



भारत सरकार
Government of India
विद्युत मंत्रालय
Ministry of Power
पूर्वी क्षेत्रीय विद्युत समिति
EASTERN REGIONAL POWER COMMITTEE

मासिक प्रगति रिपोर्ट
**PROGRESS REPORT FOR THE MONTH
OF
जून - 2018
JUNE - 2018**

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Highlights of Eastern Regional Power System for June-2018

- The **Maximum Net Demand** met of **Eastern Region (ER)** during the month of **Jun, 2018** was **22080 MW** which is 16.25% more than the **June, 2017** (18994 MW). Individual **Peak Demand (MW)** of majority constituents **increased** compared to the corresponding period of last year.
- The **Average Net Energy Consumption** per day in ER for the month of **Jun, 2018** was **437.39 MU** excluding export, which is 9.72 % more than the corresponding period of last year (398.64 MU).
- **The Average regional PLF of thermal units 66.03 % during the month**, which is 6.64% more than the corresponding period of the last year (**59.39%**).
- **CESC (Budge- Budge)** registered the highest **PLF of 99.14 %**, followed by **DVC (ChandrapuraU#7,8) (94.12%)** & **GRIDCO (TTPS) 89.65%** during the month of **Jun, 2018**.
- **Maximum Net generation** of ER was **22981 MW** against total **Effective Capacity of 35443 MW** (including import from Bhutan). At the time of Regional peak (22080 MW on 18.06.18 at 21.00 hrs.) the generation was 21723 MW (including import from Bhutan) and import from CPPs was 852 MW.
- The system frequency in the recommended band (49.9 Hz to 50.05 Hz) remained for 77.07% of time during the month. **Average frequency** for the month was **49.97 Hz**. The instantaneous maximum and the minimum frequency touched were 50.24 Hz and 49.59 Hz respectively. The integrated (Fifteen minutes time block average) maximum and minimum frequency were **50.17 Hz** and **49.69 Hz** respectively (**refer Annexure-I**).
- The **Maximum Voltage** recorded **426 KV** at Jaypore 400 **KV S/s** whereas the minimum voltage recorded 376 KV at Jeerat 400 KV S/s of Power grid.
- **The Maximum Export from ER to outside region was 7098 MW (including Nepal and Bhutan) on 25th Jun, 2018 at 07.00 hrs.** Total net energy export during the month was **1918.28 MU** which corresponds to 13.28% of ex-bus total generation (14430.00 MU) of Eastern Region.
- **The import from CPPs/IPPs was 607.95 MU during the month.**

- **The Total Energy Exchange between Nepal and Bihar (ER) was:**

Export / Import by Bihar	Jun, 2018(In MU)	Cum. (Apr'18-Jun'18) in MU
Export to NEPAL by Bihar (NBPDC)	119.64	477.49
Export to NEPAL by NVVN	72.63	241.20

- **The total energy exchange between India & Bangladesh was:**

Export	During Jun,2018(In MU)	Cum. (Apr'18- Jun'18) in MU
Exchange between India & Bangladesh	326.04	876.43

- **Export(+)/Import(-) Scenario:**

Region	Max. Export of Power ER (MW)	Max. Import of Power by ER (MW)	Net Export of Energy (MU)
NR	4696	0	1957.71
WR	0	3607	-1439.13
SR	2243	356	661.64
NER	1184	448	270.69

SALIENT FEATURES

(YEAR TO YEAR COMPARISON)

		Jun-18		JUNE-2017	CHANGE	% CHANGE
1)	Effective Capacity (end of the Month)					
	THERMAL (MW)	27205		28855	-1650	-5.72
	HYDRO (MW)	5876	\$	5754	122	2
	DIESEL (MW)	0		7	-7	0
	SOLAR (MW)	886		10	0	0
	TOTAL (MW)	33967		34626	-659	-1.90
2)	Peak Demand (MW)	22964		19047	3917	20.57
3)	Peak Demand Met (MW)	22080		18994	3086	16.25
4)	Shortage (MW)	884		53	831	1568.39
5)	% Shortage	3.85		0.28	3.57	1275.20
6)	Average Energy Requirement Per Day (MU)	441.13		401.43	39.70	9.89
7)	Average Energy Availability Per Day (MU)	437.39		398.64	38.75	9.72
8)	Average Shortage Per Day (MU)	3.74		2.79	0.95	34.02
9)	% Shortage	0.85		0.70	0.15	21.09
10)	Net Generation for the Month					
	Thermal (MU)	11925.37		11278.61	646.76	5.73
	Hydro (MU)	2479.39	*	2407.83	71.56	2.97
	Diesel (MU)	0.00		0.00	0.00	-
	Total (MU)	14430.00		13686.44	743.56	5.43
11)	Generation at the Time of Max. Regional Demand Met (18-06-18 at 21.00 Hrs.)					
	Thermal (MW)	16866		16710	156	0.93
	Hydro (MW)	4857	*	4302	555	12.90
	Diesel (MW)	0		0	0	-
	Total (MW)	21723		21012	711	3.38
12)	Inter-Regional Energy Transfer					
	Export (MU)	3355.41		3082.93	272.48	8.84
	Import (MU)	1439.13		686.03	753.10	109.78
	Net Exp.(+)/Net Imp.(-) (MU)	1916.28		2396.90	-480.62	-20.05
13)	Import From Captive(MU)	607.95		601.661	6.29	1.05
14)	Peak Inter Regional Power Transfer					
	Max Export (MW) on 25-06-18 at 07.00Hrs	7098		5900	1198	20.30
	Max Import (MW) on 10-06-18 at 03.00Hrs	3607		2851	756	26.52
	Max Net Export(+)/Import (-) (MW)	6010		5330	680	12.75
15)	Maximum voltage recorded	426		JEYPORE	400 kv	s/s
16)	Minimum voltage recorded	376		JEERAT	400 kv	s/s

\$ Excludes 1323 MW contribution from HEPs of Bhutan

* Includes contribution from HEP of Bhutan (Chukha, Kurichhu & Tala)

POWER SUPPLY POSITION FOR THE MONTH OF JUNE-2018

A) Net Average Energy Per Day

System	Demand Met (MU/Day)	Requirement (MU/Day)	Shortage (MU/Day)	% Shortage
BSPHCL	91.45	93.92	2.46	2.62
JUVNL	23.40	23.56	0.16	0.68
DVC	62.62	62.85	0.23	0.36
ODISHA	94.94	95.05	0.10	0.11
WBSEDCL	121.82	122.56	0.74	0.60
CESC	35.48	35.52	0.04	0.11
DPL	6.30	6.31	0.01	0.11
SIKKIM	1.36	1.36	0.00	0.11
REGION	437.39	441.13	3.74	0.85

B) Peak Demand in MW:

System	Demand Met (MW)	Requirement (MW)	Shortage (MW)	% Shortage
BSPHCL	4851	4958	107	2.15
JUVNL	1222	1224	2	0.13
DVC	2901	2907	6	0.22
ODISHA	4684	4708	23	0.50
WBSEDCL	6449	6469	20	0.30
CESC	2120	2122	2	0.1
DPL	287	288	1	0.24
SIKKIM	83	83	0	0.00
REGION	22080	22964	884	4

➤ **DIVERSITY FACTOR** **1.02**

➤ **Regional Peak Demand Met on 18-6-2018 at 21.00 hrs. at 49.92 Hz.**

POWER SUPPLY POSITION IN EASTERN REGION DURING THE YEAR AS COMPARED TO PREVIOUS YEAR

A) Net Average Energy

Month	2017-18					2018-19				
	Demand Met	Requirement	Shortage	Shortage	Avg. Freq.	Demand Met	Requirement	Shortage	Shortage	Avg. Freq.
	(MU/Day)	(MU/Day)	(MU/Day)	(%)	(HZ)	(MU/Day)	(MU/Day)	(MU/Day)	(%)	(HZ)
APRIL	394.05	397.91	3.86	0.97	49.98	393.59	396.98	3.39	0.85	49.96
MAY	389.99	394.80	4.81	1.22	49.98	420.52	425.36	4.84	1.14	49.94
JUNE	398.64	401.43	2.79	0.70	49.99	437.39	441.13	3.74	0.85	49.97
JULY	381.05	383.05	2.00	0.52	49.98	-	-	-	-	-
AUGUST	394.80	396.81	2.01	0.51	49.98	-	-	-	-	-
SEPTEMBER	418.67	420.99	2.32	0.55	49.97	-	-	-	-	-
OCTOBER	390.86	393.65	2.79	0.71	49.96	-	-	-	-	-
NOVEMBER	332.17	336.69	4.53	1.34	49.96	-	-	-	-	-
DECEMBER	329.55	331.98	2.43	0.73	49.98	-	-	-	-	-
JANUARY	353.94	356.68	2.74	0.77	49.98	-	-	-	-	-
FEBRUARY	361.36	364.11	2.75	0.76	49.98	-	-	-	-	-
MARCH	393.97	396.42	2.45	0.62	49.97	-	-	-	-	-

B) Peak in MW:

Month	2017-18					2018-19				
	Demand Met	Requirement	Shortage	Shortage	Avg. Freq.	Demand Met	Requirement	Shortage	Shortage	Avg. Freq.
	(MW)	(MW)	(MW)	(%)	(HZ)	(MW)	(MW)	(MW)	(%)	(HZ)
APRIL	19164	19387	224	1.15	49.98	21058	21128	70	0.33	49.96
MAY	19509	19664	155	0.79	49.98	21902	22012	111	0.50	49.94
JUNE	18994	19047	53	0.28	49.99	22080	22964	884	3.85	49.97
JULY	19110	19200	91	0.47	49.98	-	-	-	-	-
AUGUST	19221	19514	293	1.50	49.98	-	-	-	-	-
SEPTEMBER	20283	20670	387	1.87	49.97	-	-	-	-	-
OCTOBER	19882	19966	84	0.42	49.96	-	-	-	-	-
NOVEMBER	18377	18866	489	2.66	49.96	-	-	-	-	-
DECEMBER	17837	18195	358	2.01	49.98	-	-	-	-	-
JANUARY	18238	18508	270	1.48	49.98	-	-	-	-	-
FEBRUARY	18918	19196	278	1.47	49.98	-	-	-	-	-
MARCH	20567	20951	384	1.87	49.97	-	-	-	-	-

ENTITLEMENT, DRAWAL SCHEDULE (EX. BUS) AND ACTUAL DRAWAL FROM CENTRAL SECTOR GENERATION .

