40	2012	
[F] MIZORAM				
(a) Tuivai Hydel Project	2	51	2012	Activities in progress
(b) Bairabi Dam Project	2	2 X 40	2012	Activities in progress
(G) MeSEB				
(a) Myntdu - Leishka HEP	2	3x42	2011	Activities in progress
(b) New Umtru HEP	2	2X20	2013	Activities in progress
(H) Tripura				
(a) Baramura GT # U-V	1	21	2010	Commissioned on 03.08.10

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.								
1	132 kV Nazira - Lakwa 2nd Ckt	21						Completed	Work in progress
2	132 kV, S/C Rangia - Sipajhar - Rowta- Depota	147							Work in progress
3	132 kV, S/C Sarusajai - Kahilipara	8							Work in progress
4	LILO of 132 kV Mariani - Dimapur S/C at Bokajan	6					completed		Rly Clearance awaited
5	132 kV Nazira- Garmur (Mariani) S/C	63							Tender is in progress
6	220 kV Kathalguri - Tinsukia 2nd Ckt	50	2006-07						Work in progress
	D : Lines under Meghalaya :								
1	Myntdu Leshka-Khlieriat 132 KV D/C	53		Dec-10					Commissioned
2	220 kV Misa-Byrinahat D/C	226		Jun-10					
3	132 kV Agia - Nangalbibra	110		Mar-11					Work in progress
	E : Lines under Mizoram :								
1	132 kV Khawzawl-E Lungdar S/C	48			100	100	76	0	Work in progress
2	132 kV Khawzawl-Ngopa S/C	57			117	117	117	57	Work in progress
3	132 kV Kolasib-Tuirial S/C	41			114	114	114	41(Conducto	Work in progress
4	Kolasib-Sairul B D/C	25							Work in progress
5	132 kV Kolasib-Melriat S/C	90			369	Nil	Nil	Nil	Work in progress
6	132 kV Bairabi-Bawktlang S/C	30			93	91	85	14	Work in progress
7	132 kV Khawzawl-Champhai S/C	30			90	Nil	Nil	Nil	Work in progress
	G : CTU Lines:								
1	`+/- 800 kV HVDC Bipol Bis'nath Chariali-Agra	1971	08/2013	08/2013	2293	1016	210		All tower packages award
2	400 kV Balipara - Biswanath Chariali D/C	130	08/2013	08/2013	167	98	40		
3	LILO of 400 kV R'nadi-Balipara D/C at Bis Chariali	54	08/2013	08/2013	68	5			
4	400 kV Kameng - Balipara D/C	110	02/2013	02/2013	142	9			
5	400 kV Balipara - Bongaigaon D/C	596	02/2013	03/2012	838	445	137		
6	400 kV Lower Subansiri - Biswanath Chariali line-I	334	02/2013	03/2012	432	198	85		
7	400 kV Lower Subansiri - Biswanath Chariali line-II	340	02/2013	03/2012	442	192	55		
8	LILO of 132 kV Dimapur-Kohima at Dimapur (PG)	2	09/2009	03/2011	3				ROW problem
9	132 kV Kopili-Khandong	12	09/2009	12/2010	43	37	37	10	ROW problem
10	132 kV D/C Biswanath Chariyali- B. Chariyali (AEGCL)	32	08/2013	08/2013	55				Engg.&survey under prog.
11	400 kV D/C Bongaigaon TPS-Bongaigaon								
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 (N								
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 Jan-11

Organisation	Actual (MU)	Schedule (MU)	UI Energy (MU)	UI Receivable (Rs. in Lakhs)	UI Payable (Rs. in Lakhs)
Arunachal Pradesh	40.735	33.322	7.413	0.000	169.937
ASEB	259.511	263.969	-4.458	123.443	55.328
Manipur	49.155	41.238	7.916	0.000	233.205
MeSEB	86.320	73.076	13.244	9.454	181.522
Mizoram	32.909	20.335	12.574	0.000	324.948
Nagaland	44.715	30.731	13.983	0.000	320.761
Tripura	-7.093	-3.777	-3.316	63.568	5.597

Entitlement, Schedule, Drawal and UI Charges Jan-11

	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	26.008	26.342	33.322	40.735	7.413	-1.699
ASEB	173.590	175.061	263.969	259.511	-4.458	0.681
Manipur	38.852	39.261	41.238	49.155	7.916	-2.332
MeSEB	43.446	43.896	73.076	86.320	13.244	-1.721
Mizoram	19.277	19.505	20.335	32.909	12.574	-3.249
Nagaland	21.492	21.657	30.731	44.715	13.983	-3.208
Tripura	32.403	29.444	-3.777	-7.093	-3.316	0.580

(Source : UI A/c, NERPC)

Schedule for ISGS's Generation and State's Drawl for the month of Jan-11

States	Schedule From ISGS(MWH)	Bilateral Schedule from Outside NER (MWH)	Total Schedule (MWH)	Ex.PP. Drawal (MWH)	Tr. Energy (MWH)
Arunachal Pradesh	27372.59	3252.88	30625.46	41710.63	41710.63
ASEB	198545.56	87598.63	286144.18	268729.90	286144.18
Manipur	43062.98		43062.98	46589.93	46589.93
MeSEB	49332.39	21390.70	70723.09	95625.48	95625.48
Mizoram	21512.03		21512.03	31765.69	31765.69
Nagaland	24250.26	10587.80	34838.06	42656.71	42656.71
Tripura	35397.02		35397.02	-4298.41	35397.02
Total	399472.82	122830.00	522302.82	522779.93	579889.64

