



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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सेवा में,
To

संलग्नक सूचि के अनुसार
As per enclosed list.

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

महोदय,
Sir,

उत्तर पूर्वी क्षेत्रीय विद्युत समिति की अगस्त 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 August 2017 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

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	18
	(ii) Schedule and CS Share Allocation	18
	(iii) Details of Fixed and Energy Charges of CS Stations	19
10	Regional Transmission Account	21
11	Grid Disturbance Report	22
<u>ANNEXURES</u>		
A-1	Major Reservoir Levels	24
A-2	Frequency Analysis and it's Profile	25
A-3	Scheduled Bilateral Exchanges	26
<u>EXHIBITS</u>		
B-1	Frequency Duration	27
B-2	FVI Characteristics	28
B-3	Voltage Variation Range	29
B-4	Energy Profile	30
B-5	Reservoir Profile	31
B-6	Station wise PLF	32
B-7	Collective Transaction through IEX	33
B-8	Consolidated SEB in NER	34

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

- The maximum unrestricted demand during the month of August 2017 was 2529MW, which was 2507MW in the month of July 2017. The peak demand met in NER during the period under review was 2442 MW, which was 2429 MW in the previous month.
- The energy requirement during the month of August 2017 was 1573.64MU, which was 1516.64 MU in the month of July 2017. The energy availability in NER during the period under review was 1525.75MU, which was 1471.02 MU in the previous month.
- The maximum, minimum & average system frequency were 50.20 (20-August-17), 49.65 (20-August-17) & 49.99Hz respectively. The maximum, minimum & average FVI were 0.076, 0.023 & 0.038 respectively. The average FVI was more than its previous month's figure of 0.037. (Refer Annex-II).
- Maximum export of power from NER to ER was 383 MW (on 13.08.17 at 01:00Hrs.) and that from ER to NER was 1463 MW (on 30.08.17 at 19:00 Hrs). The same Inter-Regional Exchanges of NER with NR and vice versa were 1157 MW (on 17.08.17 at 23:30Hrs.) and 241 MW (on 12.08.17 at 22:15Hrs.) respectively. Total net energy import during the month was 121.72MU (532.72 MU from ER and -411MU from NR).

Salient Features of North Eastern Regional Grid for August 2017

1	New Unit/Transmission Line/Transformer commissioned during this month		
2	Number of major grid disturbance during this month		
3	Installed Capacity of the Region (in MW) *	Aug-17	Aug-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	628.7	857.58
	Hydel	804.96	611.19
	Solar	0.50	0.60
	Total	1434.16	1469.37
5	Demand in MW:		
	Registered Peak Demand	2529	2435
	Peak Demand Met	2442	2387
	Shortage (%age)	3.6	2.0
6	Regional Energy (Gross) in MU:		
	Energy Requirement	1573.64	1526
	Energy Availability	1525.75	1440
	Surplus (+)/Deficit(-) (%age)	-3.1	-6.0
7	Inter Regional Energy Exchange in MU:		
	NER -----> ER	4.28	5.61
	ER -----> NER	537.0	477.9
	NER -----> NR	411.0	455.0
	NR -----> NER	0	0
	Net Import	121.72	17.29
8	Frequency Profile:		
	Average Frequency (Hz)	49.99	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 August 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	72.14				76.91					149.05		
Meghalaya	195.05									195.05		
Mizoram	0									0		
Tripura	3.74				52.19					55.93		
Nagaland	13.23									13.23		
Total (S. Sector)	284.16				129.1			0		413.26		
Central Sector :												
NEEPCO:												
Khd+Kop+Kop-II	179.1									179.1		
Kathalguri (AGBPP)					121.1					121.1		
RC Nagar					57.9					57.9		
Doyang	53.4									53.4		
Ranganadi	210.9									210.9		
Monarchak					59.5		0.5			60.0		
NHPC:												
Loktak	77.4									77.4		
OTPC:												
Pallatana Gas PP					208.6					208.6		
NTPC:												
BgTPP			52.5							52.5		
Total (C. Sector)	520.8		52.5		447.1		0.5			1020.9		
Total NER	804.96		52.5		576.2		0.5			1434.16		

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	70.02	68.74	1.28	1.9	132	130	2.00	1.5
Assam	929.95	890.22	39.73	4.5	1735.31	1684	51.31	3.0
Manipur	70.32	68.79	1.53	2.2	164.34	163	1.34	0.8
Meghalaya	117.35	117.31	0.04	0.0	297	297	0.00	0.0
Mizoram	37.62	36.58	1.04	2.8	84.20	81.20	3.00	3.7
Nagaland	73.03	71.63	1.40	2.0	138.25	137	1.25	0.9
Tripura	275.35	272.48	2.87	1.1	311.73	307	4.73	1.5
REGION	1573.64	1525.75	47.89	3.1	2529	2442	87.00	3.6

3. Estimation Of Peak Demand (In MW)

Constituents	Peak Demand Met	Date	Freq (Hz)	Estimated Peak Demand at 50 Hz
Arunachal Pradesh	130	03.08.17	50.00	132
Assam	1684	29.08.17	49.83	1735
Manipur	163	31.08.17	49.93	164
Meghalaya	297	20.08.17	50.03	297
Mizoram	81	20.08.17	50.00	84
Nagaland	137	07.08.17	49.94	138
Tripura*	271	29.08.17	49.91	276
REGION	2442	27.08.17	50.01	2529

