



सं/No. NERPC/MPR/2017/

दिनांक/Date: 20.11.2017

सेवा में,  
To

संलग्नक सूचि के अनुसार  
As per enclosed list.

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

महोदय,  
Sir,

उत्तर पूर्वी क्षेत्रीय विद्युत समिति की जून 2017 की मासिक प्रगति रिपोर्ट आपके अवलोकनार्थ हेतु हमारा वेबसाइट [www.nerpc.nic.in](http://www.nerpc.nic.in) में अपलोड की गई है ।

The Monthly Progress Report of the North Eastern Regional Power Committee for the month of June 2017 is uploaded in our office website [www.nerpc.nic.in](http://www.nerpc.nic.in) for your perusal.

संलग्न : यथोपरि  
Encl: as above

भवदीय / Yours faithfully,

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



CONTENTS

S. No.	Topics	Page No.
01	Brief Highlights of North Eastern Regional Power System	03
02	Salient Features	04
	<u>DETAILS OF REPORT</u>	
03	Monthly Power Supply Position:	
	(i) Energy Generation in the Region	05
	(ii) Requirement vs Availability in the Region	06
	(iii) Estimation of Peak demand (MW)	06
	(iv) Estimation of Energy Requirement	06
04	Station-wise Energy Generation (MU) & Peak Generation (MW):	
	(i) State Sector	07
	(ii) Central Sector	09
05	Plant Load Factor (PLF)	11
06	Voltage Profile of Important Sub-Stations	12
07	(i) Inter Regional Energy Exchange	13
	(ii) Major Grid Disturbance	13
	(iii) Meetings held by NERPC	13
08	Status of Progress of:	
	(i) Generating Units	14
	(ii) Transmission Lines	15
09	Commercial Status:	
	(i) DSM Accounting	20
	(ii) Schedule and CS Share Allocation	20
	(iii) Details of Fixed and Energy Charges of CS Stations	21
10	Regional Transmission Account	23
11	Grid Disturbance Report	24
	<u>ANNEXURES</u>	
A-1	Major Reservoir Levels	26
A-2	Frequency Analysis and it's Profile	27
A-3	Scheduled Bilateral Exchanges	28
	<u>EXHIBITS</u>	
B-1	Frequency Duration	29
B-2	FVI Characteristics	30
B-3	Voltage Variation Range	31
B-4	Energy Profile	32
B-5	Reservoir Profile	33
B-6	Station wise PLF	34
B-7	Collective Transaction through IEX	35
B-8	Consolidated SEB in NER	36

---

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

- The maximum unrestricted demand during the month of June 2017 was 2499MW, which was 2472MW in the month of May 2017. The peak demand met in NER during the period under review was 2387MW, which was 2391 MW in the previous month.
- The energy requirement during the month of June 2017 was 1437.68MU, which was 1389.44 MU in the month of May 2017. The energy availability in NER during the period under review was 1396.15MU, which was 1339.11 MU in the previous month.
- The maximum, minimum & average system frequency were 50.27 (28-June-17), 49.70 (02-June-17) & 49.98 Hz respectively. The maximum, minimum & average FVI were 0.067, 0.023 & 0.036 respectively. The average FVI was less than its previous month's figure of 0.048. (Refer Annex-II).
- Maximum export of power from NER to ER was 425 MW (on 13.06.17 at 04:15 Hrs) and that from ER to NER was 1440 MW (on 27.06.17 at 18:45 Hrs). The same Inter-Regional Exchanges of NER with NR and vice versa were 1210 MW (on 27.06.17 at 13:30Hrs.) and 486 MW (on 09.06.17 at 14:00 Hrs) respectively. Total net energy import during the month was -35.92MU (325.08 MU from ER and -361 MU from NR).

### Salient Features of North Eastern Regional Grid for June 2017

1	New Unit/Transmission Line/Transformer commissioned during this month	132 kV Pasighat-Roing S/C	
2	Number of major grid disturbance during this month		
3	Installed Capacity of the Region (in MW) *	June-17	June-16
	(i) Grid	3528.00	3477.00
	(ii) Isolated	124.00	124.00
	Total (As on 31.07.2017)	3652.00	3601.00
4	Energy Generation in MU (Gross):		
	Thermal/Gas	767.16	866.59
	Hydel	685.16	611.04
	Solar	0.50	0.60
	Total	1452.82	1478.23
5	Demand in MW:		
	Registered Peak Demand	2499	2479
	Peak Demand Met	2387	2475
	Shortage (%age)	4.7	0.2
6	Regional Energy (Gross) in MU:		
	Energy Requirement	1437.68	1375
	Energy Availability	1396.15	1301
	Surplus (+)/Deficit(-) (%age)	-3.0	-5.7
7	Inter Regional Energy Exchange in MU:		
	NER -----> ER	18.72	112.11
	ER -----> NER	343.8	115.4
	NER -----> NR	375	132.1
	NR -----> NER	14	2
	Net Import	-35.92	-126.81
8	Frequency Profile:		
	Average Frequency (Hz)	49.98	50.07
	Average Frequency Variation Index	0.036	-

\*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 June 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		
<b>State Sector :</b>												
Assam	57.19				90.13					147.32		
Meghalaya	118.49		28.22							146.71		
Mizoram	4.97									4.97		
Tripura	3.86				52.71					56.57		
Nagaland	3.75									3.75		
<b>Total (S. Sector)</b>	<b>188.26</b>		<b>28.22</b>		<b>142.84</b>			<b>0</b>		<b>359.32</b>		
<b>Central Sector :</b>												
<b>NEEPCO:</b>												
Khd+Kop+Kop-II	181.6									181.6		
Kathalguri (AGBPP)					146.0					146.0		
RC Nagar					61.3					61.3		
Doyang	26.4									26.4		
Ranganadi	214.5									214.5		
Monarchak					60.8		0.5			61.3		
<b>NHPC:</b>												
Loktak	74.4									74.4		
<b>OTPC:</b>												
Pallatana Gas PP					328.0					328.0		
<b>NTPC:</b>												
BgTPP			0							0		
<b>Total (C. Sector)</b>	<b>496.9</b>		<b>0</b>		<b>596.1</b>			<b>0.5</b>		<b>1093.5</b>		
<b>Total NER</b>	<b>685.16</b>		<b>28.22</b>		<b>738.94</b>			<b>0.5</b>		<b>1452.82</b>		