ISGS	Schedule (MWH)	Injection (MWH)
LOKTAK	49984.81	47661.95
KHANDONG	6949.60	5216.29
KOPILI-I	48826.91	36339.92
KOPILI-II	831.11	1954.51
DHEP	6676.52	6219.90
RHEP	39277.80	47930.03
AGTPP	52466.43	53405.67
AGBPP	194459.66	157380.93
Total	399472.82	356109.20

Source : Provisional REA for the month: Jan-11

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:- 31.01.2011

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	394.52	141	314.78	455.4	8	212.5	204.27	97	62.7	-34.56	28.96	29.48	48.46	45.87	270.43	640.69	883.41	911.08	27.7	366.86
2	394.98	140	296.87	437.2	0	200.2	200.17	97	60.7	-35.98	27.68	28.50	47.22	47.22	240.04	631.97	848.68	871.98	23.3	371.68
3	394.25	140	288.99	428.9	0	205.3	205.26	97	59.0	-37.80	22.63	28.54	49.75	45.26	233.97	630.96	839.34	864.89	25.6	368.70
4	404.38	140	286.55	426.8	0	204.2	204.15	98	59.1	-39.11	24.05	27.56	51.01	44.76	226.66	642.88	837.46	869.50	32.0	372.34
5	406.66	140	295.36	435.7	0	209.7	209.68	99	62.9	-35.87	38.67	30.01	54.97	47.96	269.78	645.80	879.92	915.54	35.6	371.03
6	569.18	139	344.86	483.8	0	219.5	219.54	98	68.3	-30.09	63.04	40.10	56.83	54.73	221.21	806.57	986.40	1027.75	41.3	527.84
7	619.33	138	420.06	558.1	0	151.5	151.53	98	85.1	-13.23	71.95	61.52	58.78	68.13	219.01	855.69	1055.10	1074.66	19.6	599.77
8	613.17	137	405.40	542.6	75	210.1	134.96	99	92.0	-6.82	68.31	57.36	56.79	65.44	194.36	924.42	1092.70	1118.74	26.0	587.13
9	500.72	136	407.49	543.2	75	196.6	121.69	99	91.5	-7.07	67.98	42.25	55.38	58.92	250.64	809.91	1055.83	1060.51	4.7	496.04
10	448.32	139	339.94	478.8	75	189.0	114.03	99	88.1	-10.64	73.77	38.46	57.78	40.99	225.52	760.85	966.85	986.34	19.5	428.84
11	443.19	136	327.45	463.2	75	183.6	108.73	98	79.6	-18.72	59.86	38.74	51.41	43.57	192.93	752.11	919.96	945.01	25.0	418.14
12	445.51	138	342.51	480.2	75	196.4	121.56	97	72.1	-24.86	69.30	37.80	52.79	31.63	214.15	754.96	940.17	969.07	28.9	416.61
13	443.60	136	395.92	532.3	56	204.4	148.71	97	74.3	-22.75	57.84	41.26	51.48	45.38	299.53	732.64	1006.87	1032.14	25.3	418.33
14	436.08	76	328.58	404.3	26	182.7	156.71	97	72.6	-23.98	49.10	41.86	58.52	50.08	241.28	634.35	859.15	875.59	16.4	419.64
15	479.49	138	336.54	474.3	26	152.9	126.85	96	73.1	-22.68	51.70	54.72	67.98	45.69	188.85	739.03	920.35	927.85	7.5	471.99
16	504.86	136	338.86	474.6	50	198.9	148.43	96	77.6	-18.14	59.91	61.23	71.83	48.89	242.70	786.84	992.98	1029.51	36.5	468.34
17	666.53	137	411.37	548.0	50	175.1	124.63	96	102.3	5.80	60.29	61.99	78.39	68.00	172.24	950.03	1093.97	1122.20	28.2	638.30
18	790.19	178	585.97	764.4	75	218.0	142.98	97	148.0	50.76	79.55	65.61	65.75	80.55	292.87	1140.84	1421.82	1433.63	11.8	778.37
19	858.24	233	620.03	853.4	78	216.5	138.02	98	149.0	51.26	91.82	62.88	75.79	78.80	301.34	1267.79	1528.18	1569.06	40.9	817.36
20	810.42	238	621.67	859.5	85	226.8	142.30	98	145.9	47.98	90.43	61.93	67.57	78.95	339.52	1230.70	1531.13	1570.15	39.0	771.39
21	753.59	235	555.84	790.6	84	229.7	145.54	98	138.9	40.80	93.19	59.63	69.25	74.93	317.63	1170.62	1456.22	1488.18	32.0	721.63
22	672.69	239	532.23	771.5	84	227.2	143.25	99	118.4	19.45	88.83	51.08	61.02	70.37	310.22	1094.80	1388.33	1404.95	16.6	656.07
23	680.79	196	401.12	597.5	77	224.8	147.54	99	89.9	-9.27	83.01	39.04	50.33	53.57	105.88	1053.61	1138.15	1159.46	21.3	659.48
24	531.64	193	342.69	535.7	36	196.1	160.33	99	69.9	-28.82	67.02	33.98	51.08	46.91	180.85	859.16	1000.72	1039.98	39.3	492.39
Max	858.24	239	621.67	859.51	85	229.7	219.54	99	149.0	51.26	93.19	65.61	78.39	80.55	339.52	1267.79	1531.13	1570.15	41.3	817.36
Min	394.25	76	286.55	404.27	0	151.5	108.73	96	59.0	-39.11	22.63	27.56	47.22	31.63	105.88	630.96	837.46	864.89	4.7	366.86