All figures are in MU

	FROM	Cumulative from		01-Apr-18 to		31/Mar/19	During June-18				
		ENTITLEMENT (EX-BUS)	DRAWAL SCHEDULE (EX-BUS)	BILATERAL [EXPORT(-) / IMPORT(+)] (EX-SELLER BUS)	NET DRAWAL SCHEDULE (AFTER LOSS)	ACTUAL DRAWAL FROM GRID	ENTITLEMENT (EX-BUS)	DRAWAL SCHEDULE (EX-BUS)	BILATERAL [EXPORT(-) / IMPORT(+)] (EX-SELLER BUS)	NET DRAWAL SCHEDULE (AFTER LOSS)	ACTUAL DRAWAL FROM GRID
BSPHCL	FARAKKA STPS I	751.75	692.81				317.65	282.66			
	FARAKKA STPS III	243.17	219.58				69.99	61.39			
	KAHALGAON STPS I	657.20	543.54				212.10	182.08			
	KAHALGAON STPS II	126.37	129.72				38.17	40.36			
	TALCHER STPS I	773.83	768.06				244.85	244.74			
	MTPS-II	357.87	342.25				70.48	69.92			
	BRBCL	48.12	42.84				15.20	15.20			
	Rly BRBCL	28.09	22.75				20.73	17.33			
	BARH STPS II	1869.11	1754.93				648.21	595.03			
	RANGIT HEP	28.83	145.60				13.79	130.55			
	CHUKHA HEP	54.98	96.37				34.30	52.99			
	KIRUCHHU HEP	0.00	0.00				0.00	0.00			
	TALA HPS	153.06	115.71				94.57	74.38			
	TEESTA HEP	158.41	158.41				73.04	73.04			
	TOTAL	5250.80	5032.56	2698.58	7553.60	7484.30	1853.10	1839.67	945.10	2635.57	2607.31
JUVNL	FARAKKA STPS I	205.28	183.14				86.746	73.899			
	FARAKKA STPS III	154.22	115.43				44.735	29.840			
	KAHALGAON STPS I	50.25	58.09				16.213	16.252			
	KAHALGAON STPS II	31.69	54.28				9.570	12.472			
	TALCHER STPS I	143.84	140.60				45.511	44.868			
	MTPS-II	16.38	17.67				3.227	3.227			
	BARH STPS II	174.04	147.67				60.359	50.928			
	RANGIT HEP	10.99	10.99				5.252	5.252			
	CHUKHA HEP	19.93	34.93				12.432	19.206			
	KIRUCHHU HEP	0.00	0.00				0.000	0.000			
	TALA HPS	68.79	42.00				42.502	23.427			
	TEESTA HEP	91.94	91.94				42.396	42.396			
	TOTAL	967.35	896.73	455.56	1541.32	1602.12	368.94	321.77	144.47	529.11	547.68
DVC	FARAKKA STPS I	16.79	0.00				0.00	0.00			
	FARAKKA STPS III	41.53	56.60				16.79	15.53			
	KAHALGAON STPS I	0.00	0.00				0.00	0.00			
	KAHALGAON STPS II	1.84	0.00				0.00	0.00			
	TALCHER STPS I	6.42	5.54				1.84	1.61			
	MTPS-II	41.06	12.17				2.44	2.34			
	BRBCL	97.10	106.53				31.10	31.07			
	RANGIT HEP	16.30	8.24				3.94	3.94			
	CHUKHA HEP	16.29	33.73				12.00	18.54			
	KIRUCHHU HEP	24.54	8.94				9.05	6.36			
	TALA HPS	42.39	25.14				20.55	16.16			
	TEESTA HEP	162.09	64.38				29.68	29.68			
	TOTAL	338.95	321.26	-4440.61	-4151.80	-4070.52	127.39	125.23	-1197.94	-1078.98	-1058.64
GRIDCO	FARAKKA STPS I	339.58	337.79				143.50	148.61			
	FARAKKA STPS III	157.26	150.62				45.27	46.14			
	KAHALGAON STPS I	247.68	234.43				79.93	84.22			
	KAHALGAON STPS II	66.50	89.47				20.09	34.48			
	TALCHER STPS (Stg-I)	611.19	604.07				196.38	188.88			
	TALCHER STPS (Stg-II)	0.00	0.00				0.00	0.00			
	MTPS-II	40.70	6.19				8.02	4.30			
	BARH STPS II	361.01	289.68				125.20	129.08			
	RANGIT HEP	0.00	0.00				0.00	0.00			
	CHUKHA HEP	67.48	49.40				17.58	27.16			
	KIRUCHHU HEP	0.00	0.00				0.00	0.00			
	TALA HPS	25.51	19.28				15.76	12.40			
	TEESTA HEP	153.41	153.41				70.74	70.74			
	TOTAL	2070.33	1934.35	1329.12	3217.49	3456.34	722.46	745.99	589.24	1303.92	1416.22
WBSEDCL	FARAKKA STPS I	753.20	703.61				318.27	299.25			
	FARAKKA STPS III	295.25	259.42				84.99	73.62			
	KAHALGAON STPS I	14.43	14.93				4.66	3.79			
	KAHALGAON STPS II	23.33	32.39				7.04	5.90			
	TALCHER STPS I	187.98	178.08				59.48	58.59			
	MTPS-II	45.99	35.47				9.06	8.57			
	RANGIT HEP	23.36	21.22				11.17	11.17			
	CHUKHA HEP	59.09	103.59				36.87	56.96			
	KIRUCHHU HEP	3.99	8.94				0.00	6.36			
	TALA HPS	229.59	173.56				141.86	111.57			
	TEESTA HEP	178.68	178.68				82.39	82.39			
	TOTAL	1814.88	1709.87	2197.28	3897.87	4052.35	755.77	718.15	793.62	1505.09	1580.97
SIKKIM	FARAKKA STPS I	39.02	37.90				16.49	15.53			
	FARAKKA STPS III	0.00	0.00				0.00	0.00			
	KAHALGAON STPS I	24.33	24.18				7.85	7.70			
	KAHALGAON STPS II	8.38	8.38				2.53	2.53			
	TALCHER STPS I	45.03	45.03				14.25	14.25			
	MTPS-II	2.65	2.61				0.52	0.52			
	BARH STPS II	32.39	31.70				11.23	10.55			
	RANGIT HEP	10.99	10.99				5.25	5.25			
	CHUKHA HEP	4.12	7.22				2.57	3.97			
	KIRUCHHU HEP	0.00	0.00				0.00	0.00			
	TEESTA HEP	98.28	98.28				45.32	45.32			
	TOTAL	265.19	266.28	-130.48	126.78	117.56	106.01	105.61	-62.30	39.62	37.11
WR	FARAKKA STPS I	0.00	0.00				0.00	0.00			
	KAHALGAON STPS I	0.00	0.00				0.00	0.00			
	KAHALGAON STPS II	-673.22	-621.35				-203.34	-178.02			
	TALCHER STPS I	0.00	0.00				0.00	0.00			
	BARH STPS II	0.00	0.00				0.00	0.00			
	BRBCL	-233.96	-174.39				-69.89	-62.70			
	TOTAL	-907.18	-795.74	645.87	400.51	2984.98	-273.23	-240.71	445.45	412.16	1439.13
SR	FARAKKA STPS I	-48.87	-37.10				-20.65	-19.43			
	FARAKKA STPS III	-6.73	-7.03				-1.94	-2.13			
	KAHALGAON STPS I	-21.70	-23.14				-7.00	-6.97			
	KAHALGAON STPS II	-19.37	-17.64				-5.85	-4.84			
	TALCHER STPS STG-I	-29.33	-28.94				-9.28	-9.17			
	MTPS-II	-1.33	-1.23				-0.26	-0.23			
	BARH STPS II	-16.59	-15.87				-5.75	-5.66			
	TOTAL	-143.92	-125.79	-870.47	-69.44	-1530.01	-50.74	-48.44	231.74	590.11	661.64
NR	FARAKKA STPS I	-169.75	-143.16				-71.73	-55.68			
	KAHALGAON STPS I	-487.03	-386.26				-157.18	-119.84			
	KAHALGAON STPS II	-1423.34	-1115.36				-429.90	-337.50			
	TALCHER STPS I	0.00	0.00				0.00	0.00			
	BRBCL	-40.77	-41.14				-14.51	-15.11			
	TALA HPS	-90.04	-68.06				-55.63	-43.75			
	TOTAL	-2210.93	-1753.97	-4399.29	-6423.14	-5346.10	-728.96	-571.89	-2264.49	-2688.23	-1957.71
WR+SR+NR (GRAND TOTAL)		-3262.02	-2675.50	-4623.90	-6092.07	-3891.12	-1052.92	-861.04	-1587.30	-1685.95	143.06
NER	FARAKKA STPS I	-79.26	-60.98				-33.50	-25.16			
	FARAKKA STPS III	-0.84	-1.03				-0.24	-0.45			
	KAHALGAON STPS I	-46.39	-43.55				-14.97	-13.51			
	KAHALGAON STPS II	-131.58	-104.55				-39.74	-31.81			
	TALCHER STPS I	-55.37	-52.99				-17.52	-16.14			
TOTAL		-313.44	-263.11	100.53	-113.07	-589.46	-105.97	-87.08	87.81	-14.34	-270.69

ORGANI- SATION	TYPE	POWER STATION	INSTALLED CAPACITY	EFFECTIVE CAPACITY	Gross Energy Generation	Net Energy Generation	Cummulative Gross Energy Generation upto Current Month (2018-19) in MU	Cummulative Net Energy Generation upto Current Month (2018-19) in MU	
BIHAR	Thermal	Barauni (U# 6&7)	220.00	210.00	0.00	0.00	44.86	39.47	
		Muzaffarpur Stg-I	220.00	220.00	63.63	54.92	127.61	109.91	
		Thermal Total	440.00	430.00	63.63	54.92	172.47	149.38	
	RES		327.40	327.40	12.21	12.21	49.22	49.22	
		Total BIHAR	767.40	757.40	75.84	67.13	221.69	198.60	
JHARKHAND									
TVNL	Thermal	TVNL	420.00	420.00	108.08	91.13	419.90	358.34	
JSEB	Hydro	Subarnrekha (U#1,2)	130.00	130.00	0.00	0.00	2.48	2.48	
	RES		29.72	29.72	0.00	0.00	0.00	0.00	
	Total		159.72	159.72	0.00	0.00	2.48	2.48	
DVC	Thermal	Bokaro-B(3)	210.00	210.00	84.50	74.72	185.71	163.36	
		Chandrapura (3)	140.00	130.00	0.00	0.00	0.00	0.00	
		Chandrapura(U7 # 8)	500.00	500.00	338.84	307.77	901.34	818.31	
		Durgapur(4)	210.00	210.00	113.79	100.27	288.04	252.56	
		Mezia(1,2,3,4,5,6)	1340.00	1340.00	474.95	423.08	1565.37	1401.72	
		Mezia(U # 7,8)	1000.00	1000.00	571.09	542.58	1756.74	1669.61	
		Bokaro-A(1,2)	500.00	500.00	282.79	265.73	988.74	935.43	
		Durgapur STPS (U#1,2)	1000.00	1000.00	583.57	556.12	1886.24	1796.99	
		Raghunathpur TPS (U#1,2)	1200.00	1200.00	144.08	131.85	796.21	741.48	
		Koderma STPS (U#1,2)	1000.00	1000.00	547.47	519.89	1971.51	1880.24	
	Total Thermal		7100.00	7090.00	3141.08	2922.01	10339.89	9659.72	
	6.273	Hydro	Maithon (U#1,2,3)	63.20	63.20	2.12	2.08	27.60	27.47
			Panchet (U#1,2)	80.00	80.00	4.15	4.09	6.46	6.28
			Tilaya (U#1,2)	4.00	4.00	0.00	-0.01	0.0010	-0.02
			Hydro Total		147.20	147.20	6.27	6.16	34.06
Total DVC				7247.20	7237.20	3147.35	2928.18	10373.94	9693.44
WEST BENGAL									
WBPDCL	Thermal	Bandel TPS	540.00	450.00	142.50	126.97	439.81	392.37	
		Santalidih TPS(U#5&6)	500.00	500.00	321.67	294.31	993.64	911.88	
		Kolaghat TPS	1260.00	1260.00	378.87	334.57	1203.97	1064.78	
		Bakreswar TPP	1050.00	1050.00	594.16	539.18	1957.91	1778.10	
		Sagardighi TPP	1600.00	1600.00	526.92	473.57	1548.35	1391.29	
		Thermal Total	4950.00	4860.00	1964.12	1768.59	6143.68	5538.43	
WBSEDCL	Hydro	Jaldhaka (3x9+2x4)	35.00	35.00	24.04	24.04	59.27	59.27	
		Ramam (4x12.73)	51.00	51.00	20.70	20.70	47.24	47.24	
		Teesta C.F. (3x3x7.3)	67.30	67.30	10.94	10.94	32.73	32.73	
		Purulia PSS (4x225)	900.00	900.00	85.92	85.92	228.99	228.99	
		Total Hydro	1053.30	1053.30	141.60	141.60	368.23	368.23	
		RES	282.52	282.52	0.48	0.48	1.65	1.65	
DPL	Thermal	DPPS (110+300+250 *)	660.00	660.00	255.97	227.33	780.04	697.84	
	➤	Chandrapura #1 is retired on 17.01.17							
	➤	Patratu # 1,2,3,5,8 are retired on 21.12.16							