2. Requirement Vs Availability In The Region

STATES	ENERGY requirement (MU) at 50 Hz				POWER requirement (MW) at 50 Hz			
	<i>Availability &amp; L/S at prevailing frequency</i>				<i>Availability &amp; L/S at prevailing frequency</i>			
	Requirement	Availability	Shortfall	% Shortfall	Requirement	Availability	Shortfall	% Shortfall
Ar. Pradesh	59.90	58.79	1.11	1.9	123.89	123.0	0.89	0.7
Assam	832.47	798.62	33.85	4.2	1743.70	1623.0	120.7	7.4
Manipur	61.42	60.12	1.3	2.2	155.91	155	0.91	0.6
Meghalaya	124	124	0	0	272	272	0	0.0
Mizoram	37.73	36.68	1.05	2.9	81.95	77.0	4.95	6.4
Nagaland	69.59	68.48	1.11	1.6	146.56	146.0	0.56	0.4
Tripura	252.44	249.38	3.06	1.2	304.20	304.0	0.2	0.1
REGION	1437.68	1396.15	41.53	3.0	2499	2387	112	4.7

3. Estimation Of Peak Demand (In MW)

Constituents	Peak Demand Met	Date	Freq (Hz)	Estimated Peak Demand at 50 Hz
Arunachal Pradesh	123	29.06.17	50.03	214
Assam	1623	15.06.17	50.10	1744
Manipur	155	26.06.17	50.02	156
Meghalaya	272	29.06.17	50.03	272
Mizoram	77	30.06.17	50.02	82
Nagaland	146	23.06.17	50.10	147
Tripura*	268	23.06.17	50.10	268
REGION	2391	26.06.17	50.03	2499

4. Estimation of Energy Requirement (In MU)

Constituents	Generation	Energy Drawal from Grid		Energy Availability	Actual Requirement
		Schedule	Drawal		
Arunachal Pradesh	0	74.93	58.79	58.79	59.90
Assam	147.32	610.59	657.29	798.62	832.47
Manipur	0	60.53	60.12	60.12	61.42
Meghalaya	146.71	15.94	5.69	124	124
Mizoram	4.97	31.60	31.76	36.68	37.73
Nagaland	3.75	62.27	64.73	68.48	69.59
Tripura	56.57	78.27	75.96	249.38	252.44
REGION	359.32	934.13	954.34	1396.15	1437.68

\*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)	
				June-17	June-16
<b>(i) STATE SECTOR : HYDRO</b>					
<b>ASSAM : HYDRO</b>					
1	LANGPI U-1	50	52	26.18	14.58
2	LANGPI U-2	50	51	31.01	29.44
<b>TOTAL</b>		<b>100</b>	<b>103</b>	<b>57.19</b>	<b>44.02</b>
<b>MEGHALAYA : HYDRO</b>					
3	UMIAM STAGE - 1 U-1	9	9	1.17	3.8
4	UMIAM STAGE - 1 U-2	9	9	1.63	3.37
5	UMIAM STAGE - 1 U-3	9	9	1.45	3.2
6	UMIAM STAGE - 1 U-4	9	9	1.52	3.35
7	UMIAM STAGE - 2 U-1	10	10	0.69	4.44
8	UMIAM STAGE - 2 U-2	10	10	2.29	2.54
9	UMIAM STAGE - 3 U-1	30	30	11.97	0.00
10	UMIAM STAGE - 3 U-2	30	0	0	0.00
11	UMIAM STAGE - 4 U-1	30	30	7.30	9.10
12	UMIAM STAGE - 4 U-2	30	30	8.08	11.60
13	UMTRU U-1	3	3	3.85	0
14	UMTRU U-2	3	0	0	0
15	UMTRU U-3	3	0	0	0
16	UMTRU U-4	3	0	0	0
17	MYNTDU-LESHKA U-1	42	42	23.83	26.41
18	MYNTDU-LESHKA U-2	42	42	27.52	25.85
19	MYNTDU-LESHKA U-3	42	42	26.56	24.31
20	SONAPANI	2	2	0.63	0.81
<b>TOTAL</b>		<b>316</b>	<b>277</b>	<b>118.49</b>	<b>118.15</b>
<b>NAGALAND : HYDRO</b>					
21	LIKIMRO - 1	8	8	1.82	3.48
22	LIKIMRO - 2	8	7	1.15	3.60
23	LIKIMRO - 3	8	8	0.79	3.57
<b>TOTAL</b>		<b>24</b>	<b>23</b>	<b>3.75</b>	<b>10.65</b>
<b>MIZORAM : HYDRO</b>					
24	SERLUI B U-1	4	4	2.54	2.41
25	SERLUI B U-2	4	4	2.43	1.32
26	SERLUI B U-3	4	0		0
<b>TOTAL</b>		<b>12</b>	<b>8</b>	<b>4.97</b>	<b>3.73</b>
<b>TRIPURA : HYDRO</b>					
27	GUMTI - 1	5	0	0	0
28	GUMTI - 2	5	5	2.53	1.60

Monthly Progress Report of June 2017

29	GUMTI - 3	5	6	1.33	1.12
<b>TOTAL</b>		<b>15</b>	<b>11</b>	<b>3.86</b>	<b>2.72</b>
<b>TOTAL STATE (HYDRO) :</b>					
		<b>467</b>	<b>422</b>	<b>188.26</b>	<b>179.27</b>
Sr. No.	Power Stations/Units	Installed Capacity (MW)	Peak Generation (MW)	Energy Generation (MU)	
				June-17	June-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
<b>TOTAL</b>		<b>24</b>	<b>0</b>	<b>0</b>	<b>0</b>
TRIPURA : THERMAL					
5	BARAMURA - 1	5			
6	BARAMURA - 2	5			
7	BARAMURA - 3	6.5			
8	BARAMURA - 4	21	21	5.70	8.15
9	BARAMURA - 5	21	22	8.69	8.43
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	19	14.38	13.51
17	ROKHIA - 8	21	21	12.82	12.34
18	ROKHIA - 9	21	21	11.12	13.53
<b>TOTAL</b>		<b>169.5</b>	<b>104</b>	<b>52.71</b>	<b>55.96</b>
MEGHALAYA PRIVATE : THERMAL(COAL)					
19	Maithon Alloy Ltd.	15	15	7.53	0
19	Shyam Century	14	14	8.71	
20	Adhunik Cement	25	24	11.98	0
<b>TOTAL</b>		<b>54</b>	<b>53</b>	<b>28.22</b>	<b>0</b>
ASSAM : THERMAL					
21	LTPS - 1	15	0	0	0
22	LTPS - 2	15	16	6.67	3.55
23	LTPS - 3	15	0	0	8.29
24	LTPS - 4	15	17	8.08	3.63
25	LTPS - 5	20	21	14.13	14.04
26	LTPS - 6	20	20	13.33	11.26
27	LTPS - 7	20	19	11.02	12.79
28	LTPS - 8	37	30	16.02	18.40
29	NTPS - 1	20	0	0	9.38
30	NTPS - 2	21	20	7.73	0
31	NTPS - 3	21	20	2.78	8.00
32	NTPS - 4	11	10	3.88	2.18
33	NTPS - 5	24	11	4.22	4.76

