



भारत सरकार Government of India  
विद्युत मंत्रालय Ministry of Power  
उत्तर पूर्वी क्षेत्रीय विद्युत समिति  
North Eastern Regional Power Committee  
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दिनांक/Date 27th December 2017

सेवा में,  
To

संलग्नक सुचि के अनुसार  
As per enclosed list.

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

महोदय,  
Sir,

उत्तर पूर्वी क्षेत्रीय विद्युत समिति की सितम्बर 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 September 2017 is uploaded in our office website [www.nerpc.nic.in](http://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



सत्यमेव जयते

## Progress Report for the month of September 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 September 2017

- The maximum unrestricted demand during the month of September 2017 was 2629 MW, which was 2529 MW in the month of August 2017. The peak demand met in NER during the period under review was 2520 MW, which was 2442 MW in the previous month.
- The energy requirement during the month of September 2017 was 1526.14 MU, which was 1573.64 MU in the month of August 2017. The energy availability in NER during the period under review was 1475.09 MU, which was 1525.75 MU in the previous month.
- The maximum, minimum & average system frequency were 50.32 (17.09.17), 49.62 (23.09.17) & 49.97 Hz respectively. The maximum, minimum & average FVI were 0.126, 0.025 & 0.045 respectively. The average FVI was more than its previous month's figure of 0.038. (Refer Annex-II).
- Maximum export of power from NER to ER was 79 MW (on 30.09.17 at 15:45Hrs.) and that from ER to NER was 1369 MW (on 21.09.17 at 18:15 Hrs). The same Inter-Regional Exchanges of NER with NR and vice versa were 1157 MW (on 17.09.17 at 14:00Hrs.) and 0 MW respectively. Total net energy import during the month was -45.23 MU (393.77 MU from ER and -439 MU from NR).

**Salient Features of North Eastern Regional Grid for September 2017**

1	New Unit/Transmission Line/Transformer commissioned during this month		
2	Number of major grid disturbance during this month		
		Sep-17	Sep-16
3	Installed Capacity of the Region (in MW) *		
	(i) Grid	3492.00	3477.00
	(ii) Isolated	124.00	124.00
	Total (As on 31.07.2017)	3616.00	3601.00
4	Energy Generation in MU (Gross):		
	Thermal/Gas	780.09	628.18
	Hydel	702.06	811.46
	Solar	0.50	0.60
	Total	1470.65	1440.24
5	Demand in MW:		
	Registered Peak Demand	2629	2430
	Peak Demand Met	2520	2373
	Shortage (%age)	4.3	2.4
6	Regional Energy (Gross) in MU:		
	Energy Requirement	1526.14	1437
	Energy Availability	1475.09	1363
	Surplus (+)/Deficit(-) (%age)	-3.5	-5.4
7	Inter Regional Energy Exchange in MU:		
	NER -----> ER	6.73	3.74
	ER -----> NER	400.5	516.9
	NER -----> NR	439.0	531.0
	NR -----> NER	0	0
	Net Import	-45.23	-17.84
8	Frequency Profile:		
	Average Frequency (Hz)	49.97	49.98
	Average Frequency Variation Index	0.045	-

\*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 September 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	70.02				84.78				154.80	
Meghalaya	148.37								148.37	
Mizoram	0.31								0.31	
Tripura	3.43				40.51				43.94	
Nagaland	13.23								13.23	
Total (S. Sector)	235.36				125.29		0		360.65	
<b>Central Sector :</b>										
NEEPCO:										
Khd+Kop+Kop-II	149.8								149.8	
Kathalguri (AGBPP)					128.4				128.4	
RC Nagar					59.9				59.9	
Doyang	52.2								52.2	
Ranganadi	189.5								189.5	
Monarchak					56.9		0.5		57.4	
NHPC:										
Loktak	75.2								75.2	
OTPC:										
Pallatana Gas PP					270.1				270.1	
NTPC:										
BgTPP			127.5						127.5	
Total (C. Sector)	466.7		127.5		515.3		0.5		1110.00	
Total NER	702.06		127.5		640.59		0.5		1470.65	

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	65.44	64.18	1.26	1.96	135.04	128	7.04	5.50
Assam	898.88	854.88	44	5.15	1769.90	1717.70	52.2	3.04
Manipur	66.34	64.99	1.35	2.08	166.38	165.07	1.31	0.79
Meghalaya	115.14	115.10	0.04	0.03	324.93	326.03	0	0.00
Mizoram	38.14	37.14	1	2.69	86.57	84.60	1.97	2.33
Nagaland	71.54	70.40	1.14	1.62	147.30	141.38	5.92	4.19
Tripura	270.67	268.40	2.27	0.85	342.34	342.20	0.14	0.04
REGION	1526.14	1475.09	51.05	3.46	2629	2520	109	4.33

3. Estimation Of Peak Demand (In MW)

Constituents	Peak Demand Met	Date	Freq (Hz)	Estimated Peak Demand at 50 Hz
Arunachal Pradesh	128	22.09.17	49.99	135
Assam	1718	27.09.17	50.06	1770
Manipur	165	12.09.17	50.02	166
Meghalaya	326	05.09.17	50.12	325
Mizoram	85	12.09.17	50.01	87
Nagaland	141	16.09.17	50.02	147
Tripura*	306	26.09.17	50.05	306
REGION	2520	26.09.17	50.05	2629

4. Estimation of Energy Requirement (In MU)

Constituents	Generation	Energy Drawal from Grid		Energy Availability	Actual Requirement
		Schedule	Drawal		
Arunachal Pradesh	0	77.50	64.18	64.18	65.44
Assam	154.80	662.74	699.57	854.88	898.88
Manipur	0	69.33	64.99	64.99	66.34
Meghalaya	148.37	-23.54	-31.78	115.10	115.14
Mizoram	0.31	38.56	36.84	37.14	38.14
Nagaland	13.23	57.27	57.30	70.40	71.54
Tripura	43.94	118.89	114.88	268.40	270.67
REGION	360.65	1000.75	1005.98	1475.09	1526.14