HOURLY DATA ON MINIMUM DEMAND MET DAY

DATE: 16.01.2011

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	378.60	160	441.6	282.06	41	236.6	195.34	99	-35.21	63.30	33.69	31.15	53.58	51.99	260.51	677.9	911.9	938.37	26.5	352.12
2	376.01	156	425.0	269.10	13	218.4	205.42	99	-36.29	62.70	30.87	28.86	52.46	46.68	252.62	643.9	865.0	896.46	31.5	344.52
3	377.88	154	415.0	260.97	0	207.6	207.62	100	-37.06	62.68	30.61	28.20	51.85	44.96	240.22	631.7	841.0	871.87	30.9	346.97
4	381.48	158	418.4	260.81	0	205.8	205.85	99	-37.61	61.57	29.85	28.43	52.89	46.08	231.97	638.3	843.1	870.19	27.1	354.36
5	382.76	155	422.6	267.71	0	198.8	198.84	99	-36.10	62.78	46.66	27.81	55.84	47.29	256.45	636.6	861.8	892.97	31.1	351.62
6	532.37	158	463.3	305.12	0	198.8	198.84	99	-33.79	65.30	59.90	33.87	52.16	50.59	154.63	789.7	924.0	984.50	60.5	471.84
7	595.57	161	496.1	334.81	61	222.3	160.88	101	-22.48	78.99	68.02	51.77	68.53	61.02	155.88	919.8	1046.8	1075.67	28.9	566.68
8	588.36	157	517.8	361.02	61	164.9	103.55	102	-6.53	95.09	67.00	52.39	73.78	59.90	148.51	908.1	1030.9	1056.59	25.7	562.64
9	449.11	163	531.1	368.56	66	208.0	141.96	101	-6.26	94.84	72.29	46.76	57.31	56.12	313.88	778.8	1066.4	1092.66	26.2	422.89
10	399.18	198	518.2	319.74	66	205.6	140.07	101	-13.50	87.52	50.60	35.68	53.74	53.75	259.43	764.2	1005.1	1023.58	18.5	380.69
11	397.46	201	492.4	290.96	60	196.7	136.43	100	-22.31	78.17	55.38	27.00	45.32	53.27	204.82	759.6	948.2	964.42	16.2	381.26
12	398.73	200	516.2	316.67	49	183.6	134.72	100	-27.40	72.80	67.39	35.71	40.90	49.23	236.29	747.3	965.8	983.56	17.8	380.97
13	403.40	160	455.1	295.43	49	207.4	158.62	100	-31.62	68.64	60.28	39.10	43.21	49.27	233.03	712.1	923.0	945.08	22.1	381.29
14	404.05	159	406.4	247.21	25	139.2	114.21	101	-29.15	71.40	61.02	9.30	51.01	46.86	121.03	688.8	785.2	809.81	24.6	379.47
15	404.25	160	412.4	252.04	25	136.7	111.71	100	-26.75	73.46	56.38	29.81	50.45	45.95	135.06	689.8	805.2	824.84	19.7	384.57
16	432.31	163	452.0	289.32	49	178.2	128.72	100	-20.12	79.67	78.90	40.46	45.04	48.91	194.28	744.2	923.1	938.45	15.3	416.99
17	636.68	163	537.9	375.31	49	138.5	89.05	100	16.70	117.03	68.93	56.13	62.31	59.12	84.16	949.1	1039.9	1033.15	-6.8	643.48
18	774.96	184	594.0	410.24	74	166.8	93.21	100	44.33	144.82	61.84	53.65	82.34	63.13	57.84	1132.8	1166.5	1190.53	24.0	750.97
19	814.50	237	677.9	440.63	98	208.7	110.79	100	44.76	144.72	72.59	49.49	62.81	65.00	75.51	1249.7	1281.3	1325.13	43.9	770.64
20	830.63	239	657.1	418.55	79	192.7	113.56	100	38.57	139.06	79.90	50.96	55.31	65.89	31.85	1248.8	1240.9	1280.56	39.7	790.98
21	669.97	240	659.7	419.83	71	181.9	110.72	102	27.78	129.36	74.81	35.01	43.01	63.33	128.22	1082.6	1187.1	1210.77	23.6	646.33
22	537.99	191	542.6	351.51	67	185.7	118.58	101	7.55	108.19	63.70	37.96	33.25	59.51	167.48	896.8	1030.9	1064.23	33.3	504.64
23	431.18	202	500.8	298.97	48	171.4	123.43	101	-15.96	85.52	51.22	28.32	30.54	48.48	167.89	782.5	916.4	950.38	34.0	397.15
24	396.14	146	372.2	226.43	48	190.5	142.59	100	-31.20	68.86	34.09	22.25	26.33	37.93	82.95	689.8	752.1	772.72	20.6	375.51
Max	830.63	240	677.9	440.63	98	236.6	207.62	102	44.76	144.82	79.90	56.13	82.34	65.89	313.88	1249.7	1281.3	1325.13	60.5	790.98
Min	376.01	146	372.2	226.43	0	136.7	89.05	99	-37.61	61.57	29.85	9.30	26.33	37.93	31.85	631.7	752.1	772.72	-6.8	344.52

ANNEXURES
&
EXHIBITS

Annexure-I

RESERVOIR PARTICULARS OF THE MONTH : **Jan-11**

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	715.35	17.00	713.75	12.00
KOPILI	609.5 M	592.83 M	606.15	73.80	604.40	60.10
LOKTAK	768.5 M	766.2 M	768.60	250.00	768.10	140.00
BARAPANI	3220 Ft	3150 Ft	3201.67	30.00	3195.78	26.00
GUMTI	93.55 M	83.6 M	89.61	14.00	88.55	10.40
DOYANG	333 M	306 M	319.75	24.00	317.70	19.00