Monthly Progress Report of June 2017

34	NTPS - 6	22	7	2.17	3.94
35	DLF	25	0	0	0
<b>TOTAL</b>		<b>301</b>	<b>191</b>	<b>90.13</b>	<b>100.23</b>
<b>TOTAL STATE (THERMAL/GAS) :</b>		<b>561.5</b>	<b>348</b>	<b>171.06</b>	<b>156.19</b>
<b>TOTAL STATE GEN (HY+TH/GAS)</b>		<b>1028.5</b>	<b>718</b>	<b>359.32</b>	<b>335.46</b>

S. No.	Power Stations/Units	Installed Capacity (MW)	Peak Generation (MW)	Energy Generation (MU)	
				June-17	June-16
<b>(ii) CENTRAL SECTOR : HYDRO</b>					
1	KHANDONG - 1	25	25	16.2	14.9
2	KHANDONG - 2	25	25	15.7	15.8
3	KOPILI Stg - II	25	28	14.4	13.0
4	KOPILI - 1	50	50	32.3	32.3
5	KOPILI - 2	50	50	33.7	33.7
6	KOPILI - 3	50	52	34.7	35.3
7	KOPILI - 4	50	55	34.6	36.2
8	DOYANG - 1	25	21	9.3	9.4
9	DOYANG - 2	25	21	7.2	8.7
10	DOYANG - 3	25	15	9.8	9.5
11	LOKTAK - 1	35	37	24.8	24.9
12	LOKTAK - 2	35	36	24.6	24.9
13	LOKTAK - 3	35	37	25.1	24.7
14	RANGANADI - 1	135	140	69.4	49.5
15	RANGANADI - 2	135	140	74.4	52.6
16	RANGANADI - 3	135	146	70.8	49.9
<b>TOTAL CS HYDRO :</b>		<b>860</b>	<b>878</b>	<b>496.9</b>	<b>435.5</b>
<b>(ii) CENTRAL SECTOR : THERMAL/GAS</b>					
1	KATHALGURI - 1	34	30	21.0	20.4
2	KATHALGURI - 2	34	29	19.8	10.6
3	KATHALGURI - 3	34	0	0	19.4
4	KATHALGURI - 4	34	31	21.8	18.7
5	KATHALGURI - 5	34	30	20.4	17.9
6	KATHALGURI - 6	34	30	19.6	14.1
7	KATHALGURI - 7	30	24	17.5	13.5
8	KATHALGURI - 8	30	23	8.4	16.9
9	KATHALGURI - 9	30	25	17.5	13.0
10	R.C. NAGAR - 1	21	22	12.9	11.3
11	R.C. NAGAR - 2	21	21	12.4	12.4
12	R.C. NAGAR - 3	21	22	1.8	12.5
13	R.C. NAGAR - 4	21	21	12.7	12.5
14	R.C. NAGAR - 5	23	23	13.8	10.4
15	R.C. NAGAR - 6	23	23	7.6	13.5
16	MONARCHAK SOLAR PV	5	5	0.5	0.6
17	MONARCHAK - GTG 1	65.5	66	41.9	0
18	MONARCHAK - STG 1	35.5	35	18.9	0

Monthly Progress Report of June 2017

19	PALLATANA - GTG 1	232	221	115.5	119.8
20	PALLATANA - STG 1	131	125	74.3	74.5
21	PALLATANA - GTG 2	232	193	81.7	92.6
22	PALLATANA - STG 2	131	118	56.5	60.5
23	BgTPP - 1	250	0	0	217.2
24	BgTPP - 2				
25	BgTPP - 3				
<b>TOTAL CS (THERMAL/GAS) :</b>		<b>1505</b>	<b>1077</b>	<b>596.6</b>	<b>711.0</b>
<b>TOTAL CS GEN (HY+TH/GAS)</b>		<b>2365</b>	<b>1955</b>	<b>1093.5</b>	<b>1146.5</b>
<b>TOTAL NER GEN (HY+TH/GAS)</b>		<b>3393.5</b>	<b>2673</b>	<b>1452.82</b>	<b>1481.96</b>

---

### 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	69.34	67.69
2	NTPS*	AEGCL	119.00	20.79	24.49
3	Baramura	Tripura	42.00	14.39	47.58
4	Rokhia	Tripura	95.00	38.32	85.25
5	AGBPP	NEEPCO	291.00	146.0	63.91
6	AGTPP	NEEPCO	84.00	61.3	61.76
7	AGTPP-2	NEEPCO	46.00		
8	Monarchak	NEEPCO	102.00	60.8	84.26
9	Pallatana	OTPC	727.00	328.0	61.65
10	BgTPP	NTPC	250.00	0	0

\*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	424	394
2	BALIPARA 400 kV	427	393
3	BONGAIGAON 400 kV	422	387
4	RANGANADI 400 kV	429	399
5	PALLATANA 400 kV	422	389
6	SILCHAR 400 kV	421	389
7	BISHWANATH CHARIALI 400 kV	422	390
8	AZARA 400 kV	411	401
9	BgTPP 400 kV	423	396
10	MISA 220 kV	225	211
11	SALAKATI 220 kV	244	214
12	AGBPP 220 kV	237	226
13	MOKOKCHUNG 220 kV	236	225
14	AIZAWL 132 kV	143	121
15	IMPHAL 132 kV	139	126
16	Byrnihat 400kV	414	398
17	Kahilipara 132kV	141	125
18	Nirjuli 132kV	140	125

### 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	99.51	0.49
BALIPARA	0	0	99.65	0.35
BONGAIGAON	0	0	99.30	1.15
PALATANA	0	0	98.85	1.15
SILCHAR	0	0	99.92	0.08
Azara	0	0	100.00	0
BiswanathCharali	0	0	99.20	0.80
BgTPP	0	0	99.86	0.14
Byrnihat	0	0	100.00	0

---

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

### 1. Inter-Regional Energy Exchange

All Fig. in MU

NER to ER	18.72
ER to NER	343.8
NET IMPORT FROM ER	325.08
NER to NR	375
NR to NER	14
NET IMPORT FROM NR	-361
NET IMPORT	-35.92

### 2. Major Grid Disturbances:

None.

### 3. Meetings Held by NERPC:

Sr. No.	Meeting	Date	Venue
1.	133 <sup>rd</sup> OCC Meeting	08.06.2017	Guwahati
2.	28 <sup>th</sup> Metering Meeting	08.06.2017	Guwahati
3.	Special Meeting on SPS, Islanding and UFR etc.	23.06.2017	Shillong

## 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	2nd	2x250		<ul style="list-style-type: none"> <li>It is synchronised on 13.02.2017.</li> </ul>
		3rd		Jul-17	<ul style="list-style-type: none"> <li>Boiler Drum Lifting Feb'13 &amp; Boiler Hydro test Mar'14</li> <li>Next Milestone : Boiler Light Up Nov'16</li> </ul>

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	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.
2	Kameng (Ar. P/NEEPCO)	4	4x150	Jan-18	Work in Progress
3	Pare (Ar. P/NEEPCO)	2	2x55	Dec-17	Work in Progress
4	Tuirial (Ar. P/NEEPCO)	2	2x30	Sep-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.

