



भारत सरकार Government of India
विद्युत मंत्रालय Ministry of Power
उत्तर पूर्वी क्षेत्रीय विद्युत समिति
North Eastern Regional Power Committee
एन ई आर पी सी कॉम्प्लेक्स, डोंग पारमाओ, लापालाङ, शिल्लोंग-७९३००६, मेघालय
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दिनांक/Date: 20.11.2017

सेवा में,
To

संलग्नक सूचि के अनुसार
As per enclosed list.

विषय: उ.पू.क्षे.वि.स. की फरवरी 2017 की मासिक प्रगति रिपोर्ट
Subject: Monthly Progress Report of NERPC for the month of **February 2017**.

महोदय,
Sir,

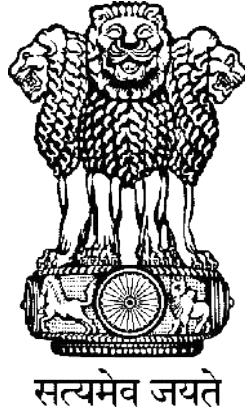
उत्तर पूर्वी क्षेत्रीय विद्युत समिति की फरवरी 2017 की मासिक प्रगति रिपोर्ट आपके अवलोकनार्थ हेतु हमारा वेबसाइट www.nerpc.nic.in में अपलोड की गई है ।

The Monthly Progress Report of the North Eastern Regional Power Committee for the month of February is uploaded in our office website www.nerpc.nic.in for your perusal.

भवदीय / Yours faithfully,

संलग्न : यथोपरि
Encl: as above

(एल. बी. मुआनथंग/ L. B. Muanthang)
अधीक्षण अभियंता / Superintending Engineer



Progress Report for the month of February 2017

Government of India
Ministry of Power
North Eastern Regional Power Committee
Shillong

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Brief highlights of North Eastern Regional Power System for the month of February 2017

- The maximum unrestricted demand during the month of February 2017 was 2243MW, which was 2329.72MW in the month of January 2017. The peak demand met in NER during the period under review was 2234MW, which was 2320 MW in the previous month.
- The energy requirement during the month of February 2017 was 1137.11 MU, which was 1288.74 MU in the month of January 2017. The energy availability in NER during the period under review was 1118.86MU, which was 1274.81MU in the previous month.
- The maximum, minimum & average system frequency were 50.34 (14-February-17), 49.76 (23-February-17) & 50.00 Hz respectively. The maximum, minimum & average FVI were 0.045, 0.032 & 0.038 respectively. The average FVI was less than its previous month's figure of 0.044. (Refer Annex-II).
- Maximum export of power from NER to ER was 678 MW (on 22.02.17 at 00:30 Hrs) and that from ER to NER was 915 MW (on 23.02.17 at 18:00 Hrs). The same Inter-Regional Exchanges of NER with NR and vice versa were 504 MW (on 23.02.17 at 16:45Hrs.) and 494 MW (on 08.02.17 at 10:30 Hrs) respectively. Total net energy import during the month was 151.99MU (-124.78 MU from ER and 276.78 MU from NR).

Salient Features of North Eastern Regional Grid for February 2017

1	New Unit/Transmission Line/Transformer commissioned during this month	NIL	
2	Number of major grid disturbance during this month	0	
3	Installed Capacity of the Region (in MW) *	February-17	February-16
	(i) Grid	3496.00	3227.00
	(ii) Isolated	124.00	124.00
	Total (As on 28.02.2017)	3620.00	3351.00
4	Energy Generation in MU (Gross):		
	Thermal/Gas	893.41	741.04
	Hydel	127.14	134.44
	Solar	0.60	0.5
	Total	1021.15	875.98
5	Demand in MW:		
	Registered Peak Demand	2243	2401
	Peak Demand Met	2234	2328
	Shortage (%age)	0.4	3.1
6	Regional Energy (Gross) in MU:		
	Energy Requirement	1137.11	1124
	Energy Availability	1118.86	1075
	Surplus (+)/Deficit(-) (%age)	-1.8	-4.56
7	Inter Regional Energy Exchange in MU:		
	NER -----> ER	137.16	15.22
	ER -----> NER	12.38	114.2
	NER -----> NR	0.00	0.00
	NR -----> NER	276.78	0.9
	Net Import	151.99	99.88
8	Frequency Profile:		
	Average Frequency (Hz)	50.00	50.07
	Average Frequency Variation Index	0.038	-

*The installed capacity of NER as on 01.10.2016 as furnished by the constituents is : Grid = 3362.3MW and isolated is 109.51 MW. Total NER= 3471.81MW

Monthly Power Supply Position

1. Energy Generation In The Region For the Month of February 2017

All figures in MU

Constituents	Hydro		Coal/Oil fired		Gas Based (OC/CC)		Solar		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	9.89				102.24					112.13		
Meghalaya	15.62				8.9					24.52		
Mizoram	3.64									3.64		
Tripura	3.01				46.27					49.28		
Nagaland	2.58									2.58		
Total (S. Sector)	34.74				157.41		0		192.15			
Central Sector :												
NEEPCO:												
Khd+Kop+Kop-II	39.7									39.7		
Kathalguri (AGBPP)					116.9					116.9		
RC Nagar					71.4					71.4		
Doyang	5.0									5.0		
Ranganadi	26.7									26.7		
Monarchak					38		0.6			38.6		
NHPC:												
Loktak	21									21		
OTPC:												
Pallatana Gas PP					382.2					382.2		
NTPC:												
BgTPP			127.5							127.5		
Total (C. Sector)	92.4		127.5		608.5		0.6		829.0			
Total NER	127.14		127.5		765.91		0.6		1021.15			

2. Requirement Vs Availability In The Region

STATES	ENERGY requirement (MU) at 50 Hz				POWER requirement (MW) at 50 Hz			
	<i>Availability & L/S at prevailing frequency</i>				<i>Availability & L/S at prevailing frequency</i>			
	Requirement	Availability	Shortfall	% Shortfall	Requirement	Availability	Shortfall	% Shortfall
Ar. Pradesh	61.66	60.82	1.13	1.7	139	135	4	3.0
Assam	600.09	585.71	15.81	2.4	1398	1396	2	0.2
Manipur	63.54	62.64	1.29	1.8	163	162	1	0.8
Meghalaya	142.03	141.99	0.04	0.0	300	300	0	0
Mizoram	43.69	43.03	1.23	2.5	95	93	2	2.3
Nagaland	57.56	56.76	1.23	1.8	148	147	1	0.7
Tripura	168.54	167.93	0.72	0.5	223	223	0	0
REGION	1137.11	1118.86	21.45	1.8	2243	2234	9	0.4

3. Estimation Of Peak Demand (In MW)

Constituents	Peak Demand Met	Date	Freq (Hz)	Estimated Peak Demand at 50 Hz
Arunachal Pradesh	135	01.02.17	49.96	139
Assam	1396	17.02.17	50.12	1398
Manipur	162	04.02.17	49.94	163
Meghalaya	300	14.02.17	49.96	300
Mizoram	93	10.02.17	49.94	95
Nagaland	147	08.02.17	49.99	148
Tripura*	223	16.02.17	50.07	223
REGION	2234	22.02.17	50.12	2243

4. Estimation of Energy Requirement (In MU)

Constituents	Generation	Energy Drawal from Grid		Energy Availability	Actual Requirement
		Schedule	Drawal		
Arunachal Pradesh	0	51.67	60.82	60.82	61.66
Assam	112.13	450.29	475.35	585.71	600.09
Manipur	0	64.88	62.64	62.64	63.54
Meghalaya	24.52	123.23	117.72	141.99	142.03
Mizoram	3.64	33.51	39.42	43.03	43.69
Nagaland	2.58	48.74	54.20	56.76	57.56
Tripura	49.28	66.96	63.17	167.93	168.54
REGION	192.15	839.28	873.32	1118.86	1137.11