Annexure-II

FREQUENCY ANALYSIS FOR THE MONTH OF : **Jan-11**

Frequency	(Freq.in Hz)	(Time: H:M)	(Date:D.M.Y)
1. Maximum frequency	50.61	23:51	14.01.11
2. Minimum frequency	48.89	18:29	06.01.11
3. Monthly average	49.85		

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

f < 49.5	49.5 < f < 50.2	f >50.2
5.58	89.29	5.13

Daily Frequency Variation Index :

DATE	FVI	DATE	FVI
01-Jan-11	**0.360**	17-Jan-11	0.400
02-Jan-11	0.410	18-Jan-11	0.560
03-Jan-11	0.700	19-Jan-11	1.370
04-Jan-11	0.840	20-Jan-11	0.510
05-Jan-11	**1.450**	21-Jan-11	0.510
06-Jan-11	1.160	22-Jan-11	0.610
07-Jan-11	0.830	23-Jan-11	0.590
08-Jan-11	0.810	24-Jan-11	0.410
09-Jan-11	0.380	25-Jan-11	0.810
10-Jan-11	0.660	26-Jan-11	0.450
11-Jan-11	0.940	27-Jan-11	0.600
12-Jan-11	1.210	28-Jan-11	0.530
13-Jan-11	0.920	29-Jan-11	0.820
14-Jan-11	0.380	30-Jan-11	0.370
15-Jan-11	0.370	31-Jan-11	0.660
16-Jan-11	0.400	**Average FVI**	**0.678**

Annexure-III

Details of Scheduled Bilateral Exchanges within the Region in **Jan-11**

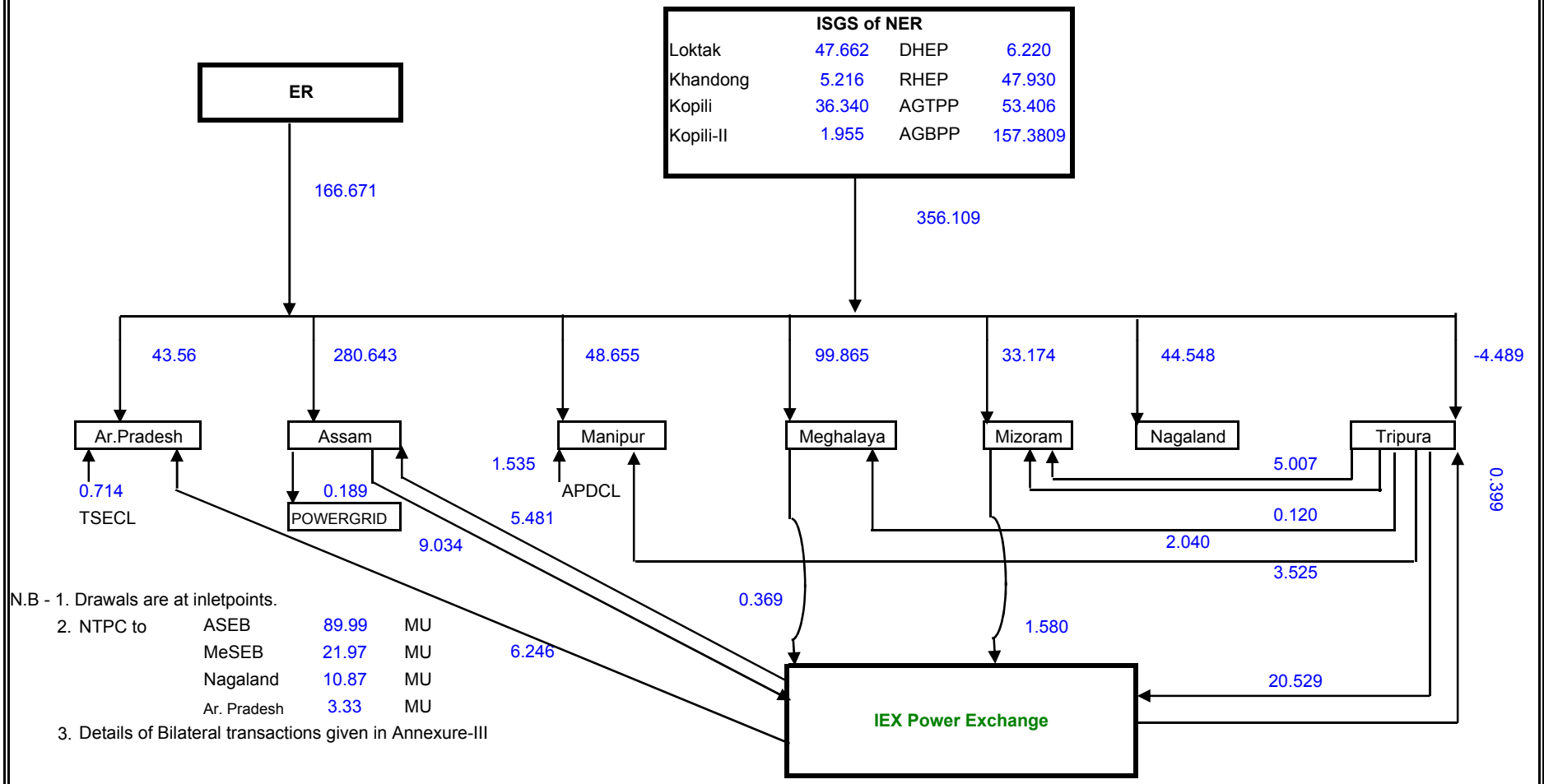
Sl.No.	From	To	Energy (At Seller Injn. Point) (MWH)		Energy (At State Periphery) (MWH)
1	Tripura(Baramura)	Manipur	3524.500000		3408.860250
2	Tripura(Baramura)	Mizoram	5006.500000		4840.244250
3	APDCL	MeECL (NVVN)	4635.000000		4482.170000
4	MeECL	APDCL (NVVN)	3100.000000		2998.300000
5	TSECL	APDCL (NVVN)	714.000000		691.220000
6	TSECL	MeECL (NVVN)	2040.000000		1971.120000
7	TSECL	Mizoram (Mizoram)	120.000000		116.040000
8	ASEB	POWERGRID^	188.798350	^ The actual energy consumed by POWERGRID	

