



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 मई 2017 की मासिक प्रगति रिपोर्ट
Subject: Monthly Progress Report of NERPC for the month of **May 2017**.

महोदय,
Sir,

उत्तर पूर्वी क्षेत्रीय विद्युत समिति की मई 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 May 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

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

- The maximum unrestricted demand during the month of May 2017 was 2472MW, which was 2258MW in the month of April 2017. The peak demand met in NER during the period under review was 2391MW, which was 2209 MW in the previous month.
- The energy requirement during the month of May 2017 was 1389.44MU, which was 1220.62 MU in the month of April 2017. The energy availability in NER during the period under review was 1339.11MU, which was 1170.53MU in the previous month.
- The maximum, minimum & average system frequency were 50.32 (14-May-17), 49.64 (23-May-17) & 49.99 Hz respectively. The maximum, minimum & average FVI were 0.165, 0.028 & 0.048 respectively. The average FVI was more than its previous month's figure of 0.044. (Refer Annex-II).
- Maximum export of power from NER to ER was 1186 MW (on 02.05.17 at 18:15 Hrs) and that from ER to NER was 908 MW (on 06.05.17 at 02:30 Hrs). The same Inter-Regional Exchanges of NER with NR and vice versa were 806 MW (on 26.05.17 at 10:30 Hrs.) and 495 MW (on 09.05.17 at 18:00 Hrs) respectively. Total net energy import during the month was 159.11MU (169.11 MU from ER and -10.0MU from NR).

Salient Features of North Eastern Regional Grid for May 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) *	May-17	May-16
	(i) Grid	3528.00	3477.00
	(ii) Isolated	124.00	124.00
	Total (As on 31.05.2017)	3652.00	3601.00
4	Energy Generation in MU (Gross):		
	Thermal/Gas	796.41	883.73
	Hydel	365.44	399.75
	Solar	0.60	0.50
	Total	1162.45	1283.98
5	Demand in MW:		
	Registered Peak Demand	2472	2490
	Peak Demand Met	2391	2410
	Shortage (%age)	3.4	3.3
6	Regional Energy (Gross) in MU:		
	Energy Requirement	1389.44	1234
	Energy Availability	1339.11	1151
	Surplus (+)/Deficit(-) (%age)	-3.8	-7.2
7	Inter Regional Energy Exchange in MU:		
	NER -----> ER	73.19	24.11
	ER -----> NER	242.3	251.8
	NER -----> NR	102	313.28
	NR -----> NER	92	0
	Net Import	159.11	-85.59
8	Frequency Profile:		
	Average Frequency (Hz)	49.99	50.06
	Average Frequency Variation Index	0.048	-

*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 May 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	21.24				88.65					109.89		
Meghalaya	53.52		5.51							59.03		
Mizoram	1.49									1.49		
Tripura	3.39				53.85					57.24		
Nagaland	2.84									2.84		
Total (S. Sector)	82.84		5.51		142.5			0		230.85		
Central Sector :												
NEEPCO:												
Khd+Kop+Kop-II	103.2									103.2		
Kathalguri (AGBPP)					153.9					153.9		
RC Nagar					59.6					59.6		
Doyang	4.3									4.3		
Ranganadi	97.5									97.5		
Monarchak					57.1		0.6			57.7		
NHPC:												
Loktak	77.6									77.6		
OTPC:												
Pallatana Gas PP					377.8					377.7		
NTPC:												
BgTPP			0							0		
Total (C. Sector)	282.6		0		648.4		0.6			931.6		
Total NER	365.44		5.51		790.9		0.6			1162.45		

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	63.87	62.67	1.2	1.9	145	145	0	0
Assam	756.30	714.20	42.1	5.9	1649	1580	69	4.4
Manipur	63.44	62.66	0.78	1.2	163	161	2	1.2
Meghalaya	129.41	129.37	0.04	0.0	304	304	0	0
Mizoram	44.09	43.21	0.88	2.0	86	85	1	1.2
Nagaland	68.09	67.02	1.07	1.6	132	131	1	0.8
Tripura	264.25	260.38	3.87	1.5	280	276	4	1.4
REGION	1389.44	1339.11	50.33	3.8	2472	2391	81	3.4

3. Estimation Of Peak Demand (In MW)

Constituents	Peak Demand Met	Date	Freq (Hz)	Estimated Peak Demand at 50 Hz
Arunachal Pradesh	145	06.05.17	50.15	145
Assam	1580	27.05.17	50.07	1649
Manipur	161	25.05.17	50.00	163
Meghalaya	304	11.05.17	50.00	304
Mizoram	85	04.05.17	50.11	86
Nagaland	131	26.05.17	50.11	132
Tripura*	276	25.05.17	50.07	280
REGION	2391	27.05.17	50.07	2472

4. Estimation of Energy Requirement (In MU)

Constituents	Generation	Energy Drawal from Grid		Energy Availability	Actual Requirement
		Schedule	Drawal		
Arunachal Pradesh	0	58.52	62.67	62.67	63.87
Assam	109.89	551.69	605.33	714.20	756.30
Manipur	0	64.08	62.26	62.66	63.44
Meghalaya	59.03	81.79	70.93	129.37	129.41
Mizoram	1.49	38.23	40.85	43.21	44.09
Nagaland	2.84	60.43	64.21	67.02	68.09
Tripura	57.24	93.07	93.30	260.38	264.25
REGION	230.85	947.81	999.55	1339.11	1389.44