ORGANI- SATION	TYPE	POWER STATION	INSTALLED CAPACITY (in MW)	EFFECTIVE CAPACITY (in MW)	Gross Energy Generation in MU	Net Energy Generation in MU	Cummulative Gross Energy Generation upto Current Month (2017-18) in MU	Cummulative Net Energy Generation upto Current Month (2017-18) in MU
CESEC	Thermal	Titagarh (4x60)	240.00	240.00	0.00	0.00	0.00	0.00
		Southern (2x67.5)	135.00	135.00	29.46	26.60	108.75	98.45
		Budge-Budge (3x250)	750.00	750.00	535.36	493.57	1599.81	1475.56
		Total CESC	1125.00	1125.00	564.83	520.17	1708.57	1574.01
HEL	Thermal	HEL	600.00	600.00	392.23	361.78	1212.84	1119.79
		Total West Bengal	8670.82	8580.82	3319.23	3019.95	10215.01	9299.95
ODISHA (NTPC)	Thermal	Talcher-I	250.00	240.00	161.92	144.61	515.02	462.48
		Talcher-II	220.00	220.00	135.01	120.58	451.09	403.05
		Total Thermal	470.00	460.00	296.92	265.19	966.11	865.53
OPGC	Thermal	IB TPS	420.00	420.00	248.04	220.63	801.09	714.56
OHPC	Hydro	Hirakud-I (Burla)	275.50	275.50	41.44	41.22	91.83	91.15
		Hirakud-II (Chiplima)	72.00	72.00	23.10	23.01	60.85	60.63
		Balimela (6x60+2x75)	510.00	510.00	160.37	159.88	482.96	481.53
		Rengali (5x50)	250.00	250.00	41.51	41.41	164.81	164.49
		Upper Kolab (4x80)	320.00	320.00	62.26	62.15	182.83	182.34
		Indravati HPS (4x150)	600.00	600.00	138.01	135.13	452.90	443.89
		Mckd.(Odisha drawal)	57.38	57.38	19.69	19.69	60.73	60.73
		Total Hydro	2084.88	2084.88	486.38	482.47	1496.91	1484.75
		RES	184.30	184.30	11.90	11.90	39.39	39.39
		Total Odisha	3159.18	3149.18	1043.23	980.18	3303.50	3104.22
(**) SIKKIM	Hydro	RES	52.11	52.11	3.00	3.00	9.00	9.00
NTPC		MTPS Stg-II	390.00	390.00	97.96	84.38	460.64	405.52
		FSTPP# I&II (3x200+2x500)	1600.00	1600.00	994.02	925.03	2411.88	2231.18
		FSTPP (U# 6)	500.00	500.00	248.64	233.06	885.97	826.19
		KhSTPP (4x210+3x500)	2340.00	2340.00	1220.17	1124.63	3987.39	3693.23
		TSTPP (2x500)	1000.00	1000.00	641.71	590.05	2021.12	1862.83
		BARH STPS II (2X660)	1320.00	1320.00	841.29	792.92	2455.03	2320.63
		Total NTPC	7150.00	7150.00	4043.79	3750.07	12222.03	11339.58
NHPC	HYDRO	Rangit (3x20)	60.00	60.00	40.63	40.63	86.89	86.89
		Teesta (3x170)	510.00	510.00	348.99	348.99	776.23	776.23
		TLDP -(4x33+4x40)	292.00	292.00	168.45	168.45	329.25	329.25
		Total NHPC	862.00	862.00	558.07	558.07	1192.37	1192.37
IPP		MPL (U#1&2)	1050.00	1050.00	635.35	600.91	1944.21	1839.26
IPP		APNRL (U#1,2)	540.00	540.00	290.29	265.78	844.18	774.13
		GMR (2x350)	700.00	700.00	414.29	390.47	1268.81	1195.85
		JITPL (2X600)	1200.00	1200.00	363.76	338.60	1265.89	1178.58
		BRBCL # I,2	500.00	500.00	161.00	147.80	452.17	414.54
		CHUZACHEN** (2x55)	110.00	110.00	56.56	56.56	124.81	124.81
		JORETHANG (2x48)	96.00	96.00	52.55	52.55	90.52	90.52
		TEESTA URJA St III (6x200)	1200.00	1200.00	574.08	574.08	1181.68	1181.68
		Tashilding (2x48.5)	97.00	97.00	47.82	47.82	86.60	86.60
		DICKCHU (3X32)	96.00	96.00	66.42	66.42	154.13	154.13
		TALCHER SOLAR	10.00	10.00	1.13	1.13	3.90	3.90
		Total Thermal (E.R)	27325.00	27205.00	12943.37	11925.37	40541.88	37419.54
EASTERN REGIONAL		Total Hydro (E.R)	5876.38	5876.38	1989.74	1985.72	4734.77	4722.28
		Total RES	886.05	886.05	28.72	28.72	100.16	100.16
		TOTAL (E.R)	34087.43	33967.43	14961.83	13939.82	45376.80	42241.97
BHUTAN	Hydro	CHPC(4x90)	360.00	270.00	158.78	158.78	298.25	298.25
	Hydro	Kurichu (4x15)	60.00	60.00	42.99	42.99	72.79	72.79
	Hydro	TALA (6x170)	1020.00	1020.00	263.57	263.57	429.37	429.37
	Hydro	DAGACHU (2x63)	126.00	126.00	25.34	25.34	47.76	47.76
		Grand Total	35653.43	35443.43	15452.50	14430.49	46224.98	43090.15

PLANT LOAD FACTOR (PLF) OF THERMAL POWER STATIONS IN EASTERN REGION DURING THE MONTH OF JUNE-2018

ORGANI- SATION	TYPE	POWER STATION	INSTALLED CAPACITY (in MW)	EFFECTIVE CAPACITY (in MW)	Gross Energy Generation in MU	PLF of Current Month (%)	Cummulative Gross Energy Generation upto Current Month (2018-19) in MU	Cummulative PLF upto Current Month (%)	
BIHAR	Thermal	Barauni (U# 6&7)	220.00	210.00	0.00	0.00	44.86	9.78	
		Muzaffarpur Stg-I	220.00	220.00	63.63	40.17	127.61	26.56	
		Thermal Total	440.00	430.00	63.63	20.55	172.47	18.37	
	RES				12.21		49.22		
	Total BIHAR		767.40	757.40	75.84		221.69		
JHARKHAND									
TVNL	Thermal	TVNL	420.00	420.00	108.08	35.74	419.90	45.78	
JSEB	Hydro	Subarnrekha (U#1,2)	130.00	130.00	0.00		2.48		
	RES		29.72	29.72	0.00		0.00		
	Total		159.72	159.72	0.00		2.48		
DVC	Thermal	Bokaro-B(3)	210.00	210.00	84.50	55.89	185.71	40.49	
		Chandrapura (3)	140.00	130.00	0.00	0.00	0.00	0.00	
		Chandrapura(U7 # 8)	500.00	500.00	338.84	94.12	901.34	82.54	
		Durgapur(4)	210.00	210.00	113.79	75.26	288.04	62.80	
		Mezia(1,2,3,4,5,6)	1340.00	1340.00	474.95	49.23	1565.37	53.49	
		Mezia(U # 7,8)	1000.00	1000.00	571.09	79.32	1756.74	80.44	
		Bokaro-A(1,2)	500.00	500.00	282.79	78.55	988.74	90.54	
		Durgapur STPS (U#1,2)	1000.00	1000.00	583.57	81.05	1886.24	86.37	
		Raghunathpur TPS (U#1,2)	1200.00	1200.00	144.08	16.68	796.21	30.38	
		Koderma STPS (U#1,2)	1000.00	1000.00	547.47	76.04	1971.51	90.27	
	Total Thermal		7100.00	7090.00	3141.08	61.53	10339.89	66.78	
	Hydro	Maithon (U#1,2,3)	63.20	63.20	2.12		27.60		
		Panchet (U#1,2)	80.00	80.00	4.15		6.46		
		Tilaya (U#1,2)	4.00	4.00	0.00		0.00		
		Hydro Total		147.20	147.20	6.27		34.06	
		Total DVC		7247.20	7237.20	3147.35		10373.94	
WEST BENGAL									
WBPDC	Thermal	Bandel TPS	540.00	450.00	142.50	43.98	439.81	44.75	
		Santalidih TPS(U#5&6)	500.00	500.00	321.67	89.35	993.64	90.99	
		Kolaghat TPS	1260.00	1260.00	378.87	41.76	1203.97	43.75	
		Bakreswar TPP	1050.00	1050.00	594.16	78.59	1957.91	85.38	
		Sagardighi TPP	1600.00	1600.00	526.92	45.74	1548.35	44.31	
		Thermal Total	4950.00	4860.00	1964.12	56.13	6143.68	57.88	
WBSEDCL	Hydro	Jaldhaka (3x9+2x4)	35.00	35.00	24.04		59.27		
		Ramam (4x12.73)	51.00	51.00	20.70		47.24		
		Teesta C.F. (3x3x7.3)	67.30	67.30	10.94		32.73		
		Purulia PSS (4x225)	900.00	900.00	85.92		228.99		
		Total Hydro	1053.30	1053.30	141.60		368.23		
		RES	282.52	282.52	0.48		1.65		
	TLDP -(4x33+4x40)	292.00	292.00	168.45		329.25			
DPL	Thermal	DPPS (110+300+250 *)	660.00	660.00	255.97	53.87	780.04	54.12	