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	WBSEDCL	APDCL (NVVN)	2790.000000	2716.140000	2627.16
2	WBSEDCL	APDCL (NVVN)	12834.000000	12492.900000	12082.14
3	HPPC	APDCL (NVVN)	7254.000000	6719.400000	6499.800000
4	NDPL	MeECL (NVVN)	7936.000000	7240.640000	7003.200000
5	TSECL	MSEDCL (NVVN)	3720.000000	3597.960000	
6	TSECL	TNEB (NVVN)	1140.000000	1102.700000	
7	Farakka*	Ar. Pradesh	1656.722813	1612.475000	1559.565075
8	Kahalgaon 1*	Ar. Pradesh	633.433500	630.225000	609.498875
9	Talcher*	Ar. Pradesh	1037.641875	1010.175000	976.985875
10	Farakka*	Assam	29644.934313	28857.100000	27910.609600
11	Kahalgaon 1*	Assam	8002.659750	7789.075000	7532.894800
12	Kahalgaon 2*	Assam	38471.344450	37446.100000	36212.977075
13	Talcher*	Assam	13874.806625	13506.350000	13062.713000
14	Farakka*	MeECL	4859.720250	4725.000000	4569.997625
15	Kahalgaon 1*	MeECL	1900.300500	1854.075000	1793.104225
16	Kahalgaon 2*	MeECL	12164.852000	11844.650000	11454.598125
17	Talcher*	MeECL	3043.749500	2966.975000	2869.516300
18	Farakka*	Nagaland	5343.202875	5195.225000	5024.823425
19	Kahalgaon 1*	Nagaland	2184.222000	2133.275000	2063.116425
20	Talcher*	Nagaland	3346.549250	3259.300000	3152.251825
	Bilateral exchange through IEX Power Exchange (-ve means injection, +ve means drawal)				
21	Arunachal Pradesh			6456.600000	6245.760000
22	Assam		-9034.180000	-8735.300000	
23	Assam			5670.000000	5481.050000
24	MeECL		-368.780000	-357.000000	
25	Mizoram		-1580.400000	-1528.000000	
26	Tripura		-20528.850000	-19856.000000	
27	Tripura			413.000000	399.440000
	Bilateral exchange through PX Power Exchange (-ve means injection, +ve means drawal)				

Annexure-IV

ENERGY EXCHANGE(in MU) IN NER DURING January, 2011



N.B - 1. Drawals are at inletpoints.