2. Transmission Lines In NER

Progress of Transmission Lines in NER					
POWERGRID					
Sr. No.	Name of Lines	Total length in Km	Target Date		Remarks
			Scheduled	Revised	
1	400 kV Kameng-Balipara D/C	144	Aug-13	Dec-17	ATS slowed down to the extent possible to match with generation of Kameng. Gen. project.
2	400 kV Lower Subansiri-BiswanathChariyali D/C I	335	Aug-13	Mar-18	Completion matching with Gen.(Sch. uncertain).Works Standstill on account of local disturbance/agitation against big dam. Generation schedule uncertain.
3	400 kV Lower Subansiri-BiswanathChariyali D/C II	348	Aug-13	Mar-18	Completion matching with Gen.(Sch. uncertain).Works Standstill on account of local disturbance/agitation against big dam. Generation schedule uncertain.
4	400 kV Silchar-Melriat(New) D/C (Charged at 132 kV)	248	Dec-12	Feb-18	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.
5	400 kV D/C Jigmeling - Alipurduar TL	-	Jan-18	Mar-18	Work in Progress
6	132 kV Aizawl (PG) - Zemabawk at Melriat (PG)	30	Dec-12	Feb-18	Package re-awarded in Jun'16. ROW problem. Work under progress.
7	LILO of 132 kV Zemabawk - W.Phaileng at Sihhmui	5		Dec-13	
8	132 kV Pasighat-Roing S/C	102	Dec-12	June-17	Line commissioned in Jun'17.
9	132 kV Tezu-Roing S/C	73	Apr-12	May-17	Line charged in Jun'17.
10	132 kV Tezu-Namsai S/C	96	Dec-12	Feb-18	Progress affected due to severe ROW Problem.
TSECL					
11	132 kV Monarchak-Surajmani Nagar D/C	50	Jun-14	Mar-17	Work in Progress

Monthly Progress Report of June 2017

12	132 kV Surjyamani Nagar-Badarghat D/C	6		Aug-16	Fund proposed in World Bank.
13	132 kV Surjyamani Nagar(TSECL)-Rokhia DC	32.32	Nov-14	Mar-14	3.598 km line in forest land for which TSECL will supply for forest clearance. LOA issued.
14	132 kV GamaiTilla - Dhalabil	31		Sep-13	ROW problems affected the work
15	132 kV P K Bari - Kanchanpur	47		Mar-15	All works completed in non forest land. Stage I clearance received and compliance for conditions completed.
MePTCL					
16	132 kV New Umtru-Norbong(EPIP II) S/C	1		Mar-17	i) Date of award of contract is 05.02.2016. (ii) Schedule date of completion was 05.05.2016. (iii) The 132 kV line was completed on 11.11.2016 and commissioned on 25.03.2017.
MeECL					
17	LILO of 132 kV Mawlai-Cherrapunjee at Mawngap	10		Mar-18	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.
18	LILO of 132 kV NEIGRIHMS - Khliehriat at Lad Nongkrem	6		Nov-17	Delay in supply of materials for line by the vendor.
19	LILO of 132 kV Rongkhon - Ampati at Praharnagar	20		Sep-18	Survey works for 132 kV LILO is completed. LOA for the LILO is yet to be awarded.
20	132 kV Killing (Byrnihat) - EPIP I	17	Mar-12	Jun-17	Work 98% completed on 11.02.2016 except at the tapping point.
Mizoram					
21	132 kV Tural-Aizawl	12		Mar-14	.
AEGCL					
22	BTPS - Rangia D/C line	326.374	Mar-13	June-17	1. Overall 89%completed.A. All normal foundation completed. B. 5 nos. of Pile foundation completed.
23	LILO of one Ckt. of Samaguri - Sarusajai D/C line at Sonapur sub-station	26.624	Dec-13	June-17	Water logging & harvesting are reasons to be attributed for delaying.

Monthly Progress Report of June 2017

25	132 kV DC Sonapur-Jagiroad Tr. Line.	51.75	Nov-13	June-17	Compensation/ROW Issue.
26	132 kV DC Sonapur- Chandrapur Tr. Line	28.438	Nov-13	June-17	Railway X'ing/ ROW/ Compensation issue.

## Commercial Status

### 1. Entitlement, Schedule, Drawal and DSM Charges for the month of June 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	75.57	3.87	79.43	73.48	74.93	58.79	-16.14	-1.21
ASEB	435.60	97.26	532.86	494.73	610.59	657.29	46.70	-17.96
Manipur	98.90	0.00	98.90	94.66	60.53	60.12	-0.41	0.07
MeSEB	117.76	0.00	117.76	103.13	15.94	5.69	-10.25	1.70
Mizoram	46.58	2.83	49.41	46.71	31.60	31.76	0.16	-0.66
Nagaland	55.45	8.55	64.00	60.61	62.27	64.73	2.46	-1.02
Tripura	144.69	0.00	144.69	137.77	78.27	75.96	-2.31	-2.34
PGCIL-HVDC	0.00	0.00	0.00	0.00	0.00	0.66	0.66	-0.13

(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 June 2017

ISGS	Schedule (MU)	Injection (MU)
LOKTAK HEP	56.36	60.66
KHANDONG HEP	132.29	72.74
KOPILI - I HEP	72.37	
KOPILI - II HEP	30.95	
DHEP	13.87	0

Monthly Progress Report of June 2017

RHEP	24.89	26.09
AGTCCPP	130.56	141.66
AGBPP	210.99	212.37
OTPC, PALLATANA	311.23	312.65
BgTPP	0	0

Source: Final PSP for the month of June 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
KOPII HEP	200	1186.14	109.8446	As per CERC order dated 13.01.2016 in petition No 46/GT/2015.
KOPII - II	25	86.30	13.2283	As per CERC order dated 23.01.2012 in pet. No 298/2009

Monthly Progress Report of June 2017

KHANDONG HEP	50	277.61	40.3627	As per CERC order dated 13.01.2016 in petition No 42/GT/2015.
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 June 2017**

Name of DIC	Demand/ Injection Zone	PoC Charges	Reliability Support Charges	HVDC Charges	Total
Arunachal Pradesh	Arunachal Pradesh	33207957.88	4496855.29	1438268.08	<b>39143081.24</b>
ASEB	Assam	352964127.25	30879092.09	9876326.82	<b>393719546.16</b>
Manipur	Manipur	34412263.63	5399481.69	1726962.88	<b>41538708.21</b>
MeECL	Meghalaya	58757178.67	6998100.94	2238263.09	<b>67993542.70</b>
Mizoram	Mizoram	33551508.22	2935256.11	938808.32	<b>37425572.65</b>
Nagaland	Nagaland	27300327.52	3696873.58	1182403.02	<b>32179604.11</b>
Tripura	Tripura	28830703.94	8634811.54	2761746.38	<b>40227261.85</b>
HVDC BNC	Assam	721987.18	63163.10	20202.00	<b>805352.28</b>