*Tripura(excluding Bangladesh)

Station-Wise Energy Generated (MU) and Peak Generation (MW)

S. No.	Power Stations/Units	Installed Capacity (MW)	Peak Generation (MW)	Energy Generation (MU)	
				Feb-17	Feb-16
(i) STATE SECTOR : HYDRO					
ASSAM : HYDRO					
1	LANGPI U-1	50	50	5.78	6.47
2	LANGPI U-2	50	50	4.11	4.66
TOTAL		100	100	9.89	11.13
MEGHALAYA : HYDRO					
3	UMIAM STAGE - 1 U-1	9	9	1.04	1
4	UMIAM STAGE - 1 U-2	9	9	0.77	1
5	UMIAM STAGE - 1 U-3	9	9	0.72	1
6	UMIAM STAGE - 1 U-4	9	9	1.14	2
7	UMIAM STAGE - 2 U-1	10	11	1.84	0
8	UMIAM STAGE - 2 U-2	10	9	0.07	2
9	UMIAM STAGE - 3 U-1	30	0	0	0
10	UMIAM STAGE - 3 U-2	30	31	1.89	6
11	UMIAM STAGE - 4 U-1	30	31	2.23	4
12	UMIAM STAGE - 4 U-2	30	29	1.88	3
13	UMTRU U-1	3	0	0	
14	UMTRU U-2	3	0	0	
15	UMTRU U-3	3	0	0	
16	UMTRU U-4	3	0	0	
17	MYNTDU-LESHKA U-1	42	44	2.50	3
18	MYNTDU-LESHKA U-2	42	41	0.86	0
19	MYNTDU-LESHKA U-3	42	42	0.25	0
20	SONAPANI	2	2	0.42	0
TOTAL		316	276	15.62	25
NAGALAND : HYDRO					
21	LIKIMRO - 1	8	8	1.44	1
22	LIKIMRO - 2	8	0	0	1
23	LIKIMRO - 3	8	8	1.14	1
TOTAL		24	16	2.58	3
MIZORAM : HYDRO					
24	SERLUI B U-1	4	4	2.24	1
25	SERLUI B U-2	4	4	0.70	1
26	SERLUI B U-3	4	4	0.70	0
TOTAL		12	12	3.64	2
TRIPURA : HYDRO					
27	GUMTI - 1	5	0	0	0
28	GUMTI - 2	5	5	3.01	1.09

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29	GUMTI - 3	5	0	0	1.52
TOTAL		15	5	3.01	2.61
TOTAL STATE (HYDRO) :					
		467	409	34.74	43.74
Sr. No.	Power Stations/Units	Installed Capacity (MW)	Peak Generation (MW)	Energy Generation (MU)	
				Feb-17	Feb-16
(i) STATE SECTOR : THERMAL/GAS					
MIZORAM : THERMAL					
1	BAIRABI U-1	6	0	0	0
2	BAIRABI U-2	6	0	0	0
3	BAIRABI U-3	6	0	0	0
4	BAIRABI U-4	6	0	0	0
TOTAL		24	0	0	0
TRIPURA : THERMAL					
5	BARAMURA - 1	5			
6	BARAMURA - 2	5			
7	BARAMURA - 3	6.5			
8	BARAMURA - 4	21	23	13.42	4.41
9	BARAMURA - 5	21	21	0.58	12.68
10	ROKHIA - 1	8			
11	ROKHIA - 2	8			
12	ROKHIA - 3	8	0	0	0
13	ROKHIA - 4	8	0	0	0
14	ROKHIA - 5	8	0	0	0
15	ROKHIA - 6	8	0	0	0
16	ROKHIA - 7	21	23	13.17	13.29
17	ROKHIA - 8	21	21	7.35	12.22
18	ROKHIA - 9	21	21	11.75	12.84
TOTAL		169.5	109	46.27	55.44
ASSAM : THERMAL					
19	LTPS - 1	15	0	0	0
20	LTPS - 2	15	15	7.19	9.06
21	LTPS - 3	15	15	3.59	9.97
22	LTPS - 4	15	15	3.36	5.54
23	LTPS - 5	20	22	14.11	14.52
24	LTPS - 6	20	22	13.83	12.30
25	LTPS - 7	20	22	11.36	12.91
26	LTPS - 8	37	36	15.49	20.34
27	NTPS - 1	20	19	1.20	10.63
28	NTPS - 2	21	22	10.02	3.62
29	NTPS - 3	21	22	11.19	11.87
30	NTPS - 4	11	11	0.39	6.15
31	NTPS - 5	24	24	4.50	2.89
32	NTPS - 6	22	24	5.51	6.58
33	DLF	25	9	.5	0
TOTAL		301	278	102.24	126
TOTAL STATE (THERMAL/GAS) :		494.5	387	157.41	181.44
TOTAL STATE GEN (HY+TH/GAS)		961.5	797	192.15	236.88

S. No.	Power Stations/Units	Installed Capacity (MW)	Peak Generation (MW)	Energy Generation (MU)	
				Feb-17	Feb-16
(ii) CENTRAL SECTOR : HYDRO					
1	KHANDONG - 1	25	24	4.6	1.8
2	KHANDONG - 2	25	24	0.6	1.9
3	KOPILI Stg - II	25	24	1.9	1.7
4	KOPILI - 1	50	39	8.6	3.3
5	KOPILI - 2	50	0	0	9.7
6	KOPILI - 3	50	39	13.6	10.8
7	KOPILI - 4	50	39	10.4	4.3
8	DOYANG - 1	25	24	1.1	1.5
9	DOYANG - 2	25	24	1.9	1.0
10	DOYANG - 3	25	24	2.0	0.8
11	LOKTAK - 1	35	37	6.4	2.8
12	LOKTAK - 2	35	38	5.5	8.2
13	LOKTAK - 3	35	39	9.1	7.9
14	RANGANADI - 1	135	120	12.9	13.8
15	RANGANADI - 2	135	120	8.6	13.5
16	RANGANADI - 3	135	130	5.2	15.1
TOTAL CS HYDRO :		860	745	92.4	79
(ii) CENTRAL SECTOR : THERMAL/GAS					
1	KATHALGURI - 1	34	31	10.1	20.7
2	KATHALGURI - 2	34	31	16.7	14.5
3	KATHALGURI - 3	34	30	10.4	20.4
4	KATHALGURI - 4	34	33	16.0	20.5
5	KATHALGURI - 5	34	33	19.2	20.6
6	KATHALGURI - 6	34	32	10.5	20.8
7	KATHALGURI - 7	30	26	10.9	15.0
8	KATHALGURI - 8	30	27	11.1	17.2
9	KATHALGURI - 9	30	27	12.2	17.1
10	R.C. NAGAR - 1	21	22	11.1	14.0
11	R.C. NAGAR - 2	21	23	13.0	14.1
12	R.C. NAGAR - 3	21	23	9.8	13.0
13	R.C. NAGAR - 4	21	23	13.3	6.8
14	R.C. NAGAR - 5	23	22	12.5	14.1
15	R.C. NAGAR - 6	23	23	11.6	8.3
16	MONARCHAK SOLAR PV	5	5	0.6	0.5
17	MONARCHAK - GTG 1	66	69	38	5.5
18	MONARCHAK - STG 1				
19	PALLATANA - GTG 1	232	216	114.1	82.2
20	PALLATANA - STG 1	131	121	72.8	54.0
21	PALLATANA - GTG 2	232	230	121.3	109.9
22	PALLATANA - STG 2	131	122	74.0	69.2
23	BgTPP - 1	250	251	127.5	7.8

