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, लापालाड, शिल्लोंग-७९३००६, मेघालय
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सं/No. NERPC/MPR/2017/ दिनांक/Date: 20.11.2017

सेवा में,
To

संलग्नक सुचि के अनुसार
As per enclosed list.

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

महोदय**,**
Sir,

उत्तर पूर्वी क्षेत्रिय विद्युत समिति की **जुलाई 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 July 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

Progress Report for the month of July 2017

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

CONTENTS

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

- The maximum unrestricted demand during the month of July 2017 was 2507MW, which was 2499MW in the month of June 2017. The peak demand met in NER during the period under review was 2429MW, which was 2387 MW in the previous month.

- The energy requirement during the month of July 2017 was 1516.64MU, which was 1437.68 MU in the month of June 2017. The energy availability in NER during the period under review was 1471.02MU, which was 1396.15 MU in the previous month.

- The maximum, minimum & average system frequency were 50.23 (14-July-17), 49.69 (23-July-17) &50.00Hz respectively. The maximum, minimum & average FVI were 0.074, 0.023& 0.037 respectively. The average FVI was more than its previous month's figure of 0.036. (Refer Annex-II).

- Maximum export of power from NER to ER was 0 MW and that from ER to NER was 1828 MW (on 18.07.17 at 14:00 Hrs). The same Inter-Regional Exchanges of NER with NR and vice versa were 1508.65 MW (on 04.07.17 at 15:00Hrs.) and 0 MW respectively. Total net energy import during the month was -69.43 MU (522.57 MU from ER and -592 MU from NR).

Salient Features of North Eastern Regional Grid for July 2017

1	New Unit/Transmission Line/Transformer commissioned during this month		
2	Number of major grid disturbance during this month		
		July-17	July-16
3	Installed Capacity of the Region (in MW) *		
	(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	766.51	874.4
	Hydel	760.09	742.9
	Solar	0.40	0.40
	Total	1527.00	1617.7
5	Demand in MW:	2507	2474
	Registered Peak Demand	2429	2391
	Peak Demand Met	3.2	3.5
	Shortage (%age)		
6	Regional Energy (Gross) in MU:		
	Energy Requirement	1516.64	1335
	Energy Availability	1471.02	1333
	Surplus (+)/Deficit(-) (%age)	-3.1	-015
7	Inter Regional Energy Exchange in MU:		
	NER -----> ER	0.03	108
	ER ------> NER	522.6	145
	NER ------> NR	592.0	327.0
	NR --------> NER	0	0
	Net Import	-69.43	-290.0
8	Frequency Profile:		
	Average Frequency (Hz)	50.00	50.00
	Average Frequency Variation Index	0.037	-

*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 July 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	54.27				78.66				132.93	
Meghalaya	146.98								146.98	
Mizoram	0								0	
Tripura	3.95				54.35				58.30	
Nagaland	6.89								6.89	
Total (S. Sector)	212.09				133.01		0		345.1	
Central Sector :										
NEEPCO:										
Khd+Kop+Kop-II	180.2								180.2	
Kathalguri (AGBPP)					143.0				143.0	
RC Nagar					59.3				59.3	
Doyang	49.9								49.9	
Ranganadi	239.8								239.8	
Monarchak					62.6		0.4		63.0	
NHPC:										
Loktak	78.1								78.1	
OTPC:										
Pallatana Gas PP					368.6				368.6	
NTPC:										
BgTPP			0						0	
Total (C. Sector)	548.0		0		633.5		0.4		1181.9	
Total NER	760.09		0		766.51		0.4		1527	

2. Requirement Vs Availability In The Region

STATES	ENERGY requirement (MU) at 50 Hz				POWER requirement (MW) at 50 Hz			
	Availability & L/S at prevailing frequency				*Availability & L/S at prevailing frequency*			
	Requirement	Availability	Shortfall	% Shortfall	Requirement	Availability	Shortfall	% Shortfall
Ar. Pradesh	60.25	59.13	1.12	1.9	132.31	131.0	1.31	1.0
Assam	901.60	862.41	39.19	4.5	1674.53	1645.00	29.53	1.8
Manipur	63.35	61.93	1.42	2.3	161.22	157.89	3.33	2.1
Meghalaya	111.49	111.46	0.03	0.0	305.17	303.48	1.69	0.6
Mizoram	37.35	36.34	1.01	2.8	84.20	82.20	2	2.4
Nagaland	73.32	72.17	1.15	1.6	139.54	135.50	4.04	3.0
Tripura	269.28	267.58	1.7	0.6	307.34	302.40	4.94	1.6
REGION	1516.64	1471.02	45.62	3.1	2507	2429	78	3.2

3. Estimation Of Peak Demand (In MW)

Constituents	Peak Demand Met	Date	Freq (Hz)	Estimated Peak Demand at 50 Hz
Arunachal Pradesh	131	26.07.17	49.92	132
Assam	1645	28.07.17	49.93	1675
Manipur	158	31.07.17	49.93	161
Meghalaya	303	04.07.17	49.83	305
Mizoram	82	18.07.17	50.00	84
Nagaland	136	28.07.17	49.99	140
Tripura*	266	18.07.17	49.87	271
REGION	2429	31.07.17	49.83	2507