\*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)	
				Sep-17	Sep-16
<b>(i) STATE SECTOR : HYDRO</b>					
<b>ASSAM : HYDRO</b>					
1	LANGPI U-1	50	50	35.74	29.82
2	LANGPI U-2	50	50	34.28	32.99
<b>TOTAL</b>		<b>100</b>	<b>100</b>	<b>70.02</b>	<b>62.81</b>
<b>MEGHALAYA : HYDRO</b>					
3	UMIAM STAGE - 1 U-1	9	9	6.12	1.87
4	UMIAM STAGE - 1 U-2	9	9	5.98	1.78
5	UMIAM STAGE - 1 U-3	9	9	2.39	1.90
6	UMIAM STAGE - 1 U-4	9	9	6.12	1.85
7	UMIAM STAGE - 2 U-1	10	10	5.51	1.60
8	UMIAM STAGE - 2 U-2	10	11	4.68	2.40
9	UMIAM STAGE - 3 U-1	30	31	4.02	0.73
10	UMIAM STAGE - 3 U-2	30	31	2.76	2.35
11	UMIAM STAGE - 4 U-1	30	30	15.94	6.79
12	UMIAM STAGE - 4 U-2	30	30	17.88	13.57
13	UMTRU U-1	3	0	0	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	25.56	23.42
18	MYNTDU-LESHKA U-2	42	42	25.66	18.25
19	MYNTDU-LESHKA U-3	42	35	25.08	23.18
20	SONAPANI	2	1	0.69	0.80
<b>TOTAL</b>		<b>316</b>	<b>299</b>	<b>148.37</b>	<b>100.49</b>
<b>NAGALAND : HYDRO</b>					
21	LIKIMRO - 1	8	8	4.14	4.71
22	LIKIMRO - 2	8	8	4.18	4.68
23	LIKIMRO - 3	8	8	4.91	4.50
<b>TOTAL</b>		<b>24</b>	<b>24</b>	<b>13.23</b>	<b>13.89</b>
<b>MIZORAM : HYDRO</b>					
24	SERLUI B U-1	4	4	0	1.22
25	SERLUI B U-2	4	4	0	0.07
26	SERLUI B U-3	4	0	0	
<b>TOTAL</b>		<b>12</b>	<b>8</b>	<b>0</b>	<b>1.29</b>
<b>TRIPURA : HYDRO</b>					
27	GUMTI - 1	5	0	0	0
28	GUMTI - 2	5	5	2.05	0

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29	GUMTI - 3	5	5	1.38	0
<b>TOTAL</b>		<b>15</b>	<b>10</b>	<b>3.43</b>	<b>0</b>
<b>TOTAL STATE (HYDRO) :</b>					
		<b>467</b>	<b>441</b>	<b>235.36</b>	<b>178.48</b>
Sr. No.	Power Stations/Units	Installed Capacity (MW)	Peak Generation (MW)	Energy Generation (MU)	
				Sep-17	Sep-16
<b>(i) STATE SECTOR : THERMAL/GAS</b>					
<b>MIZORAM : THERMAL</b>					
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>
<b>TRIPURA : THERMAL</b>					
5	BARAMURA - 1	5			
6	BARAMURA - 2	5			
7	BARAMURA - 3	6.5			
8	BARAMURA - 4	21	20	4.26	14.43
9	BARAMURA - 5	21	20	10.65	0.29
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	20	0.03	6.57
17	ROKHIA - 8	21	21	12.79	1345
18	ROKHIA - 9	21	21	12.78	11.44
<b>TOTAL</b>		<b>169.5</b>	<b>102</b>	<b>40.51</b>	<b>46.18</b>
<b>MEGHALAYA PRIVATE : THERMAL(COAL)</b>					
19	Maithon Alloy Ltd.	15	0	0	0
19	Shyam Century	14	0	0	0
20	Adhunik Cement	25	0	0	0
<b>TOTAL</b>		<b>54</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>ASSAM : THERMAL</b>					
21	LTPS - 1	15	0	0	0
22	LTPS - 2	15	14	7.9	7.94
23	LTPS - 3	15	15	6.54	5.69
24	LTPS - 4	15	0	0	6.84
25	LTPS - 5	20	20	13.72	11.81
26	LTPS - 6	20	21	12.80	12.82
27	LTPS - 7	20	20	17.15	11.49
28	LTPS - 8	37	0	0	16.85
29	NTPS - 1	20	0	0	4.76
30	NTPS - 2	21	18	4.73	6.63
31	NTPS - 3	21	20	11.14	4.79
32	NTPS - 4	11	5	1.17	0.07
33	NTPS - 5	24	18	6.14	5.26

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34	NTPS - 6	22	20	3.03	3.71
35	DLF	25	5	0.44	0
<b>TOTAL</b>		<b>301</b>	<b>176</b>	<b>84.78</b>	<b>98.66</b>
<b>TOTAL STATE (THERMAL/GAS) :</b>		<b>561.5</b>	<b>278</b>	<b>125.29</b>	<b>144.84</b>
<b>TOTAL STATE GEN (HY+TH/GAS)</b>		<b>1028.5</b>	<b>719</b>	<b>360.65</b>	<b>323.32</b>