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24	BgTPP - 2				
25	BgTPP - 3				
TOTAL CS (THERMAL/GAS) :		1471	1415	608.5	560.1
TOTAL CS GEN (HY+TH/GAS)		2331	2160	829.0	639.1
TOTAL NER GEN (HY+TH/GAS)		3292.5	2957	1021.15	875.98

Plant Load Factor (PLF)

PLANT LOAD FACTOR OF THE THERMAL/GAS STATIONS IN N.E.R.					
S. No.	Power Station	State/Constituent	Installed Capacity (MW)	Generation (in MU)	StationwisePLF(%)
1	LTPS*	AEGCL	157.00	68.93	72.86
2	NTPS*	AEGCL	119.00	32.81	40.51
3	Baramura	Tripura	42.00	14.00	49.66
4	Rokhia	Tripura	95.00	32.27	76.24
5	AGBPP	NEEPCO	291.00	116.9	57.85
6	AGTPP	NEEPCO	84.00	71.4	79.43
7	AGTPP-2	NEEPCO	46.00		
8	Monarchak	NEEPCO	66.00	38	59.87
9	Pallatana	OTPC	727.00	382.2	77.47
10	BgTPP	NTPC	250.00	127.5	85.29

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

Voltage Profile

1. Maximum and Minimum Voltage (KV) Of Important Substations

S. No.	NAME of SUB-STATION	MAXIMUM (kV)	MINIMUM (kV)
1	MISA 400 kV	429	396
2	BALIPARA 400 kV	423	388
3	BONGAIGAON 400 kV	418	391
4	RANGANADI 400 kV	420	400
5	PALLATANA 400 kV	424	404
6	SILCHAR 400 kV	424	394
7	BISHWANATH CHARIALI 400 kV	424	385
8	AZARA 400 kV	426	396
9	BgTPP 400 kV	426	399
10	MISA 220 kV	228	213
11	SALAKATI 220 kV	233	214
12	AGBPP 220 kV	240	198
13	MOKOKCHUNG 220 kV	232	221
14	AIZAWL 132 kV	135	119
15	IMPHAL 132 kV	139	119
16	Byrnihat 400kV	427	402
17	Kahilipara 132kV	142	130
18	Nirjuli 132kV	141	119

2. 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	0	52.86	47.14
BALIPARA	0	0	99.68	0.32
BONGAIGAON	0.01	0	99.99	0
PALATANA	0	5.0	95.00	0
SILCHAR	0	4.0	96.00	0
Azara	0	0	99.99	0.01
BiswanathCharali	0	0	94.50	5.50
BgTPP	0	0	100.00	16.71
Byrnihat	0	1.13	83.82	15.05

**Inter-Regional Energy Exchange, Major Grid Disturbance and Meetings held by
 NERPC**

1. Inter-Regional Energy Exchange

All Fig. in MU

NER to ER	137.16
ER to NER	12.38
NET IMPORT FROM ER	-124.78
NER to NR	0.00
NR to NER	276.78
NET IMPORT FROM NR	276.78
NET IMPORT	152

2. Major Grid Disturbances:

No Major Grid Disturbance observed during the month.

3. Meetings Held by NERPC:

Sr. No.	Meeting	Date	Venue
1.	129 th OCC Meeting	17.02.2017	Guwahati
2.	23 rd Metering Meeting	17.02.2017	Guwahati

Status of Progress

1. Generating Projects in NER

Progress of Thermal Power Generation Projects in NER					
Central Sector					
Sr. No.	Plant	Units	Capacity in MW	Commissioning Schedule	Remarks
1	Bongaingaon NTPC	1st	3x250	Mar-16	<ul style="list-style-type: none"> • BLU done on 29.11.2014 & SB completed on 01.04.2015 • TG Put on Barring on 03.06.15 • Unit Synchronised on 22.06.15 & 'Commissioning-22.06.15 • 72 Hrs Trial Operation for COD done from 23.03.16 to 26.03.16
		2nd		Mar-17	<ul style="list-style-type: none"> • Boiler Hydro Test Apr'12 • TG Erection started on 30.01.16 • Boiler Light Up done on 27.03.16
		3rd		Jul-17	<ul style="list-style-type: none"> • Boiler Drum Lifting Feb'13 & Boiler Hydro test Mar'14 • Next Milestone : Boiler Light Up Nov'16
2	Tripura Gas Based Power Project Monarchak	1	35.58		Steam turbine was synchronized on 14.01.16. COD is delayed to non-availability of gas on a sustainable basis for trial run.
State Sector					
1	Namrup Replacement Power Project APGCL	1st	62.25		
		2nd	36.15		

Progress of Hydro Power Generation Projects in NER					
Central Sector					
Sr. No.	Plant	Units	Capacity in MW	Commissioning Schedule	Remarks
1	Subhansiri Lower (Ar. Pradesh/NHPC)	8	8x250	Syn. Comm: 2016-18	<ol style="list-style-type: none"> 1. Signing of MoU with State Government of Assam 2. Law & Order problem 3. Issue of Downstream Impact Assessment & demand for stoppage of works by anti-dam activists. Since 16.12.2011 work.

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2	Kameng (Ar. P/NEEPCO)	4	4x150	Oct-17	Work in Progress
3	Pare (Ar. P/NEEPCO)	2	2x55	Mar-17	Work in Progress
4	Tuirial (Ar. P/NEEPCO)	2	2x30	Sept-17	Work in Progress
5	Demwe Lower (Ar. P)	6	5x342; 1x40	2016-17	
State Sector					
1	New UmtruMeGPCL	2	2x20	2014-15	Slow progress of civil works.
2	Ganol SHP (MePGCL)	3	3x7.5	Oct-15	LOI issued on 22nd Dec,2012. Work Order is being issued.
3	Lakroh MHP (MePGCL)	1	1.5		Delayed due to rain.
4	Myntriang SHP stg1	2	2x3	Dec-15	
5	Myntriang SHP stg2	2	2x1.5	Aug-14	

2. Transmission Lines In NER

Progress of Transmission Lines in NER									
POWERGRID									
Sr. No.	Name of Lines	Total length in Km	Construction Progress				Target Date		Remarks
			TL (nos)	STC (nos)	TE (nos)	STG (in km)	Schedule	Revised	
1	LILO of (+/-) 800 kV HVDC BiswanathChariyali-Agra at Alipurduar	24	64	64	54	8	Jan-15	Mar-17	Gen.Projectdelayed(ant. In 2017-18).Work under progress.Commissioning matching with HVDC Terminal. ROW issue seriously affected progress.
2	400 kV Kameng-Balipara D/C	110	149	146	133	44	Aug-13	Apr-17	ATS slowed down to the extent possible to match with generation of Kameng. Gen.proj.
3	400 kV Lower Subansiri-BiswanathChariyali D/C I	335	444	329	228	64	Aug-13	Mar-18	Completion matching with Gen.(Sch.uncertain). Works Standstill on account of local disturbance/agitation against big dam.Generation schedule uncertain.