2. NTPC to

ASEB	89.99	MU
MeSEB	21.97	MU
Nagaland	10.87	MU
Ar. Pradesh	3.33	MU

3. Details of Bilateral transactions given in Annexure-III

Exhibit-I

Frequency Duration for January, 2011

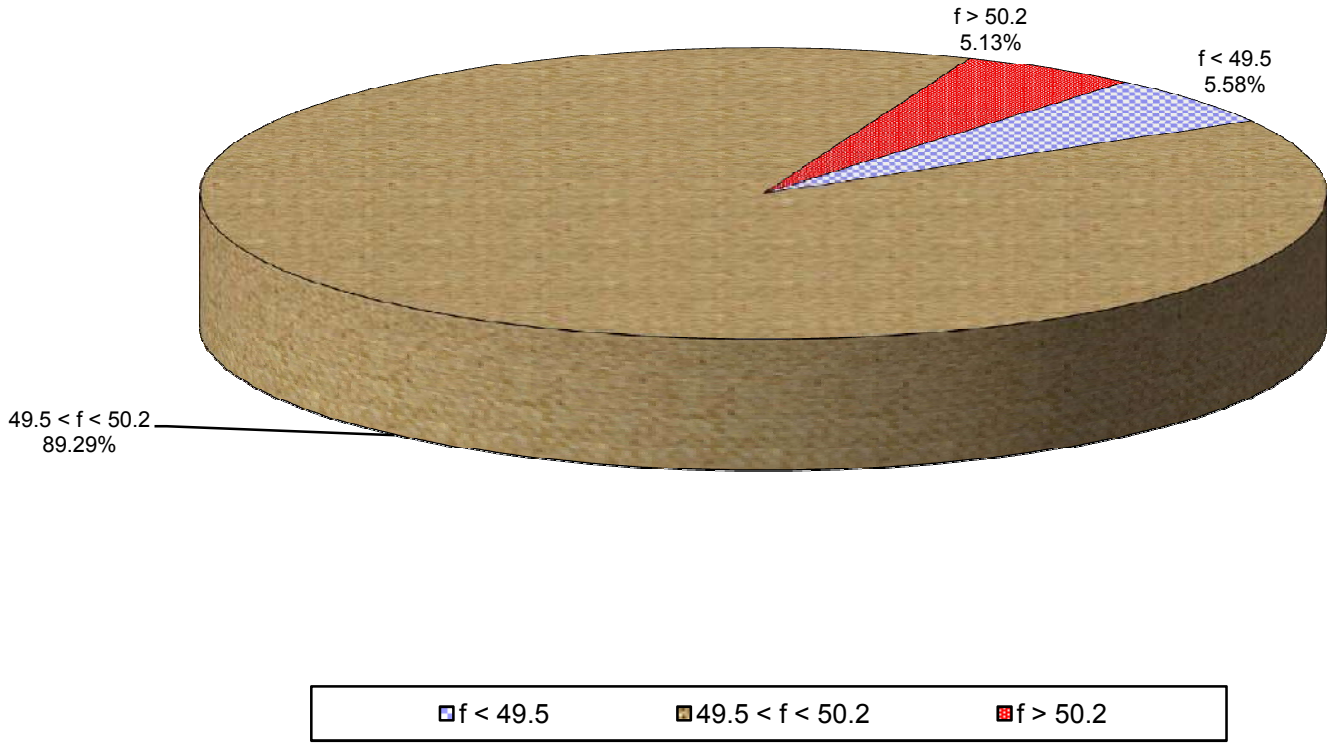


Exhibit-II

FVI Characteristics for January, 2011

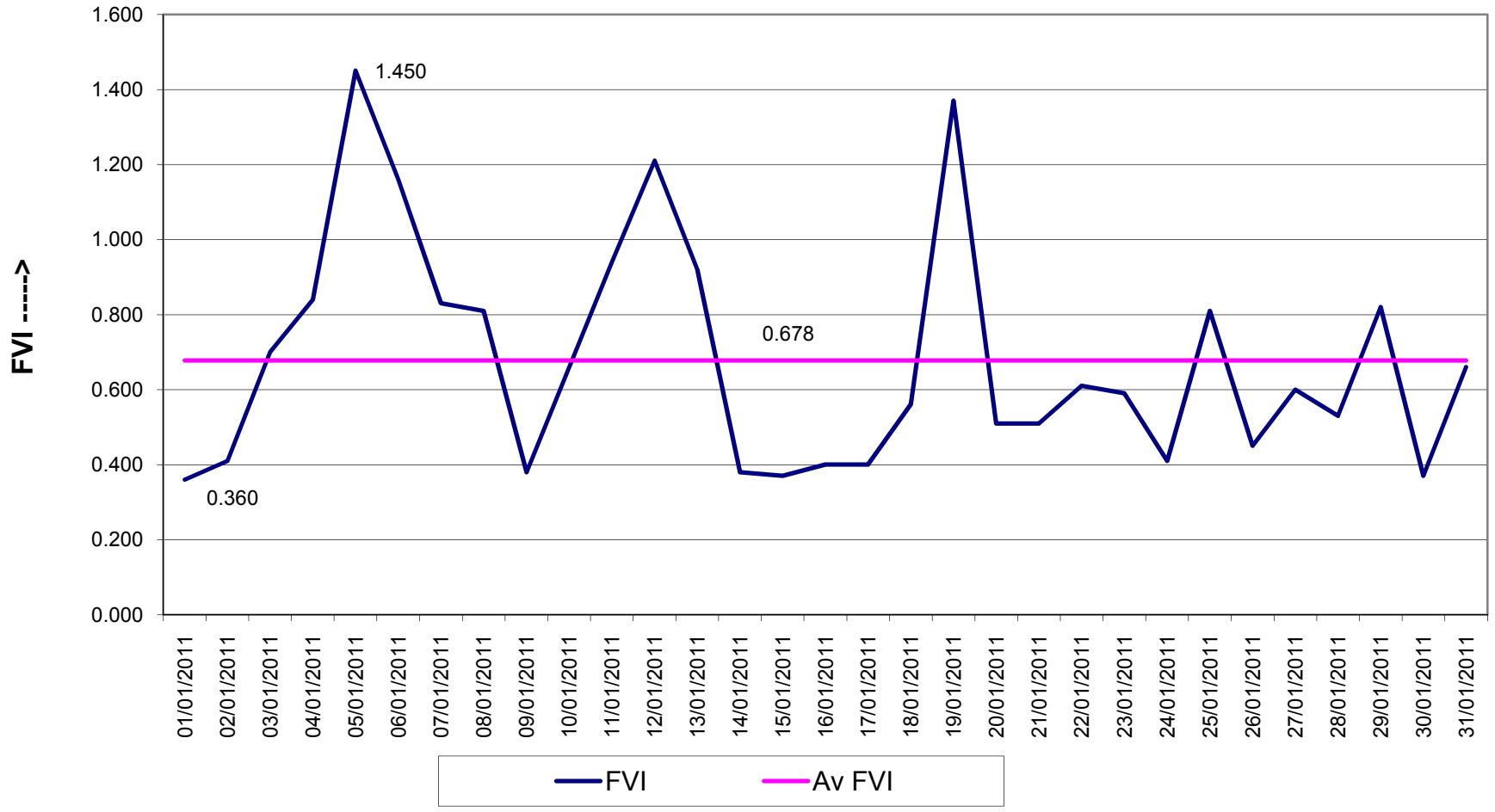


Exhibit-III

Maximum & Minimum Voltage Levels of Important Substations in NER during January, 2011