S. No.	Power Stations/Units	Installed Capacity (MW)	Peak Generation (MW)	Energy Generation (MU)	
				Sep-17	Sep-16
<b>(ii) CENTRAL SECTOR : HYDRO</b>					
1	KHANDONG - 1	25	25	16.7	9.7
2	KHANDONG - 2	25	25	16.5	8.7
3	KOPILI Stg - II	25	22	12.6	10.1
4	KOPILI - 1	50	52	34.4	32.4
5	KOPILI - 2	50	49	3.0	34.2
6	KOPILI - 3	50	52	33.5	35.8
7	KOPILI - 4	50	52	33.1	35.4
8	DOYANG - 1	25	25	17.5	18.2
9	DOYANG - 2	25	25	17.2	17.7
10	DOYANG - 3	25	26	17.5	18.2
11	LOKTAK - 1	35	35	25.1	25.1
12	LOKTAK - 2	35	35	25.0	25.3
13	LOKTAK - 3	35	35	25.1	25.2
14	RANGANADI - 1	135	138	55.5	54.9
15	RANGANADI - 2	135	138	67.5	46.9
16	RANGANADI - 3	135	138	66.5	51.8
<b>TOTAL CS HYDRO :</b>		<b>860</b>	<b>872</b>	<b>466.7</b>	<b>449.7</b>
<b>(ii) CENTRAL SECTOR : THERMAL/GAS</b>					
1	KATHALGURI - 1	34	29	20.7	21.6
2	KATHALGURI - 2	34	29	20.4	20.8
3	KATHALGURI - 3	34	30	16.9	18.1
4	KATHALGURI - 4	34	29	20.5	0.5
5	KATHALGURI - 5	34	29	10.6	1.8
6	KATHALGURI - 6	34	29	2.4	2.0
7	KATHALGURI - 7	30	29	17.9	18.2
8	KATHALGURI - 8	30	29	14.3	7.8
9	KATHALGURI - 9	30	29	4.9	1.5
10	R.C. NAGAR - 1	21	22	13.2	11.5
11	R.C. NAGAR - 2	21	21	13.1	12.0
12	R.C. NAGAR - 3	21	21	12.8	13.5
13	R.C. NAGAR - 4	21	0	0	12.0
14	R.C. NAGAR - 5	23	25	15.0	9.8
15	R.C. NAGAR - 6	23	12	5.8	13.6
16	MONARCHAK SOLAR PV	5	5	0.5	0.6
17	MONARCHAK - GTG 1	65.5	66	38.5	0
18	MONARCHAK - STG 1	35.5	35	18.4	0

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19	PALLATANA - GTG 1	232	232	88.1	110.3
20	PALLATANA - STG 1	131	127	56.6	70.7
21	PALLATANA - GTG 2	232	217	74.4	112.8
22	PALLATANA - STG 2	131	121	51.1	71.0
23	BgTPP - 1	250	250	127.5	138.0
24	BgTPP - 2				
25	BgTPP - 3				
<b>TOTAL CS (THERMAL/GAS) :</b>		<b>1505</b>	<b>1376</b>	<b>643.3</b>	<b>667.2</b>
<b>TOTAL CS GEN (HY+TH/GAS)</b>		<b>2365</b>	<b>2248</b>	<b>1110.00</b>	<b>1116.4</b>
<b>TOTAL NER GEN (HY+TH/GAS)</b>		<b>3393.5</b>	<b>2967</b>	<b>1470.65</b>	<b>1439.63</b>

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### 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)	Stationwise PLF(%)
1	LTPS*	AEGCL	157.00	58.12	52.67
2	NTPS*	AEGCL	119.00	26.22	30.24
3	Baramura	Tripura	42.00	14.91	47.75
4	Rokhia	Tripura	95.00	25.60	56.43
5	AGBPP	NEEPCO	291.00	128.4	56.42
6	AGTPP	NEEPCO	84.00	59.9	60.08
7	AGTPP-2	NEEPCO	46.00		
8	Monarchak	NEEPCO	102.00	56.9	78.23
9	Pallatana	OTPC	727.00	270.1	50.55
10	BgTPP	NTPC	250.00	127.5	75.98

\*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	423	397
2	BALIPARA 400 kV	419	386
3	BONGAIGAON 400 kV	416	391
4	RANGANADI 400 kV	423	394
5	PALLATANA 400 kV	423	395
6	SILCHAR 400 kV	424	397
7	BISHWANATH CHARIALI 400 kV	423	397
8	AZARA 400 kV	414	402
9	BgTPP 400 kV	422	401
10	MISA 220 kV	226	211
11	SALAKATI 220 kV	244	214
12	AGBPP 220 kV	229	227
13	MOKOKCHUNG 220 kV	237	219
14	AIZAWL 132 kV	138	125
15	IMPHAL 132 kV	140	126
16	Byrnihat 400kV	412	399
17	Kahilipara 132kV	141	121
18	Nirjuli 132kV	145	129

### 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	98.68	1.32
BALIPARA	0	0	100.00	0.00
BONGAIGAON	0	0	99.87	0.13
PALATANA	0	0	87.24	12.76
SILCHAR	0	0.1	99.60	0.40
Azara	0	0	100.00	0
Biswanath Charali	0	0	99.90	0.10
BgTPP	0	0	99.66	0.34
Byrnihat	0	0	99.90	0.10

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

### 1. Inter-Regional Energy Exchange

All Fig. in MU

NER to ER	6.73
ER to NER	400.5
NET IMPORT FORM ER	393.77
NER to NR	439
NR to NER	0
NET IMPORT FROM N R	-439
NET IMPORT	-45.23

### 2. Major Grid Disturbances:

None.

### 3. Meetings Held by NERPC:

Sr. No.	Meeting	Date	Venue
1.	136 <sup>th</sup> OCC Meeting	13.09.2017	Guwahati
3.	31 <sup>st</sup> Metering Meeting	13.09.2017	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	2nd	2x250	Oct-17	<ul style="list-style-type: none"> <li>It is synchronised on 13.02.2017.</li> </ul>
		3rd		Mar-18	<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	<ol style="list-style-type: none"> <li>Signing of MoU with State Government of Assam</li> <li>Law &amp; Order problem</li> <li>Issue of Downstream Impact Assessment &amp; demand for stoppage of works by anti-dam activists. Since 16.12.2011 work.</li> </ol>
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					
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-Biswanath Chariyali 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-Biswanath Chariyali 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	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	Delayed.
12	132 kV Surjyamani Nagar-Badarghat D/C	6			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 Surjyamani Nagar(TSECL)-Udaipur DC				Proposed under NEC