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4	400 kV Lower Subansiri- BiswanathC hariyali D/C II	348	465	327	196	35	Aug-13	Mar-18	Completion matching with Gen. (Sch. uncertain). Works Standstill on account of local disturbance/agitation against big dam. Generations schedule uncertain.
5	400 kV Silchar- Melriat(New) D/C (Charged at 132 kV)	286	456	373	243	112	Dec-12	Sep-17	Major portion of line in forest. severe ROW in vicinity of Aizawl town due to stiff resistance from influential local owner. Package re-awarded in Jun'16.
6	132 kV Aizawl (PG) - Zemabawk at Melriat (PG)	30	16	0	0	0	Dec-12	Jun-17	Package re-awarded in Jun'16. Work commenced.
7	LILO of 132 kV Zemabawk - W.Phaileng at	5	0	0	0	0		Dec-13	
8	132 kV Pasighat- Roing S/C	102	348	345	345	103	Dec-12	Mar-17	Readiness of up & downstream system being implemented by Arunachal Pradesh Govt. Critical for commissioning of line. Damage tower/foundation being taken up for rectification/recasting.
9	132 kV Tezu- Roing S/C	73	244	244	235	61	Apr-12	Mar-17	Progress affected due to severe ROW Problem.
10	132 kV Tezu- Namsai S/C	96	332	320	286	61	Dec-12	Jun-17	Progress affected due to severe ROW Problem.
TSECL									
11	132 kV Monarchak- Surajmani Nagar D/C	42	150	49	38	6		Sep-16	Work in Progress
12	132 kV Surjyamani Nagar- Badarghat D/C	6		0	0	0		Aug-16	Fund proposed in World Bank.

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13	132 kV Surjyamani Nagar(TSECL)-Rokhia DC	20	80	32	5	0		Dec-14	3.598 km line in forest land for which TSECL will supply for forest clearance. LOA issued.
14	132 kV Surjyamani Nagar- Udaipur D/C	50	50	0	0	0		Jun-15	Proposed under NEC.
15	132 kV GamaiTilla - Dhalabil	31	107	101	78	17		Sep-13	ROW problems affected the work
16	132 kV P K Bari - Kanchanpur	47	113	109	99	17		Mar-15	All works completed in non forestland. Stage I clearance received and compliance for conditions completed.
MePTCL									
17	132 kV Rongkhon- Ampati D/C	33	102	101	98	19		Mar-17	No issues of forest clearance and no court cases. Work is currently under progress.
18	132 kV New Umtru- Norbong(EPI P II) S/C	2	8	8	8	2		Mar-17	No issues of forest clearance. The 132 kV line works have been completed except for the terminal equipments at Umtru HEP (to be done by MePGCL) and at EPIP-II sub-station. Tower erected is 8/8 locations. Stringing completed - 1.71km.
MeECL									
19	LILO of 132 kV Mawlai- Cherrapunje at Mawngap	10	16	15	15	5		Dec-16	Work held up due to ROW problem. The PHED, GOME has complained and filed and FIR against Loc No. 3 to 8. Overall status is 90% completed.
20	LILO of 132 kV NEIGRIHMS - Khliehriat at Lad Nongkrem	6	7	6	6	0		Mar-17	No issues on Forest Clearance. Detail survey & check survey (1.6 km) for the 132 kV LILO is completed.
21	LILO of 132 kV Rongkhon - Ampati at Praharinaga r	20	30	0	0	0		Sep-18	Survey works for 132 kV LILO is completed.

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22	132 kV Killing (Byrnihat) - EPIP I	17	19	19	19	22		Oct-16	Work 98% completed on 11.02.2016 except at the tapping point.	
Mizoram										
23	132 kV Melriat (New) - Sihhmui	12	23	0	0	0		Dec-12	Jun-17	Stage-I forest clearance awaited. Package re-award in Jun'16.
AEGCL										
24	BTPS - Rangia D/C line	326.374	517	513	508	198.422		Mar'13	June'17	1. Overall 89% completed. A. All normal foundation completed. B. 5 nos. of Pile foundation completed.
25	LILO of one Ckt. of Samaguri - Sarusajai D/C line at Sonapur sub-station	26.624	41	41	26			Dec'13	June'17	Water logging & harvesting are reasons to be attributed for delaying.
26	Agia - Matia (Dudhnoi) S/C line on D/C tower	23.5	87	87	87	23.5		Nov'13		Test charged on 29.06.2016
27	132 kV DC Sonapur-Jagiroad Tr. Line.	51.75	86	45	35			Nov'13	June'17	Compensation Issue.
28	132 kV DC Sonapur-Chandrapur Tr. Line	28.438	51	45	29			Nov'13	June'17	Railway X'ing/ ROW/ Compensation issue.

Commercial Status

1. Entitlement, Schedule, Drawal and DSM Charges for the month of February 2017

Name of states	Entitlement from ISGS in NER (in MU)	Entitlement from ISGS in ER (in MU)	Total Entitlement (in MU)	Scheduled energy against entitlement (in MU)	Schedule Drawal (for Dev A/c) (Ex-PP State) (in MU)	Actual Drawal from Grid (in MU)	Over Drawal (+) / Under Drawal (-) (in MU)	Dev Payable (-) / Receivable (+) (including additional deviation) (Rs. In Cr)
Arunachal Pradesh	38.21	3.94	42.14	40.99	51.67	60.82	9.15	-1.6678
ASEB	343.86	90.74	434.60	409.49	450.29	475.35	25.06	-5.2017
Manipur	61.49	0.00	61.49	48.94	64.88	62.64	-2.24	0.3728
MeSEB	89.51	0.00	89.51	83.15	123.23	117.72	-5.51	0.8330
Mizoram	34.24	2.89	37.13	35.65	33.51	39.42	5.92	-1.1429
Nagaland	37.66	8.70	46.36	43.31	48.74	54.20	5.46	-1.0164
Tripura	139.19	0.00	139.19	125.75	66.96	63.17	-3.79	0.6359
PGCIL-HVDC	1.52	0.00	1.52	0.55	0.55	0.42	-0.13	0.0251

(Source: PSP, NERPC)

* In addition to total entitlement, bilateral exchanges and purchase/sell through traders/exchange are covered in Annexure-III.

2. Schedule for ISGS Generation for the month of February 2017

ISGS	Schedule (MWH)	Injection (MWH)
LOKTAK HEP	19473.5	20863.73
KHANDONG HEP	4909	39485.16
KOPILI - I HEP	30542.75	
KOPILI - II HEP	1815	
DHEP	4526.5	4979.5
RHEP	25650	26328.06

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AGTCCPP	67657.90	70651.647
AGBPP	110297.53	113393.97
OTPC, PALLATANA	366920.55	370743.16
BgTPP	762178	564383.03

Source: Final PSP for the month of February 2017.