4. Estimation of Energy Requirement (In MU)

Constituents	Generation	Energy Drawal from Grid		Energy Availability	Actual Requirement
		Schedule	Drawal		
Arunachal Pradesh	0	81.84	59.13	59.13	60.25
Assam	132.93	681.78	730.71	862.41	901.60
Manipur	0	62.04	61.93	61.93	63.35
Meghalaya	146.98	-23.29	-34.05	111.46	111.49
Mizoram	0	33.20	36.34	36.34	37.35
Nagaland	6.89	62.75	65.35	72.17	73.32
Tripura	58.30	88.82	89.25	267.58	269.28
REGION	345.1	987.14	1008.66	1471.02	1516.64

*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)	
				July-17	July-16
(i) STATE SECTOR : HYDRO					
ASSAM : HYDRO					
1	LANGPI U-1	50	52	22.94	31.8
2	LANGPI U-2	50	51	31.33	24.7
TOTAL		**100**	**103**	**54.27**	**56.5**
MEGHALAYA : HYDRO					
3	UMIAM STAGE - 1 U-1	9	9	3.40	4.0
4	UMIAM STAGE - 1 U-2	9	9	3.63	3.8
5	UMIAM STAGE - 1 U-3	9	9	3.62	3.9
6	UMIAM STAGE - 1 U-4	9	9	2.33	4.0
7	UMIAM STAGE - 2 U-1	10	10	3.82	4.8
8	UMIAM STAGE - 2 U-2	10	10	2.78	3.6
9	UMIAM STAGE - 3 U-1	30	30	15.33	0
10	UMIAM STAGE - 3 U-2	30	0	0	0
11	UMIAM STAGE - 4 U-1	30	30	10.31	11.6
12	UMIAM STAGE - 4 U-2	30	30	13.89	15.4
13	UMTRU U-1	3	3	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	29.50	28.7
18	MYNTDU-LESHKA U-2	42	42	28.69	29.9
19	MYNTDU-LESHKA U-3	42	42	28.92	30.0
20	SONAPANI	2	2	0.77	0.8
TOTAL		**316**	**277**	**146.98**	**140.5**
NAGALAND : HYDRO					
21	LIKIMRO - 1	8	8	2.55	4.1
22	LIKIMRO - 2	8	7	2.40	4.9
23	LIKIMRO - 3	8	8	1.94	4.8
TOTAL		**24**	**23**	**6.89**	**13.8**
MIZORAM : HYDRO					
24	SERLUI B U-1	4	4	0	2.5
25	SERLUI B U-2	4	4	0	1.2
26	SERLUI B U-3	4	0	0	0
TOTAL		**12**	**8**	**0**	**3.7**
TRIPURA : HYDRO					
27	GUMTI - 1	5	0	0	0
28	GUMTI - 2	5	5	2.72	0

29	GUMTI - 3	5	5	1.23	0
TOTAL		**15**	**10**	**3.95**	**0**
TOTAL STATE (HYDRO) :		**467**	**421**	**212.09**	**214.5**

Sr. No.	Power Stations/Units	Installed Capacity (MW)	Peak Generation (MW)	Energy Generation (MU)	
				July-17	July-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	5.70	7.1
9	BARAMURA - 5	21	22	8.69	7.7
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	14.57	14.4
17	ROKHIA - 8	21	21	12.84	11.5
18	ROKHIA - 9	21	22	12.56	14.3
TOTAL		**169.5**	**105**	**54.35**	**55.0**
MEGHALAYA PRIVATE : THERMAL(COAL)					
19	Maithon Alloy Ltd.	15	0	0	0
19	Shyam Century	14	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	14	8.85	7.1
23	LTPS - 3	15	15	4.51	5.3
24	LTPS - 4	15	14	4.05	8.5
25	LTPS - 5	20	22	11.26	14.5
26	LTPS - 6	20	20	12.08	13.0
27	LTPS - 7	20	21	10.31	13.1
28	LTPS - 8	37	0	0	18.8
29	NTPS - 1	20	0	0	8.8
30	NTPS - 2	21	17	7.85	1.4
31	NTPS - 3	21	20	9.30	7.1
32	NTPS - 4	11	7	2.16	1.3
33	NTPS - 5	24	10	4.53	6.4

34	NTPS - 6	22	9	3.76	2.8
35	DLF	25	0	0	0
TOTAL		**301**	**169**	**78.66**	**107.9**
TOTAL STATE (THERMAL/GAS) :		**561.5**	**274**	**133.01**	**162.9**
TOTAL STATE GEN (HY+TH/GAS)		**1028.5**	**695**	**345.1**	**377.4**