*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)	
				May-17	May-16
(i) STATE SECTOR : HYDRO					
ASSAM : HYDRO					
1	LANGPI U-1	50	51	9.23	0
2	LANGPI U-2	50	51	12.01	26.24
TOTAL		100	102	21.24	26.24
MEGHALAYA : HYDRO					
3	UMIAM STAGE - 1 U-1	9	9	0.78	1.53
4	UMIAM STAGE - 1 U-2	9	9	1.14	1.89
5	UMIAM STAGE - 1 U-3	9	9	0.76	1.35
6	UMIAM STAGE - 1 U-4	9	9	1.13	1.98
7	UMIAM STAGE - 2 U-1	10	10	1.66	2.61
8	UMIAM STAGE - 2 U-2	10	10	0.36	0.99
9	UMIAM STAGE - 3 U-1	30	29	5.42	0
10	UMIAM STAGE - 3 U-2	30	0	0	10.37
11	UMIAM STAGE - 4 U-1	30	30	1.62	5.52
12	UMIAM STAGE - 4 U-2	30	30	3.06	5.83
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	11.56	21.64
18	MYNTDU-LESHKA U-2	42	42	10.65	6.94
19	MYNTDU-LESHKA U-3	42	42	14.89	23.67
20	SONAPANI	2	1	0.49	0.69
TOTAL		316	272	53.52	84.99
NAGALAND : HYDRO					
21	LIKIMRO - 1	8	0	0	0.61
22	LIKIMRO - 2	8	0	0	0.85
23	LIKIMRO - 3	8	8	2.84	0.66
TOTAL		24	8	2.84	2.12
MIZORAM : HYDRO					
24	SERLUI B U-1	4	4	0.90	2.07
25	SERLUI B U-2	4	0	0	0.00
26	SERLUI B U-3	4	4	1.49	0
TOTAL		12	8	2.39	2.07
TRIPURA : HYDRO					
27	GUMTI - 1	5	0	0	0
28	GUMTI - 2	5	5	2.66	2.53

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29	GUMTI - 3	5	4	0.73	0.90
TOTAL		15	9	3.39	3.13
TOTAL STATE (HYDRO) :					
		467	399	82.84	118.55
Sr. No.	Power Stations/Units	Installed Capacity (MW)	Peak Generation (MW)	Energy Generation (MU)	
				May-17	May-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	14.16	7.22
9	BARAMURA - 5	21	21	0.58	10.28
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	14.61	14.20
17	ROKHIA - 8	21	21	12.72	12.26
18	ROKHIA - 9	21	21	11.78	12.38
TOTAL		169.5	103	53.85	56.34
MEGHALAYA PRIVATE : THERMAL(COAL)					
19	MPL	53	0	0	0
20	Adhunik Cement	25	24	5.51	0
TOTAL		78	24	5.51	0
ASSAM : THERMAL					
21	LTPS - 1	15	0	0	0
22	LTPS - 2	15	0	0	9.11
23	LTPS - 3	15	15	4.64	2.34
24	LTPS - 4	15	14	3.71	2.52
25	LTPS - 5	20	22	13.61	15.10
26	LTPS - 6	20	22	14.10	13.77
27	LTPS - 7	20	20	12.87	13.61
28	LTPS - 8	37	29	17.36	19.06
29	NTPS - 1	20	0	0	11.20
30	NTPS - 2	21	20	10.32	0.96
31	NTPS - 3	21	21	3.81	1.71
32	NTPS - 4	11	9	1.86	2.86
33	NTPS - 5	24	9	3.17	2.19
34	NTPS - 6	22	11	3.20	3.97

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35	DLF	25	0	0	0
TOTAL		301	192	88.65	98
TOTAL STATE (THERMAL/GAS) :		561.5	319	148.01	154.34
TOTAL STATE GEN (HY+TH/GAS)		1028.5	718	230.85	272.89

S. No.	Power Stations/Units	Installed Capacity (MW)	Peak Generation (MW)	Energy Generation (MU)	
				May-17	May-16
(ii) CENTRAL SECTOR : HYDRO					
1	KHANDONG - 1	25	25	11.5	4.9
2	KHANDONG - 2	25	25	11.2	17.6
3	KOPILI Stg - II	25	25	13.9	16.7
4	KOPILI - 1	50	50	21.3	0.1
5	KOPILI - 2	50	0	0	3.8
6	KOPILI - 3	50	50	16.3	24.3
7	KOPILI - 4	50	50	29.0	25.4
8	DOYANG - 1	25	25	1.8	1.3
9	DOYANG - 2	25	25	1.6	1.0
10	DOYANG - 3	25	25	0.9	1.4
11	LOKTAK - 1	35	37	25.8	24.4
12	LOKTAK - 2	35	37	25.9	25.5
13	LOKTAK - 3	35	36	25.9	25.1
14	RANGANADI - 1	135	142	31.8	47.4
15	RANGANADI - 2	135	142	31.5	46.8
16	RANGANADI - 3	135	142	34.2	15.2
TOTAL CS HYDRO :		860	836	282.6	280.9
(ii) CENTRAL SECTOR : THERMAL/GAS					
1	KATHALGURI - 1	34	35	22.2	20.5
2	KATHALGURI - 2	34	36	21.4	18.5
3	KATHALGURI - 3	34	0	0	19.5
4	KATHALGURI - 4	34	34	22.6	21.5
5	KATHALGURI - 5	34	34	21.5	12.7
6	KATHALGURI - 6	34	35	20.7	15.7
7	KATHALGURI - 7	30	30	18.6	16.8
8	KATHALGURI - 8	30	30	8.6	18.0
9	KATHALGURI - 9	30	30	18.2	11.0
10	R.C. NAGAR - 1	21	22	11.9	5.8
11	R.C. NAGAR - 2	21	23	6.2	11.0
12	R.C. NAGAR - 3	21	22	8.2	14.3
13	R.C. NAGAR - 4	21	22	13.0	13.6
14	R.C. NAGAR - 5	23	25	8.9	6.9
15	R.C. NAGAR - 6	23	25	11.5	15.2
16	MONARCHAK SOLAR PV	5	5	0.6	0.5
17	MONARCHAK - GTG 1	65.5	66	40.6	2.3
18	MONARCHAK - STG 1	35.5	38	16.5	0
19	PALLATANA - GTG 1	232	235	110.2	115.7