3. 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)	AGTCCPP (130 MW)	BgTPP (250 MW)	OTPC (726.6 MW)	Loktak HEP (105 MW)
Arunachal Pradesh	5.191	5.992	4.194	18.462	6.852	5.694	6.702	5.1325	3.0303	4.940
Assam	53.455	52.355	56.285	43.328	43.808	56.503	43.720	57.420	33.058	29.445
Manipur	7.395	6.945	6.555	8.373	7.865	8.105	8.225	7.505	5.7851	42.508
Meghalaya	17.395	13.675	16.905	11.505	11.455	11.815	12.633	10.980	10.882	0.000
Mizoram	4.610	6.040	3.940	5.700	5.250	5.410	6.0	5.415	3.0303	5.020
Nagaland	6.147	5.735	6.653	5.335	17.967	5.805	5.737	4.930	3.7190	6.435
Tripura	5.807	9.258	5.468	7.297	6.803	6.668	16.983	7.6175	26.9972	11.652
TOTAL	100.00	100.00	100.00	100.00	100.00	100.00	100.00	98.995	86.5019	100.00

4. Share Allocation (%) in CS Stations from Eastern Region

States	Farakka-I	Kahelgaon-I	Kahelgaon-II	Talcher	Farakka-III
Assam	2.455737%	2.104847%	5.093479%	2.095419%	0.000000%
Meghalaya	0.000000%	0.000000%	0.000000%	0.000000%	0.000000%
Nagaland	0.429803%	0.424446%	0.000000%	0.424823%	0.000000%
Arunachal Pradesh	0.191917%	0.191747%	0.000000%	0.196898%	0.000000%
Mizoram	0.141736%	0.141610%	0.000000%	0.141736%	0.000000%
Assam (NVVN Coal Power)	0.091912%	0.091912%	0.091912%	0.091912%	0.091912%

5. Details of Fixed and Energy Charges of CS Stations for FY 2015-16

Projects	Installed Capacity (MW)	Design Energy (GWh)	Annual Fixed Charge (Crore)	Reference
KOPI LI HEP	200	1186.14	109.8446	As per CERC order dated 13.01.2016 in petition No 46/GT/2015.
KOPI LI - II	25	86.30	13.2283	As per CERC order dated 23.01.2012 in pet. No 298/2009
KHANDONG HEP	50	277.61	40.3627	As per CERC order dated 13.01.2016 in petition No 42/GT/2015.

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RHEP	405	1509.69	260.4693	As per CERC order dated 05.01.2016 and corrigendum 07.03.2016 in petition No.40/GT/ 2015.
DHEP	75	227.24	101.5605	As per CERC order dated 13.01.2016 and corrigendum dtd. 07.03.16 in petition No 43/GT/ 2015.
AGBPP	291	NA	296.5691	As per CERC order dated 15.02.2016 in Pet. No 459/GT/ 2014& 41/GT/2015. Base Rate of energy Charge as per the CERC Order
AGTPP	84	NA	71.7633	As per CERC order dated 11.03.2011 in Pet.No299/2009,^Base Energy charge as per CERC order
LOKTAK HEP	105	448.00	107.1660	As per CERC order dated 22.10.2012 in RP No. 24/2011 in Pet.No 108/2010
PALLATANA	726.6	NA	763.9771	As per CERC order dated 17.06.2015 in Pet. No 129/GT/2015
BgTPP	250	NA	NA	

Regional Transmission Account (RTA) for the month of February 2017

Name of DIC	Demand/ Injection Zone	PoC Charges	Reliability Support Charges	HVDC Charges	Total
Arunachal Pradesh	Arunachal Pradesh	18616987.36	4240623.29	1398100.23	24255710.89
ASEB	Assam	370402294.84	29119593.33	9600501.47	409122389.64
Manipur	Manipur	28413206.87	5091817.81	1678732.39	35183757.07
MeECL	Meghalaya	83943939.82	6599347.32	2175753.04	92719040.17
Mizoram	Mizoram	35209118.09	2768004.45	912589.35	38889711.90
Nagaland	Nagaland	44344906.69	3486224.75	1149380.95	48980512.40
Tripura	Tripura	26058383.31	8142797.71	2684616.52	36885797.54
HVDC BNC	Assam	757656.90	59564.05	19637.80	836858.75

Grid Disturbance Report

List of Important Grid Disturbances in N E Regional Grid during February 2017

1. At 10:05 Hr on 03-02-2017, 132 kV Imphal-Imphal I & II lines tripped. It was restored at 12:33 hrs. Outage duration: 2:28 hrs. Load Loss: 33.3MW. Category- GD-I. Due to tripping of these elements, Capital area & Karong area were separated from rest of NER Grid and subsequently collapsed due to no source in this area.
2. At 20:44 Hr on, 22/02/17 132 kV Khliehriat- MLHEP I & II lines tripped. It was restored at 23:50 hrs. Outage duration: 3:06 hrs. Generation Loss: 84MW. Category- GD-I. Due to evacuation problem, MLHEP was blacked out.
3. At 10:21 Hr on 25/02/17, 132 kV Kamalpur-Dhalabil line, 132 kV Monarchak- Rokhia line & 132 kV AGTPP-Kumarghat line tripped. It was restored at 11:28 hrs. Outage duration: 1:07 hrs. Load Loss: 120MW, Generation Loss: 121MW. Category- GD-I. Due to tripping of these elements, Tripura System except Udaipur area & P.K Bari area (P.K Bari, Dharmanagar, Kailashahar, Ambasa, Kamalpur) along with AGTPP Power Station and Bangladesh System (South Comilla load) were separated from rest of NER Grid and subsequently collapsed due to load generation mismatch.

Annexures and Exhibits

A-1

Major Reservoirs Level of The Month

	FRL (mtr.)	MDDL (mtr.)	Feb 2017	Feb 2016
			Level in mtr/ft	Level in mtr/ft
KHANDONG	719.3	704	711.2	713.3
KOPILI	609.5	592.83	599.1	599.4
LOKTAK	768.5	766.2	767.5	768.0
BARAPANI	3220 ft	3150 ft	3177.0	3207.6
GUMTI	93.55	83.6	89.8	91.8
DOYANG	333	306	313.5	313.0

A-2

Frequency Analysis For The Month of February 2017

Frequency	Freq. (in Hz.)	Date (D.M.Y)
1. Maximum Frequency	50.34	14.02.2017
2. Minimum Frequency	49.76	23.02.2017
3. Monthly Average	50.00	

Frequency in Hz as %age of Time for the Blocks

f < 49.90	49.90 < f < 50.05	f > 50.05
5.39	73.84	20.78

Daily Frequency Variation Index (FVI):

Date	FVI	Date	FVI
01-02-2017	0.045	17-02-2017	0.037
02-02-2017	0.032	18-02-2017	0.037
03-02-2017	0.035	19-02-2017	0.034
04-02-2017	0.036	20-02-2017	0.044
05-02-2017	0.037	21-02-2017	0.039
06-02-2017	0.036	22-02-2017	0.039
07-02-2017	0.034	23-02-2017	0.045
08-02-2017	0.037	24-02-2017	0.041
09-02-2017	0.034	25-02-2017	0.044
10-02-2017	0.035	26-02-2017	0.033
11-02-2017	0.035	27-02-2017	0.038
12-02-2017	0.041	28-02-2017	0.036
13-02-2017	0.041		
14-02-2017	0.040		
15-02-2017	0.038		
16-02-2017	0.044		