---

## Grid Disturbance Report

### List of Important Grid Disturbances in N E Regional Grid during June 2017

1. At 20:17 Hrs on 02.06.2017, 132 kV Khliehriat (PG)-Khliehriat (MePTCL) II line tripped. It was restored at 20:48 hrs. Outage duration: 0:31 hrs. Load Loss: 105MW, Generation Loss =126 MW. Category- GD-I. Due to tripping of this element, Khliehriat area (Khliehriat, NEHU, NEIGRIHMS, Mustem, Lumshong, Mawlai, Umiyam Substation and MLHEP Powerhouse) was separated from rest of NER Grid and subsequently collapsed due to load generation mismatch.
2. At 14:58 Hrs on 08.06.17, 400 kV Silchar - Byrnihat line and 400 kV Azara-Silchar line tripped. It was restored at 15:22 hrs. Outage duration: 0:24hrs. Load Loss: 403MW, Generation Loss =664 MW. Category- GD-III. Due to tripping of these lines, 132 kV Badarpur - Khliehriat line & 132 kV Dimapur – Imphal line overloaded and tripped. Due to tripping of these lines, Tripura, Bangladesh (South Comilla), South Assam, Manipur, Mizoram Power Systems of NER was separated from rest of NER grid and subsequently collapsed due to load generation mismatch.
3. At 02:45 Hrs on 19th Jun'17, 400 kV Palatana - Surajmaninagar line, 132 kV Agartala-AGTCCPP I & II lines, 132 kV Agartala - Dhalabil line, 132 kV Agartala - Budhjungnagar line, 132 kV Budhjungnagar - Jirania line and 132 kV Monarchak-Rokhia I line tripped. It was restored at 3:14 hrs. Outage duration: 0:29 hrs. Load Loss: 166MW, Generation Loss: 154MW. Category- GD-I. Due to tripping of these elements, Agartala area and Surajmaninagar area of Tripura Power Systems and Bangladesh (South Comilla) Power Systems of NER was separated from rest of NER grid and subsequently collapsed due to load generation mismatch.
4. At 12:09 Hrs on 29.06.2017, 132 kV Lekhi-Nirjuli line tripped. It was restored at 12:24 hrs. Outage duration: 0:5 hrs. Load Loss: 32 MW, Generation Loss: 0 MW. Category- GD-I. Due to tripping of this element, Nirjuli area & Gohpur area were separated from rest of NER Grid and subsequently collapsed due to no source in these areas.

**Annexures and Exhibits**

## A-1

---

Major Reservoirs Level of The Month

	FRL (mtr.)	MDDL (mtr.)	June 2017	June 2016
			Level in mtr/ft	Level in mtr/ft
KHANDONG	719.3	704	719.5	719.2
KOPILI	609.5	592.83	609.4	609.14
LOKTAK	768.5	766.2	769.2	768.5
BARAPANI	3220 ft	3150 ft	3176.6	3172.8
GUMTI	93.55	83.6	90.2	90.3
DOYANG	333	306	324.5	313.6

## A-2

### Frequency Analysis For The Month of June 2017

Frequency	Freq. (in Hz.)	Date (D.M.Y)
1. Maximum Frequency	50.24	14.06.2017
2. Minimum Frequency	0.00	23.06.2017
3. Monthly Average	48.33	

Frequency in Hz as %age of Time for the Blocks

f < 49.90	49.90 < f < 50.05	f > 50.05
5.94	73.13	17.59

Daily Frequency Variation Index (FVI):

Date	FVI	Date	FVI
01-06-2017	0.061	17-06-2017	0.033
02-06-2017	0.048	18-06-2017	0.029
03-06-2017	0.067	19-06-2017	0.042
04-06-2017	0.067	20-06-2017	0.041
05-06-2017	0.039	21-06-2017	0.026
06-06-2017	0.040	22-06-2017	0.031
07-06-2017	0.050	23-06-2017	0.031
08-06-2017	0.000	24-06-2017	0.042
09-06-2017	0.025	25-06-2017	0.038
10-06-2017	0.023	26-06-2017	0.042
11-06-2017	0.024	27-06-2017	0.029
12-06-2017	0.024	28-06-2017	0.029
13-06-2017	0.033	29-06-2017	0.041
14-06-2017	0.037	30-06-2017	0.030
15-06-2017	0.034		
16-06-2017	0.030		

## A-3

---

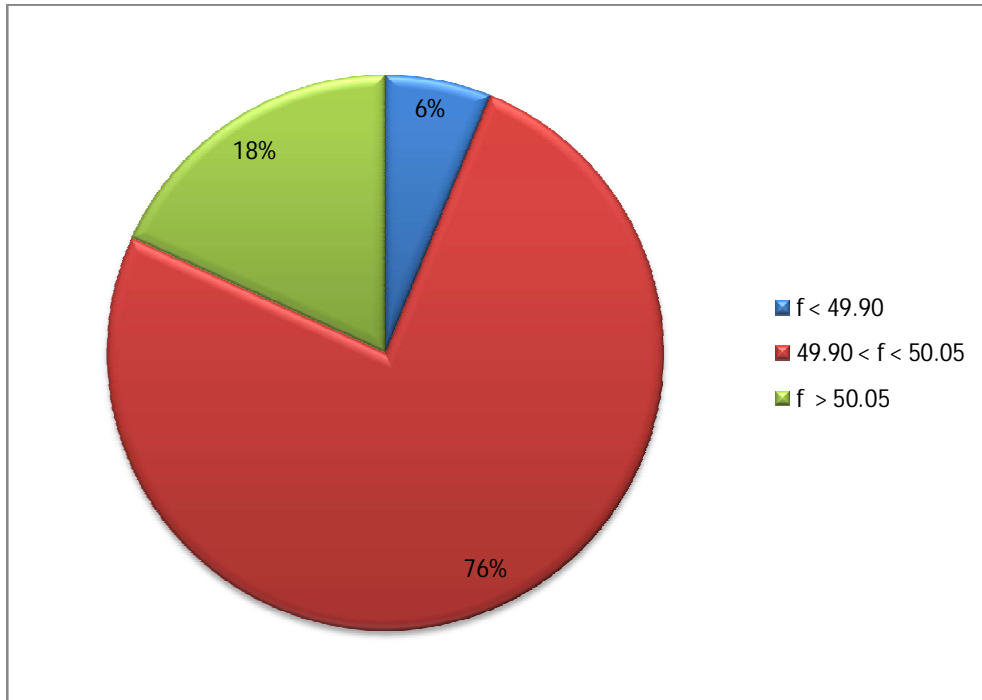
Consolidated Scheduled Bilateral Exchanges in NE Region during June 2017