S. No.	Power Stations/Units	Installed Capacity (MW)	Peak Generation (MW)	Energy Generation (MU)	
				July-17	July-16
(ii) CENTRAL SECTOR : HYDRO					
1	KHANDONG - 1	25	25	16.1	16.7
2	KHANDONG - 2	25	25	15.9	15.2
3	KOPILI Stg - II	25	20	15.2	14.9
4	KOPILI - 1	50	55	27.3	32.7
5	KOPILI - 2	50	55	34.4	33.0
6	KOPILI - 3	50	55	36.2	33.8
7	KOPILI - 4	50	55	35.1	37.5
8	DOYANG - 1	25	26	16.6	17.3
9	DOYANG - 2	25	26	16.36	16.3
10	DOYANG - 3	25	26	17.0	17.0
11	LOKTAK - 1	35	36	25.9	26.0
12	LOKTAK - 2	35	37	26.1	26.2
13	LOKTAK - 3	35	36	26.1	26.1
14	RANGANADI - 1	135	146	81.4	89.2
15	RANGANADI - 2	135	146	78.1	90.8
16	RANGANADI - 3	135	146	80.3	87.6
TOTAL CS HYDRO :		**860**	**915**	**548.0**	**580.4**
(ii) CENTRAL SECTOR : THERMAL/GAS					
1	KATHALGURI - 1	34	30	17.3	22.0
2	KATHALGURI - 2	34	29	13.6	0.2
3	KATHALGURI - 3	34	33	8.6	19.9
4	KATHALGURI - 4	34	31	20.8	20.4
5	KATHALGURI - 5	34	30	21.2	16.9
6	KATHALGURI - 6	34	30	20.9	19.3
7	KATHALGURI - 7	30	25	11.8	9.2
8	KATHALGURI - 8	30	24	11.0	18.6
9	KATHALGURI - 9	30	25	17.7	14.6
10	R.C. NAGAR - 1	21	21	13.1	13.2
11	R.C. NAGAR - 2	21	21	12.5	13.4
12	R.C. NAGAR - 3	21	21	5.9	11.9
13	R.C. NAGAR - 4	21	20	7.0	13.7
14	R.C. NAGAR - 5	23	23	14.5	15.6
15	R.C. NAGAR - 6	23	23	6.3	14.0
16	MONARCHAK SOLAR PV	5	5	0.4	0.4
17	MONARCHAK - GTG 1	65.5	65	42.7	0
18	MONARCHAK - STG 1	35.5	34	19.9	0

19	PALLATANA - GTG 1	232	209	111.0	106.8
20	PALLATANA - STG 1	131	122	74.7	68.7
21	PALLATANA - GTG 2	232	215	108.9	109.0
22	PALLATANA - STG 2	131	122	74.0	70.9
23	BgTPP - 1	250	0	0	133.9
24	BgTPP - 2				
25	BgTPP - 3				
TOTAL CS (THERMAL/GAS) :		**1505**	**1119**	**633.5**	**711.9**
TOTAL CS GEN (HY+TH/GAS)		**2365**	**2034**	**1181.9**	**1292.3**
TOTAL NER GEN (HY+TH/GAS)		**3393.5**	**2729**	**1527.0**	**1669.7**

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	51.06	48.62
2	NTPS*	AEGCL	119.00	27.60	30.79
3	Baramura	Tripura	42.00	14.39	47.63
4	Rokhia	Tripura	95.00	39.96	84.48
5	AGBPP	NEEPCO	291.00	143.0	60.30
6	AGTPP	NEEPCO	84.00	59.3	57.88
7	AGTPP-2	NEEPCO	46.00		
8	Monarchak	NEEPCO	102.00	62.6	83.20
9	Pallatana	OTPC	727.00	368.6	67.21
10	BgTPP	NTPC	250.00	0	0

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

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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	424	393
3	BONGAIGAON 400 kV	421	395
4	RANGANADI 400 kV	427	380
5	PALLATANA 400 kV	422	392
6	SILCHAR 400 kV	417	381
7	BISHWANATH CHARIALI 400 kV	427	391
8	AZARA 400 kV	419	410
9	BgTPP 400 kV	430	402
10	MISA 220 kV	226	213
11	SALAKATI 220 kV	244	214
12	AGBPP 220 kV	232	221
13	MOKOKCHUNG 220 kV	237	226
14	AIZAWL 132 kV	135	129
15	IMPHAL 132 kV	136	127
16	Byrnihat 400kV	423	402
17	Kahilipara 132kV	142	129
18	Nirjuli 132kV	137	127

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	94.7	5.3
BALIPARA	0	0	98.8	1.0
BONGAIGAON	0	0	99.9	0.1
PALATANA	0	0	96.3	3.7
SILCHAR	0.1	0	99.9	0
Azara	0	0	100.00	0
BiswanathCharali	0	0	99.20	0.80
BgTPP	0	0	0	100.0
Byrnihat	0	0	75.4	24.6

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

1. Inter-Regional Energy Exchange

All Fig. in MU

N E R to E R	108
E R to N E R	145
NET IMPORT FORM E R	37
NER to NR	327
NR to NER	0
NET IMPORT FROM N R	-327
NET IMPORT	-290

2. Major Grid Disturbances:

None.

