



सत्यमेव जयते

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- 2019

June-2019



14, गोल्फ क्लब रोड, टोलीगंज

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INDEX

Sl. No.	Contents	Page No.
1	Highlights & Salient Features	1-2
2.	Power Supply Position of Eastern Region and Constituents wise performance	3-3A
5.	Comparative study of power supply position with previous year	4
6.	Entitlement/Schedule/Drawal & Energy Exchanges for the month	5
7.	Performance vis-à-vis Energy Generation from Power Stations	6-7
8.	Plant Load Factor(PLF) of Thermal Power Stations	8- 9
9.	Power Scenario at the time of Regional Peak	10
10.	Hourly Load/Generation Data of region for Peak day & Lean day	11
11	Notified Power Cut, Restriction & Power Supply to Agriculture Sector	12
ANNEXURES		
I	Frequency Analysis	13
II	Voltage Analysis	14
III	Reservoir level of major hydro stations and Import from IPPs/CPPs by Constituents	15
IV	Different Types of work performed by ERPC in June'19 & List of Various Meeting held in June'19	16
EXHIBITS		
I	Chart: Effective Capacity & Generation Corresponding to Peak Demand Met	17
II	Chart: Net Energy Generation & Reservoir Levels recorded	18
III	Chart: Capacity & Generation pattern of the Peak Day	19
IV	Daily Regional Peak Demand Met & Shortage	20
V	Hourly Load/generation Pattern of Peak Day	21
VI	Hourly Load/generation Pattern of Lean Day	22
VII	Monthly Load Duration Curve	23
VIII	Reservoir Levels	24

Highlights of Eastern Regional Power System for June-2019

- The **Maximum Net Demand** met of **Eastern Region (ER)** during the month of **June, 2019** was **22808 MW** which is 3.30% more than the **June, 2018** (22080 MW). Individual **Peak Demand (MW)** of most of constituents **increased** compared to the corresponding period of last year.
- The **Average Net Energy Consumption** per day in ER for the month of **June, 2019** was **461.72 MU** excluding export, which is 5.56% more than the corresponding period of last year (437.39 MU).
- The **Average regional PLF of thermal units during the month is 69.33%**, which is marginally less than the corresponding period of the last year (**70.73%**).

WBPDCL Santaldih (TPS) registered the highest **PLF** of 99.28%, followed by NTPC (TTPS) 97.74% CESC (Budge-Budge) 97.47% and Haldia 92.14% during the month of **June, 2019**.

- **Maximum Net generation** was **25210 MW** against total **Effective Capacity of 36028.30 MW** (including import from Bhutan). At the time of Regional peak (22808 MW on 25.06.2019 at 21.00 hrs.) the generation was 22321 MW and import from CPP was 1085 MW, Net export was 598 MW.
- The system frequency in the IEGC recommended band (49.9 Hz to 50.05 Hz) remained for 70.36% of time during the month. **Average frequency** for the month was **50 Hz**. The instantaneous maximum and the minimum frequency touched were 50.31 Hz and 49.63 Hz respectively. The integrated (Fifteen minutes time block average) maximum and minimum frequency were **50.27 Hz** and **49.71 Hz** respectively (**refer Annexure-I**).
- The **Maximum Voltage** recorded **426 KV** at Maithon 400 KV S/s whereas the minimum voltage recorded 373 KV at Jeerat 400 KV S/s of Power grid.
- The **Maximum Export from ER to outside region** was **7505 MW (including Nepal and Bangladesh)** on **27th June, 2019** at **07:00 hrs**. Total net energy export during the month was **2224.25 MU (Inc.Transmission loss)** MU which is corresponds to **14.58 %** of ex-bus total generation **15259.52 MU** of Eastern Region.
- The import from CPPs was **816.30 MU** during the month.
- **Export(+)/Import(-) during the month:**

Region/Country	Max. Export of Power from ER (MW)	Max. Import of Power by ER (MW)	Net Export of Energy inc.Transmission loss(MU)
NR	4660	346	2023.12
WR	0	5038	-1876.40
SR	2914	74	971.66
NER	910	136	333.43
BANGLADESH	961	0	612.95
NEPAL (via-CTU)	259	0	159.5
Total(Net)	6185	5384	2224.25
NEPAL by Bihar(NBPDCL)			90.51

SALIENT FEATURES

(YEAR TO YEAR COMPARISON)