4. Estimation of Energy Requirement (In MU)

Constituents	Generation	Energy Drawal from Grid		Energy Availability	Actual Requirement
		Schedule	Drawal		
Arunachal Pradesh	0	75.35	68.74	68.74	70.02
Assam	149.05	693.52	742.66	890.22	929.95
Manipur	0	66.64	68.79	68.79	70.32
Meghalaya	195.05	-38.50	-51.03	117.31	117.35
Mizoram	0	37.13	36.58	36.58	37.62
Nagaland	13.23	58.37	58.53	71.63	73.03
Tripura	55.93	95.69	102.23	272.48	275.35
REGION	413.26	988.2	1026.5	1525.75	1573.64

*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)	
				Aug-17	Aug-16
(i) STATE SECTOR : HYDRO					
ASSAM : HYDRO					
1	LANGPI U-1	50	51	36.57	20.22
2	LANGPI U-2	50	52	35.56	30.90
TOTAL		100	103	72.14	51.12
MEGHALAYA : HYDRO					
3	UMIAM STAGE - 1 U-1	9	9	5.46	5.10
4	UMIAM STAGE - 1 U-2	9	9	5.46	4.95
5	UMIAM STAGE - 1 U-3	9	9	5.51	5.09
6	UMIAM STAGE - 1 U-4	9	9	5.50	4.99
7	UMIAM STAGE - 2 U-1	10	10	5.70	4.61
8	UMIAM STAGE - 2 U-2	10	10	5.06	5.12
9	UMIAM STAGE - 3 U-1	30	30	15.29	1.29
10	UMIAM STAGE - 3 U-2	30	0	0	0
11	UMIAM STAGE - 4 U-1	30	30	19.27	10.76
12	UMIAM STAGE - 4 U-2	30	30	19.40	17.73
13	UMTRU U-1	3	26	10.33	0
14	UMTRU U-2	3	30	14.67	0
15	UMTRU U-3	3	0	0	0
16	UMTRU U-4	3	0	0	0
17	MYNTDU-LESHKA U-1	42	42	28.37	20.76
18	MYNTDU-LESHKA U-2	42	42	28.23	13.61
19	MYNTDU-LESHKA U-3	42	42	26.07	19.11
20	SONAPANI	2	2	0.71	0.81
TOTAL		316	277	195.05	113.95
NAGALAND : HYDRO					
21	LIKIMRO - 1	8	8	4.14	4.93
22	LIKIMRO - 2	8	8	4.18	4.82
23	LIKIMRO - 3	8	8	4.91	4.93
TOTAL		24	24	13.23	14.67
MIZORAM : HYDRO					
24	SERLUI B U-1	4	4	0	2.13
25	SERLUI B U-2	4	4	0	0.92
26	SERLUI B U-3	4	0	0	0
TOTAL		12	8	0	3.05
TRIPURA : HYDRO					
27	GUMTI - 1	5	0	0	0
28	GUMTI - 2	5	5	2.49	0

Monthly Progress Report of August 2017

29	GUMTI - 3	5	5	1.26	0
TOTAL		15	10	3.74	0
TOTAL STATE (HYDRO) :		467	421	284.16	182.79
Sr. No.	Power Stations/Units	Installed Capacity (MW)	Peak Generation (MW)	Energy Generation (MU)	
				Aug-17	Aug-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	21	9.20	8.69
9	BARAMURA - 5	21	22	6.09	6.59
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	11.91	2.81
17	ROKHIA - 8	21	22	12.18	13.31
18	ROKHIA - 9	21	23	12.81	12.59
TOTAL		169.5	111	52.19	43.99
MEGHALAYA PRIVATE : THERMAL(COAL)					
19	Maithon Alloy Ltd.	15	0	0	0
19	Shyam Century	14	0	0	0
20	Adhunik Cement	25	0	0	0
TOTAL		54	0	0	0
ASSAM : THERMAL					
21	LTPS - 1	15	0	0	0
22	LTPS - 2	15	17	8.14	8.96
23	LTPS - 3	15	14	5.44	6.30
24	LTPS - 4	15	0	0	7.69
25	LTPS - 5	20	22	13.92	13.41
26	LTPS - 6	20	22	13.79	13.10
27	LTPS - 7	20	21	12.88	13.03
28	LTPS - 8	37	0	0	20.33
29	NTPS - 1	20	0	0	5.35
30	NTPS - 2	21	18	2.68	3.01
31	NTPS - 3	21	20	10.63	7.94
32	NTPS - 4	11	7	1.46	0.71
33	NTPS - 5	24	10	6.70	2.86

Monthly Progress Report of August 2017

34	NTPS - 6	22	6	1.27	3.00
35	DLF	25	0	0	0
TOTAL		301	157	76.91	105.69
TOTAL STATE (THERMAL/GAS) :		561.5	268	129.1	149.68
TOTAL STATE GEN (HY+TH/GAS)		1028.5	689	413.26	332.47