Name of Trader	Energy at NER periphery (in MWH)
APPCL	38176.266
IEXL	2401.398
IIPL	25.00
MPPL	61985.36
NVVN	600.00
PXIL	80.00
TPTL	3334.25

B-1

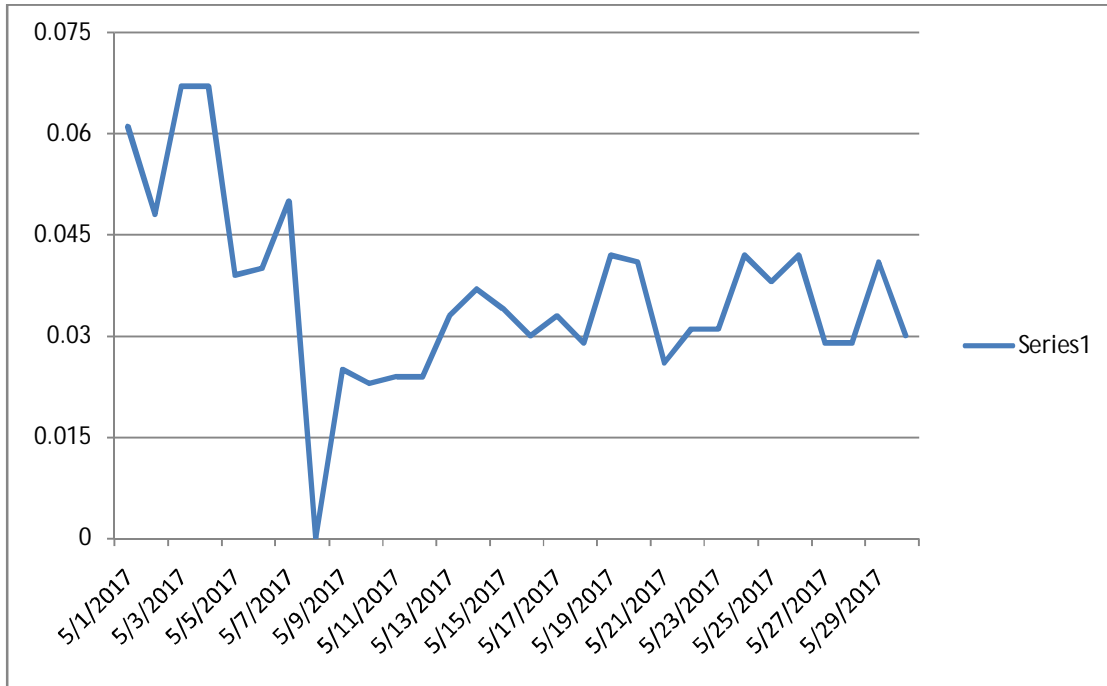
---

Frequency Duration for June 2017



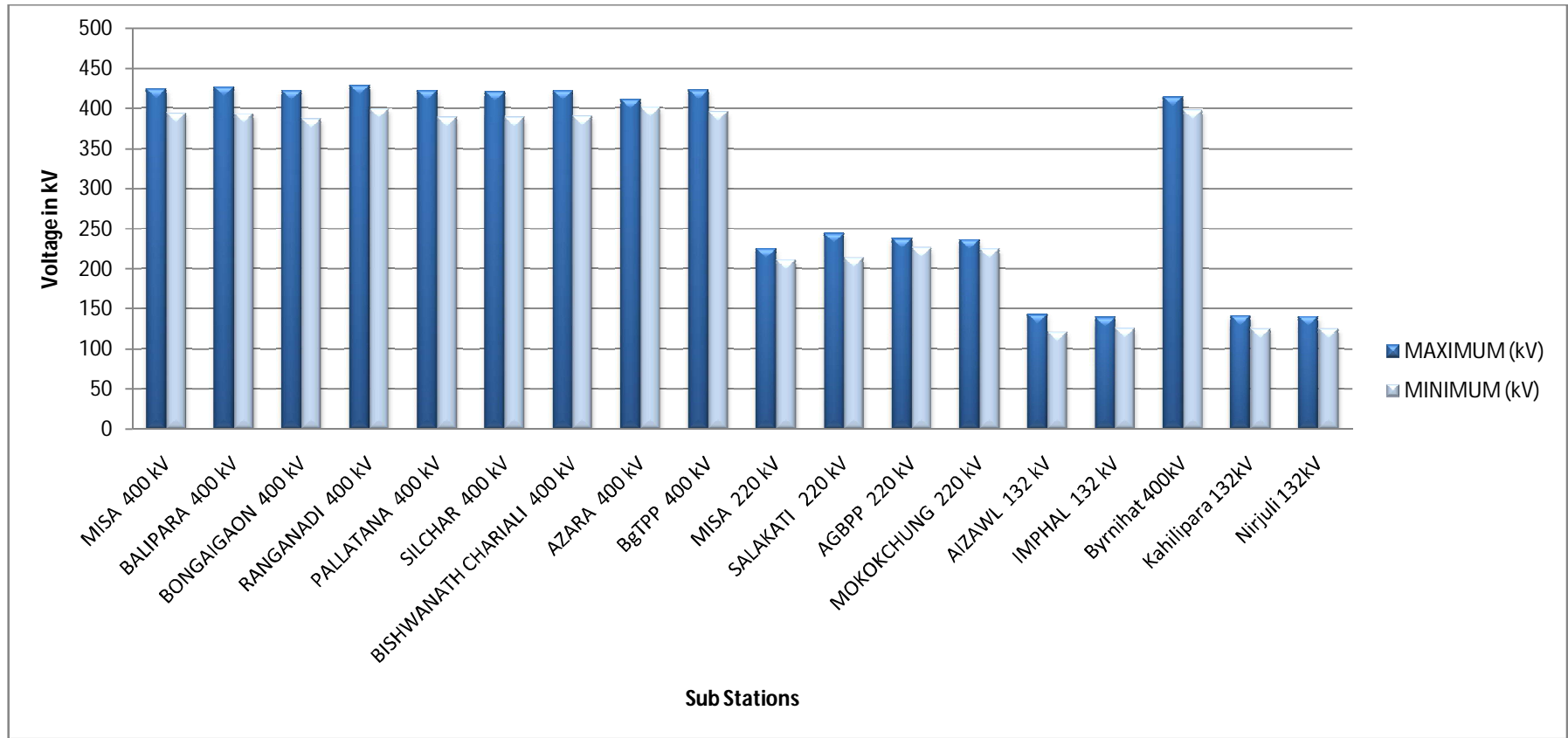