		Jun-19		JUNE-2018	CHANGE	% CHANGE
1)	Effective Capacity (end of the Month)					
	THERMAL (MW)	27340		27205	135	0.50
	HYDRO (MW)	5876	\$	5876	0	0
	DIESEL (MW)	0		0	0	0
	RES (MW)	1336		886	0	0
	TOTAL (MW)	34552		33967	585	1.72
2)	Peak Demand (MW)	22867		22964	-97	-0.42
3)	Peak Demand Met (MW)	22808		22080	728	3.30
4)	Shortage (MW)	59		884	-825	-93.32
5)	% Shortage	0.26		3.85	-3.59	-93.30
6)	Average Energy Requirement Per Day (MU)	462.87		441.13	21.74	4.93
7)	Average Energy Availability Per Day (MU)	461.72		437.39	24.33	5.56
8)	Average Shortage Per Day (MU)	1.15		3.74	-2.59	-69.19
9)	% Shortage	0.25		0.85	-0.60	-70.71
10)	Net Generation for the Month					
	Thermal (MU)	12745.42		11925.37	820.05	6.88
	Hydro (MU)	2462.44	*	2479.39	-16.95	-0.68
	RES (MU)	51.66		0.00	0.00	-
	Total (MU)	15259.52		14430.00	829.52	5.75
11)	Generation at the Time of Max. Regional Demand Met (25-06-19 at 21.00 Hrs.)					
	Thermal (MW)	17422		16866	556	3.29
	Hydro (MW)	4854	*	4857	-3	-0.06
	RES(MW)	45		0	45	-
	Total (MW)	22321		21723	598	2.75
12)	Inter-Regional Energy Transfer					
	Export (MU)	4100.62		3355.41	745.21	22.21
	Import (MU)	1876.40		1439.13	437.27	30.38
	Net Exp.(+)/Net Imp.(-) (MU)	2224.22		1916.28	307.94	16.07
13)	Import From Captive(MU)	816.30		607.95	208.35	34.27
14)	Peak Inter Regional Power Transfer					
	Max Export (MW) on 27-06-19 at 07.00Hrs	7505		7098	407	5.73
	Max Import (MW) on 17-06-19 at 20.00Hrs	5384		3607	1777	49.28
	Max Net Export(+)/Import (-) (MW)	6185		6010	175	2.92
15)	Maximum voltage recorded	426		MAITHON	400 kv	s/s
16)	Minimum voltage recorded	373		JEERAT	400 kv	s/s

\$ Excludes 1566 MW contribution from HEPs of Bhutan

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

POWER SUPPLY POSITION FOR THE MONTH OF JUNE'2019

A) Net Average Energy Per Day

System	Demand Met (MU/Day)	Requirement (MU/Day)	Shortage (MU/Day)	% Shortage
BSPHCL	103.45	103.77	0.32	0.31
JUVNL	25.59	25.90	0.32	1.23
DVC	64.13	64.17	0.03	0.05
ODISHA	90.12	90.17	0.04	0.05
WBSEDCL	138.72	139.33	0.61	0.44
CESC	38.08	38.10	0.02	0.05
SIKKIM	1.43	1.43	0.00	0.05
REGION	461.72	462.87	1.15	0.25

B) Peak Demand in MW:

System	Demand Met (MW)	Requirement (MW)	Shortage (MW)	% Shortage
BSPHCL	5483	5483	0	0.00
JUVNL	1362	1363	1	0.09
DVC	2950	2962	11	0.38
ODISHA	4949	4950	0	0.01
WBSEDCL	7169	7185	16	0.23
CESC	2329	2332	3	0.1
SIKKIM	89	89	0	0.00
REGION	22808	22867	59	0.26