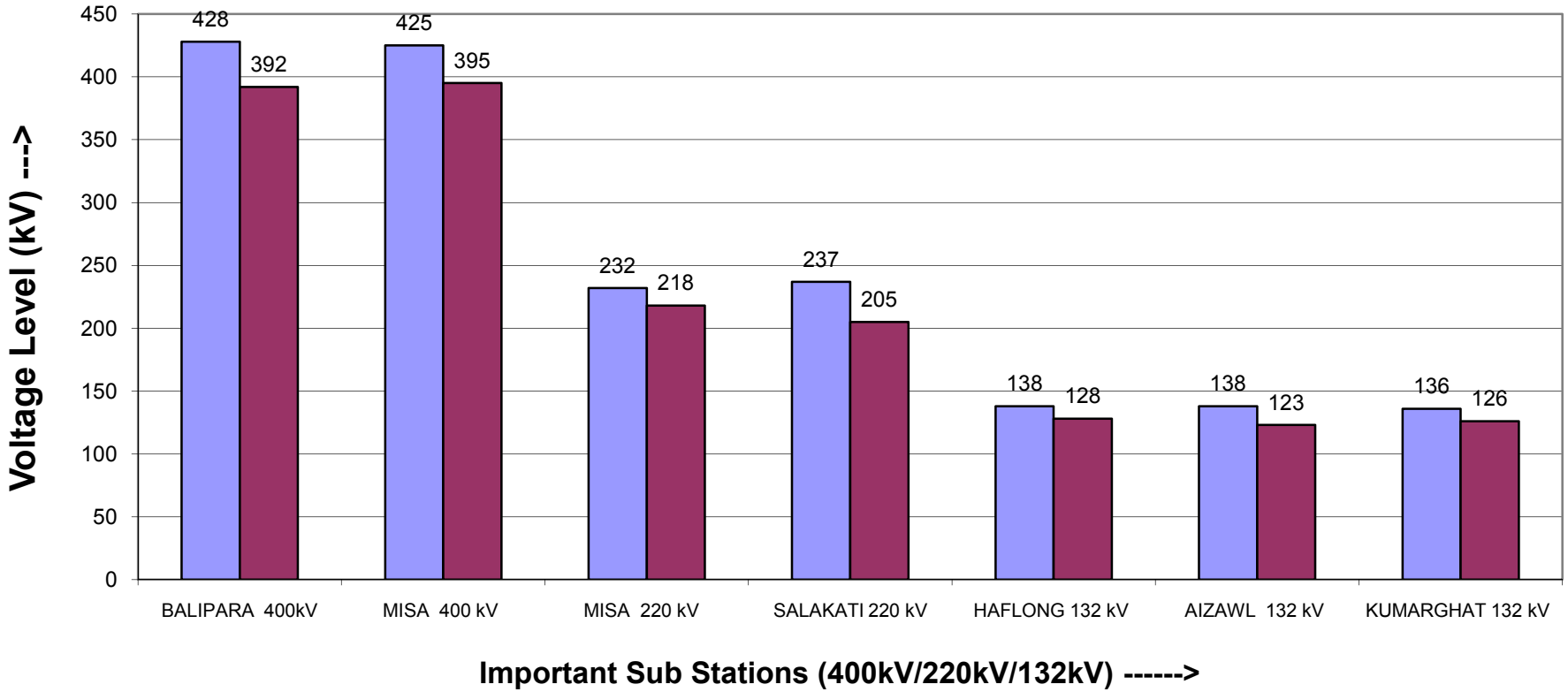


Exhibit-IV

State and Central Sector Generation (MU) in NER in January, 2011

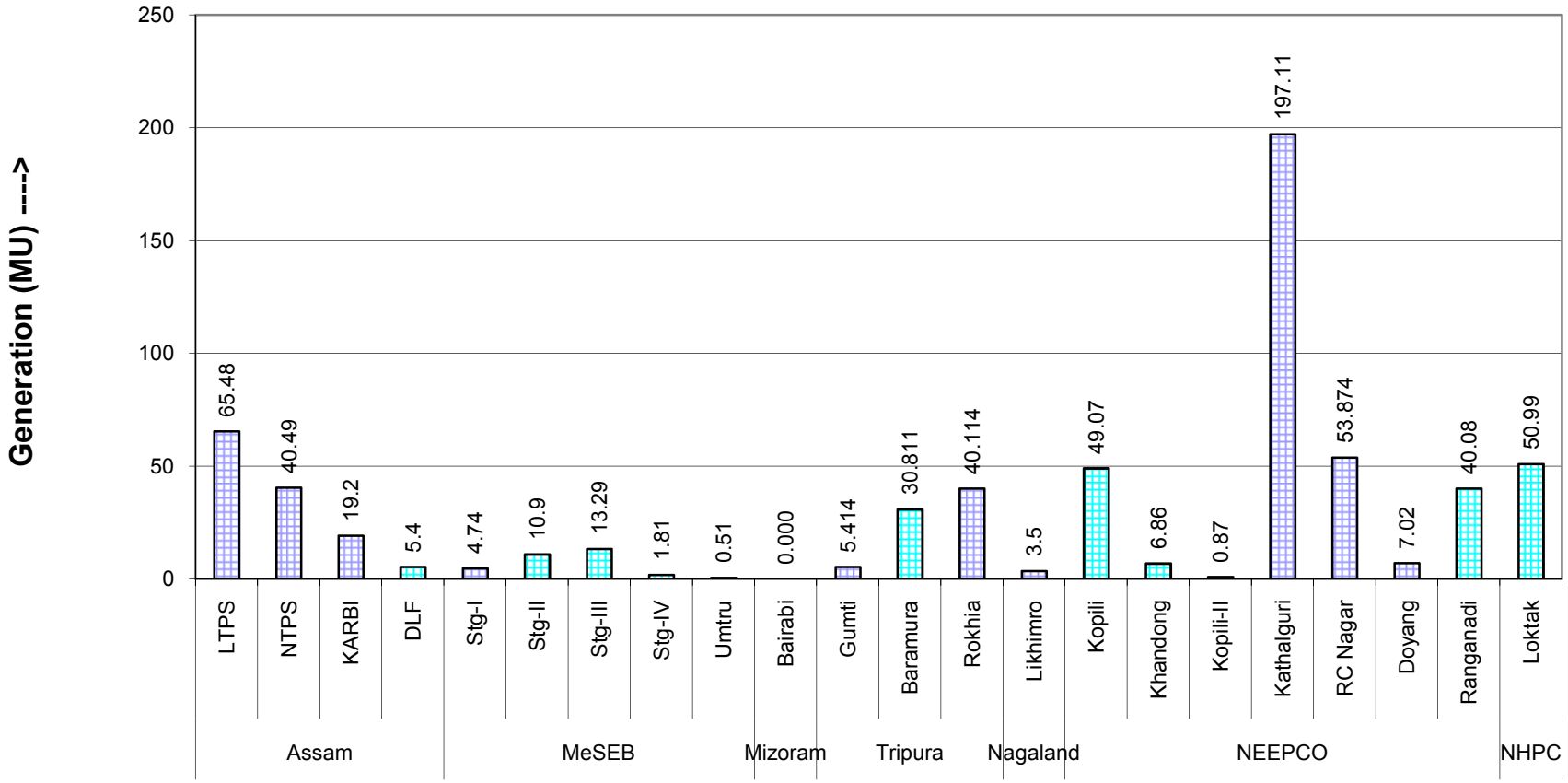