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20	PALLATANA - STG 1	131	135	74.0	74.5
21	PALLATANA - GTG 2	232	235	117.5	107.1
22	PALLATANA - STG 2	131	136	76.1	68.2
23	BgTPP - 1	250	0	0	143.0
24	BgTPP - 2				
25	BgTPP - 3				
TOTAL CS (THERMAL/GAS) :		1505	1210	648.4	729.5
TOTAL CS GEN (HY+TH/GAS)		2365	2046	931.6	1010.40
TOTAL NER GEN (HY+TH/GAS)		3393.5	2764	1162.45	1283.29

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	66.29	69.91
2	NTPS*	AEGCL	119.00	22.36	24.77
3	Baramura	Tripura	42.00	14.74	48.47
4	Rokhia	Tripura	95.00	39.11	78.72
5	AGBPP	NEEPCO	291.00	153.9	67.37
6	AGTPP	NEEPCO	84.00	59.6	57.94
7	AGTPP-2	NEEPCO	46.00		
8	Monarchak	NEEPCO	102.00	57.1	79.35
9	Pallatana	OTPC	727.00	377.8	69.20
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	427	392
2	BALIPARA 400 kV	427	392
3	BONGAIGAON 400 kV	422	384
4	RANGANADI 400 kV	420	381
5	PALLATANA 400 kV	422	394
6	SILCHAR 400 kV	422	393
7	BISHWANATH CHARIALI 400 kV	421	387
8	AZARA 400 kV	415	410
9	BgTPP 400 kV	425	393
10	MISA 220 kV	229	210
11	SALAKATI 220 kV	244	214
12	AGBPP 220 kV	232	232
13	MOKOKCHUNG 220 kV	239	221
14	AIZAWL 132 kV	140	122
15	IMPHAL 132 kV	140	126
16	Byrnihat 400kV	424	396
17	Kahilipara 132kV	141	122
18	Nirjuli 132kV	143	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	92.50	7.50
BALIPARA	0	0	96.57	3.43
BONGAIGAON	0	0	99.96	0.04
PALATANA	0	0	95.22	4.78
SILCHAR	0	0	99.80	0.20
Azara	0	0	100.00	0.00
BiswanathCharali	0	0	96.70	3.30
BgTPP	0	0	95.30	4.70
Byrnihat	0	0	94.80	5.20

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

1. Inter-Regional Energy Exchange

All Fig. in MU

NER to ER	73.19
ER to NER	242.3
NET IMPORT FORM E R	169.11
NER to NR	102
NR to NER	92
NET IMPORT FROM N R	-10
NET IMPORT	159.11

2. Major Grid Disturbances:

None.

3. Meetings Held by NERPC:

Sr. No.	Meeting	Date	Venue
1.	Special Sub Group meeting	05.05.2017	Shillong
2.	6 th NETeST Meeting	11.05.2017	Guwahati
3.	132 nd OCC Meeting	12.05.2017	Guwahati
4.	27 th Metering Meeting	12.05.2017	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	Jun-17	<ul style="list-style-type: none"> It is synchronised on 13.02.2017.
		3rd		<ul style="list-style-type: none"> 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	Oct-17	Work in Progress
3	Pare (Ar. P/NEEPCO)	2	2x55	July-17	Work in Progress
4	Tuirial (Ar. P/NEEPCO)	2	2x30	Oct-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.

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4	Myntriang SHP stg1	2	2x3	Dec-15	
5	Myntriang SHP stg2	2	2x1.5	Aug-14	

2. Transmission Lines In NER

Progress of Transmission Lines in NER					
POWERGRID					
Sr. No.	Name of Lines	Total length in Km	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 Sihmui	5		Dec-13	
8	132 kV Pasighat-Roing S/C	102	Dec-12	May-17	Line completed. Awaiting state govt. (SLDC) clearance for commissioning.
9	132 kV Tezu-Roing S/C	73	Apr-12	May-17	Line checking under progress.
10	132 kV Tezu-Namsai S/C	96	Dec-12	Feb-18	Progress affected due to severe ROW Problem.