B- 2

FVI Characteristic for June 2017



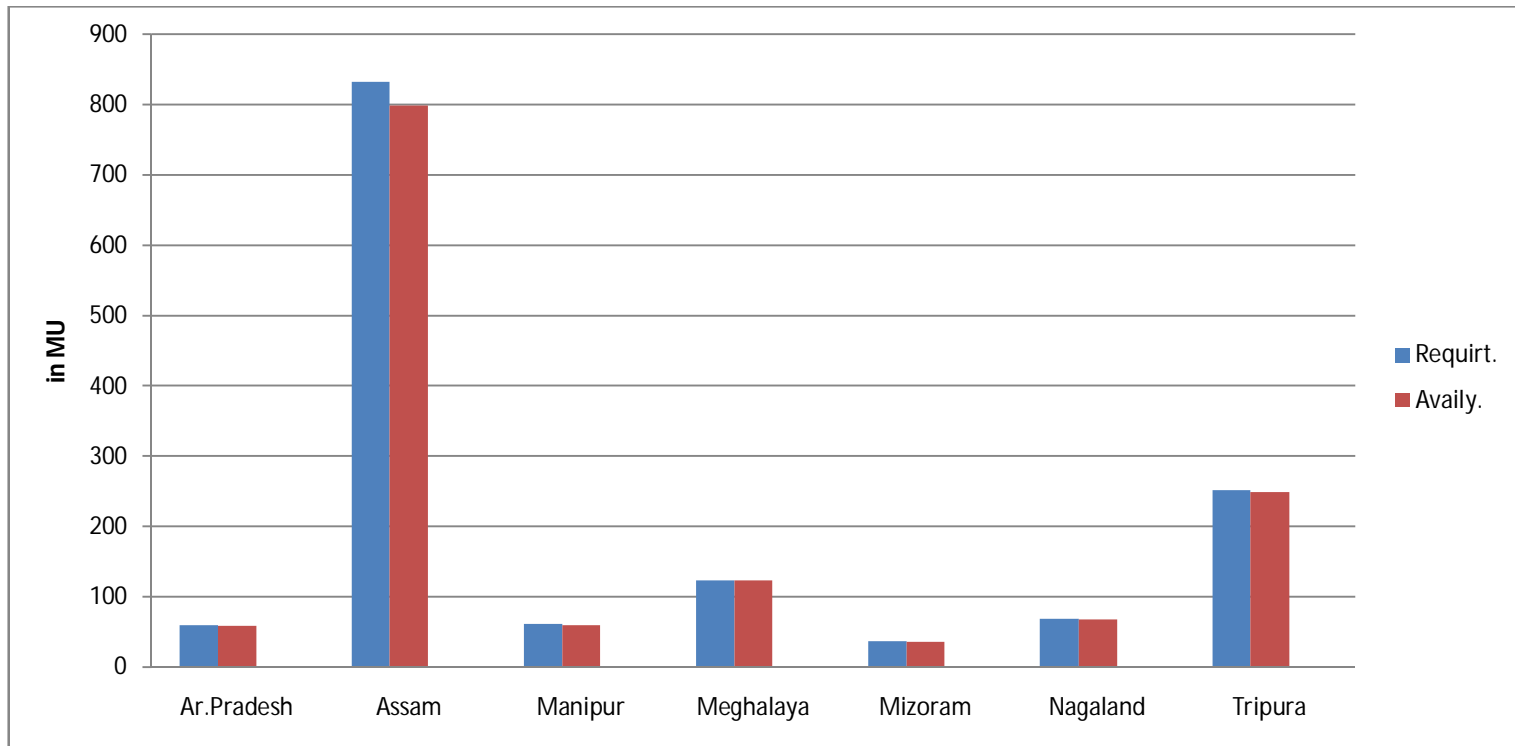
B-3

Voltage Variation Range for June 2017



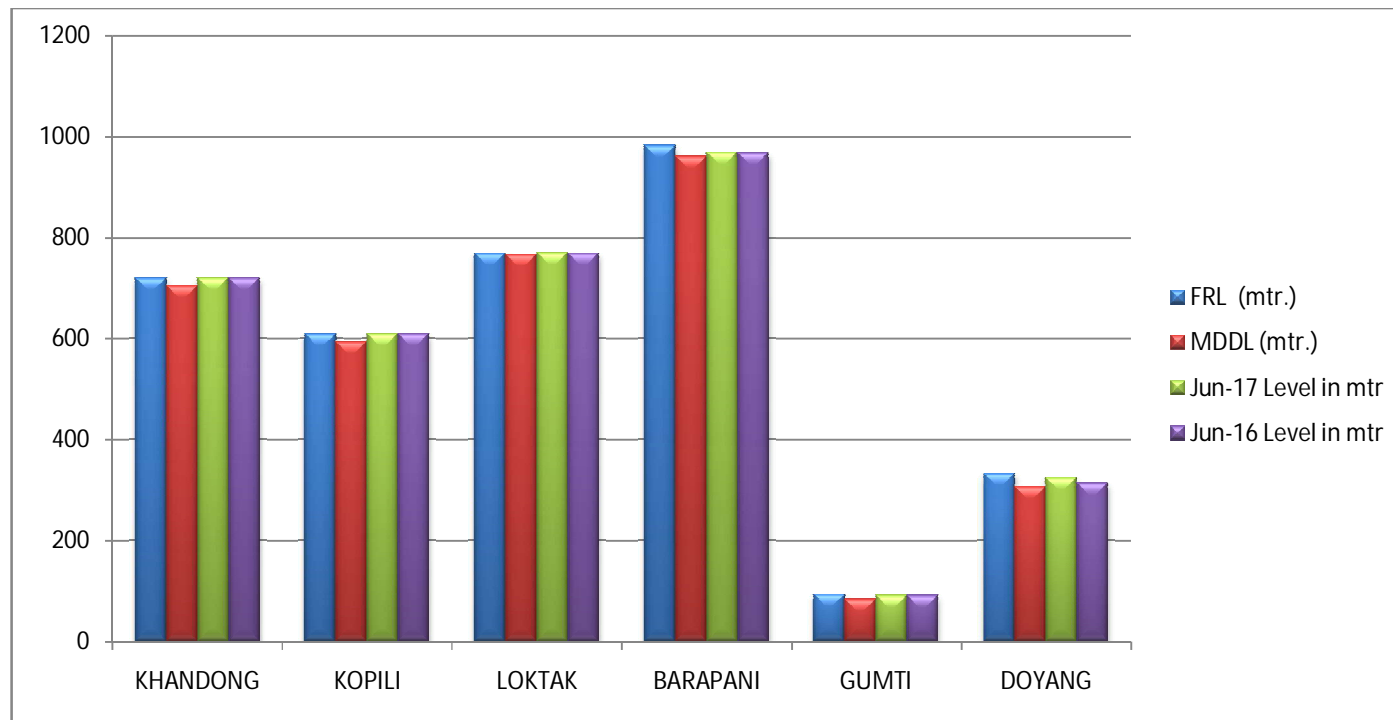
B-4

Energy Profile for June 2017



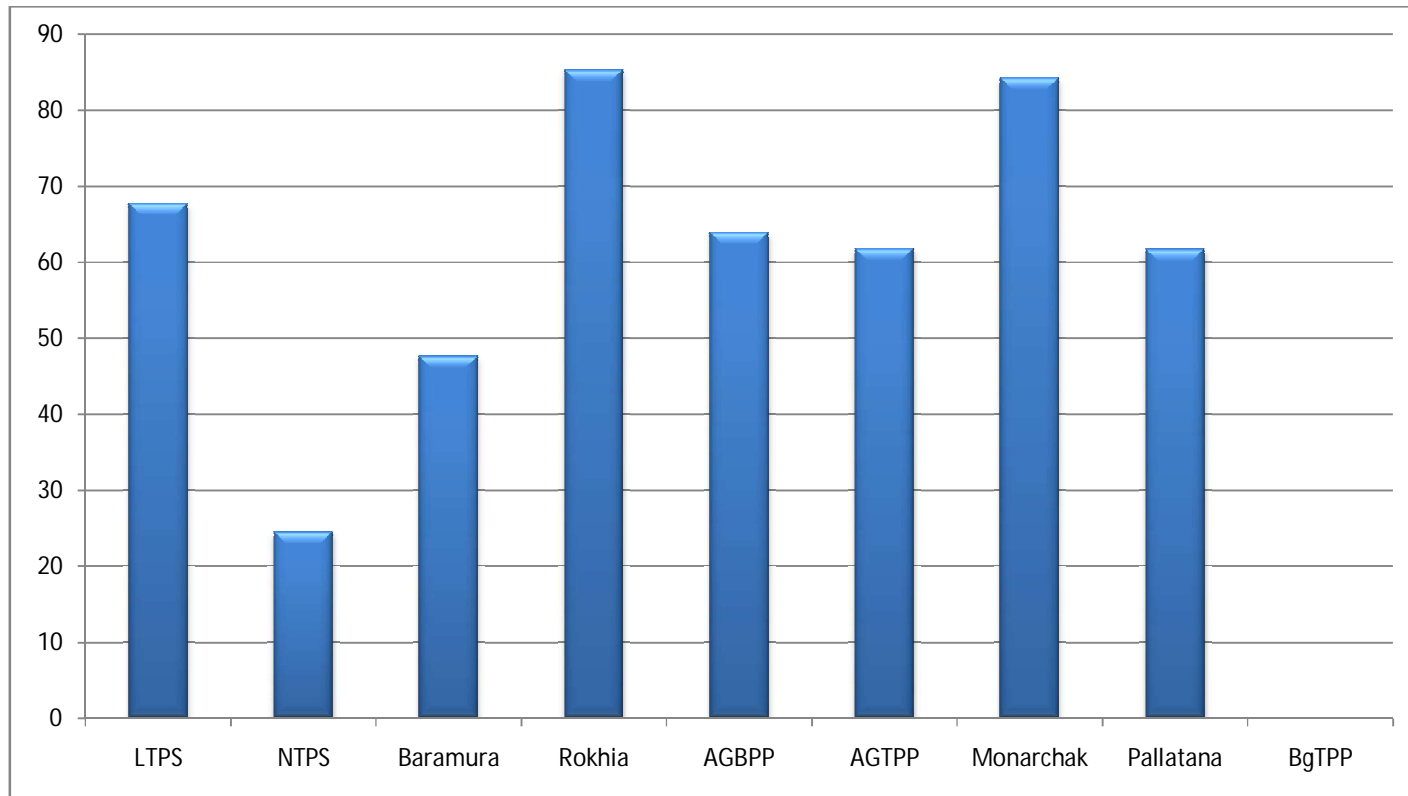
B-5