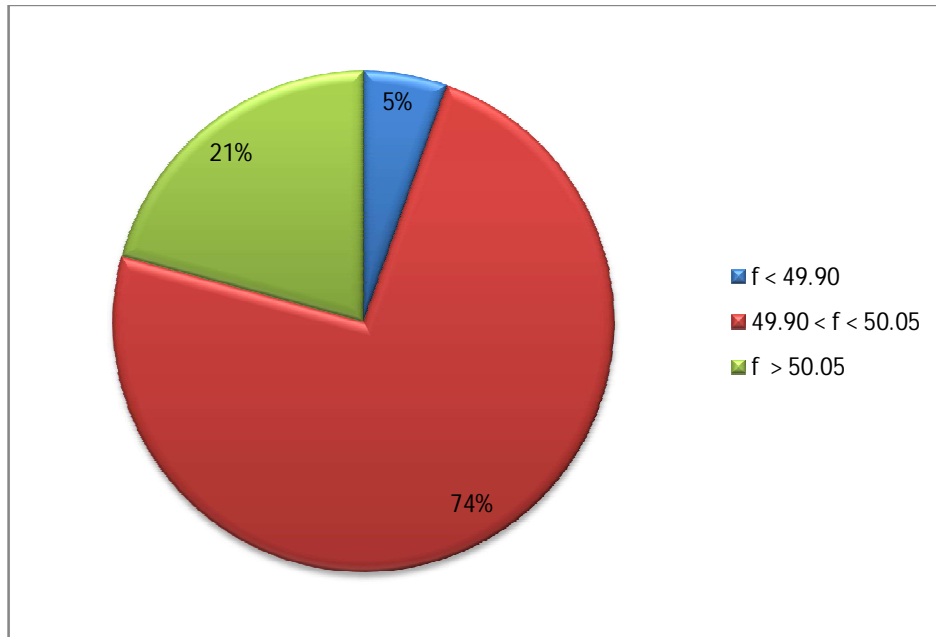
A-3

Consolidated Scheduled Bilateral Exchanges in NE Region during February 2017

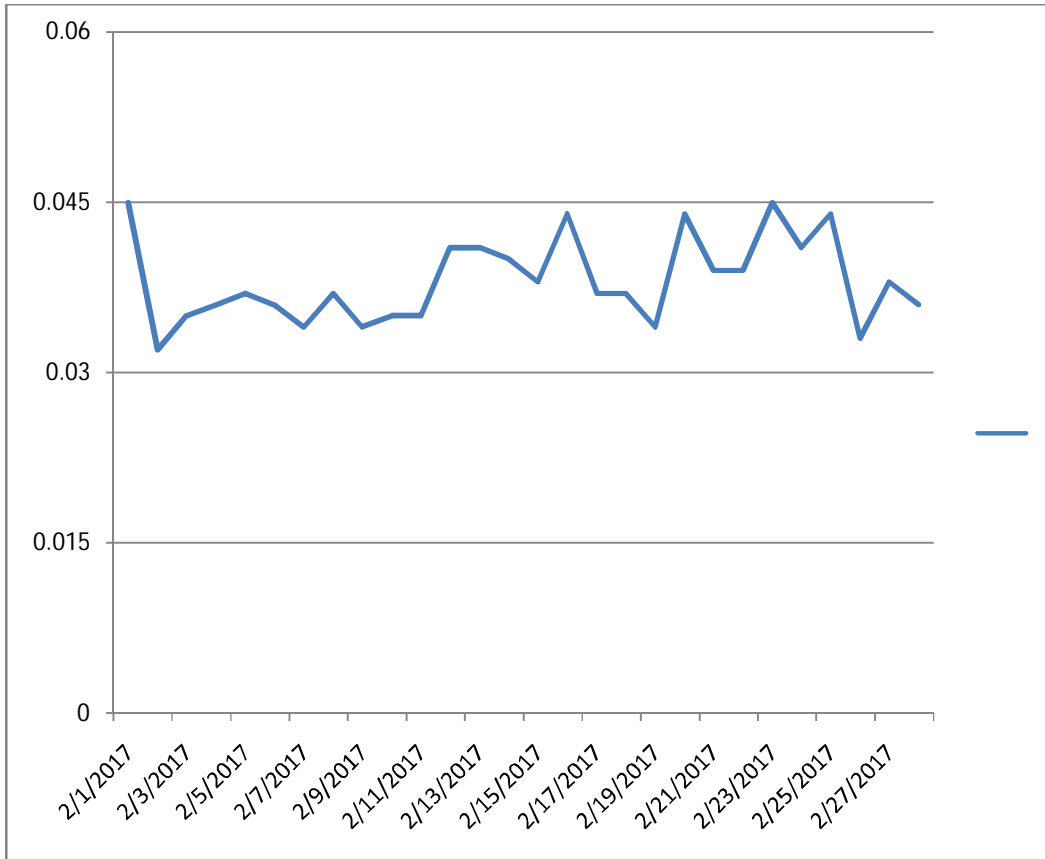
Name of Trader	Energy at NER periphery (in MWH)
MPPL	37913.835
APPCPL	7495.6975
APPCL	4833.9925
IEX	247.00
IEXL	53.00
OTPC	43535.00