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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 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		Jun-17	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 Melriat (New) - Sihhmui	12	Dec-12	Feb-18	Package re-awarded in Jun'16. Down stream line at Sihmui needs to be expedite. Work commenced.
AEGCL					
22	BTPS - Rangia D/C line	326.374	Mar-13	June-17	1. Overall 89%completed.A. All normal foundation

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					completed. B. 5 nos. of Pile foundation completed.
23	LLO 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.
24	Agia - Matia (Dudhnoi) S/C line on D/C tower	23.5	Nov-13		Test charged on 29.06.2016
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 May 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	50.66	4.05	54.71	53.27	58.52	62.67	4.15	-1.21
ASEB	353.17	103.66	456.83	424.42	551.69	605.33	53.64	-17.96
Manipur	86.08	0.00	86.08	81.99	64.08	62.26	-1.82	0.07
MeSEB	94.12	0.00	94.12	88.53	81.79	70.93	-10.85	1.70
Mizoram	37.10	2.97	40.08	37.93	38.23	40.85	2.62	-0.66
Nagaland	42.81	8.97	51.79	50.54	60.43	64.21	3.78	-1.02
Tripura	143.15	0.00	143.15	136.77	93.07	93.30	0.23	-2.34
PGCIL-HVDC	0.00	0.00	0.00	0.00	0.00	0.62	0.62	-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 May 2017

ISGS	Schedule (MU)	Injection (MU)
LOKTAK HEP	54.64	59.03
KHANDONG HEP	64.02	76.79
KOPILI - I HEP	75.07	
KOPILI - II HEP	22.05	
DHEP	13.59	0
RHEP	3.96	4.34

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AGTCCPP	142.20	149.25
AGBPP	95.65	96.52
OTPC, PALLATANA	360.97	366.41
BgTPP	0	0

Source: Final PSP for the month of May 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
KHANDONG HEP	50	277.61	40.3627	As per CERC order dated 13.01.2016 in petition No 42/GT/2015.

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

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

1. At 10:13 Hrs on 13.05.17, 132 kV Loktak-Jiribam line tripped. It was restored at 11:24 hrs. Outage duration: 1:11 hrs. Load Loss: 33MW, Generation Loss =95 MW. Category- GD-I. Due to evacuation problem, Loktak Power Station was blacked out. Rengpang and Ningthongkhong area separated from rest of NER Grid and subsequently collapsed due load-generation mismatch.
2. At 08:27 Hrs on 16.05.2017, 400 kV Silchar-Palatana 2 line tripped.This led to the overloading of 132 kV AGTCCPP-Kumarghat line & 132 kV Agartala-Dhalabil line and subsequently tripped on over current. It was restored at 08:49 hrs. Outage duration: 0:22hrs. Load Loss: 72MW, Generation Loss =638MW. Category- GD-I. Due to tripping of these elements, part of Tripura, Bangladesh(South Comilla), Palatana& AGTCCPP power systems were separated from rest of NER Grid and subsequently collapsed due to load generation mismatch.
3. At 17:44 Hr on 30.05.17 ,132 kV Dimapur (PG)-Dimapur (NA) II line tripped. It was restored at 17:58 hrs. Outage duration: 0:14 hrs. Load Loss: 39MW, Generation Loss: 0MW. Category- GD-I. Due to tripping of these elements, Dimapur area was separated from rest of NER Grid and subsequently collapsed due to no source in this area.
4. At 9:40 hrs, 132 kV Khliehriat(PG)-Khliehriat(MePTCL) I and II and 132 kVNEIGRIHMS- NEHU lines tripped . 132. It was restored at 9:56 hrs. Outage duration: 0:16 hrs. Load Loss: 19 MW, Generation Loss: 119 MW. Category- GD-I.Due to tripping of these elements, Khliehriat area was 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.)	May 2017	May 2016
			Level in mtr/ft	Level in mtr/ft
KHANDONG	719.3	704	719.3	719.8
KOPILI	609.5	592.83	609.8	609.4
LOKTAK	768.5	766.2	766.9	768.3
BARAPANI	3220 ft	3150 ft	3176.4	3176.2
GUMTI	93.55	83.6	89.4	89.6
DOYANG	333	306	308.7	308.4

A-2

Frequency Analysis For The Month of May 2017

Frequency	Freq. (in Hz.)	Date (D.M.Y)
1. Maximum Frequency	50.32	14.05.2017
2. Minimum Frequency	49.64	23.05.2017
3. Monthly Average	49.99	

Frequency in Hz as %age of Time for the Blocks

$f < 49.90$	$49.90 < f < 50.05$	$f > 50.05$
9.20	71.60	19.2

Daily Frequency Variation Index (FVI):

Date	FVI	Date	FVI
01-05-2017	0.034	17-05-2017	0.033
02-05-2017	0.095	18-05-2017	0.041
03-05-2017	0.165	19-05-2017	0.038
04-05-2017	0.061	20-05-2017	0.031
05-05-2017	0.050	21-05-2017	0.054
06-05-2017	0.058	22-05-2017	0.040
07-05-2017	0.042	23-05-2017	0.053
08-05-2017	0.034	24-05-2017	0.040
09-05-2017	0.032	25-05-2017	0.039
10-05-2017	0.033	26-05-2017	0.043
11-05-2017	0.066	27-05-2017	0.048
12-05-2017	0.071	28-05-2017	0.048
13-05-2017	0.043	29-05-2017	0.045
14-05-2017	0.035	30-05-2017	0.028
15-05-2017	0.030	31-05-2017	0.029
16-05-2017	0.032		