ORGANI- SATION	TYPE	POWER STATION	INSTALLED CAPACITY	EFFECTIVE CAPACITY	Gross Energy Generation in MU	PLF of Current Month (%)	Cummulative Gross Energy Generation upto Current Month (2017-18) in MU	Cummulative PLF upto Current Month (%)
			(in MW)	(in MW)				
CESC	Thermal	Titagarh (4x60)	240.00	240.00	0.00	0.00	0.00	0.00
		Southern (2x67.5)	135.00	135.00	29.46	30.31	108.75	36.89
		Budge-Budge (3x250)	750.00	750.00	535.36	99.14	1599.81	97.67
		Total CESC	1125.00	1125.00	564.83	69.73	1708.57	69.54
HEL	Thermal		600.00	600.00	392.23	90.79	1212.84	92.55
		Total West Bengal	8670.82	8580.82	3319.23		10215.01	
ODISHA (NTPC)	Thermal	Talcher-I	250.00	240.00	161.92	93.70	515.02	98.26
		Talcher-II	220.00	220.00	135.01	85.23	451.09	93.88
		Total Thermal	470.00	460.00	296.92	89.65	966.11	96.16
OPGC	Thermal	IB TPS	420.00	420.00	248.04	82.02	801.09	87.33
OHPC	Hydro	Hirakud-I (Burla)	275.50	275.50	41.44		91.83	
		Hirakud-II (Chiplima)	72.00	72.00	23.10		60.85	
		Balimela (6x60+2x75)	510.00	510.00	160.37		482.96	
		Rengali (5x50)	250.00	250.00	41.51		164.81	
		Upper Kolab (4x80)	320.00	320.00	62.26		182.83	
		Indravati HPS (4x150)	600.00	600.00	138.01		452.90	
		Mckd.(Odisha drawal)	57.38	57.38	19.69		60.73	
		Total Hydro	2084.88	2084.88	486.38		1496.91	
		RES	184.30	184.30	11.90		39.39	
		Total Odisha	3159.18	3149.18	1043.23		3303.50	
(**) SIKKIM	Hydro	RES	52.11	52.11	3.00		9.00	
NTPC		MTPS Stg-II	390	390	97.96	34.89	460.6367	54.08
		FSTPP# I&II (3x200+2x500)	1600.00	1600.00	994.02	86.29	2411.88	69.02
		FSTPP (U# 6)	500.00	500.00	248.64	69.07	885.97	81.13
		KhSTPP (4x210+3x500)	2340.00	2340.00	1220.17	72.42	3987.39	78.02
		TSTPP (2x500)	1000.00	1000.00	641.71	89.13	2021.12	92.54
		BARH STPS II (2X660)	1320.00	1320.00	841.29	88.52	2455.03	85.16
		Total NTPC	7150.00	7150.00	4043.79	78.55	12222.03	78.27
NHPC	HYDRO	Rangit (3x20)	60.00	60.00	40.63		86.89	
		Teesta (3x170)	510.00	510.00	348.99		776.23	
		TLDP -(4x33+4x40)	292.00	292.00	168.45		329.25	
		Total NHPC	862.00	862.00	558.07		1192.37	
IPP	Thermal	MPL (U#1&2)	1050.00	1050.00	635.35	84.04	1944.21	84.78
IPP		APNRL (U#1,2)	540.00	540.00	290.29	74.66	844.18	71.58
		GMR (2x350)	700.00	700.00	414.29	82.20	1268.81	82.99
		JITPL (2X600)	1200.00	1200.00	363.76	42.10	1265.89	48.30
		BRBCL # 1,2	500.00	500.00	161.00	44.72	452.17	41.41
		CHUZACHEN** (2x55)	110.00	110.00	56.56		124.81	
		JORETHANG (2x48)	96.00	96.00	52.55		90.52	
		TEESTA URJA St III (6x200)	1200.00	1200.00	574.08		1181.68	
		Tashilding (2x48.5)	97.00	97.00	47.82		86.60	
		DICKCHU (3X32)	96.00	96.00	66.42		154.13	
		TALCHER SOLAR	10.00	10.00	1.13		3.90	
		Total Thermal (E.R)	27325.00	27205.00	12943.37	66.08	40541.88	68.23
EASTERN REGIONAL		Total Hydro (E.R)	5876.38	5876.38	1989.74		4734.77	
		Total RES	886.05	886.05	28.72		100.16	
		TOTAL (E.R)	34087.43	33967.43	14961.83		45376.80	
BHUTAN	Hydro	CHPC(4x90)	360.00	270.00	158.78		298.25	
	Hydro	Kurichu (4x15)	60.00	60.00	42.99		72.79	
	Hydro	TALA (6x170)	1020.00	1020.00	263.57		429.37	
	Hydro	DAGACHU (2x63)	126.00	126.00	25.34		47.76	
		Grand Total	35653.43	35443.43	15452.50		46224.98	

➤ On calculation of Eastern Regional PLF, Installed Capacity of IPPs as well as their generations (MU) including infirm generation of various units have not been considered.

CONTRIBUTIONS OF DIFFERENT CONSTITUENTS AT THE TIME OF REGIONAL PEAK
DURING THE MONTH OF JUNE-2018 (18-6-2018)

Date 18-Jun-18
Time 21.00 Hrs.
Frequency 49.92 Hz.

(All Fig. in MW)

System/State	Installed Capacity	Effective Capacity	Hydro	Thermal	Total
BSPHCL	767	757	0	70	70
JUVNL	580	580	0	137	137
DVC	7247	7237	30	3588	3618
ODISHA	3159	3149	1207	749	1956
WBSEDCL	6286	6196	667	2246	2913
TLDP	292	292	289	0	289
HEL HALDIA	600	600	0	539	539
CESC	1125	1125	0	845	845
DPL	660	660	0	328	328
SIKKIM	52	52	0	0	0
NTPC	7150	7150	0	5787	5787
NHPC	570	570	578	0	578
CHUKHA	360	270	346	0	346
KURICHU	60	60	72	0	72
TALA	1020	1020	574	0	574
MPL	1050	1050	0	848	848
SEL	0	0	0	0	0
APNRL	540	540	0	495	495
Kamalganga (GMR)	700	700	0	655	655
JITPL	1200	1200	0	400	400
BRBCL	500	500	0	181	0
Chuzachen	110	110	0	0	0
Jorethang	96	96	97	0	97
TEESTA URJA St III	1200	1200	782	0	782
Tashilding	97	97	71	0	71
DICKCHU	96	96	101	0	101
<u>Daghachu</u>	126	126	45	0	45
<u>Solar</u>	10	10	0	0	0
<u>Diseal</u>	0	0	0	0	0
<u>Total</u>	35653	35443	4857	16866	21723
Import From Captive:					852
Export To:					
NER					820
SR					762
WR					-2688
NR					1001.93
Bangladesh					498.91
Nepal					99.72
Total					495

➤ I Net Peak Demand Met (MW) :

22080

Indicates Export(+)/Import(-) of Power

Hourly Load Generation Data OF ER On Regional Peak Day During The Month of JUNE-2018 (18-6-2018)

(All Figures in MW)

Generation				Import	Net	Net	Demand	Freq.	Load	
Hrs.	Hydro	Thermal	Total	from Captive	Import From CHPS, KHPS & TALA	Export to other region	Met	Correction	Shed	Requirement
1	3591	15767	19358	879	1044	839	20443	47	67	20557
2	3282	15491	18773	888	983	899	19744	48	190	19983
3	3220	15624	18844	780	960	1064	19520	61	108	19689
4	3153	15433	18586	771	930	1266	19021	32	18	19071
5	3144	15740	18884	814	938	2028	18608	85	234	18927
6	3056	15663	18719	799	902	3068	17352	49	414	17815
7	2852	15775	18627	855	904	3800	16586	54	349	16989
8	2631	15585	18216	791	904	2918	16995	0	351	17346
9	2620	15656	18276	785	912	2322	17655	-25	329	17960
10	2800	15864	18665	765	913	2338	18011	24	443	18477
11	2759	15600	18360	779	917	1842	18220	14	490	18724
12	2713	15756	18469	791	925	1678	18513	29	612	19154
13	2747	16012	18759	783	923	1520	18951	18	671	19641
14	2736	16239	18975	799	917	1141	19556	-5	715	20266
15	2901	16480	19381	813	924	1465	19659	45	599	20303
16	3250	16586	19836	920	928	1902	19786	17	651	20454
17	3002	16470	19472	934	915	2327	18996	48	1729	20773
18	2757	16464	19221	862	909	2684	18309	32	1275	19616
19	2858	16296	19155	873	993	1936	19086	23	1128	20237
20	3699	16707	20406	911	979	679	21616	59	869	22543
21	3865	16866	20731	852	992	495	22080	60	824	22964
22	3919	16813	20732	916	1011	708	21951	104	1169	23224
23	3860	16864	20724	871	974	919	21650	144	1162	22955
24	3914	16985	20899	863	973	963	21772	107	1249	23128

Hourly Load Generation Data of ER On Regional Lean Day During The Month of JUNE-2018 (26-6-2018)

(All Figures in MW)

Generation				Import	Net	Net	Demand	Freq.	Load	
Hrs.	Hydro	Thermal	Total	from Captive	Import From CHPS, KHPS & TALA	Export to other region	Met	Correction	Shed	Requirement
1	2949	17490	20439	507	551	3895	17602	9	55	17667
2	2979	17214	20193	495	570	4115	17143	19	65	17227
3	2907	17143	20050	490	525	4422	16643	0	67	16710
4	2843	16522	19365	483	788	4697	15939	-33	80	15986
5	2735	16186	18921	485	809	4813	15402	-11	93	15484
6	2648	16010	18658	510	863	5707	14324	-1	103	14426
7	2490	15522	18012	543	995	6010	13540	6	91	13637
8	2408	14972	17380	549	1037	5142	13824	-19	73	13877
9	2498	14699	17197	548	983	4575	14152	4	50	14207
10	2420	14743	17163	535	918	4021	14596	-11	41	14625
11	2478	15014	17493	699	864	3692	15366	-8	34	15392
12	2426	15055	17481	817	690	3160	15829	-7	36	15858
13	2442	15267	17710	839	645	2979	16218	3	16	16237
14	2482	15700	18182	859	707	3362	16392	16	16	16423
15	2428	16508	18936	846	692	3837	16640	3	17	16660
16	2482	16596	19077	837	689	3862	16742	9	15	16766
17	2463	16629	19092	831	645	3991	16577	16	130	16722
18	2537	16430	18967	838	660	4012	16454	7	98	16559
19	3274	16775	20049	868	690	3512	18094	14	109	18218
20	3543	17343	20886	912	702	2830	19671	62	108	19841
21	3586	17485	21070	937	710	2764	19954	3	103	20060
22	3589	17472	21060	938	722	2982	19738	47	363	20147
23	3404	17369	20773	913	711	3092	19305	14	358	19677
24	3413	17033	20446	865	666	3057	18920	2	343	19265

NOTIFIED POWER CUTS/RESTRICTIONS ON INDUSTRIES & POWER SUPPLY TO AGRICULTURE SECTOR
FOR THE MONTH OF JUNE-2018

POWER CUT / RESTRICTIONS

BSPHCL	NO NOTIFIED CUTS/RESTRICTIONS However there was loadshedding of 70.83 MU
JUVNL	NO NOTIFIED CUTS/RESTRICTIONS However there was loadshedding of 4.02 MU
DVC	NO NOTIFIED CUTS/RESTRICTIONS. However there was loadshedding of 4.79 MU
ODISHA	NO NOTIFIED CUTS/RESTRICTIONS However there was loadshedding of 0.00 MU
WEST BENGAL	NO NOTIFIED CUTS/RESTRICTIONS. However there was loadshedding of 18.18 MU

POWER SUPPLY TO AGRICULTURAL SECTOR

STATE	HOURS OF SUPPLY (AVERAGE / DAY)
BIHAR	18 HRS.00 MINS.
JHARKHAND	ABOUT 20 to 22 HRS.
ODISHA	24 HRS.
WEST BENGAL	23 HRS.