S. No.	Power Stations/Units	Installed Capacity (MW)	Peak Generation (MW)	Energy Generation (MU)	
				Aug-17	Aug-16
(ii) CENTRAL SECTOR : HYDRO					
1	KHANDONG - 1	25	27	16.4	11.8
2	KHANDONG - 2	25	27	16.2	10.4
3	KOPILI Stg - II	25	20	14.4	15.3
4	KOPILI - 1	50	54	33.0	33.1
5	KOPILI - 2	50	54	32.5	34.0
6	KOPILI - 3	50	54	30.8	35.5
7	KOPILI - 4	50	54	35.8	37.2
8	DOYANG - 1	25	25	18.5	18.3
9	DOYANG - 2	25	24	16.4	17.3
10	DOYANG - 3	25	26	18.6	17.6
11	LOKTAK - 1	35	37	25.5	25.8
12	LOKTAK - 2	35	38	25.8	26.0
13	LOKTAK - 3	35	37	26.1	22.0
14	RANGANADI - 1	135	147	71.4	43.5
15	RANGANADI - 2	135	147	68.7	40.8
16	RANGANADI - 3	135	147	70.8	39.7
TOTAL CS HYDRO :		860	918	520.8	428.4
(ii) CENTRAL SECTOR : THERMAL/GAS					
1	KATHALGURI - 1	34	23	5.7	18.9
2	KATHALGURI - 2	34	30	8.4	22.2
3	KATHALGURI - 3	34	33	21.2	20.2
4	KATHALGURI - 4	34	32	22.2	22.0
5	KATHALGURI - 5	34	30	14.1	4.2
6	KATHALGURI - 6	34	30	14.7	0.0
7	KATHALGURI - 7	30	23	5.4	16.4
8	KATHALGURI - 8	30	25	17.2	17.3
9	KATHALGURI - 9	30	25	12.2	1.5
10	R.C. NAGAR - 1	21	21	11.9	10.3
11	R.C. NAGAR - 2	21	21	12.9	13.4
12	R.C. NAGAR - 3	21	21	2.6	13.9
13	R.C. NAGAR - 4	21	20	10.3	13.6
14	R.C. NAGAR - 5	23	24	13.6	15.5
15	R.C. NAGAR - 6	23	22	6.6	0
16	MONARCHAK SOLAR PV	5	5	0.5	0.6
17	MONARCHAK - GTG 1	65.5	64	41.6	0
18	MONARCHAK - STG 1	35.5	35	17.9	0

Monthly Progress Report of August 2017

19	PALLATANA - GTG 1	232	170	60.2	120.8
20	PALLATANA - STG 1	131	105	41.2	75.8
21	PALLATANA - GTG 2	232	221	64.0	118.2
22	PALLATANA - STG 2	131	123	43.2	76.0
23	BgTPP - 1	250	246	52.5	128.3
24	BgTPP - 2				
25	BgTPP - 3				
TOTAL CS (THERMAL/GAS) :		1505	1309	500.1	708.5
TOTAL CS GEN (HY+TH/GAS)		2365	2227	1020.9	1136.9
TOTAL NER GEN (HY+TH/GAS)		3393.5	2916	1434.16	1469.37

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	54.17	51.50
2	NTPS*	AEGCL	119.00	22.74	25.50
3	Baramura	Tripura	42.00	15.29	48.92
4	Rokhia	Tripura	95.00	36.90	83.94
5	AGBPP	NEEPCO	291.00	121.1	51.92
6	AGTPP	NEEPCO	84.00	57.9	56.88
7	AGTPP-2	NEEPCO	46.00		
8	Monarchak	NEEPCO	102.00	59.5	79.19
9	Pallatana	OTPC	727.00	208.6	37.99
10	BgTPP	NTPC	250.00	52.5	27.22

*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	393
2	BALIPARA 400 kV	427	390
3	BONGAIGAON 400 kV	411	387
4	RANGANADI 400 kV	429	389
5	PALLATANA 400 kV	427	395
6	SILCHAR 400 kV	429	395
7	BISHWANATH CHARIALI 400 kV	423	388
8	AZARA 400 kV	411	399
9	BgTPP 400 kV	421	396
10	MISA 220 kV	227	224
11	SALAKATI 220 kV	244	214
12	AGBPP 220 kV	235	224
13	MOKOKCHUNG 220 kV	238	221
14	AIZAWL 132 kV	136	115
15	IMPHAL 132 kV	137	128
16	Byrnihat 400kV	412	399
17	Kahilipara 132kV	141	126
18	Nirjuli 132kV	145	123

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	99.60	0.40
BALIPARA	0	0	99.60	0.40
BONGAIGAON	0	0	100.00	0
PALATANA	0	0	80.33	19.67
SILCHAR	0	0.1	98.03	1.96
Azara	0	0	100.00	0
BiswanathCharali	0	0	99.10	0.90
BgTPP	0	0	99.90	0.10
Byrnihat	0	0	99.80	0.20

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

1. Inter-Regional Energy Exchange

All Fig. in MU

NER to ER	4.28
ER to NER	537
NET IMPORT FROM ER	532.72
NER to NR	411
NR to NER	0
NET IMPORT FROM NR	-411
NET IMPORT	121.72

2. Major Grid Disturbances:

None.