Exhibit-V

NER States Energy Scenario in January, 2011

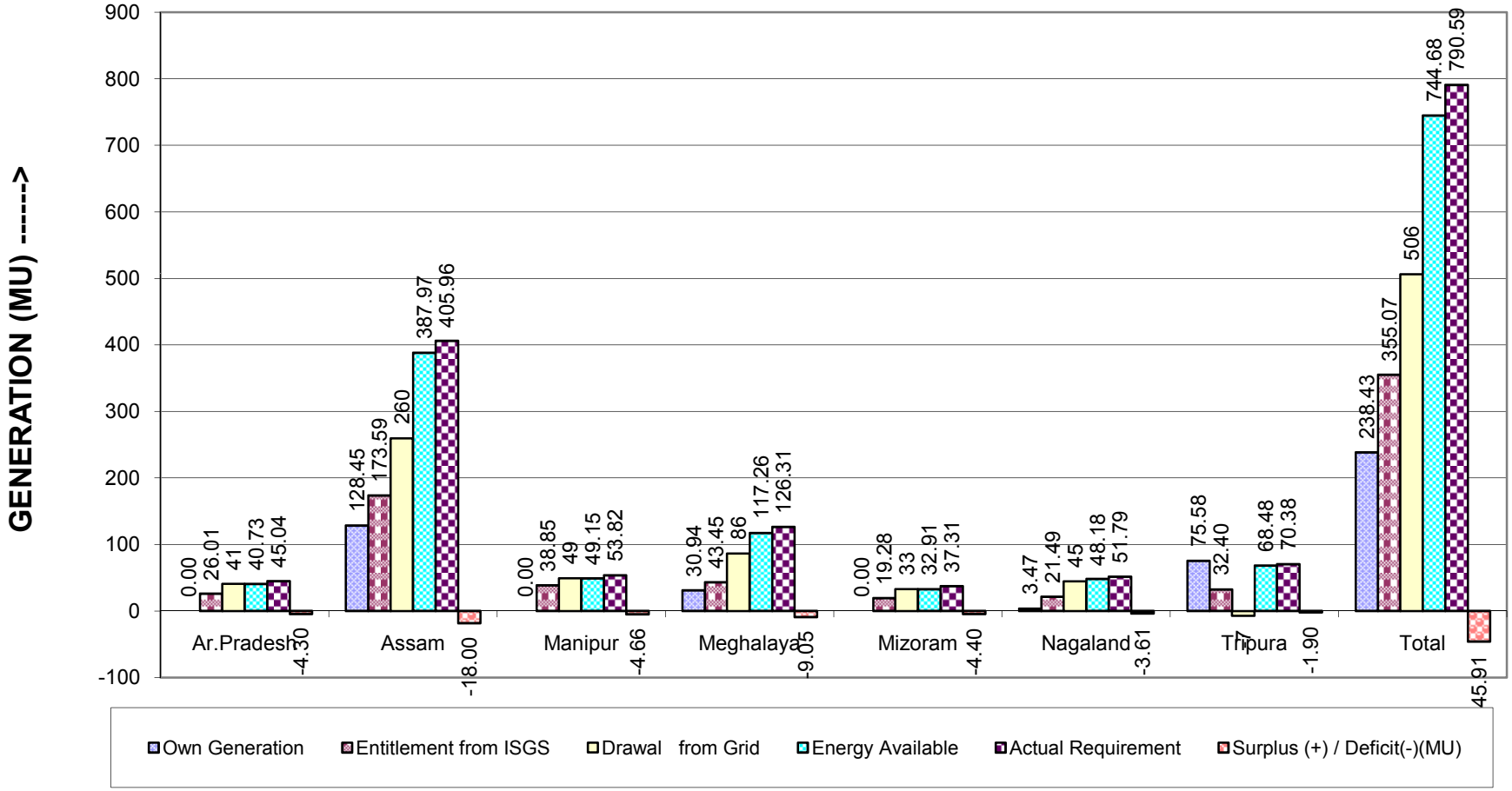


Exhibit-VI

Reservoir Statistics of NER in January, 2011