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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 Praharinagar	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.
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 September 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	75.54	4.00	79.53	77.50	77.50	64.18	-13.32	2.75
ASEB	471.55	84.58	556.13	494.60	662.74	699.57	36.83	-13.01
Manipur	102.38	0.00	102.38	89.70	69.33	64.99	-4.34	0.64
MeSEB	119.22	0.00	119.22	93.84	-23.54	-31.78	-8.24	1.52
Mizoram	49.95	2.93	52.88	50.72	38.56	36.84	-1.72	0.33
Nagaland	60.50	8.79	69.29	60.37	57.27	57.30	0.02	-0.08
Tripura	135.38	0.00	135.38	131.67	118.89	114.88	-4.02	0.07
PGCIL-HVDC	1.48	0.00	1.48	0.76	0.76	0.76	0.00	0.01

(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 September 2017

ISGS	Schedule (MU)	Injection (MU)
AGTCCPP	109.60	124.56
AGBPP	207.81	187.60
KOPILI - I HEP	75.02	74.50
KOPILI - II HEP	31.52	
KHANDONG HEP	129.11	

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DHEP	14.03	0.00
RHEP	51.15	51.68
LOKTAK HEP	53.64	59.33
OTPC, PALLATANA	198.20	261.98
BgTPP	46.07	117.91

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

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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.No 299/2009,^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	

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**Regional Transmission Account (RTA) for the month of September 2017**

Name of DIC	Demand/ Injection Zone	PoC Charges	Reliability Support Charges	HVDC Charges	Total
Arunachal Pradesh	Arunachal Pradesh	28966038.85	4419111.07	1377854.34	<b>34763004.25</b>
ASEB	Assam	324358369.85	30345236.59	9461476.60	<b>364165083.04</b>
Manipur	Manipur	34780215.63	5306132.35	1654422.66	<b>41740770.64</b>
MeECL	Meghalaya	54554638.08	6877113.75	2144245.96	<b>63575997.78</b>
Mizoram	Mizoram	38782510.13	2884509.72	899374.14	<b>42566394.00</b>
Nagaland	Nagaland	28819475.72	3632959.90	1132736.76	<b>33585172.39</b>
Tripura	Tripura	32232814.71	8485527.95	2645740.59	<b>43364083.25</b>
HVDC BNC	Assam	663474.18	62071.10	19353.43	<b>744898.70</b>

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## Grid Disturbance Report

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

1. At 08:16 Hrs on 05.09.2017, 132 kV Monarchak - Rokhia line and 132 kV Palatana - Udaipur lines tripped. It was restored at 09:16 hrs. Outage duration: 1:00 hrs. Load Loss: 45 MW, Generation Loss =119 MW. Category- GD-I. Due to tripping of these elements, Monarchak Power Station, Rabindranagar and Udaipur areas of Tripura Power System were separated from rest of NER Grid and subsequently collapsed due to load generation mismatch.
2. At 10:46 Hrs on 06.09.2017, 132 kV Kolasib-Badarpur line & 132 kV Kolasib-Aizwal lines tripped. It was restored at 11:35 hrs. Outage duration: 0:49 hrs. Load Loss: 45 MW, Generation Loss =4 MW. Category- GD-I. Due to tripping of these elements, Kolasib area was separated from rest of NER Grid and subsequently collapsed due to load generation mismatch.
3. At 11:40 Hrs on 08.09.2017, 132 kV Dimapur (PG)-Dimapur (DoP, Nagaland) II line tripped. It was restored at 11:52 hrs. Outage duration: 0:12 hrs. Load Loss: 53 MW, Generation Loss: 0 MW. Category- GD-I. Due to tripping of this element, Dimapur area was separated from rest of NER Grid and subsequently collapsed due to no source in this area.
4. At 15:20 Hrs on 13.09.2017, 132 kV Monarchak - Rokhia Line and 66 kV Amarapur - Gumti line tripped. It was restored at 15:51 hrs. Outage duration: 0:31 hrs. Load Loss: 151 MW, Generation Loss: 116 MW. Category- GD-I. Due to tripping of these elements, Monarchak Power Station, Rabindranagar and Udaipur areas of Tripura Power System were separated from rest of NER Grid and subsequently collapsed due to load generation mismatch.
5. At 15:33 Hrs on 22.09.2017, 132 kV Dimapur (PG)-Dimapur (DoP, Nagaland) II line tripped. It was restored at 15:48 hrs. Outage duration: 0:15 hrs. Load Loss: 63 MW, Generation Loss: 0 MW. Category- GD-I. Due to tripping of this element, Dimapur area was separated from rest of NER Grid and subsequently collapsed due to no source in this area.

**Annexures and Exhibits**

## A-1

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Major Reservoirs Level of The Month

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

A-2

**Frequency Analysis For The Month of September 2017**

Frequency	Freq. (in Hz.)	Date (D.M.Y)
1. Maximum Frequency	50.32	17.09.2017
2. Minimum Frequency	49.62	23.09.2017
3. Monthly Average	49.97	

Frequency in Hz as %age of Time for the Blocks

f < 49.90	49.90 < f < 50.05	f > 50.05
13.60	77.21	9.19

Daily Frequency Variation Index (FVI):

Date	FVI	Date	FVI
01-09-2017	0.039	17-09-2017	0.029
02-09-2017	0.032	18-09-2017	0.029
03-09-2017	0.032	19-09-2017	0.031
04-09-2017	0.069	20-09-2017	0.025
05-09-2017	0.056	21-09-2017	0.045
06-09-2017	0.050	22-09-2017	0.030
07-09-2017	0.080	23-09-2017	0.039
08-09-2017	0.126	24-09-2017	0.025
09-09-2017	0.076	25-09-2017	0.025
10-09-2017	0.038	26-09-2017	0.048
11-09-2017	0.075	27-09-2017	0.032
12-09-2017	0.038	28-09-2017	0.037
13-09-2017	0.052	29-09-2017	0.025
14-09-2017	0.055	30-09-2017	0.025
15-09-2017	0.055		
16-09-2017	0.044		