3. Meetings Held by NERPC:

Sr. No.	Meeting	Date	Venue
1.	7 th NETeST Meeting	17.08.2017	Guwahati
2.	135 th OCC Meeting	18.08.2017	Guwahati
3.	30 th Metering Meeting	18.08.2017	Guwahati
4.	33 rd CCM Meeting	25.08.2017	Guwahati

Status of Progress

1. Generating Projects in NER

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	Mar-18	Work in Progress
3	Pare (Ar. P/NEEPCO)	2	2x55	Mar-17	Work in Progress
4	Tuirial (Ar. P/NEEPCO)	2	2x30	Nov-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
12	132 kV Surjyamani Nagar-	6		Aug-16	Fund proposed in World Bank.

Monthly Progress Report of August 2017

	BadarghatD/C				
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.
25	132 kV DC Sonapur-	51.75	Nov-13	June-17	Compensation/ROW Issue.

Monthly Progress Report of August 2017

	JagiroadTr. Line.				
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 August 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	74.61	4.08	78.68	75.35	75.35	68.74	-6.62	1.16
ASEB	425.30	104.19	529.49	500.47	693.52	742.66	49.14	-12.38
Manipur	96.92	0.00	96.92	89.67	66.64	68.79	2.15	-0.67
MeSEB	110.05	0.00	110.05	86.57	-38.50	-51.03	-12.53	1.82
Mizoram	45.91	2.99	48.90	46.41	37.13	36.58	-0.55	0.01
Nagaland	56.88	9.00	65.88	60.03	58.37	58.53	0.16	-0.36
Tripura	115.50	0.00	115.50	110.60	95.69	102.23	6.54	-2.23
PGCIL-HVDC	0.66	0.00	0.66	0.43	0.43	0.78	0.35	-0.08

(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 August 2017

ISGS	Schedule (MU)	Injection (MU)
LOKTAK HEP	53.64	57.27
KHANDONG HEP	129.11	76.59
KOPILI - I HEP	75.02	
KOPILI - II HEP	31.52	
DHEP	14.03	0

Monthly Progress Report of August 2017

RHEP	51.15	52.91
AGTCCPP	54.58	58.73
AGBPP	207.81	208.83
OTPC, PALLATANA	198.20	202.30
BgTPP	46.07	48.55

Source: Final PSP for the month of August 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

Monthly Progress Report of August 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 August 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	34763004.25
ASEB	Assam	324358369.85	30345236.59	9461476.60	364165083.04
Manipur	Manipur	34780215.63	5306132.35	1654422.66	41740770.64
MeECL	Meghalaya	54554638.08	6877113.75	2144245.96	63575997.78
Mizoram	Mizoram	38782510.13	2884509.72	899374.14	42566394.00
Nagaland	Nagaland	28819475.72	3632959.90	1132736.76	33585172.39
Tripura	Tripura	32232814.71	8485527.95	2645740.59	43364083.25
HVDC BNC	Assam	663474.18	62071.10	19353.43	744898.70

Grid Disturbance Report

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

1. At 05:17 Hrs on 09.08.2017, 132 kV Palatana - Surajmaninagar I line, 132 kV Palatana - Udaipur I line, 132 kV Kumarghat – P K Bari I line and 132 kV AGTCCPP - Kumarghat I line tripped. It was restored at 06:47 hrs. Outage duration: 1:30 hrs. Load Loss: 278MW, Generation Loss =245 MW. Category- GD-II. Due to tripping of these elements, Bangladesh (South Comilla) power system, AGTCCPP and Tripura Power System were separated from rest of NER Grid and subsequently collapsed due to no source in this area.
2. At 13:54 Hrs on 19.08.2017, 132 kV Ranganadi-Lekhi line tripped. It was restored at 14:00 hrs. Outage duration: 0:06hrs. Load Loss: 80MW, Generation Loss =0MW. Category- GD-I. Due to tripping of this element, Lekhi area & Capital area & Gohpur area were separated from rest of NER Grid and subsequently collapsed due to no source in this area.
3. At 23:45 Hrs on 21.08.2017, 132 kV Palatana - Udaipur I line and 132 KV Agartala - Rokhia 1&2 Lines tripped. It was restored at 01:25 hrs. Outage duration: 1:50 hrs. Load Loss: 60MW, Generation Loss: 132 MW. Category- GD-I. Due to tripping of these elements, Monarchak Power Station, Rokhia 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.
4. At 13:28 Hrs on 31.08.2017, 132 kV Khliehriat (PG)-Khliehriat (MePTCL) I & II lines, 132 kV NEHU – NEIGRIHMS line, 132 kV NEHU - Mustem line and 132 kV Khliehriat (MePTCL) - Lumshnong Line tripped. It was restored at 13:35 hrs. Outage duration: 0:07 hrs. Load Loss: 28 MW, Generation Loss: 105 MW. Category- GD-I. Due to tripping of these elements, MLHEP, Khliehriat and Lumshnong area 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.)	Aug 2017	Aug 2016
			Level in mtr/ft	Level in mtr/ft
KHANDONG	719.3	704	719.2	708.4
KOPILI	609.5	592.83	609.6	598.7
LOKTAK	768.5	766.2	769.1	767.2
BARAPANI	3220 ft	3150 ft	3219.1	3187.5
GUMTI	93.55	83.6	93.3	89.6
DOYANG	333	306	322.5	305.9