Reservoir Profile for June 2017



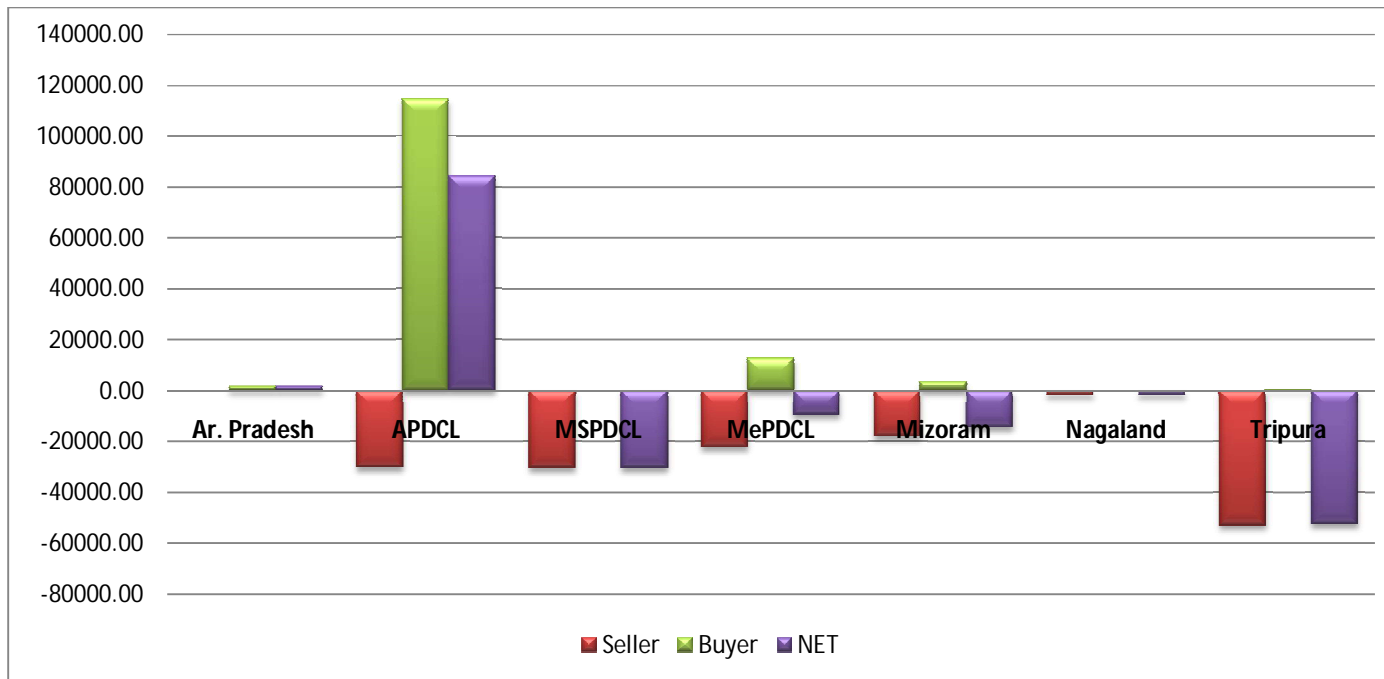
B-6

Station-wise Plant Load Factor for June 2017



B-7

Collective Transaction through IEX Power Exchange June 2017



B-8

Consolidated SEB in NE Region for the month of June 2017