FREQUENCY DETAILS FOR THE MONTH OF

Jun-18

D A T E																		
	H O U R S										INST. FREQ.				15 MIN. INTEGRATED			
	00	05	10	17	22	00		49.9	>50.05	49.9								
	TO	TO	TO	TO	TO	TO	<49.9	TO		TO	MAX	HRS.	MIN	HRS.	MAX	HRS.	MIN	HRS.
	05	10	17	22	24	24		50.1	50.05		HZ			HZ	HZ			
01-Jun	49.98	50.01	49.98	50.03	49.96	49.99	5.40	73.20	21.40	73.20	50.21	17:01	49.68	14:16	50.12	0:00	49.76	0:00
02-Jun	50.01	49.99	50.00	49.98	49.96	49.99	2.50	82.70	14.80	82.70	50.12	12:02	49.85	14:13	50.07	0:00	49.91	0:00
03-Jun	50.01	50.05	50.00	49.98	49.98	50.00	2.70	75.00	22.20	75.00	50.22	8:44	49.77	19:51	50.17	0:00	49.83	0:00
04-Jun	49.97	49.97	49.93	49.95	49.86	49.94	18.30	77.50	4.10	77.50	50.10	13:02	49.67	14:18	50.05	0:00	49.78	0:00
05-Jun	49.95	49.97	49.95	49.96	50.01	49.96	12.80	80.60	6.60	80.60	50.12	6:01	49.77	15:29	50.07	0:00	49.85	0:00
06-Jun	50.00	50.00	49.97	49.92	49.93	49.97	14.40	74.80	10.80	74.80	50.12	5:01	49.74	22:11	50.06	0:00	49.80	0:00
07-Jun	50.00	50.00	49.95	49.91	49.90	49.96	16.10	77.80	6.10	77.80	50.11	13:02	49.70	22:12	50.06	0:00	49.80	0:00
08-Jun	49.98	50.01	49.99	49.97	49.98	49.99	1.50	88.30	10.20	88.30	50.12	5:02	49.85	11:19	50.08	0:00	49.92	0:00
09-Jun	50.00	50.02	50.02	49.98	49.97	50.00	2.10	77.90	20.00	77.90	50.21	17:31	49.85	19:25	50.12	0:00	49.91	0:00
10-Jun	49.99	50.06	50.00	49.97	49.98	50.00	3.60	75.10	21.30	75.10	50.20	8:14	49.74	15:13	50.15	0:00	49.84	0:00
11-Jun	49.99	50.00	49.99	49.99	49.98	49.99	1.04	89.93	9.03	89.93	50.18	13:05	49.84	17:20	50.15	0:00	49.88	0:00
12-Jun	50.00	50.03	49.98	49.94	49.96	49.98	5.80	80.40	13.80	80.40	50.24	7:58	49.79	19:17	50.17	0:00	49.87	0:00
13-Jun	49.98	50.01	49.97	49.91	49.90	49.96	13.90	75.60	10.50	75.60	50.20	13:03	49.71	22:16	50.11	0:00	49.79	0:00
14-Jun	49.95	49.97	49.92	49.89	49.87	49.93	24.90	72.10	3.00	72.10	50.11	8:02	49.67	20:22	50.09	0:00	49.77	0:00
15-Jun	49.92	50.00	49.97	49.95	49.93	49.96	13.40	77.50	9.10	77.50	50.13	13:01	49.80	19:36	50.09	0:00	49.83	0:00
16-Jun	49.98	50.00	49.98	50.00	49.94	49.98	4.60	82.40	13.00	82.40	50.22	18:03	49.80	0:07	50.10	0:00	49.87	0:00
17-Jun	49.99	50.03	50.01	49.96	49.96	50.00	2.80	76.80	20.40	76.80	50.17	12:02	49.67	21:10	50.13	0:00	49.87	0:00
18-Jun	49.92	49.97	49.96	49.93	49.84	49.94	24.40	68.70	6.90	68.70	50.12	19:02	49.59	22:29	50.06	0:00	49.76	0:00
19-Jun	49.94	49.95	49.94	49.90	49.80	49.92	33.30	61.10	5.60	61.10	50.15	12:02	49.65	22:20	50.04	0:00	49.69	0:00
20-Jun	49.90	49.94	49.92	49.90	49.78	49.90	41.20	56.40	2.40	56.40	50.11	13:08	49.72	22:34	50.04	0:00	49.72	0:00
21-Jun	49.89	49.93	49.96	49.92	49.90	49.93	33.10	62.00	4.90	62.00	50.12	16:24	49.77	2:14	50.05	0:00	49.79	0:00
22-Jun	49.95	49.93	49.93	49.98	49.92	49.95	17.10	79.10	3.80	79.10	50.13	17:02	49.79	14:20	50.07	0:00	49.82	0:00
23-Jun	49.95	49.97	49.97	49.97	49.98	49.97	12.00	80.00	8.00	80.00	50.14	18:01	49.79	19:39	50.07	0:00	49.85	0:00
24-Jun	49.97	50.03	49.99	49.97	49.96	49.99	2.70	83.80	13.50	83.80	50.19	8:47	49.85	0:16	50.13	0:00	49.90	0:00
25-Jun	49.98	50.02	49.98	49.98	50.01	49.99	1.50	84.40	14.00	84.40	49.86	16:23	50.13	8:35	50.09	0:00	49.91	0:00
26-Jun	50.01	50.01	49.99	49.96	49.99	49.99	3.80	79.40	16.90	79.40	50.13	13:00	49.81	21:10	50.08	0:00	49.86	0:00
27-Jun	49.98	49.99	49.99	49.97	50.01	49.98	2.30	84.90	12.80	84.90	50.13	6:03	49.83	5:29	50.08	0:00	49.91	0:00
28-Jun	50.01	50.00	49.99	49.94	49.99	49.99	7.50	77.10	15.40	77.10	50.17	13:03	49.75	19:24	50.09	0:00	49.86	0:00
29-Jun	49.97	49.96	49.98	49.91	49.94	49.96	11.90	81.30	6.80	81.30	50.21	13:02	49.67	19:16	50.14	0:00	49.81	0:00
30-Jun	49.99	49.98	49.96	49.92	49.87	49.95	17.70	76.40	5.90	76.40	50.16	0:01	49.67	19:48	50.06	0:00	49.75	0:00
MAX	50.01	50.06	50.02	50.03	50.01	50.00	41.20	89.93	22.20	89.93	50.24		50.13		50.17		49.92	
MIN	49.89	49.93	49.92	49.89	49.78	49.90	1.04	56.40	2.40	56.40	49.86		49.59		50.04		49.69	
AVG	49.97	49.99	49.97	49.95	49.93	49.97	11.81	77.07	11.11	77.07	50.15		49.76		50.09		49.83	

SUMMARY:Avg. Frequency : **49.97 Hz.****Instantaneous Frequency :**

Maximum Frequency : 50.24 Hz On 00/01/00 at 07:58 Hrs.

Minimum Frequency : 49.59 Hz On 00/01/00 at 22:20 Hrs.

15 Minutes Integrated Frequency :

Maximum Frequency : 50.17 Hz On 00/01/00 at 00:00 Hrs.

Minimum Frequency : 49.69 Hz On 00/01/00 at 00:00 Hrs

Frequency Distribution in % of Time			
Hz	<49.9	49.9-50.05	>50.05
% of Time	11.81	77.07	11.11

VOLTAGE ANALYSIS

MAXIMUM & MINIMUM VOLTAGES RECORDED AT IMPORTANT 400 kV S/S IN THE MONTH OF JUNE-2018

(All figs. in kV)

PGCIL	BINAGURI		MAITHON		JEERAT		BIHARSHARIFF	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	421	393	425	406	423	376	422	395

PGCIL	MUZAFFARPUR		JAMSHEDPUR		ROURKELA		JEYPORE	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	416	384	425	402	413	401	426	385

ANNEXURE-III

DETAILS OF CONSTITUENT WISE LOAD SHEDDING IMPLEMENTED THROUGH UFRs IN THE EASTERN REGION

Expected Load Relief through UFRs by ER Constituent:

(All Fig. are in MW)

STATES/ UTILITIES	STAGE-I (49.2 Hz) (Inst.)	STAGE-II (49.0 Hz) (Inst.)	STAGE-III (48.8 Hz) (Inst.)	STAGE-IV 48.2 Hz (Inst.)	Total Load Relief by Control Area
BIHAR	98	99	99	101	397
JHARKHAND	61	62	61	62	246
DVC	134	135.5	136	137	542.5
ODISHA	181.5	183.5	184	186	735
WEST BENGAL (incl. CESC)	345.5	350	350	354	1399.5
TOTAL	820	830	830	840	3320

As decided in the National Power Committee (NPC) meeting held on 16.07.2013 and subsequently in the 89th OCC meeting of ERPC to implement the scheme w.e.f. 30.09.2013.

A.

WATER LEVEL OF MAJOR HYDEL RESERVOIRS OF THE REGION IN

Jun-18

(All figs.in mtrs.)

Name of the Reservoirs	FRL	MDDL	As on last day of the		As on first day of this month & date	
			(30-06-18)	(30-06-17)		
Hirakud	192	180	183.12	182.39	184.81	01.06.18
Balimela	462	439	441.38	444.28	441.84	01.06.18
Rengali	123	109	111.09	110.33	113.75	01.06.18
Upperkolab	858	844	845.86	848.47	847.69	01.06.18
Indravati	642	625	626.98	629.04	628.77	01.06.18
Subernrekha	590	580	583.84	586.01	583.81	01.06.18

B.

CPP/IPP IMPORT by Eastern Region Constituents during

Jun-18

(All figs. are in MU)

System	Tata Power	Crescent Power	JSPL, Angul	Sterlite	Jindal	NALCO	TISCO	Others	Total
West Bengal	52.84	21.95	0	0	0	0	0	600.98	675.78
ODISHA	0	0	60.77	15.40	8.33	4.16	0	334.54	423.20
DVC	0	0	0	0	0	0	9.00	0	9.00
TOTAL	52.84	21.95	60.77	15.40	8.33	4.16	9.00	935.52	1107.98

C.

Distribution of Schedule Supply among Key Customers by IPPs during

Jun-18

(All figs. are in MU)

IPP	TPDDL	WBSEDCL/ WBPDCCL	DVC *	Sale at IEX/NPCL	ODISHA	JSEB	CTU/Others	Total (Excl. Tr. Loss)
MPL	167.02	175.58	80.81	0.00	0	0	179.64	603.06
Sterlite	0	0	0	0	0.00	0	0.00	0.00
APNRL	0	60.14	0	31.03	0.00	115.32	60.48	266.97
GMR	0	0.00	0	0.00	0.00	0	0.00	0.00
Total	167.02	235.72	80.81	31.03	0.00	115.32	240.12	870.03

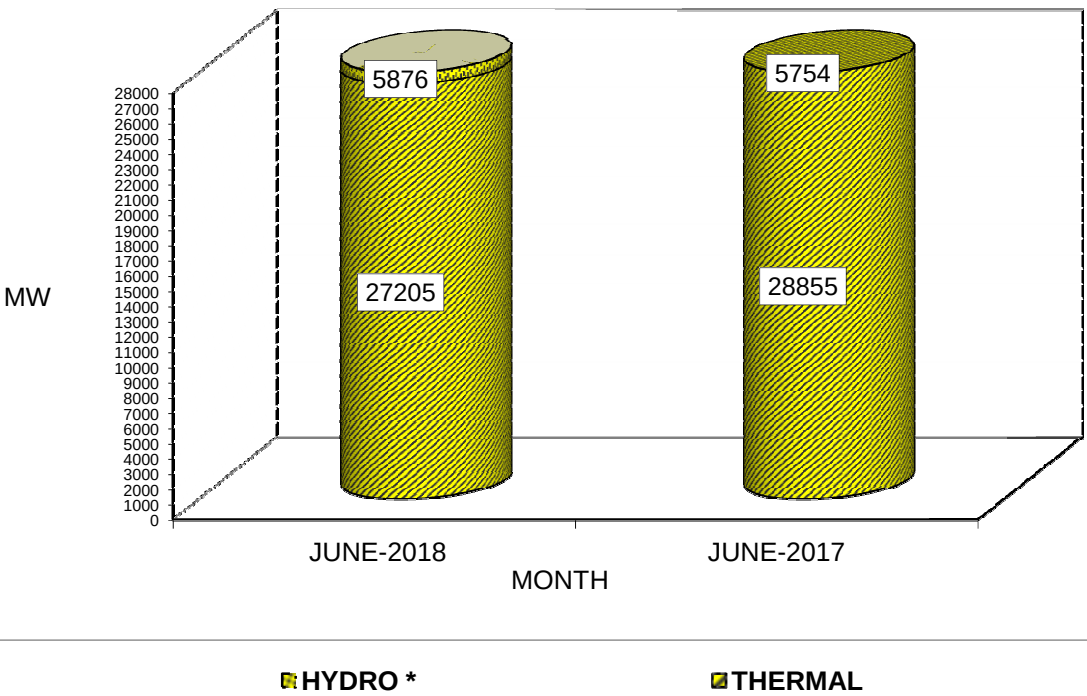
(*)--During this month, DVC has drawn 80.81 MU of MPL energy which is included in its exchange with Grid.