A-3

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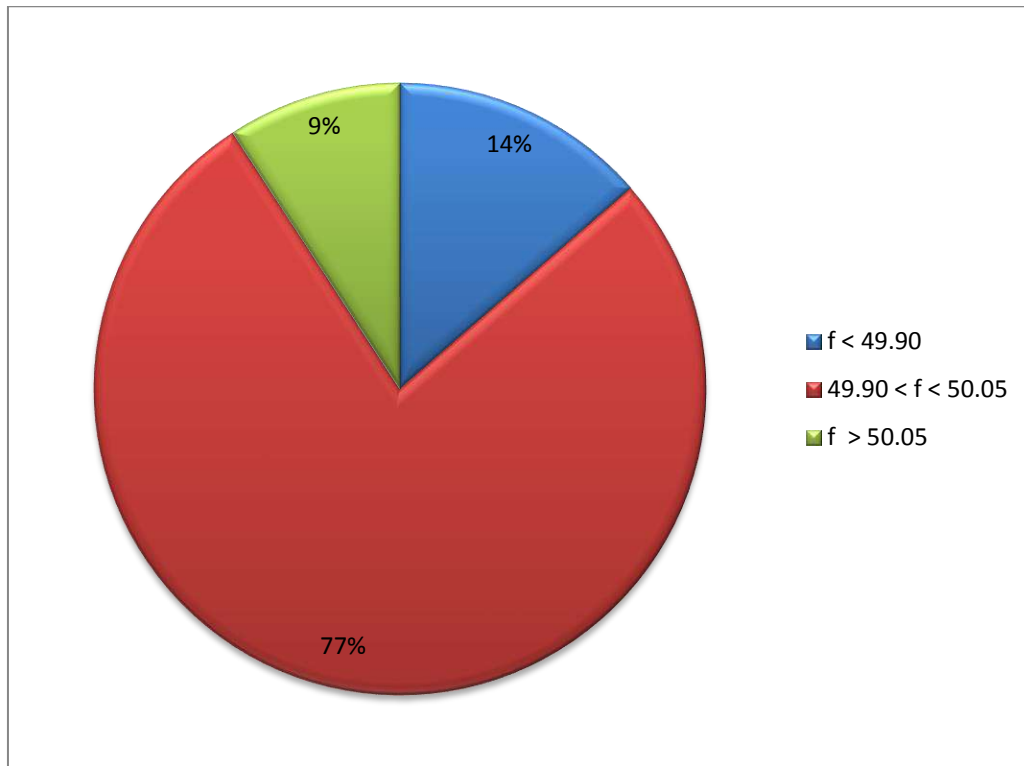
**Consolidated Scheduled Bilateral Exchanges in NE Region during September  
2017**

Name of Trader	Energy at NER periphery (in MWH)
APPCPL	42467.87
IEXL	1630.00
MPPL	45816.59
PTC	18619.72
OTPC	35375.00
TPTL	12820.00

B-1

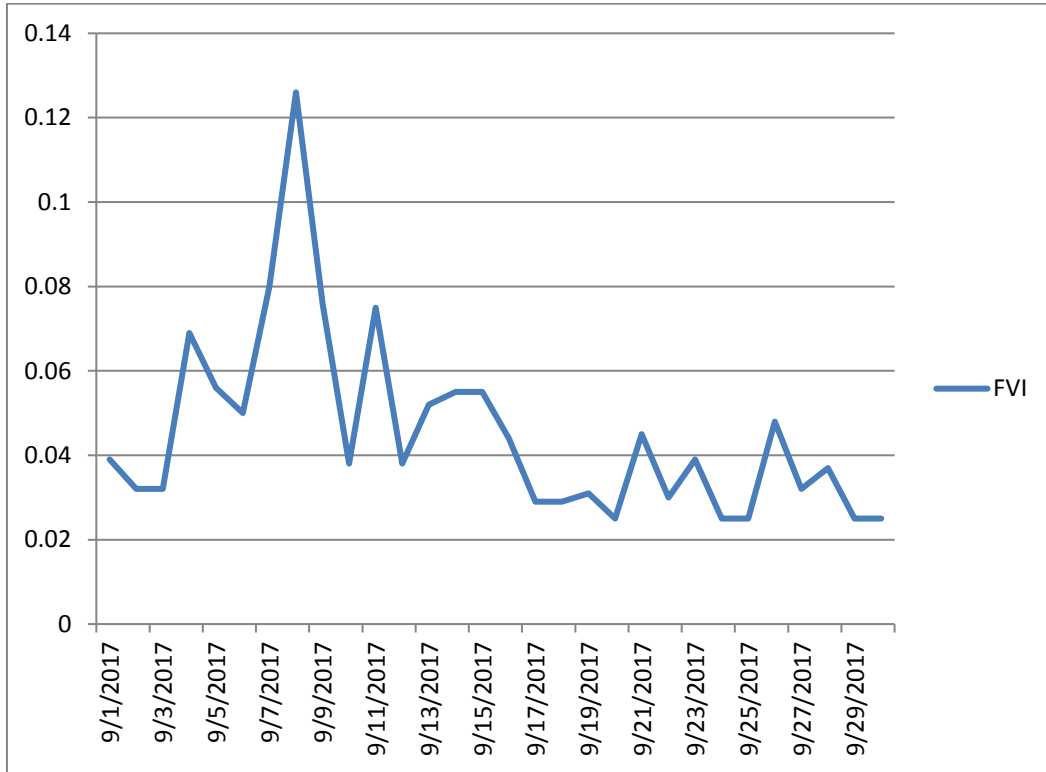
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Frequency Duration for September 2017