3. Meetings Held by NERPC:

Sr. No.	Meeting	Date	Venue
1.	47th PCC Meeting	24.07.2017	Guwahati
2.	134th OCC Meeting	27.07.2017	Guwahati
3.	29th Metering Meeting	28.07.2017	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		• It is synchronised on 13.02.2017.
		3rd		Jul-17	• Boiler Drum Lifting Feb'13 & Boiler Hydro test Mar'14 • Next Milestone : Boiler Light Up Nov'16

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

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 ofcompletion was 05.05.2016. (iii) The 132 kV line was completedon 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 Turial-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 July 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	82.86	4.34	87.19	81.84	81.84	59.13	-22.71	3.63
ASEB	465.70	106.39	572.09	532.96	681.78	730.71	48.93	-11.76
Manipur	105.79	0.00	105.79	101.19	62.04	61.93	-0.11	-0.06
MeSEB	126.15	0.00	126.15	110.05	-23.29	-34.05	-10.76	1.70
Mizoram	50.12	3.18	53.30	50.73	33.20	36.34	3.14	-0.80
Nagaland	62.00	9.57	71.57	66.26	62.75	65.35	2.60	-0.75
Tripura	157.12	0.00	157.12	151.31	88.82	89.25	0.43	-1.30
PGCIL-HVDC	0.00	0.00	0.00	0.00	0.00	0.80	0.80	-0.16

(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 July 2017

ISGS	Schedule (MU)	Injection (MU)
LOKTAK HEP	75.87	77.35
KHANDONG HEP	30.95	178.47
KOPILI - I HEP	129.92	
KOPILI - II HEP	14.86	
DHEP	47.37	49.40
RHEP	238.03	237.43

AGTCCPP	54.58	58.73
AGBPP	127.30	138.68
OTPC, PALLATANA	350.64	357.55
BgTPP	0	0

Source: Final PSP for the month of July 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
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 July 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	**39143081.24**
ASEB	Assam	352964127.25	30879092.09	9876326.82	**393719546.16**
Manipur	Manipur	34412263.63	5399481.69	1726962.88	**41538708.21**
MeECL	Meghalaya	58757178.67	6998100.94	2238263.09	**67993542.70**
Mizoram	Mizoram	33551508.22	2935256.11	938808.32	**37425572.65**
Nagaland	Nagaland	27300327.52	3696873.58	1182403.02	**32179604.11**
Tripura	Tripura	28830703.94	8634811.54	2761746.38	**40227261.85**
HVDC BNC	Assam	721987.18	63163.10	20202.00	**805352.28**

Grid Disturbance Report

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

1. At 11:56 Hrs on 07.07.17, 132 kV Imphal-Imphal I & II lines tripped.It was restored at 12:14 hrs. Outage duration: 0:18 hrs. Load Loss: 40MW, Generation Loss =0 MW. 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 these areas.

2. At 04:30 Hrs on 16.07.2017, 132 kV Doyang- Dimapur I & II line, 132 kV Doyang-Mokokchung line tripped.It was restored at 05:46 hrs. Outage duration: 1:16hrs. Load Loss: 3MW, Generation Loss =69.8MW. Category- GD-I. Due to tripping of these elements Wokha area was separated from rest of NER Grid and subsequently collapsed due to no source in this area and also due to evacuation problem, Doyang Power Station was blacked out.

3. While charging 132 kV Palatana - Udaipur 1 Line at 13:37 Hrs on 19.07.2017, 132 kV AGTCCPP-Kumarghat line, 132 kV AGTCCPP-Agartal I line & 132 kV Dhalabil-Kamalpur line tripped.It was restored at 14:03 hrs. Outage duration: 0:26 hrs. Load Loss: 50MW, Generation Loss: 122MW. Category- GD-I. Due to tripping of these elements, AGTCCPP Power Station, Monarchak Power Station, Rokhia Power Station, Agartala, Rabindranagar, Udaipur and Dhalabil areas of Tripura Power System were separated from rest of NER Grid and subsequently collapsed due to load generation mismatch.

4. At 19:04 Hrs on 26.07.2017, 132 kV Agartala-Rokhia I & II lines tripped. It was restored at 19:55 hrs. Outage duration: 0:51 hrs. Load Loss: 82 MW, Generation Loss: 158 MW. Category- GD-I. Due to tripping of these elements, Monarchak Power Station, Rokhia Power Station, Gumti Power Station, Rabindranagar, Udaipur, and Boxanagar areas of Tripura Power System were separated from rest of NER Grid and subsequently collapsed due to load generation mismatch.

Annexures and Exhibits

Annexure - I

A-1

Major Reservoirs Level of The Month

	FRL (mtr.)	MDDL (mtr.)	July 2017	July 2016
			Level in mtr/ft	Level in mtr/ft
KHANDONG	719.3	704	719.2	719.5
KOPILI	609.5	592.83	609.3	609.4
LOKTAK	768.5	766.2	769.4	769.2
BARAPANI	3220 ft	3150 ft	3205.6	3176.6
GUMTI	93.55	83.6	92.4	90.2
DOYANG	333	306	324.5	324.5

Annexure - II

A-2

Frequency Analysis For The Month of July 2017

Frequency	Freq. (in Hz.)	Date (D.M.Y)
1. Maximum Frequency	50.23	14.07.2017
2. Minimum Frequency	49.69	23.07.2017
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
6.56	76.15	17.29

Daily Frequency Variation Index (FVI):