B-1

Frequency Duration for February 2017

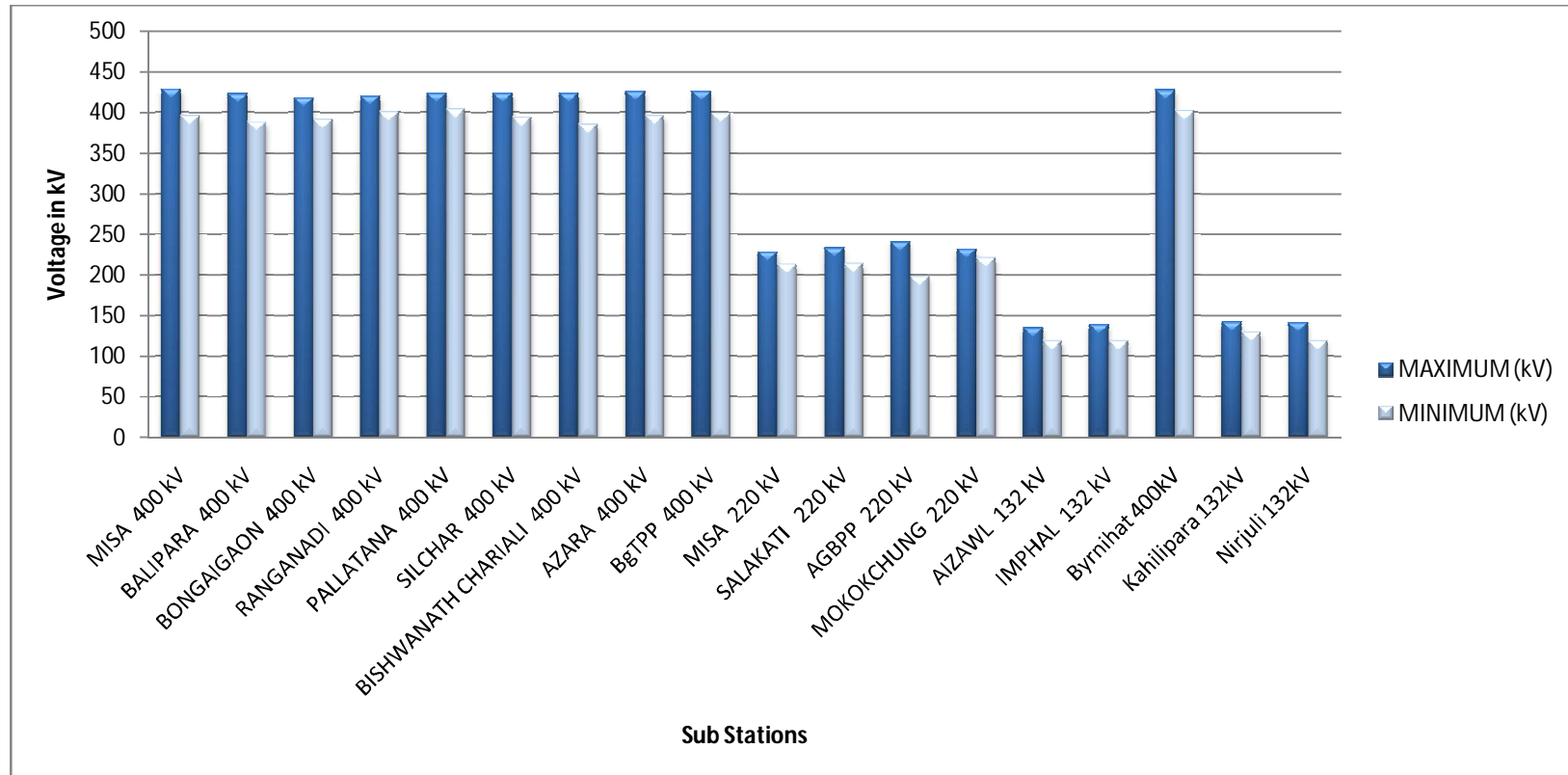


FVI Characteristic for February 2017



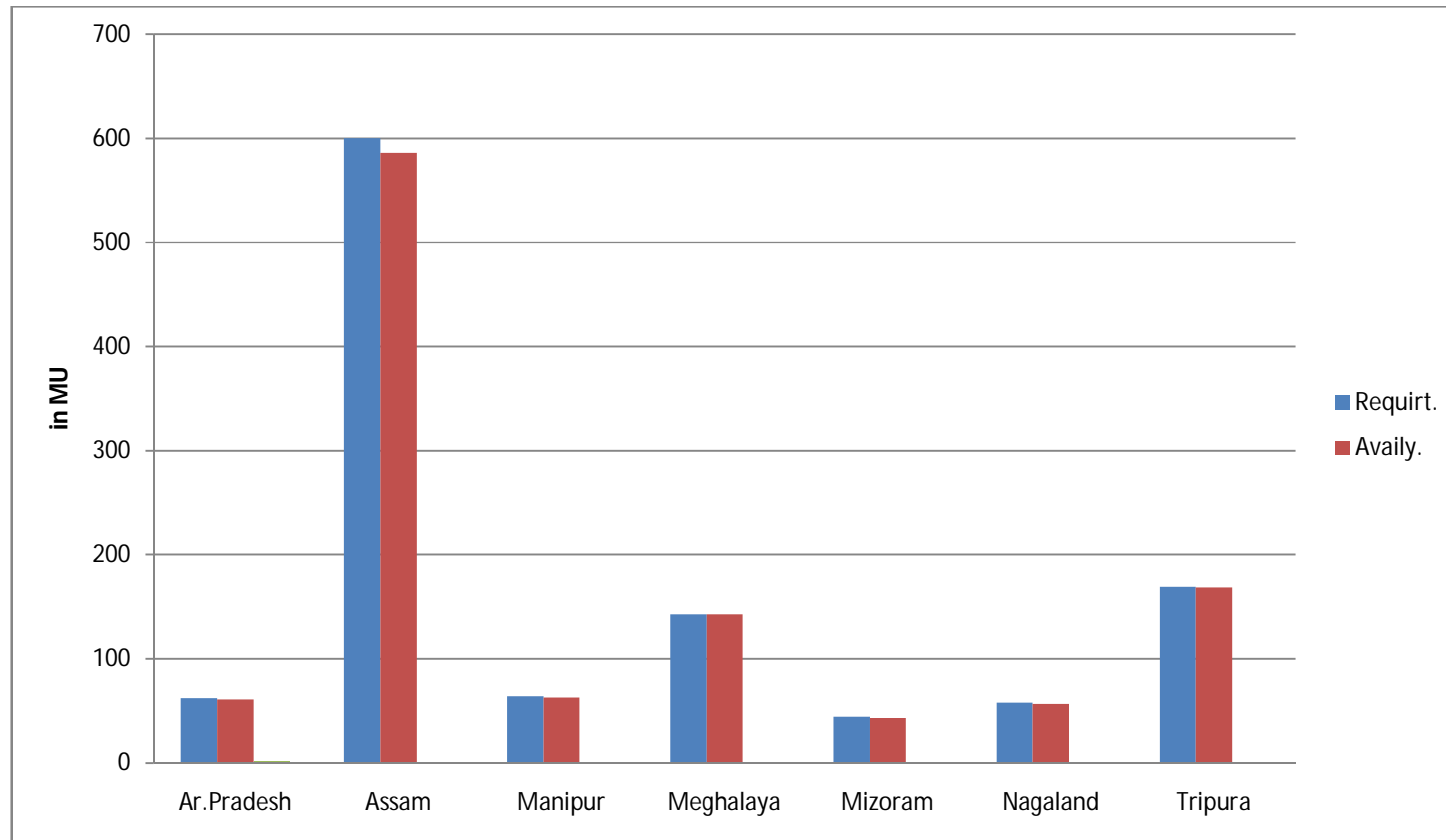
B-3

Voltage Variation Range for February 2017



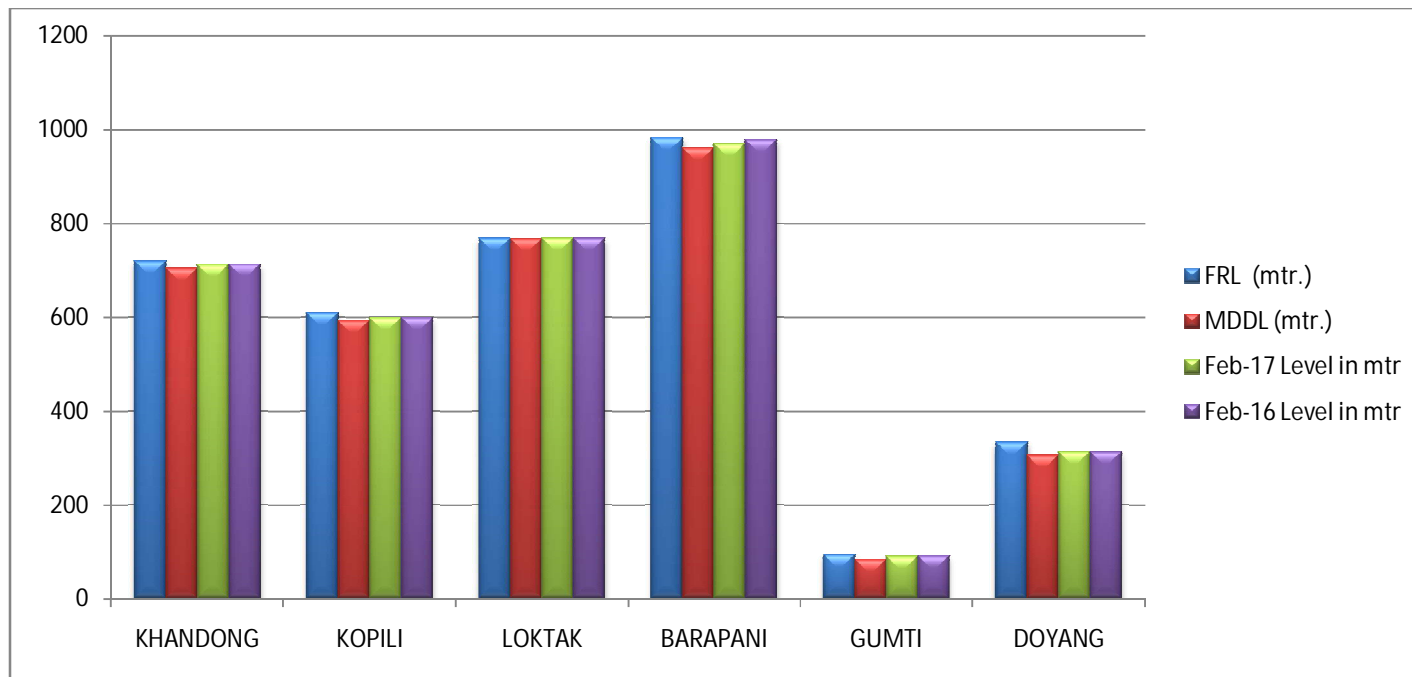
B-4

Energy Profile for February 2017