A-2

Frequency Analysis For The Month of August 2017

Frequency	Freq. (in Hz.)	Date (D.M.Y)
1. Maximum Frequency	50.20	20.08.2017
2. Minimum Frequency	49.65	08.08.2017
3. Monthly Average	49.99	

Frequency in Hz as %age of Time for the Blocks

$f < 49.90$	$49.90 < f < 50.05$	$f > 50.05$
7.12	76.99	15.88

Daily Frequency Variation Index (FVI):

Date	FVI	Date	FVI
01-08-2017	0.043	17-08-2017	0.054
02-08-2017	0.035	18-08-2017	0.044
03-08-2017	0.031	19-08-2017	0.031
04-08-2017	0.044	20-08-2017	0.036
05-08-2017	0.060	21-08-2017	0.039
06-08-2017	0.054	22-08-2017	0.038
07-08-2017	0.036	23-08-2017	0.032
08-08-2017	0.076	24-08-2017	0.026
09-08-2017	0.059	25-08-2017	0.029
10-08-2017	0.031	26-08-2017	0.030
11-08-2017	0.025	27-08-2017	0.023
12-08-2017	0.027	28-08-2017	0.027
13-08-2017	0.027	29-08-2017	0.031
14-08-2017	0.062	30-08-2017	0.028
15-08-2017	0.034	31-08-2017	0.025
16-08-2017	0.030		

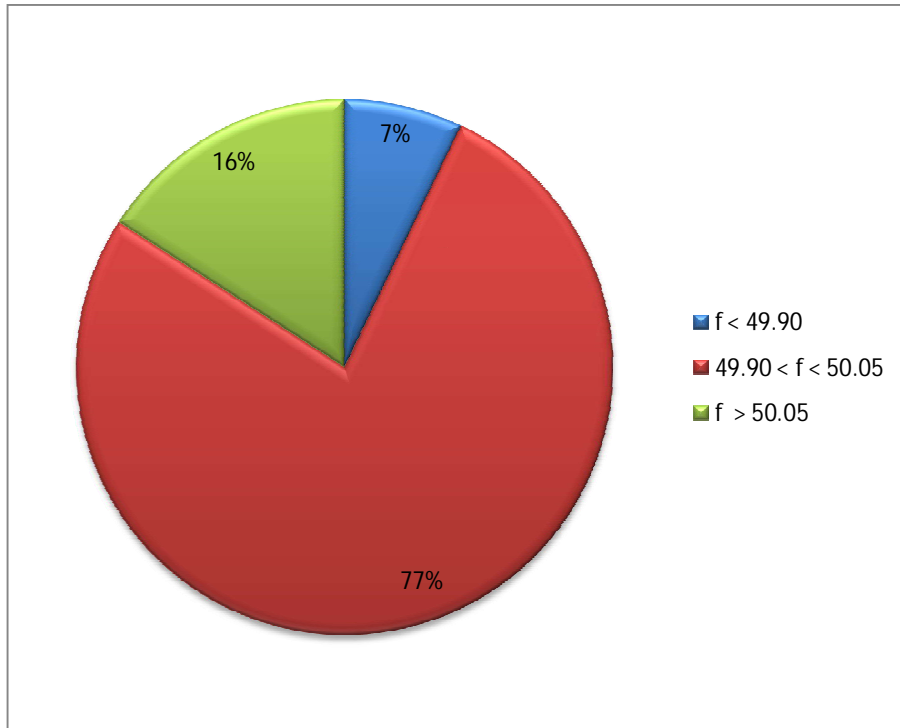
A-3

Consolidated Scheduled Bilateral Exchanges in NE Region during August 2017

Name of Trader	Energy at NER periphery (in MWH)
APPCPL	61206.23
IEXL	5250
MPPL	41294.01
NPC	1260
PTC	15844.88
OTPC	27798.5
TPTL	22831.5