➤ **DIVERSITY FACTOR** **1.07**

➤ **Regional Peak Demand Met on 25-6-2019 at 21.00 hrs. at 50.01 Hz.**

CONSTITUENT-WISE PERFORMANCE DATA JUNE-19

SYSTEM	Gross Generation(MU)				Auxiliary power Consumption(MU)				Net Generation (MU)				Import from	Exchange	Energy	Per Day	Net Peak	Gross Peak
	HYDRO	Thermal	RES (Hy+Solar)	Total	HYDRO	Thermal	Solar	Total	HYDRO	Thermal	Solar	Total	Captive (MU)	Net Import(+) Net Export(-)	Consumption(MU)	Cons.(MU)	Demand	Demand
BSPHCL	0.00	84.11	20.63	104.74	0.00	10.72	0.00	10.72	0.00	73.39	20.63	94.02	0.00	3009.48	3103.50	103.5	5483	5507
JUVNL	0.00	175.86	0.00	175.86	0.00	23.83	0.00	23.83	0.00	152.03	0.00	152.03	44.18	571.40	767.61	25.6	1362	1384
DVC	2.71	3445.88	0.00	3448.59	0.10	244.18	0.00	244.28	2.61	3201.70	0.00	3204.31	14.08	-1294.44	1923.96	64.1	2950	3321
ODISHA(OPGC+OHPC+TTPS)	399.03	649.88	26.83	1075.74	4.77	67.18	0.00	71.95	394.26	582.70	26.83	1003.79	632.76	1067.21	2703.75	90.1	4949	5044
WBPDC+WBSEDCL+DPL	149.95	2448.59	0.00	2598.54	0.00	230.18	0.00	230.18	149.95	2218.41	0.00	2368.36	125.28	1667.95	4161.58	134.2	7169	7559
CESC	0.00	566.60	0.00	566.60	0.00	44.94	0.00	44.94	0.00	521.66	0.00	521.66	0.00	620.76	1142.42	38.1	2329	2402
HEL	0.00	398.03	0.00	398.03	0.00	30.79	0.00	30.79	0.00	367.24	0.00	367.24	0.00	-367.24				
SIKKIM	0.00	0.00	3.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	3.00	3.00	0.00	39.95	42.95	1.4	89	89
OPGC U#4(660 MW)	0.00	54.81	0.00	54.81	0.00	3.43	0.00	3.43	0.00	51.38	0.00	51.38	0.00	-51.38				
NTPC	0.00	4483.64	0.00	4483.64	0.00	340.97	0.00	340.97	0.00	4142.67	0.00	4142.67	0.00	-4142.67				
MPL	0.00	465.92	0.00	465.92	0.00	30.24	0.00	30.24	0.00	435.68	0.00	435.68	0.00	-435.68				
APNRL	0.00	277.29	0.00	277.29	0.00	25.02	0.00	25.02	0.00	252.27	0.00	252.27	0.00	-252.27				
GMR	0.00	289.27	0.00	289.27	0.00	19.26	0.00	19.26	0.00	270.01	0.00	270.01	0.00	-270.01				
JITPL	0.00	512.62	0.00	512.62	0.00	36.34	0.00	36.34	0.00	476.28	0.00	476.28	0.00	-476.28				
NHPC (Inc TLDP= 131.41MU)	541.26	0.00	0.00	541.26	0.00	0.00	0.00	0.00	541.26	0.00	0.00	541.26	0.00	-541.26	0.00			
CHPC(Birpara Receipt)	112.39	0.00	0.00	112.39	0.00	0.00	0.00	0.00	112.39	0.00	0.00	112.39	0.00	-112.39	0.00			
KHPS	36.86	0.00	0.00	36.86	0.00	0.00	0.00	0.00	36.86	0.00	0.00	36.86	0.00	-36.86	0.00			
THPS	183.32	0.00	0.00	183.32	0.00	0.00	0.00	0.00	183.32	0.00	0.00	183.32	0.00	-183.32	0.00			
DAGACHU HPS	19.52	0.00	0.00	19.52	0.00	0.00	0.00	0.00	19.52	0.00	0.00	19.52	0.00	-19.52	0.00			
CHUZACHEN HPS	52.45	0.00	0.00	52.45	0.00	0.00	0.00	0.00	52.45	0.00	0.00	52.45	0.00	-52.45	0.00			
JORHANG HPS	36.00	0.00	0.00	36.00	0.00	0.00	0.00	0.00	36.00	0.00	0.00	36.00	0.00	-36.00	0.00			
TEESTA-III HPS	832.19	0.00	0.00	832.19	0.00	0.00	0.00	0.00	832.19	0.00	0.00	832.19	0.00	-832.19	0.00			
DIKCHU HPS	68.35	0.00	0.00	68.35	0.00	0.00	0.00	0.00	68.35	0.00	0.00	68.35	0.00	-68.35	0.00			
TASHIDING HPS	33.27	0.00	0.00	33.27	0.00	0.00	0.00	0.00	33.27	0.00	0.00	33.27	0.00	-33.27	0.00			
TALCHER SOLAR	0.00	0.00	1.20	1.20	0.00	0.00	0.00	0.00	0.00	0.00	1.20	1.20	0.00	-1.20				
Total Drawal by HVDC Sahsaram,Alipurduar, and OPGC infirm injection of 51.3825011 MU																		
Total	2467.31	13852.49	51.66	16371.46	4.87	1107.07	0.00	1111.94	2462.44	12745.42	51.66	15259.52	816.30	-2224.24	13851.58	461.7	22808	24318