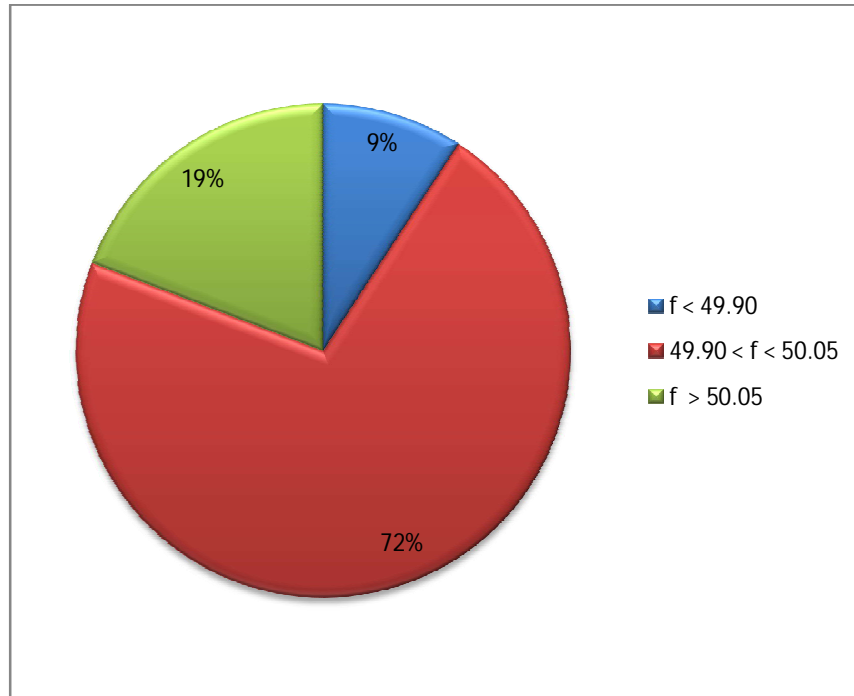
A-3

Consolidated Scheduled Bilateral Exchanges in NE Region during May 2017

Name of Trader	Energy at NER periphery (in MWH)
APPCL	4.1835
IEXL	0.3900
MPPL	9.2975
NVVN	1.1400