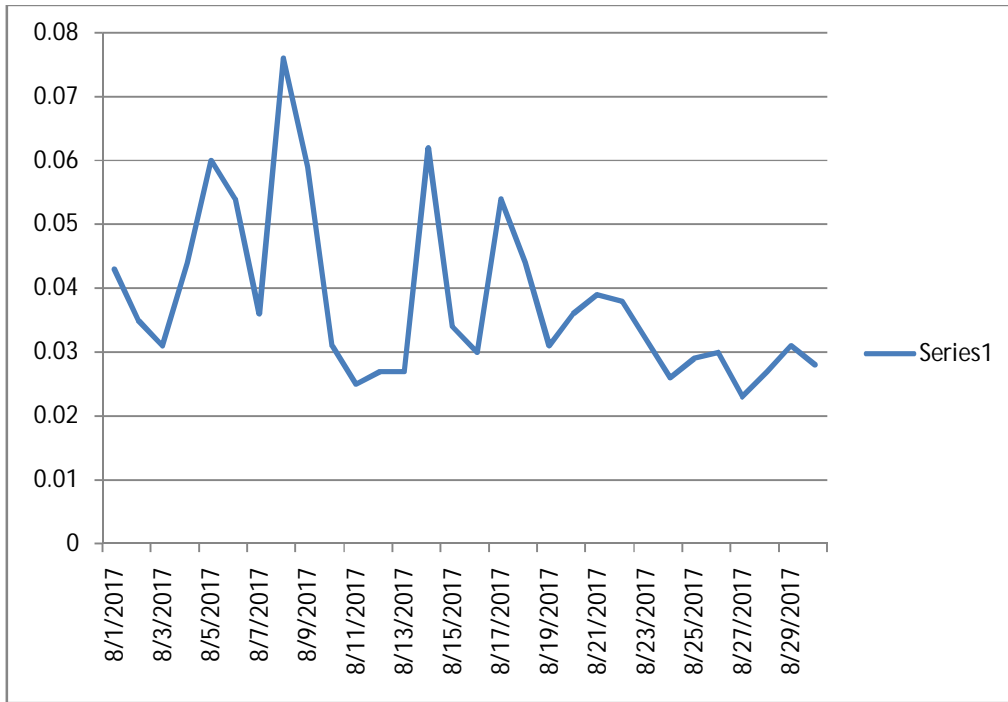
B-1

Frequency Duration for August 2017



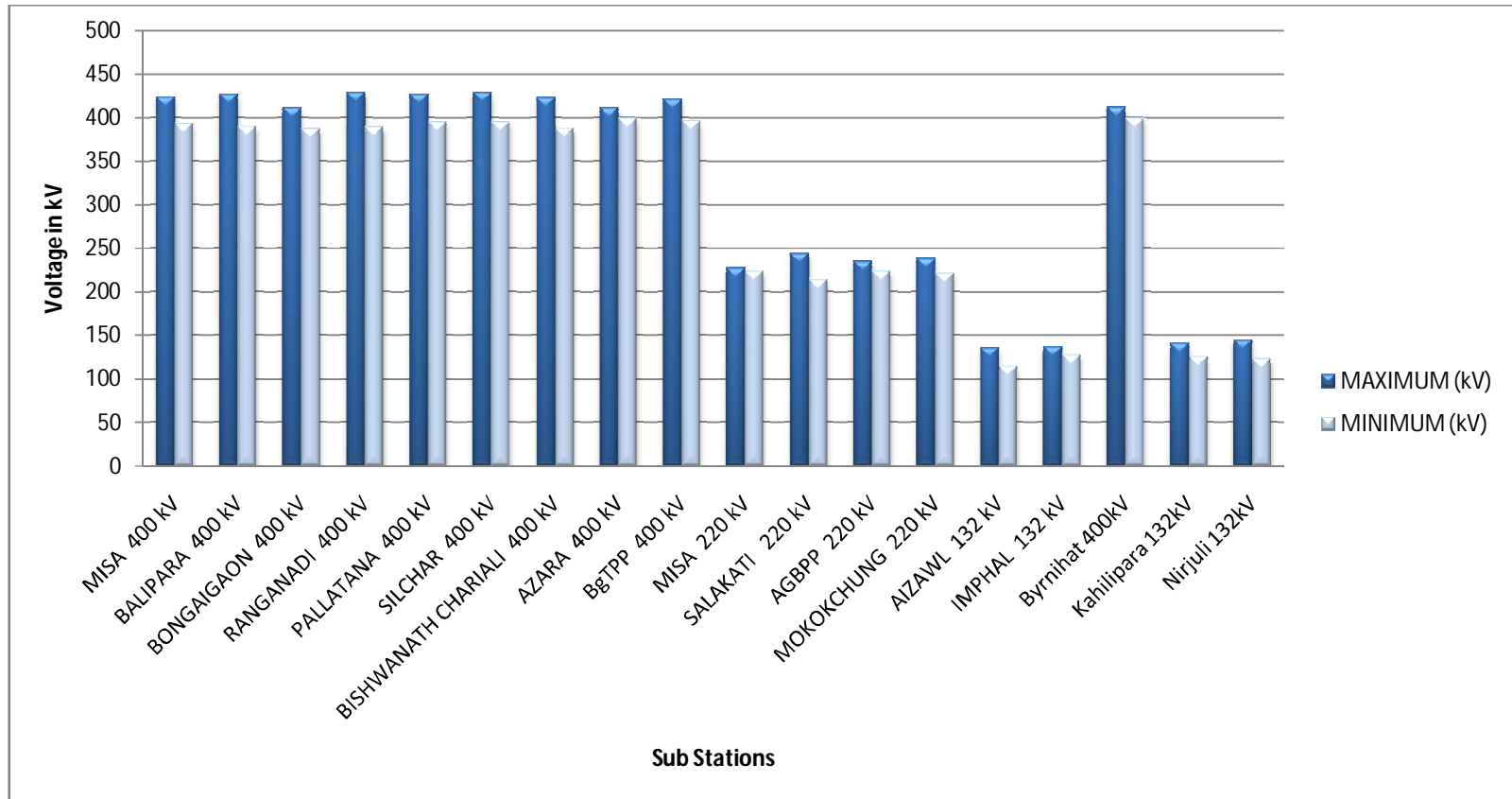
B- 2

FVI Characteristic for August 2017



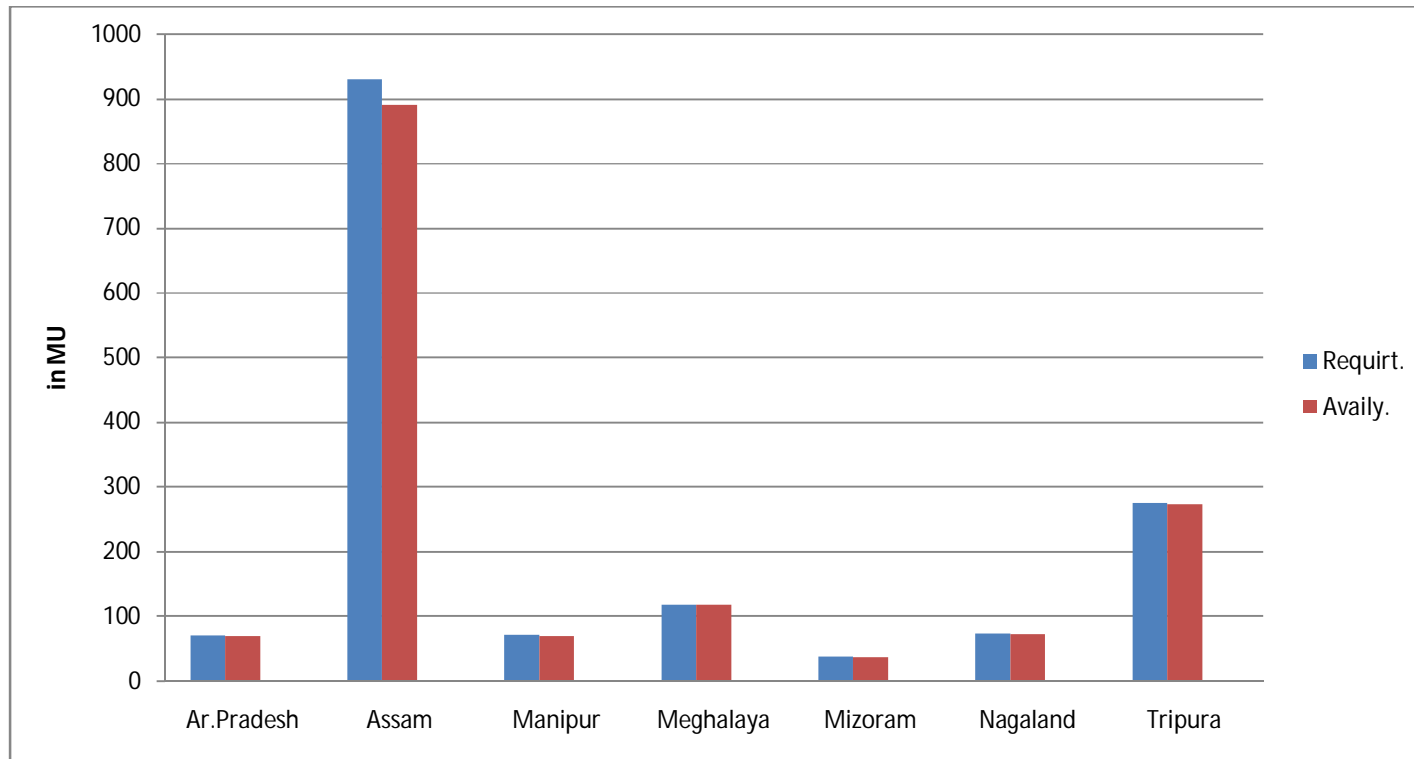