Date	FVI	Date	FVI
01-07-2017	0.024	17-07-2017	0.023
02-07-2017	0.038	18-07-2017	0.042
03-07-2017	0.049	19-07-2017	0.051
04-07-2017	0.041	20-07-2017	0.031
05-07-2017	0.041	21-07-2017	0.029
06-07-2017	0.040	22-07-2017	0.030
07-07-2017	0.040	23-07-2017	0.031
08-07-2017	0.063	24-07-2017	0.028
09-07-2017	0.025	25-07-2017	0.034
10-07-2017	0.033	26-07-2017	0.041
11-07-2017	0.036	27-07-2017	0.074
12-07-2017	0.033	28-07-2017	0.037
13-07-2017	0.030	29-07-2017	0.054
14-07-2017	0.031	30-07-2017	0.041
15-07-2017	0.027	31-07-2017	0.028
16-07-2017	0.027		

Annexure - III

A-3

Consolidated Scheduled Bilateral Exchanges in NE Region during July 2017

Name of Trader	Energy at NER periphery (in MWH)
APPCL	63070.31
IEXL	180
MPPL	64665.50
NPCL	44.65
OTPC	48360.00

Exhibit - I

B-1

Frequency Duration for July 2017

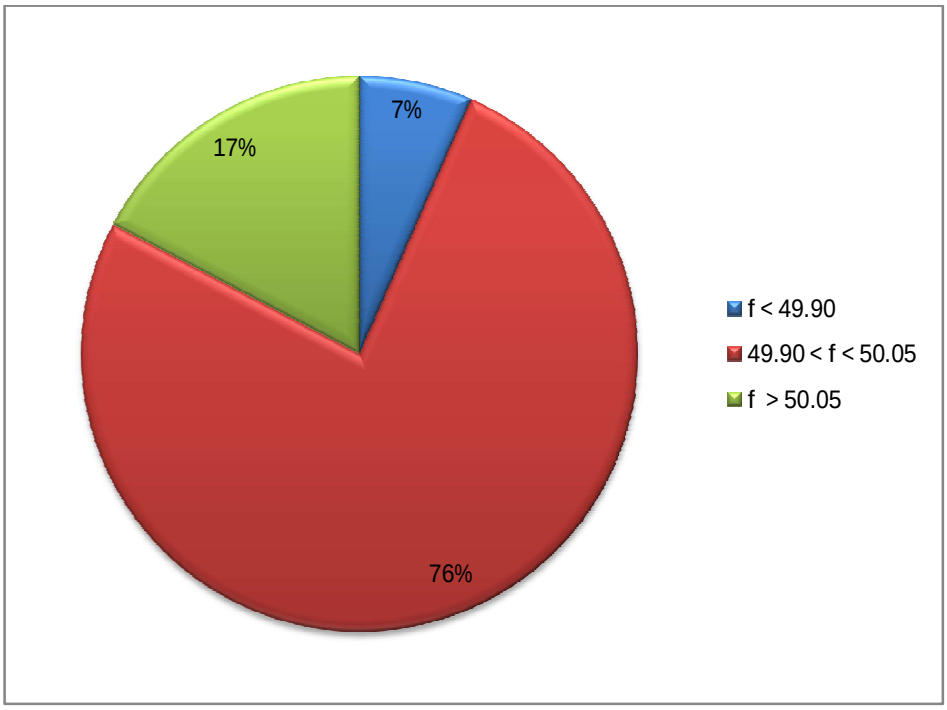

Exhibit - II

B- 2

FVI Characteristic for July 2017

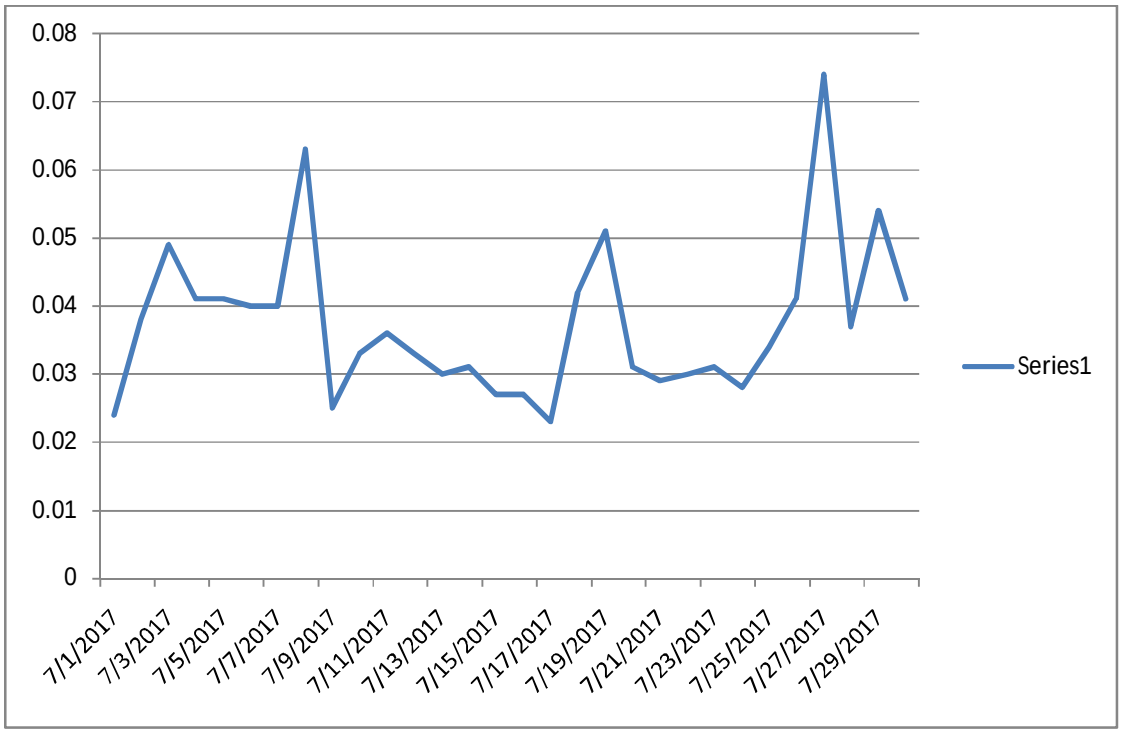

Exhibit -

B-3

Voltage Variation Range for July 2017

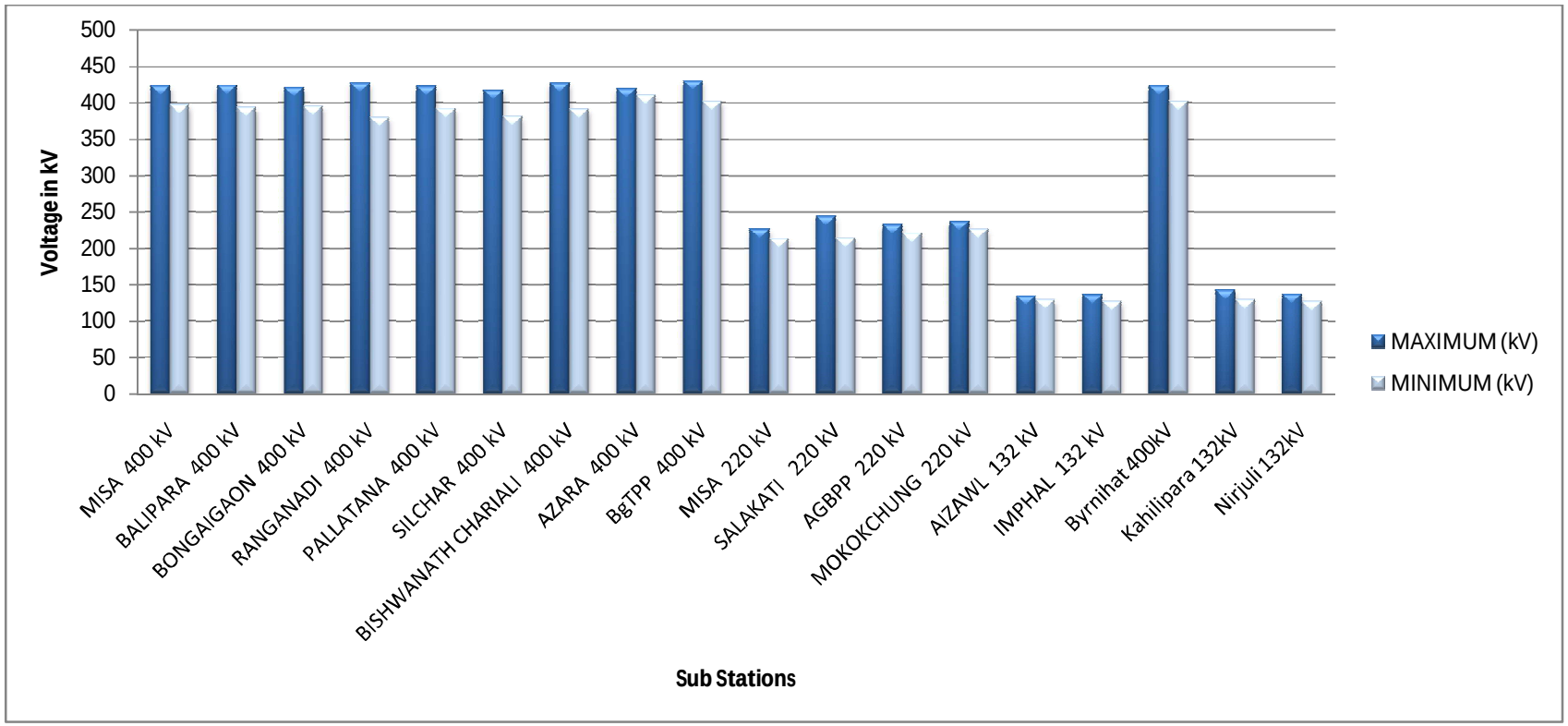

Exhibit - IV

B-4

Energy Profile for July 2017

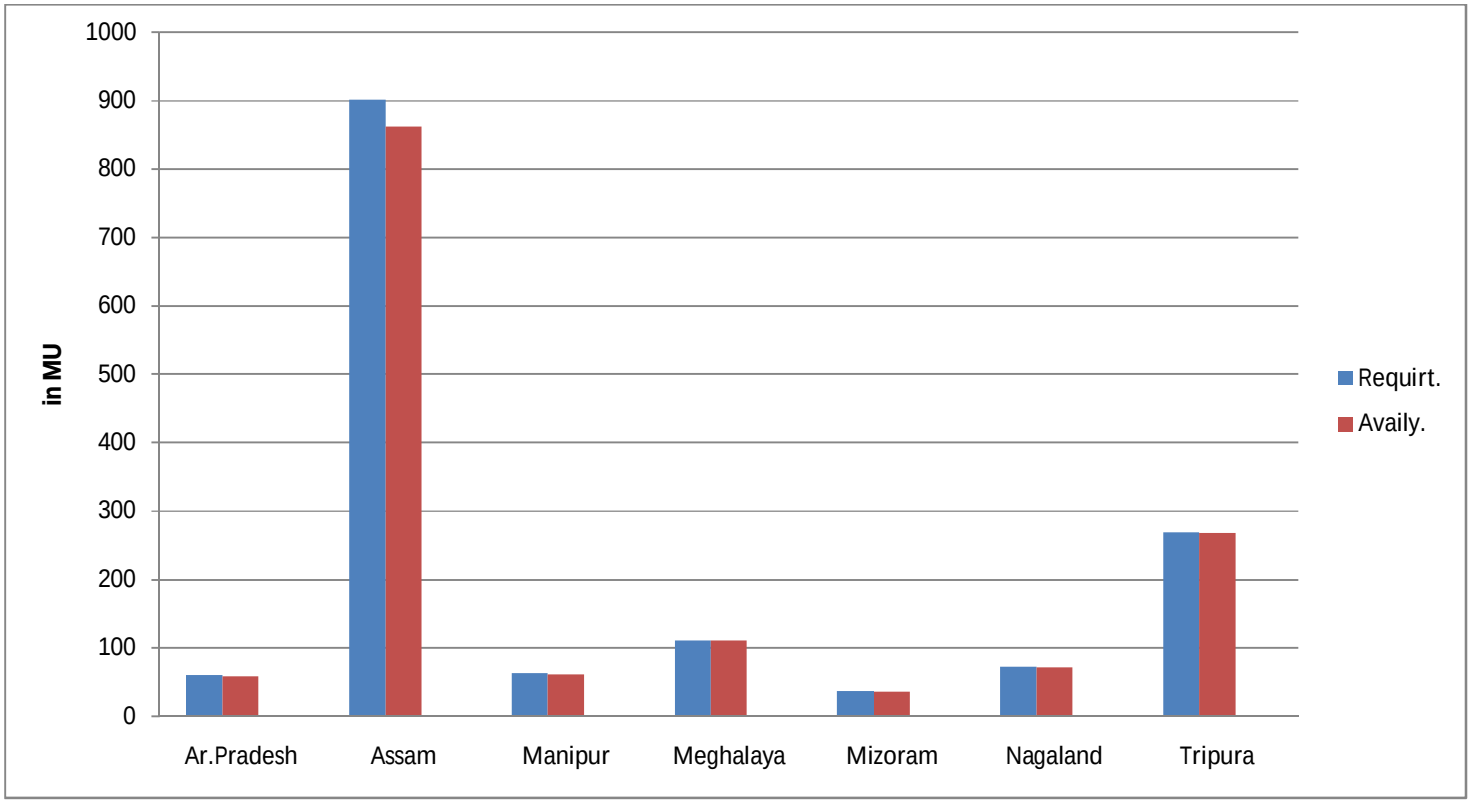