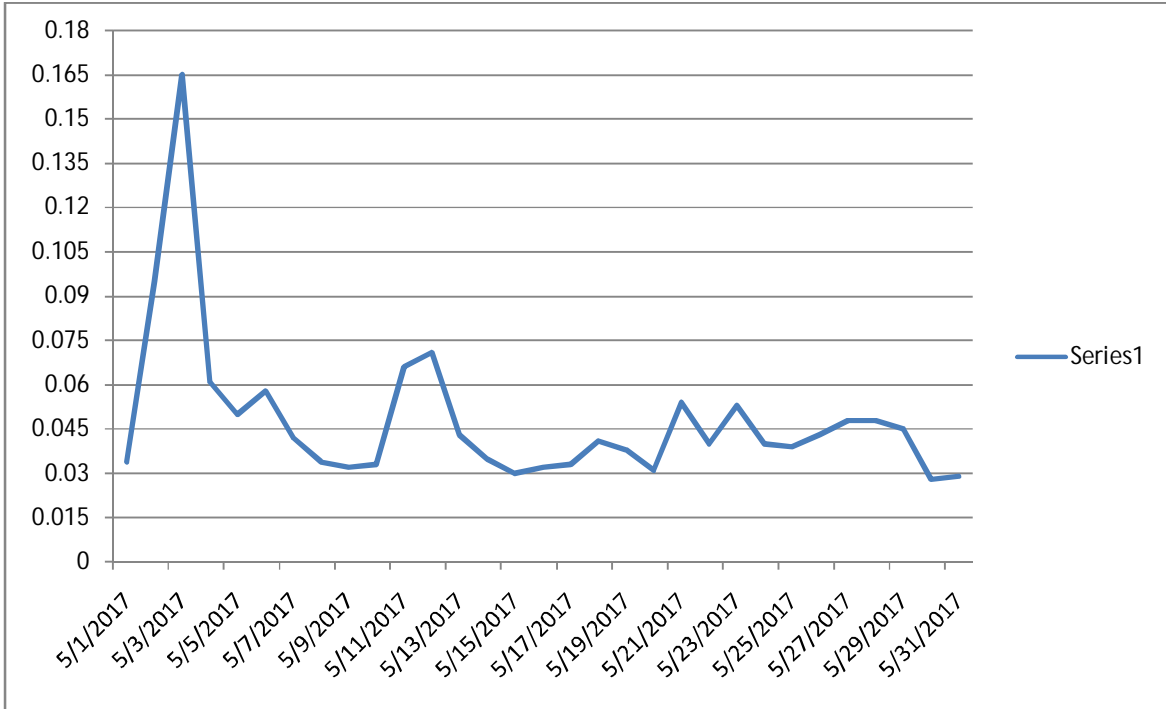
B-1

Frequency Duration for May 2017



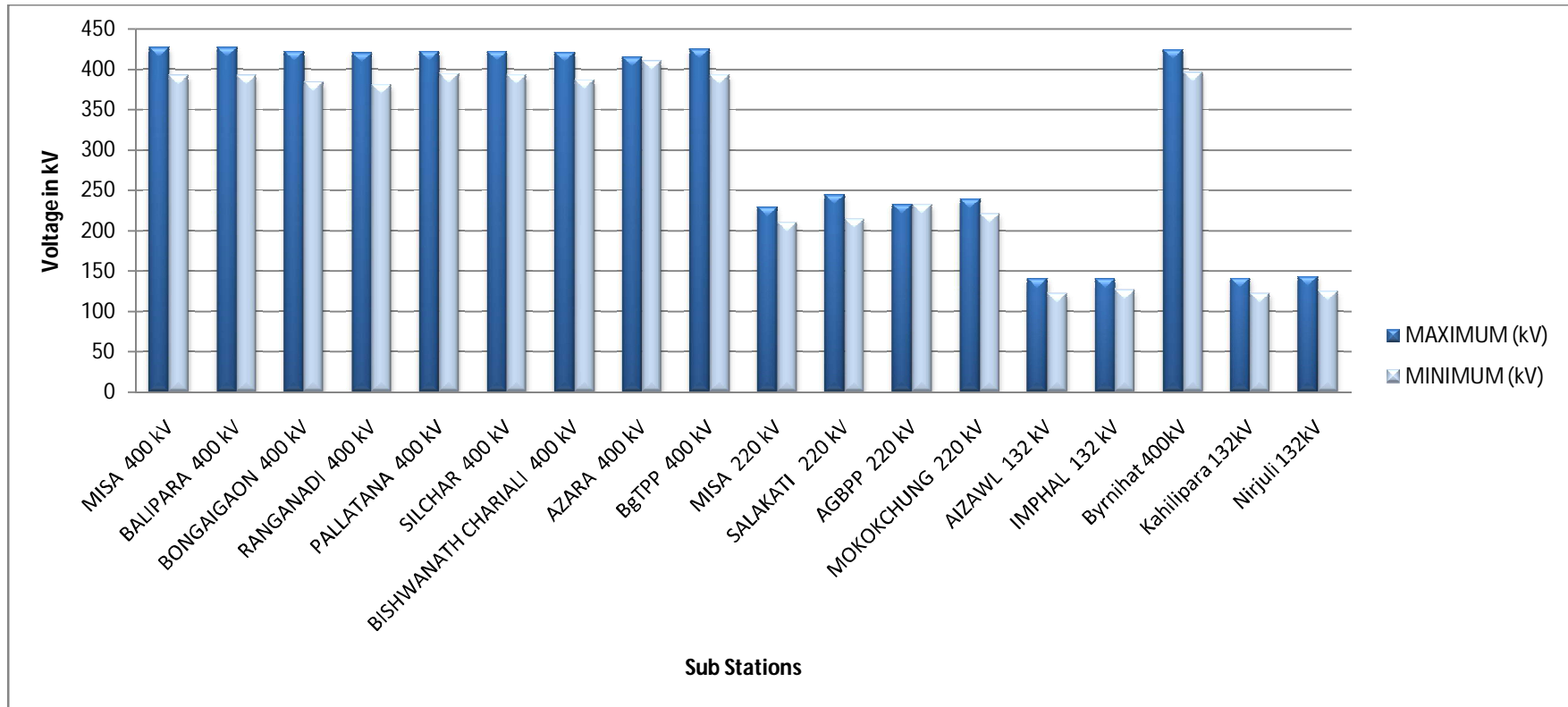
B- 2

FVI Characteristic for May 2017



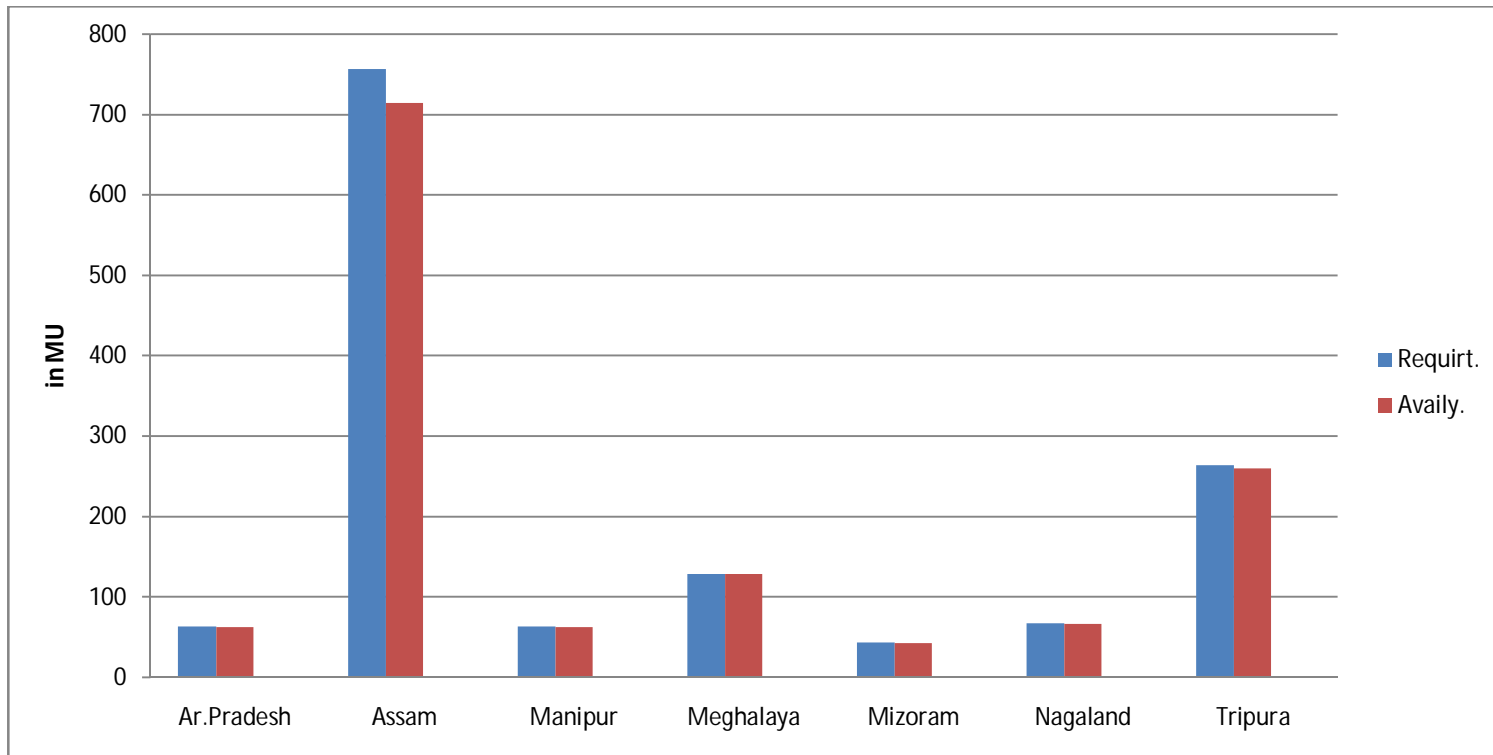
B-3