B-3

Voltage Variation Range for August 2017



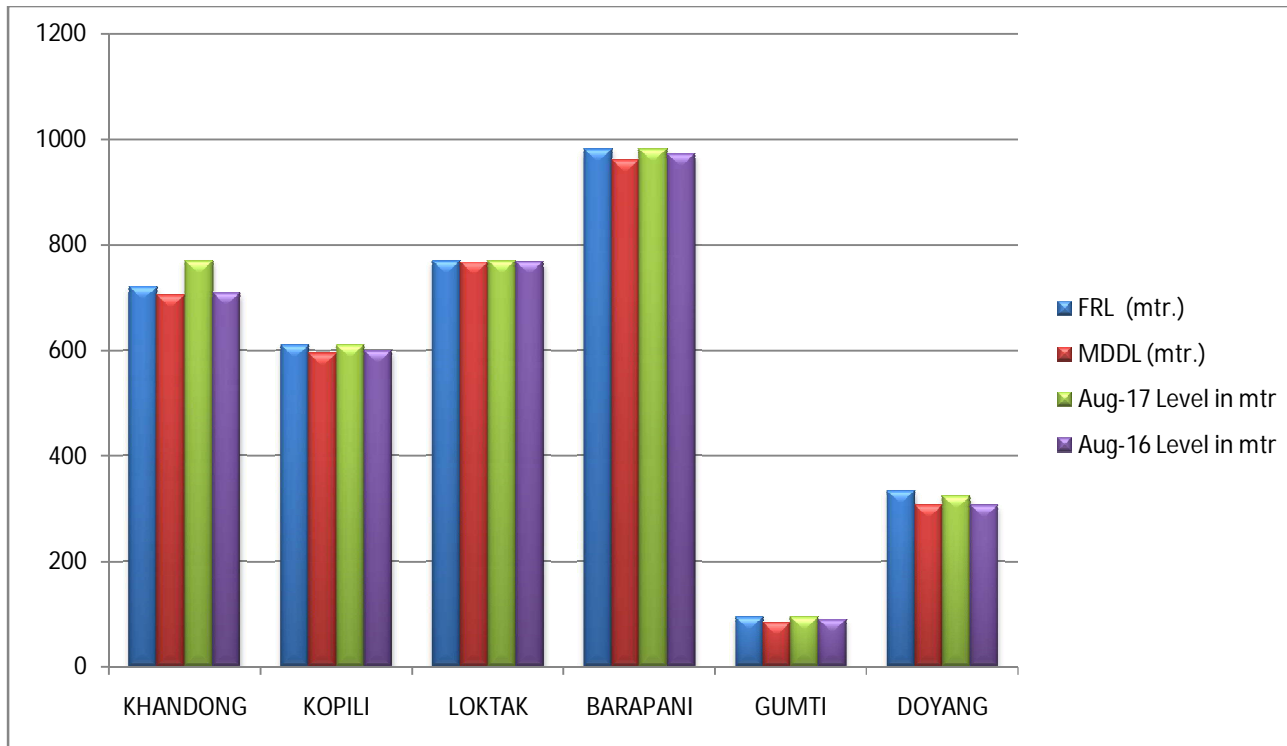
B-4

Energy Profile for August 2017



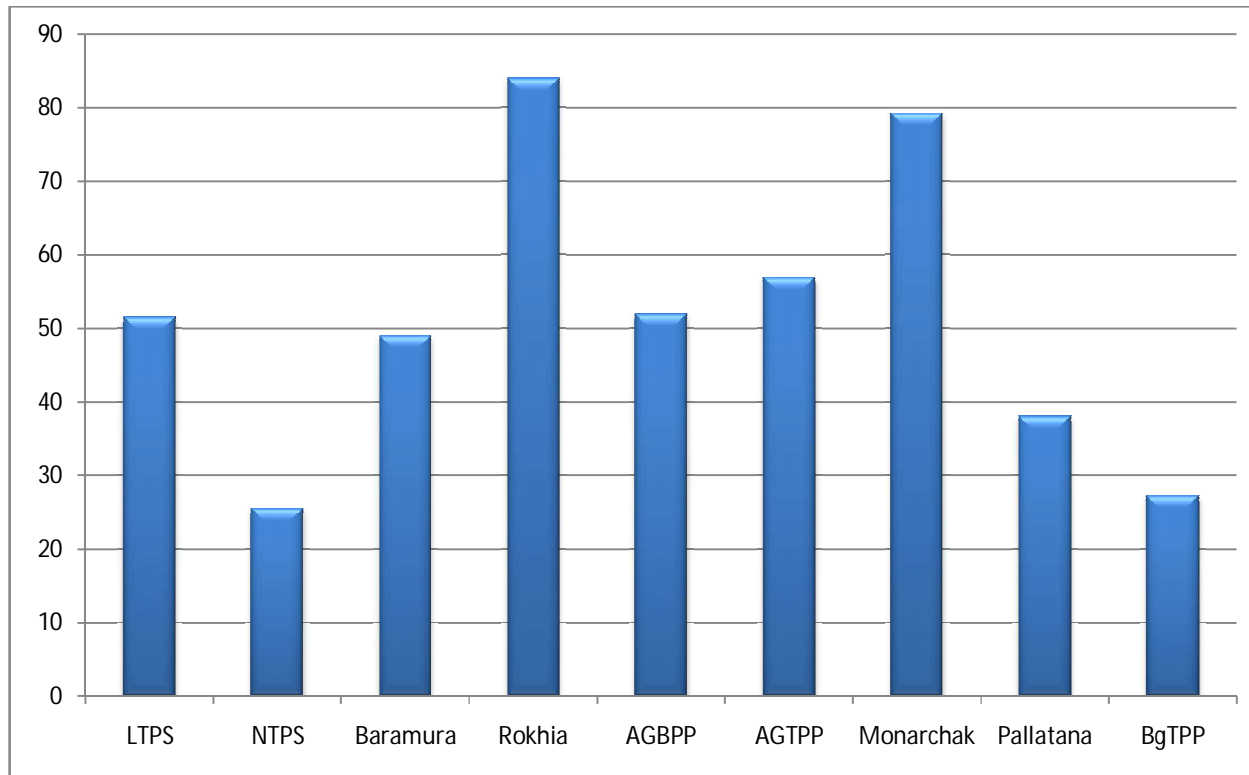
B-5

Reservoir Profile for August 2017



B-6

Station-wise Plant Load Factor for August 2017



B-7

Collective Transaction through IEX Power Exchange August 2017



B-8

Consolidated SEB in NE Region for the month of August 2017