D.

Monthwise Gross Generation from Chuzachen HEP

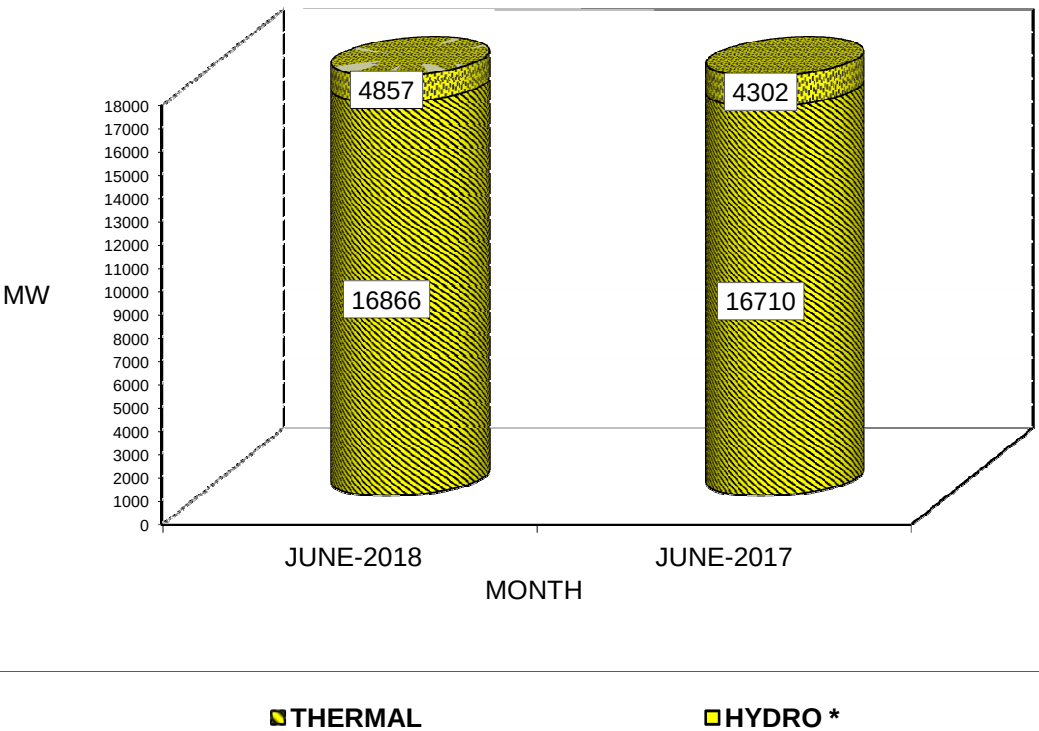
April'18	May'18	June'18	July'18	Aug'18	Sep'18	Cum. Total (2018-19)
24.01	44.24	56.56	0.00	0.00	0.00	
Oct'18	Nov'18	Dec'18	Jan'19	Feb'19	Mar'19	
0.00	0.00	0.00	0.00	0.00	0.00	
124.81						

EFFECTIVE CAPACITY OF EASTERN REGIONAL GRID



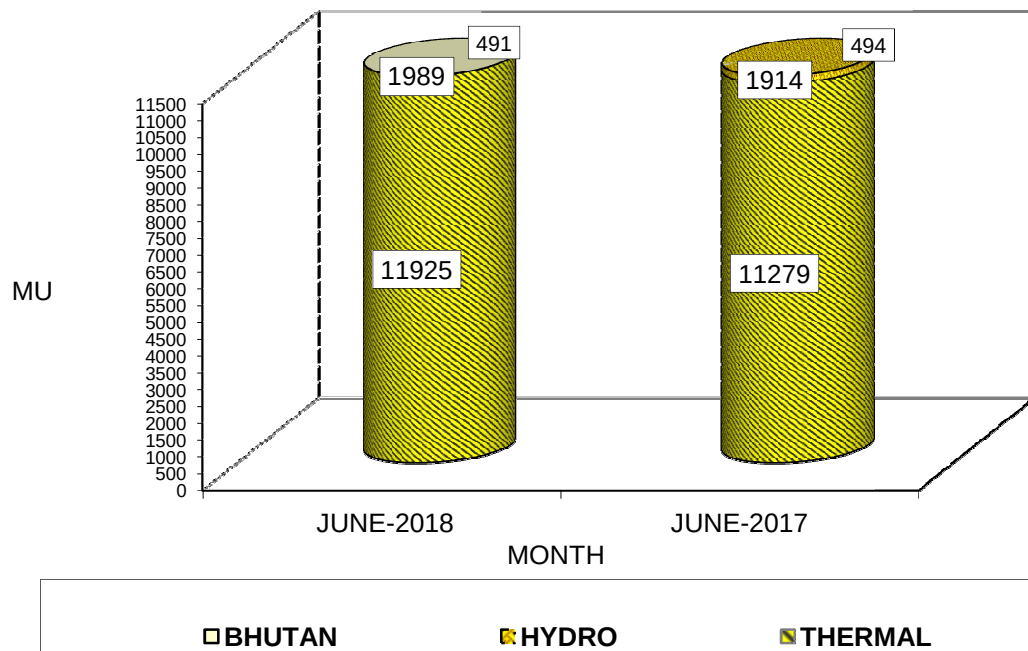
*Excludes 1350 MW contribution from HEPs of Bhutan