Voltage Variation Range for May 2017



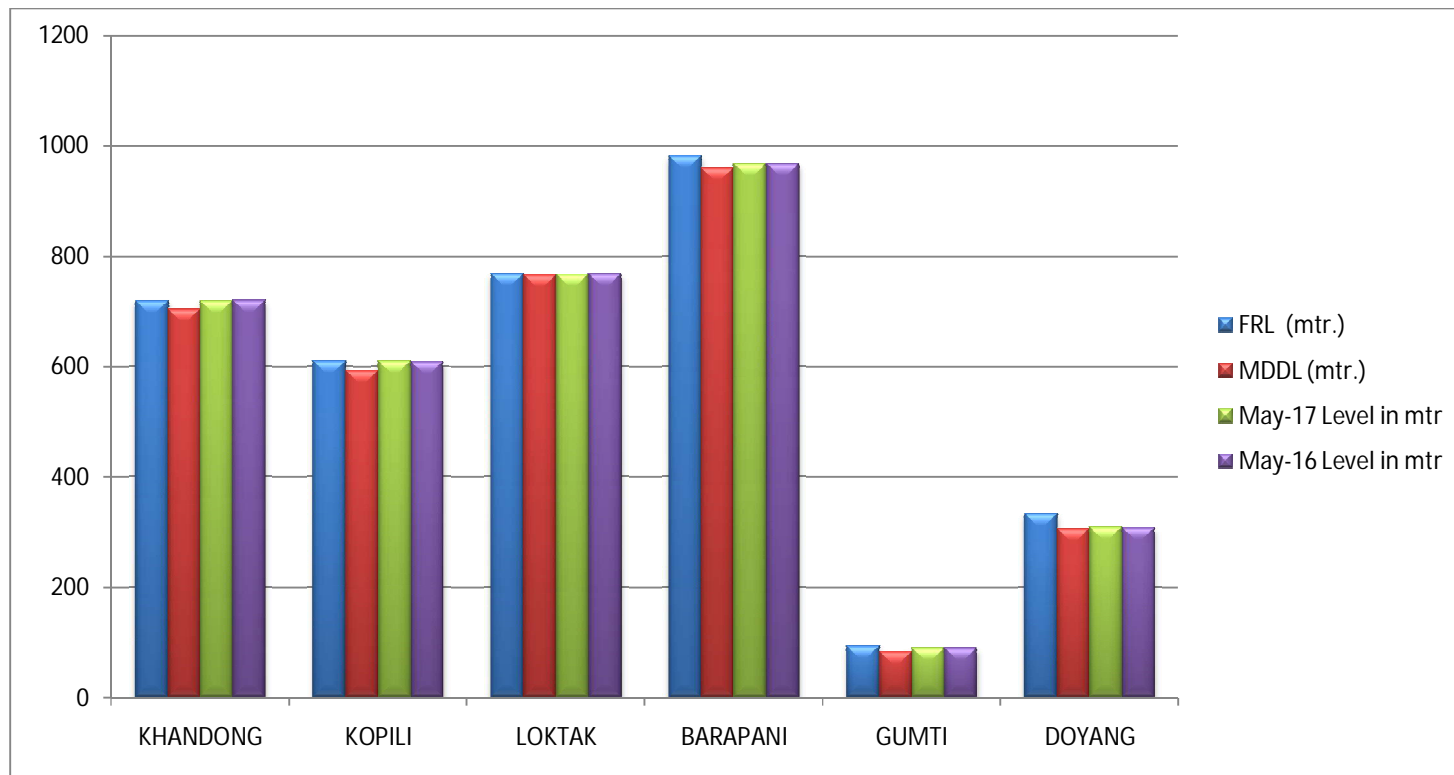
B-4

Energy Profile for May 2017



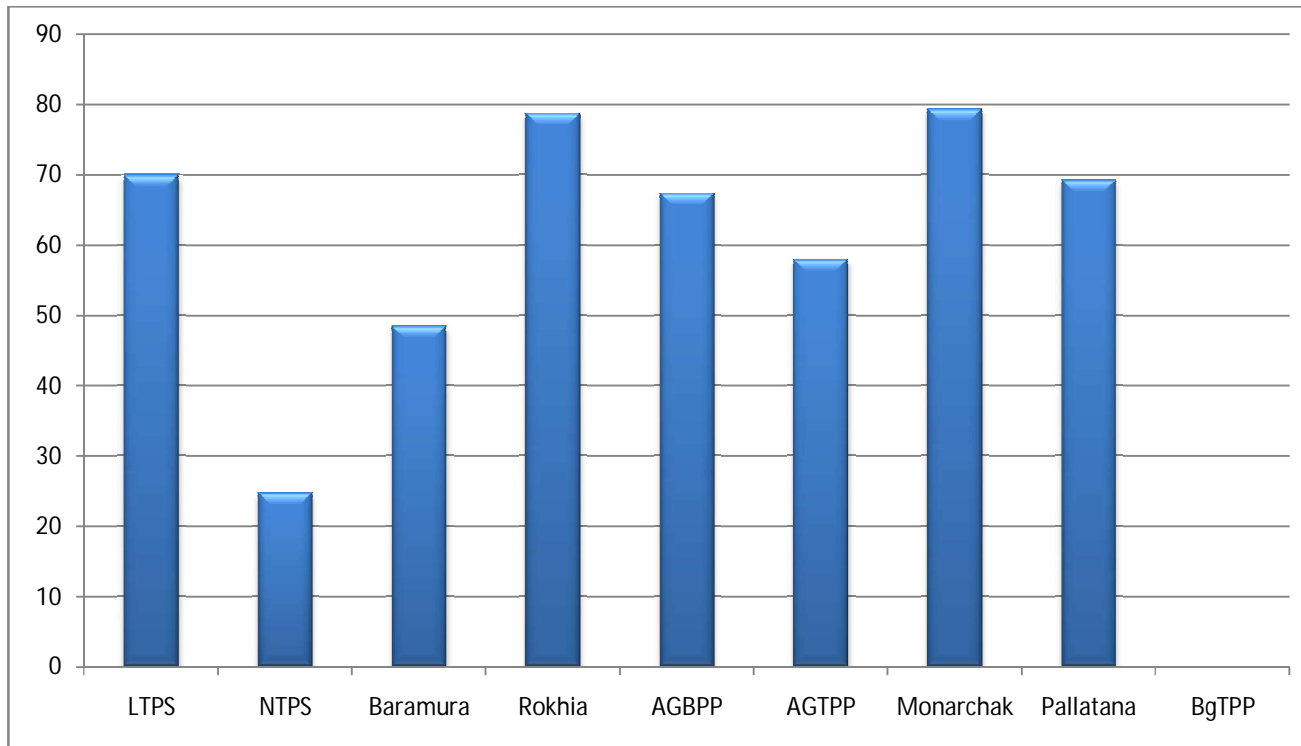
B-5

Reservoir Profile for May 2017