Exhibit -

B-5

Reservoir Profile for July 2017

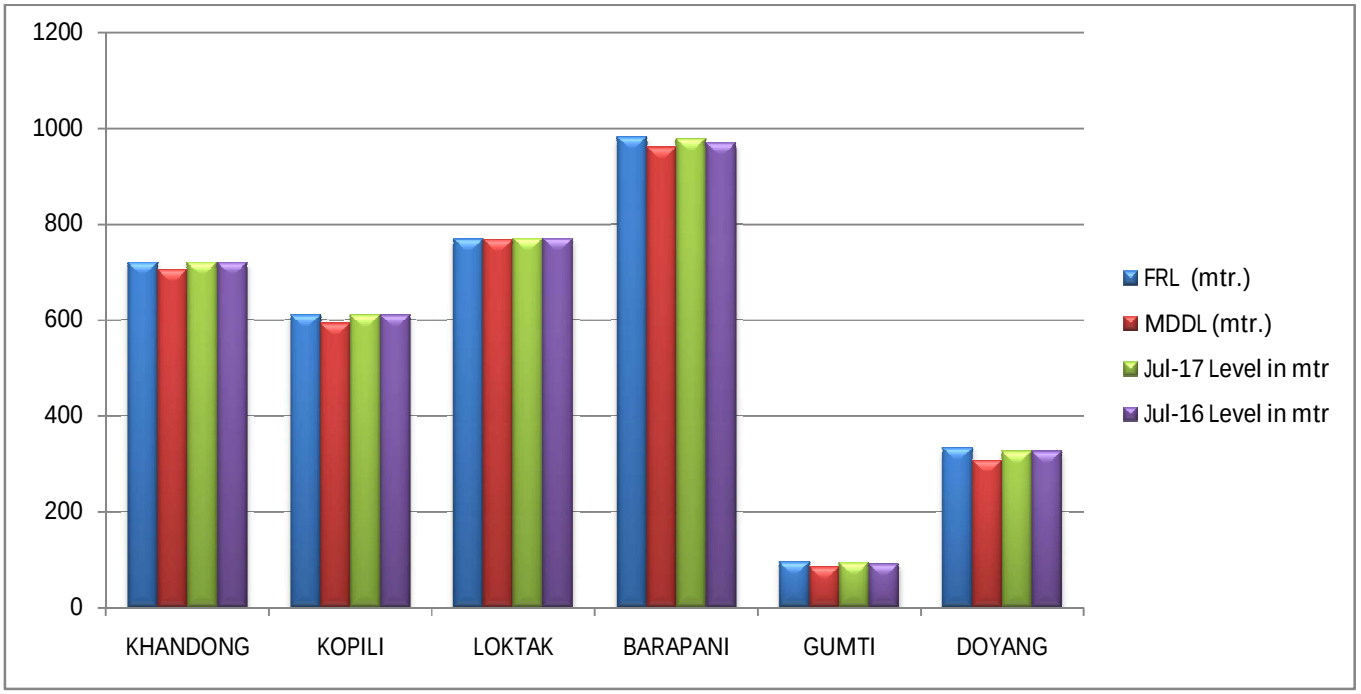

Exhibit - '

B-6

Station-wise Plant Load Factor for July 2017

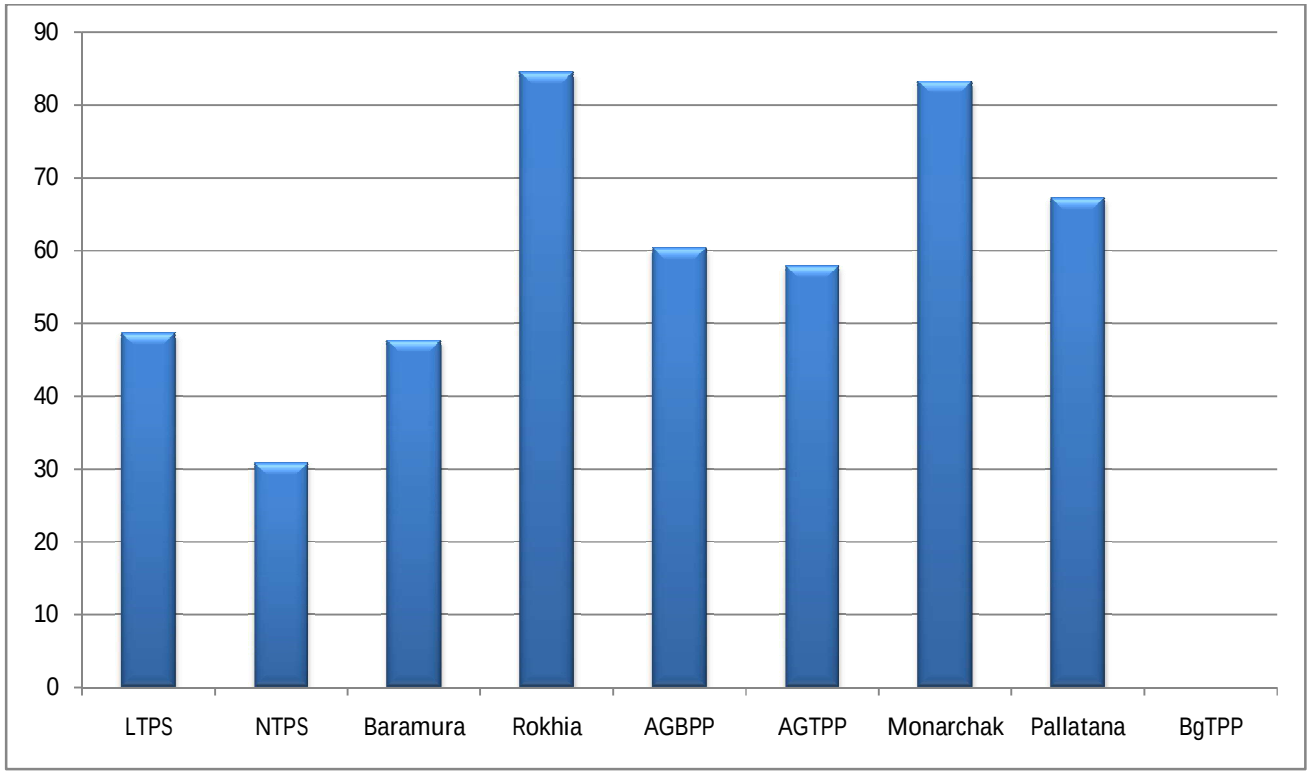

Exhibit - \

B-7

Collective Transaction through IEX Power Exchange July 2017

Exhibit - V

B-8

Consolidated SEB in NE Region for the month of July 2017