GENERATION CORRESPONDING TO PEAK DEMAND MET

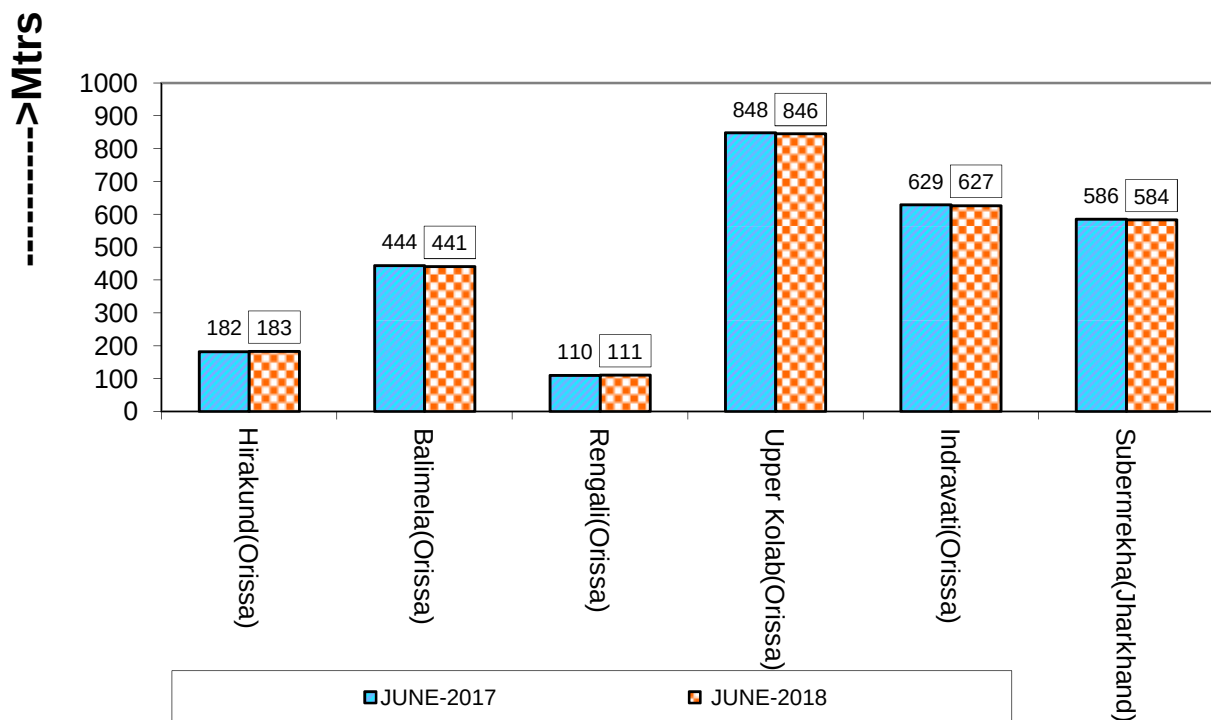


*Includes contribution from HEP of Bhutan

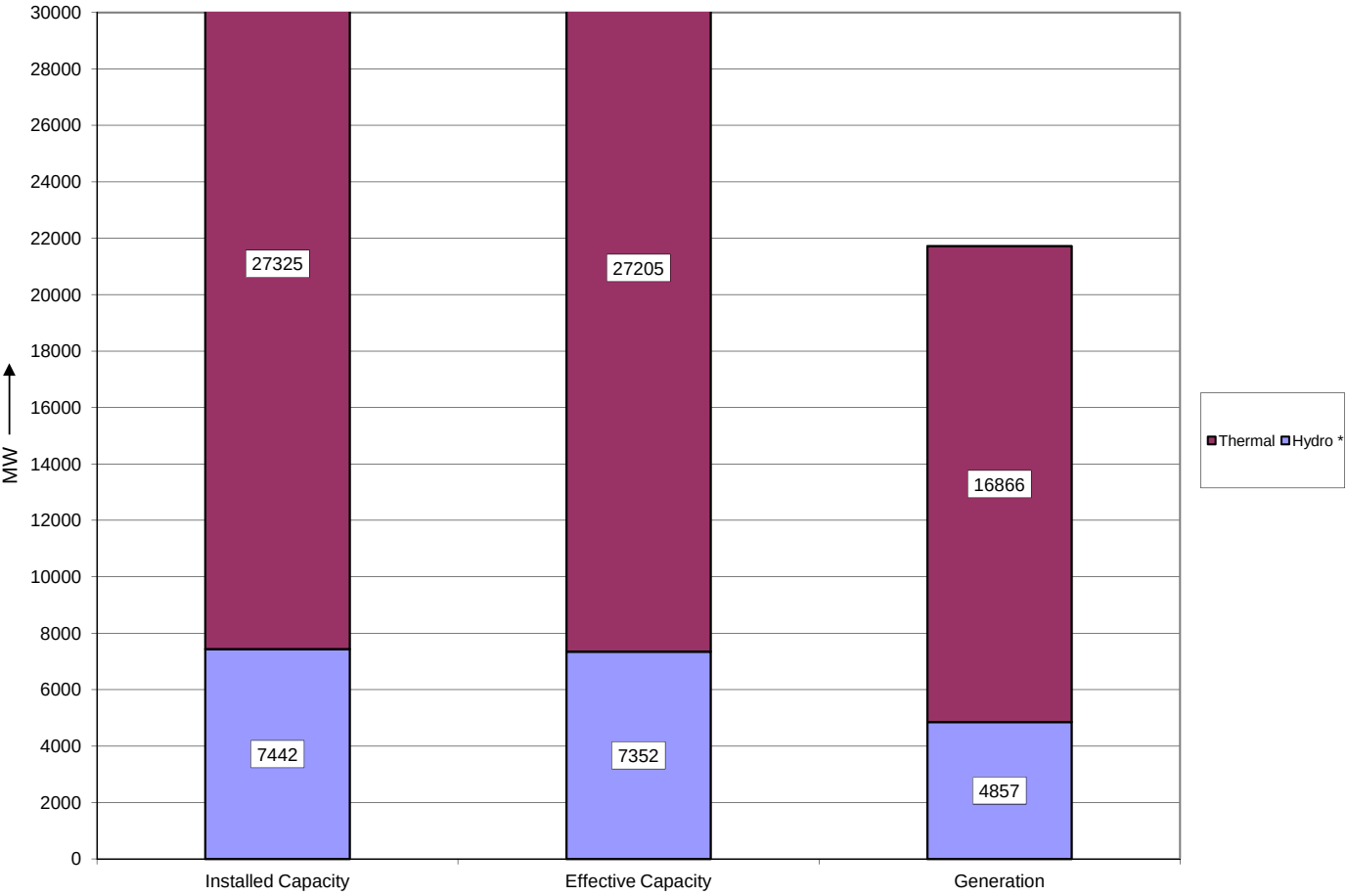
NET ENERGY GENERATION



RESERVOIR LEVEL OF HPS OF ER (RECORDED ON LAST DAY OF MONTH)

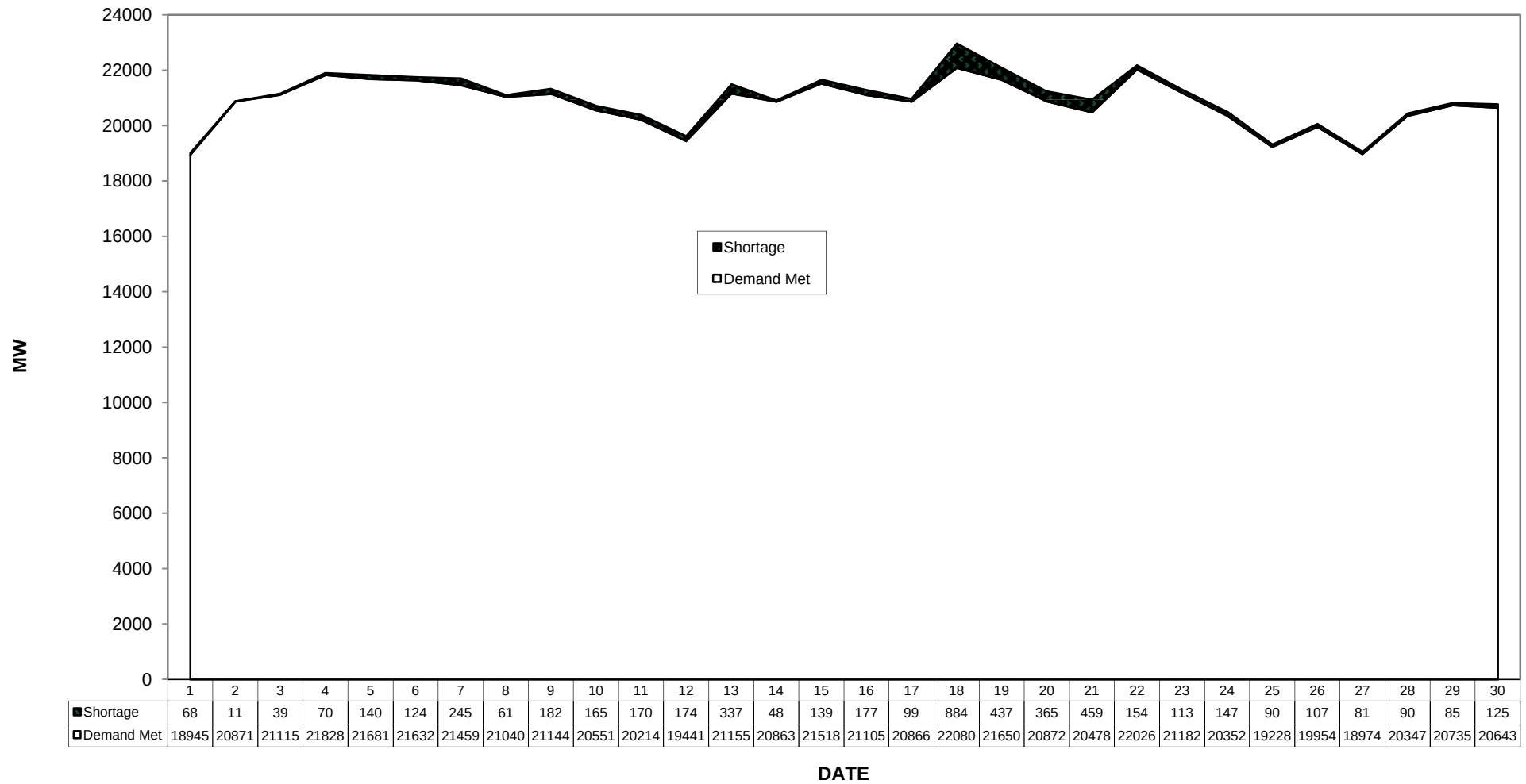


Capacity / Actual Generation Pattern of ER on Peak Day (18-6-2018) at 21.00 hrs.

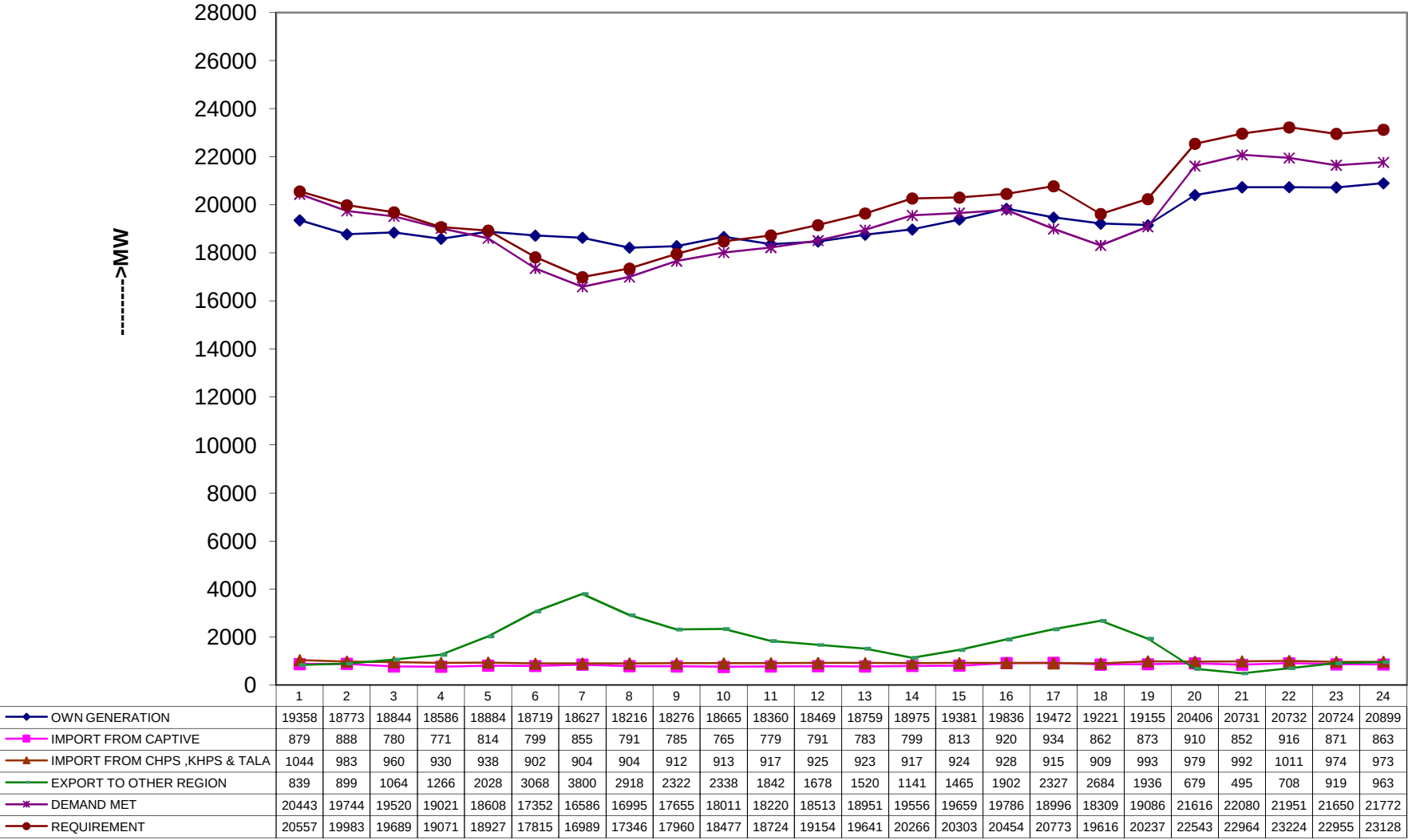


(*)--Includes contribution from HEP of Bhutan (Chukka, Kurichhu & Tala)