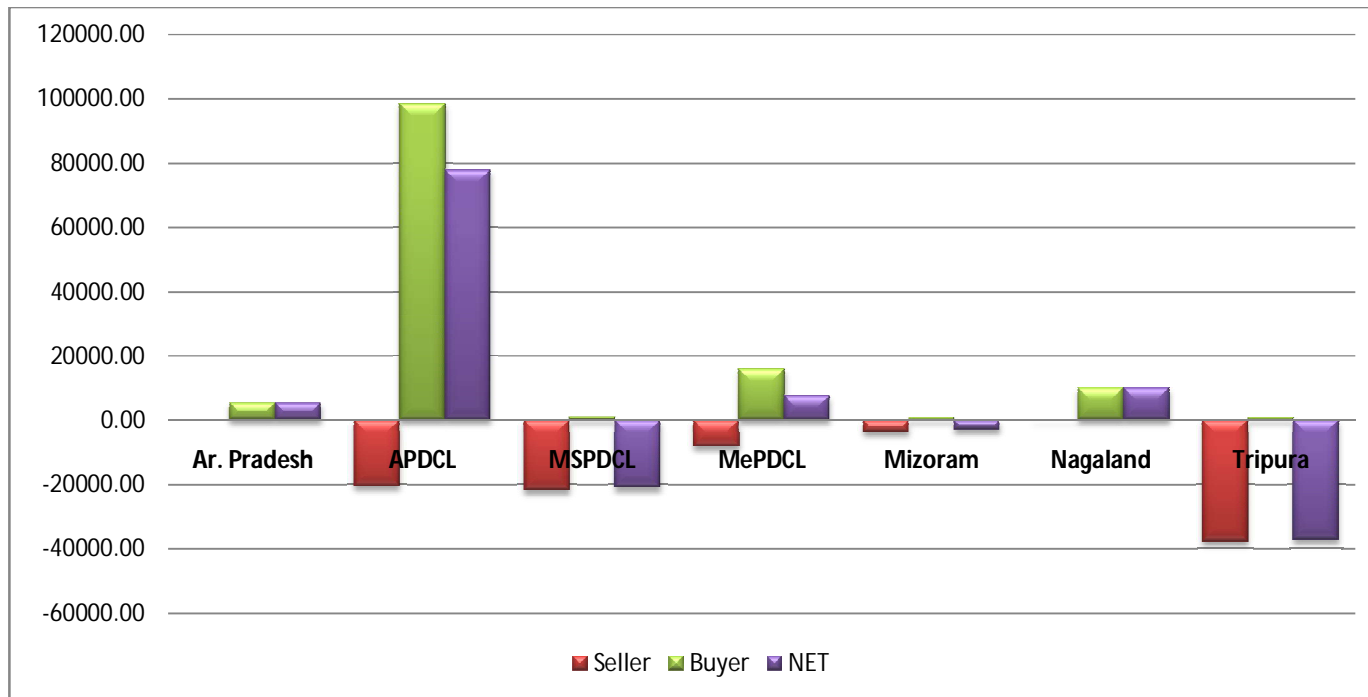
B-6

Station-wise Plant Load Factor for May 2017



B-7

Collective Transaction through IEX Power Exchange May 2017



B-8

Consolidated SEB in NE Region for the month of May 2017