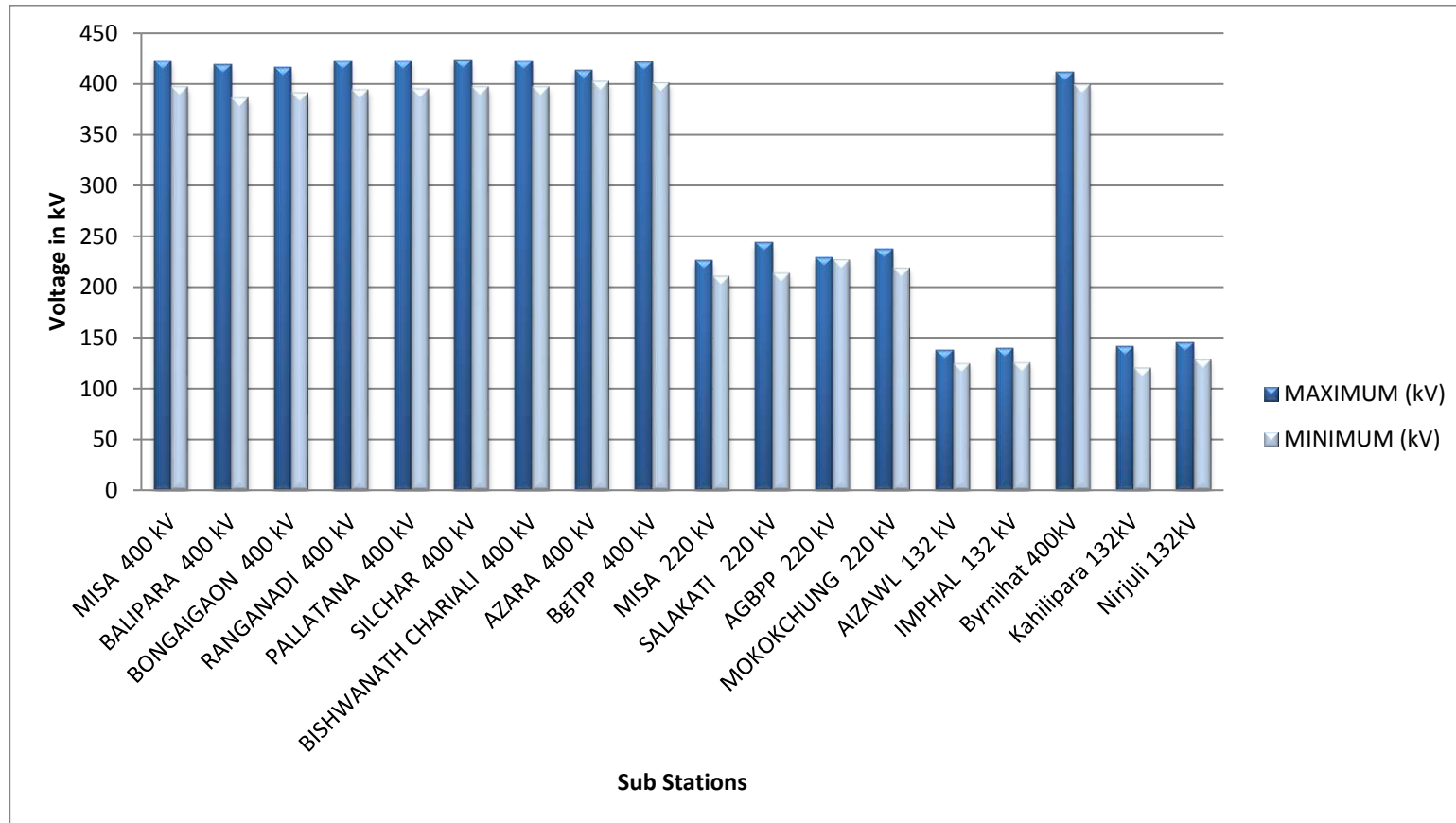
B- 2

FVI Characteristic for September 2017



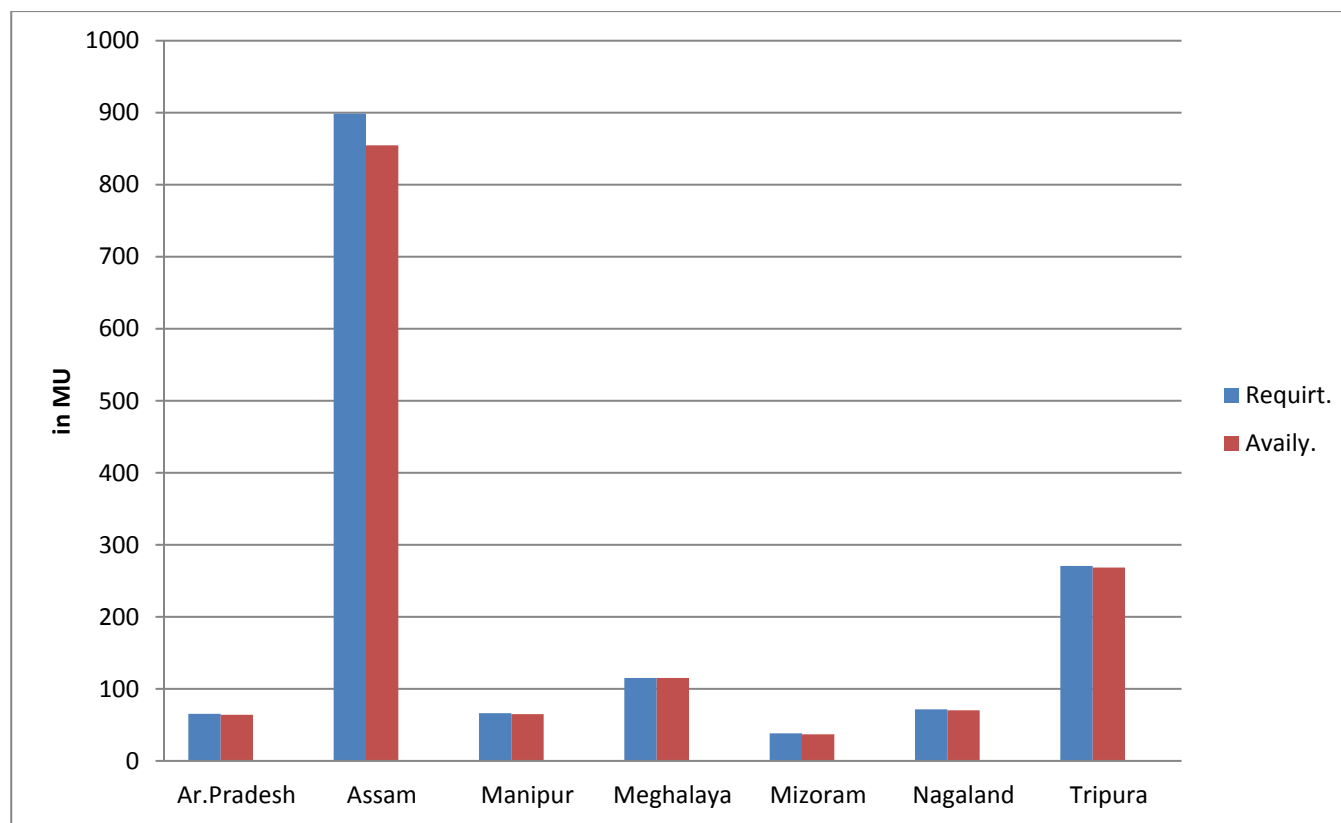
B-3

Voltage Variation Range for September 2017