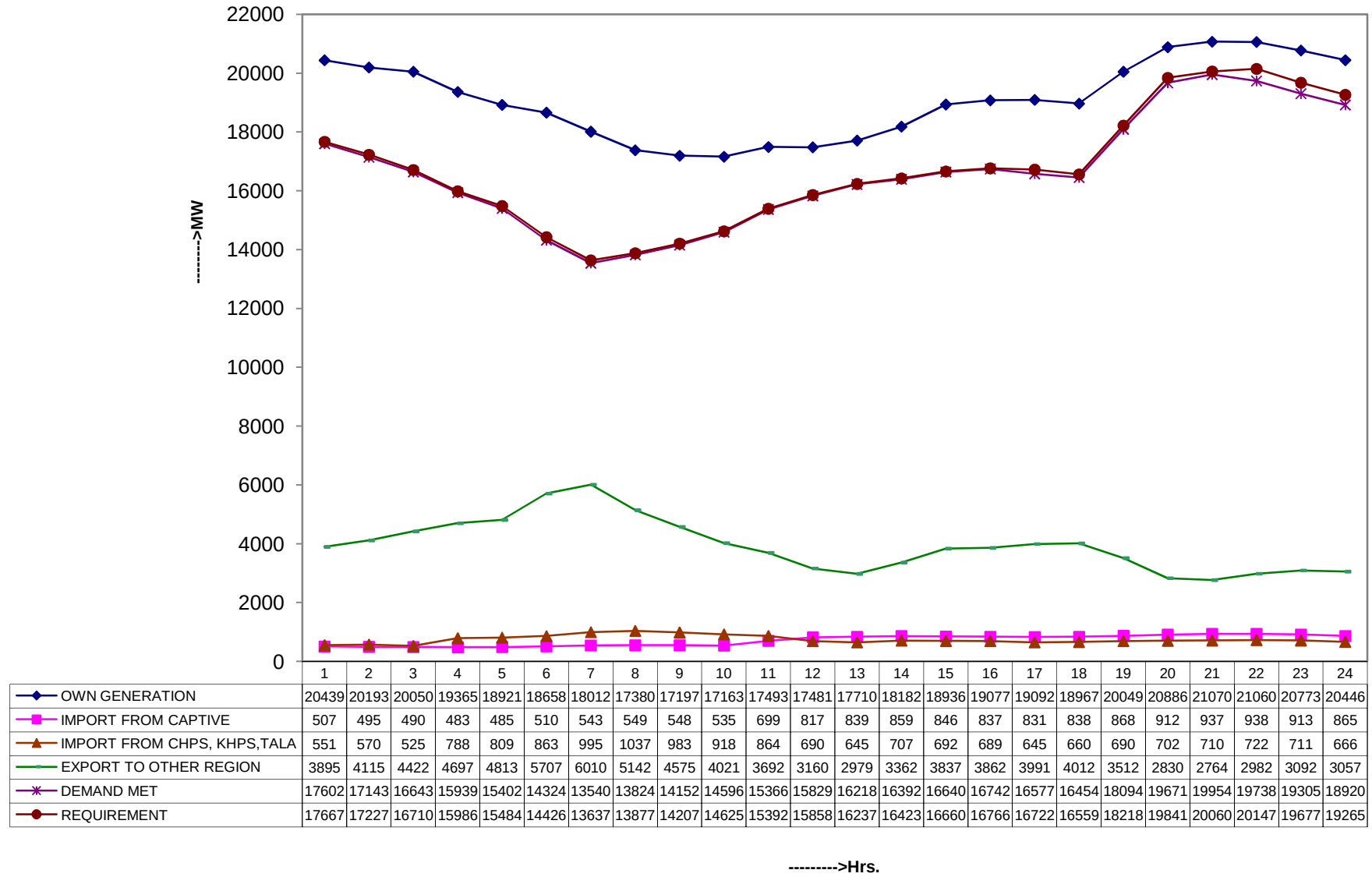
Peak Demand Met / Shortage of Eastern Region For The Month Of JUNE-2018



Hourly Load Generation Data OF ER On Regional Peak Day During The Month of JUNE-2018 (18-6-2018)

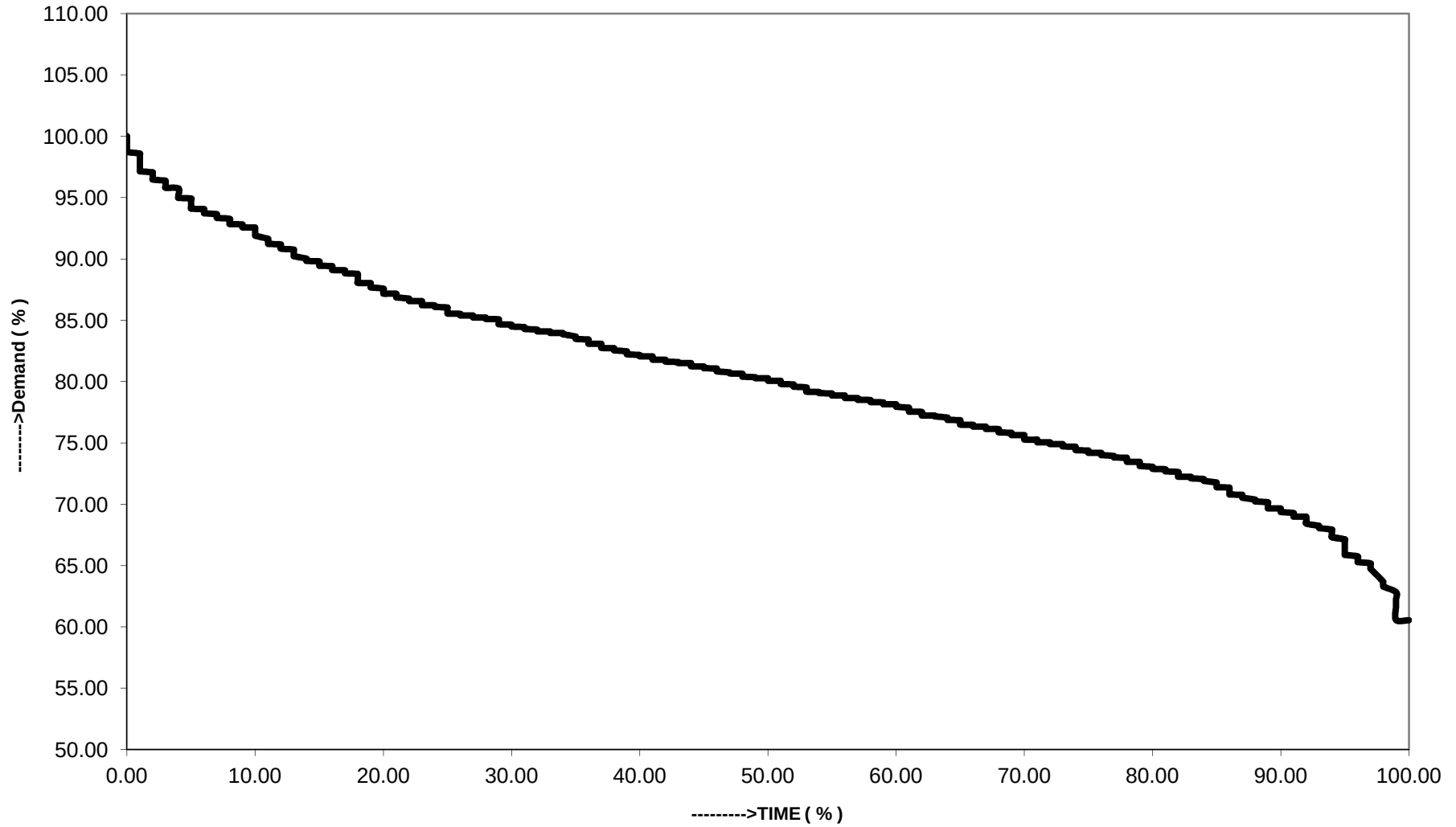


Hourly Load Generation Data of ER On Regional Lean Day During The Month of JUNE-2018 (26-6-2018)



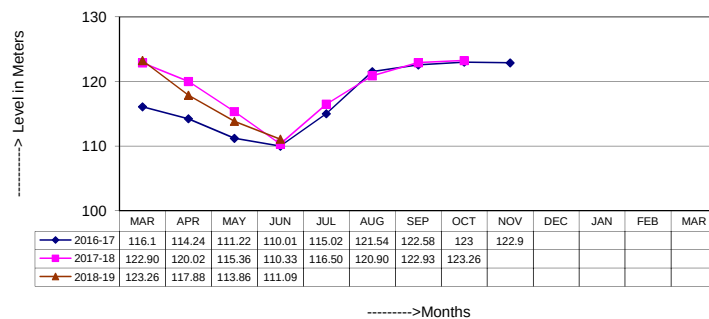
Monthly Load Duration Curve of Eastern Region for JUNE-2018

Maximum Demand met : 22080 MW
Minimum Demand met: 13540 MW

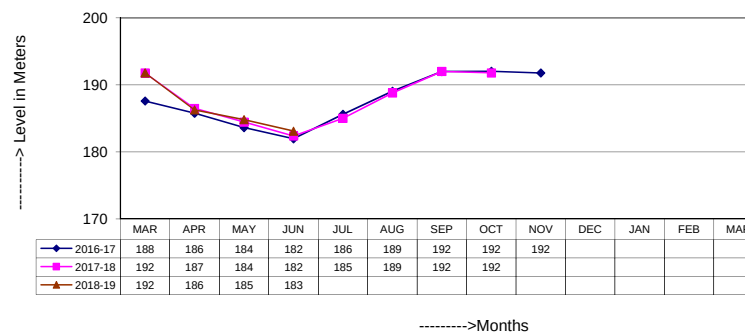


WATER LEVEL IN MAJOR RESERVOIRS ON LAST DATE OF MONTH

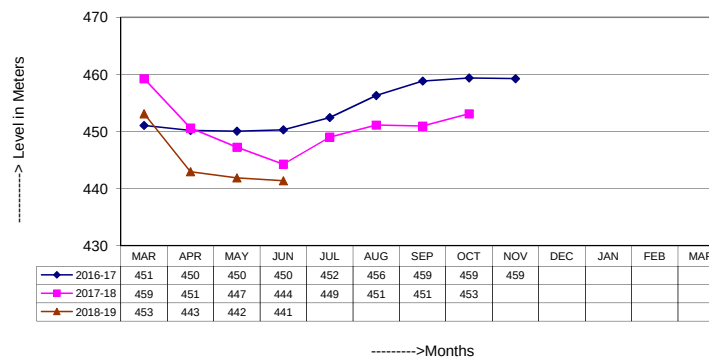
RENGALI RESERVOIR LEVEL



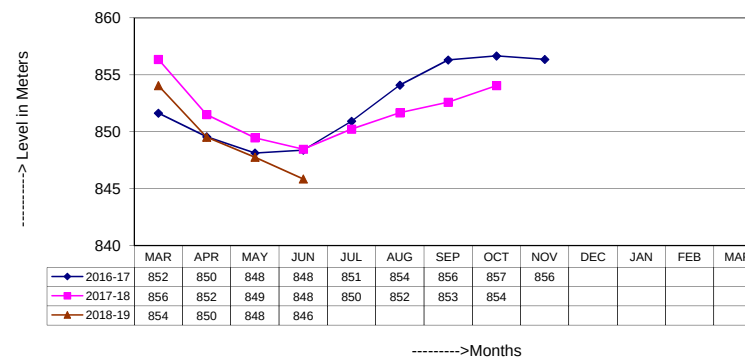
HIRAKUD RESERVOIR LEVEL



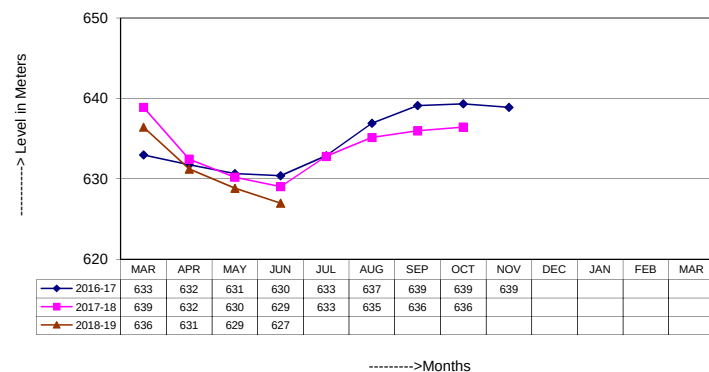
BALIMELA RESERVOIR LEVEL



UPPER KOLAB RESERVOIR LEVEL



INDRAVATI RESERVOIR LEVEL



SUBERNREKHA RESERVOIR LEVEL