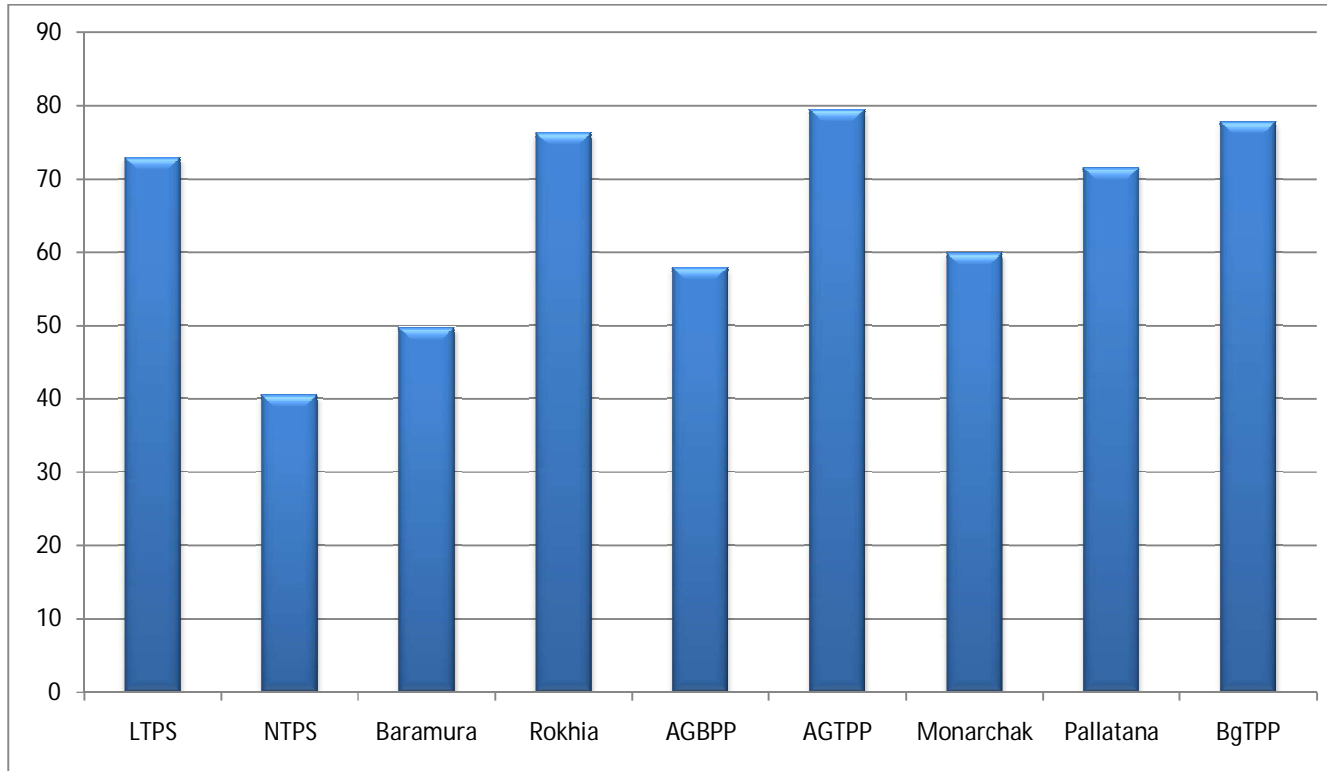
B-5

Reservoir Profile for February 2017



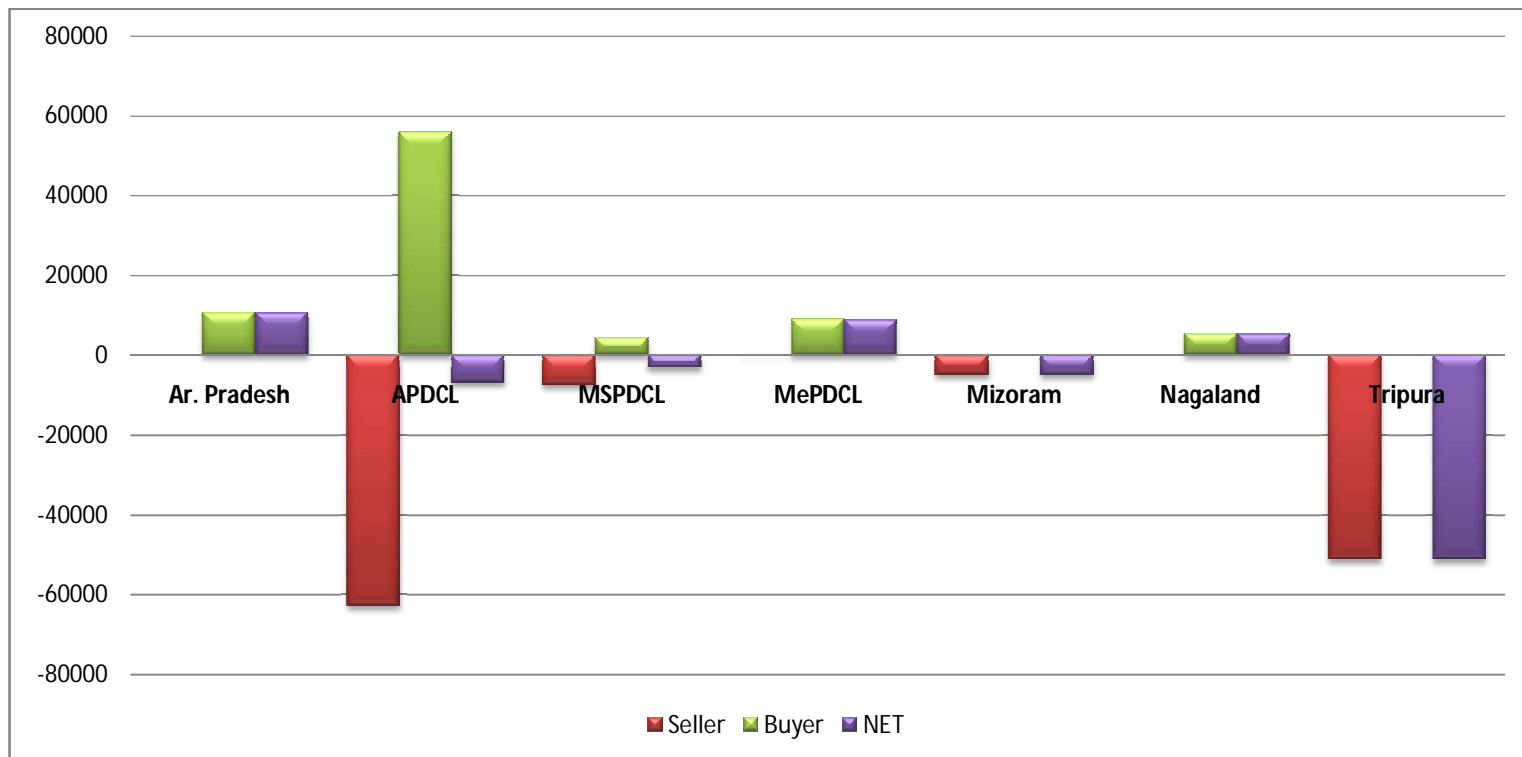
B-6

Station-wise Plant Load Factor for February 2017



B-7

Collective Transaction through IEX Power Exchange February 2017



B-8

Consolidated SEB in NE Region for the month of February 2017