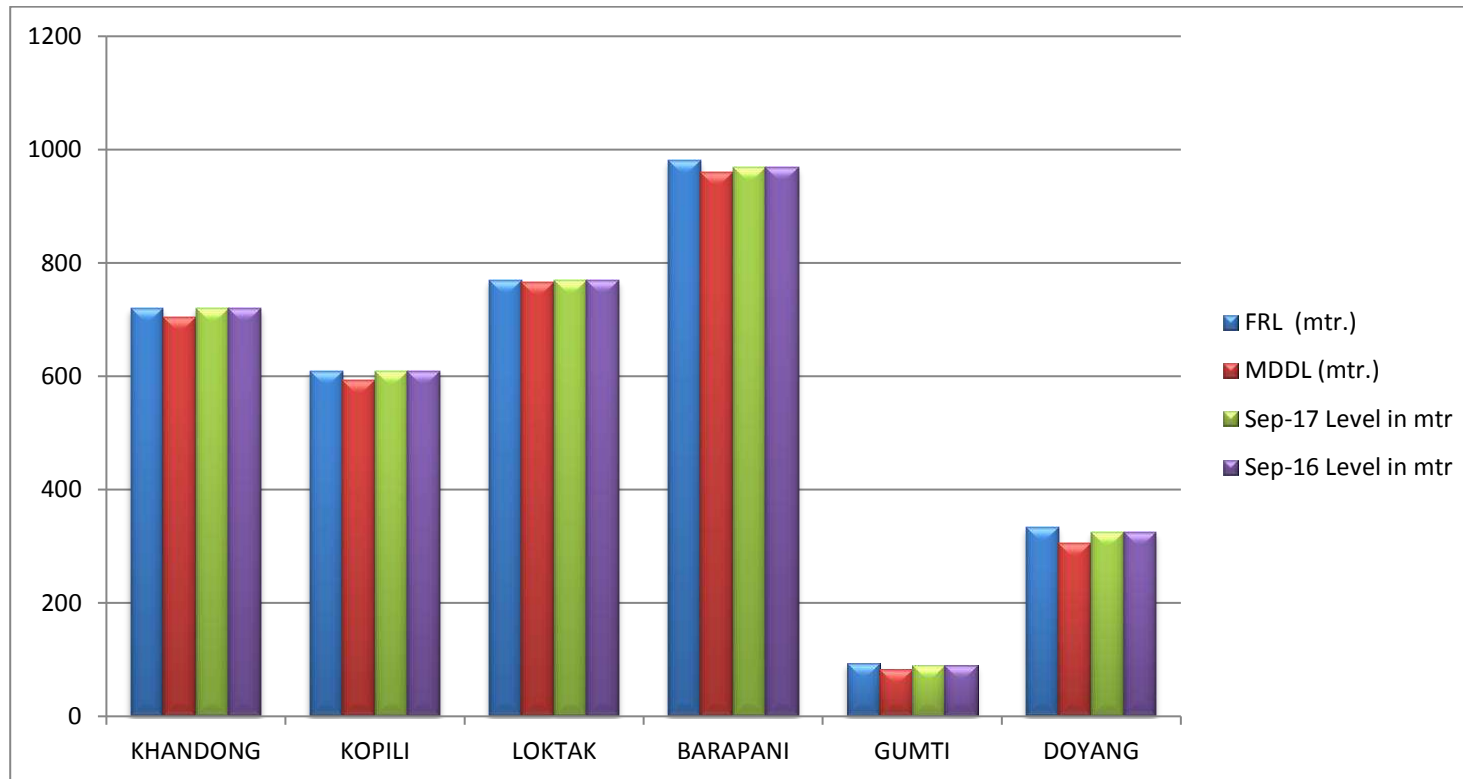
B-4

Energy Profile for September 2017



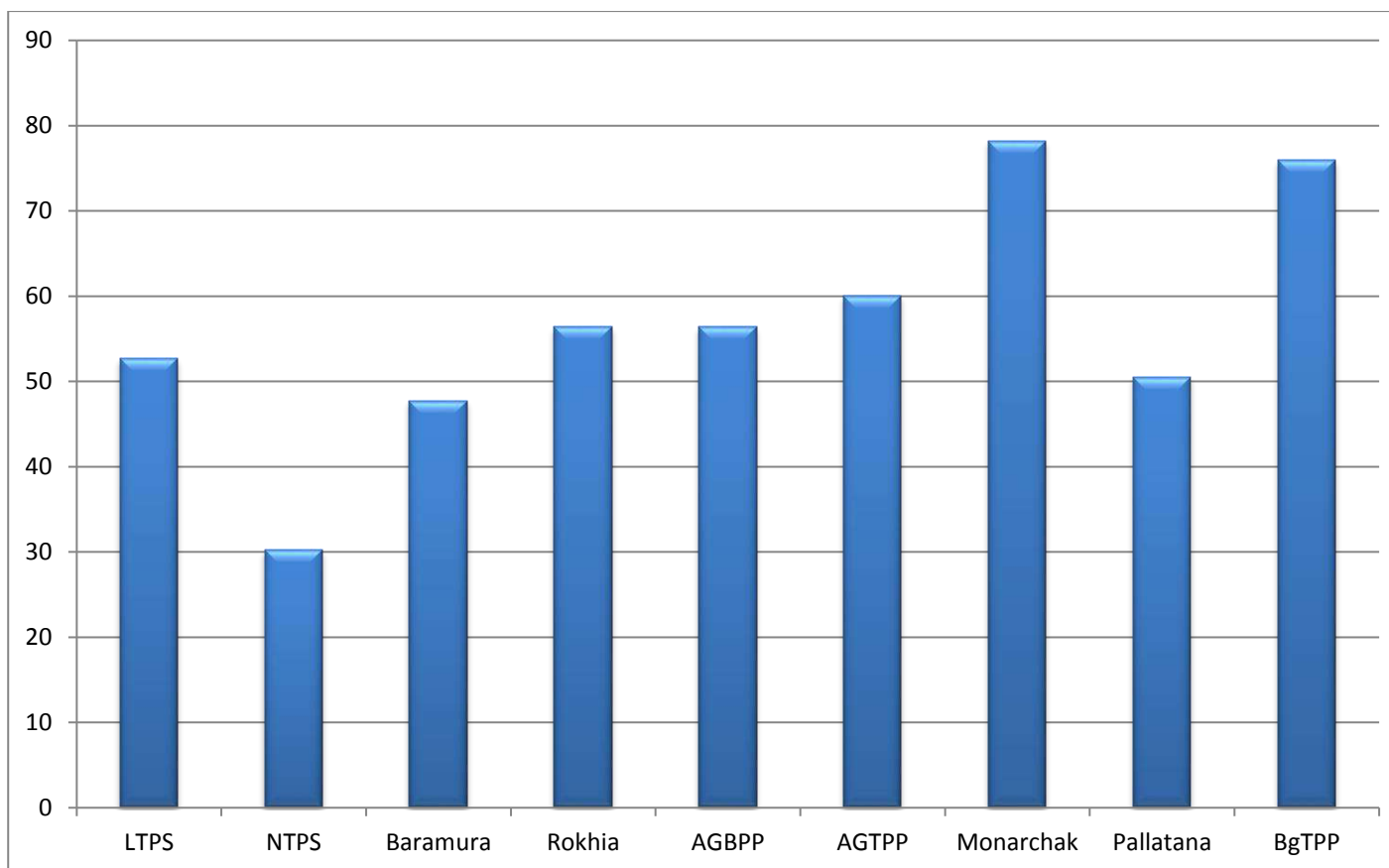
B-5

Reservoir Profile for September 2017



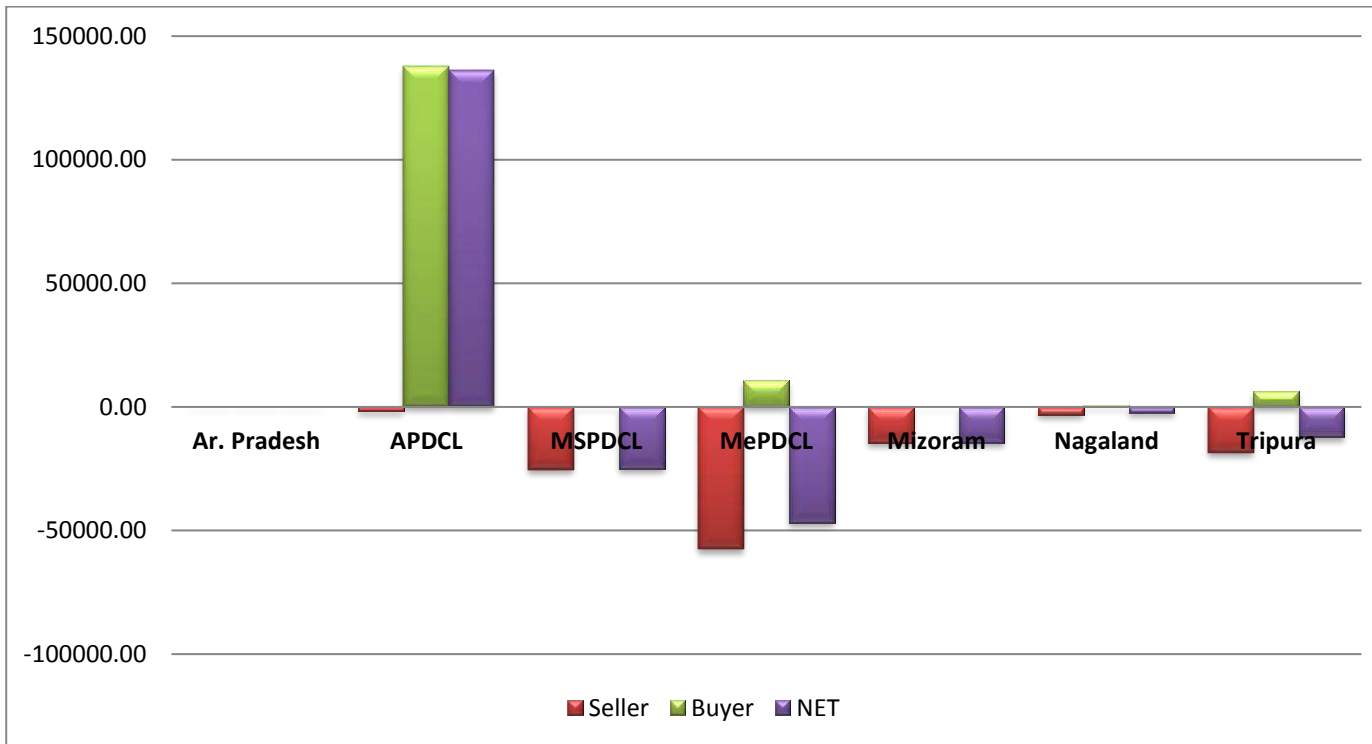
**B-6**

Station-wise Plant Load Factor for September 2017



B-7

Collective Transaction through IEX Power Exchange September 2017



B-8

Consolidated SEB in NE Region for the month of September 2017