3A

13851.58

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

A) Net Average Energy

Month	2018-19					2019-20				
	Demand Met (MU/Day)	Requirement (MU/Day)	Shortage (MU/Day)	Shortage (%)	Avg. Freq. (HZ)	Demand Met (MU/Day)	Requirement (MU/Day)	Shortage (MU/Day)	Shortage (%)	Avg. Freq. (HZ)
APRIL	393.59	396.98	3.39	0.85	49.96	428.71	429.56	0.85	0.20	50.00
MAY	420.52	425.36	4.84	1.14	49.94	451.15	452.79	1.64	0.36	49.99
JUNE	437.39	441.13	3.74	0.85	49.97	461.72	462.87	1.15	0.25	49.99
JULY	425.68	427.31	1.63	0.38	49.97	-	-	-	-	-
AUGUST	446.36	449.17	2.81	0.63	49.97	-	-	-	-	-
SEPTEMBER	440.53	448.47	7.94	1.77	49.96	-	-	-	-	-
OCTOBER	419.33	423.20	3.87	0.91	49.96	-	-	-	-	-
NOVEMBER	368.99	371.76	2.77	0.75	49.97	-	-	-	-	-
DECEMBER	340.51	342.17	1.66	0.49	49.96	-	-	-	-	-
JANUARY	355.14	357.42	2.29	0.64	49.98	-	-	-	-	-
FEBRUARY	356.66	357.25	0.59	0.17	49.99	-	-	-	-	-
MARCH	384.42	385.48	1.06	0.27	49.99	-	-	-	-	-

B) Peak in MW:

Month	2018-19					2019-20				
	Demand Met (MW)	Requirement (MW)	Shortage (MW)	Shortage (%)	Avg. Freq. (HZ)	Demand Met (MW)	Requirement (MW)	Shortage (MW)	Shortage (%)	Avg. Freq. (HZ)
APRIL	21058	21128	70	0.33	49.96	22378	22415	37	0.17	50.00
MAY	21902	22012	111	0.50	49.94	22781	22830	49	0.22	49.99
JUNE	22080	22964	884	3.85	49.97	22808	22867	59	0.26	49.99
JULY	21790	21849	59	0.27	49.97	-	-	-	-	-
AUGUST	22580	22794	215	0.94	49.97	-	-	-	-	-
SEPTEMBER	22286	22815	529	2.32	49.96	-	-	-	-	-
OCTOBER	22733	23093	360	1.56	49.96	-	-	-	-	-
NOVEMBER	20322	20512	190	0.93	49.97	-	-	-	-	-
DECEMBER	18023	18049	25	0.14	49.96	-	-	-	-	-
JANUARY	18702	18783	81	0.43	49.98	-	-	-	-	-
FEBRUARY	18921	18923	2	0.01	49.99	-	-	-	-	-
MARCH	21221	21416	195	0.91	49.99	-	-	-	-	-

	FROM	Cumulative from 01-Apr-19 to 30/Jun/19		BILATERAL [EXPORT(-) / IMPORT(+)] (EX-SELLER BUS)	NET DRAWAL SCHEDULE (AFTER LOSS)	ACTUAL DRAWAL FROM GRID	During June-19					
		ENTITLEMENT (EX-BUS)	DRAWAL SCHEDULE (EX-BUS)				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	926.67	688.18				288.73	215.56				
	FARAKKA STPS III	175.32	130.66				16.53	14.76				
	KAHALGAON STPS I	654.55	570.80				217.35	193.74				
	KAHALGAON STPS II	117.88	120.54				44.80	45.37				
	TALCHER STPS I	694.57	674.52				220.34	210.88				
	MTPS-II	571.64	472.61				183.05	157.71				
	BRBCL	115.67	121.21				40.59	45.54				
	Rly BRBCL	111.10	93.38				36.74	31.68				
	BARH STPS II	2347.33	2238.41				737.72	719.38				
	RANGIT HEP	31.12	31.12				13.37	13.37				
	CHUKHA HEP	42.18	78.02				19.62	36.92				
	KIRUCHHU HEP	0.00	0.00				0.00	0.00				
	TALA HPS	126.28	100.70				61.46	50.62				
	TEESTA HEP	191.40	191.40				71.13	71.13				
TOTAL	6105.71	5511.54	2697.62	8375.06	8368.71	1951.43	1806.66	991.61	2957.26	2964.44		
JUVNL	FARAKKA STPS I	253.06	193.77				78.849	58.942				
	FARAKKA STPS III	112.05	102.02				10.566	9.317				
	KAHALGAON STPS I	50.06	48.41				16.619	15.216				
	KAHALGAON STPS II	29.56	40.61				11.232	14.458				
	TALCHER STPS I	129.14	121.47				40.975	37.103				
	MTPS-II	26.18	30.46				8.382	9.469				
	BARH STPS II	185.29	150.78				59.671	47.606				
	RANGIT HEP	11.85	11.85				5.094	5.094				
	CHUKHA HEP	15.29	28.28				7.113	13.383				
	KIRUCHHU HEP	0.00	0.00				0.000	0.000				
	TALA HPS	56.75	45.25				27.623	22.751				
	TEESTA HEP	111.09	111.09				41.284	41.284				
	TOTAL	980.33	884.00	584.63	1611.17	1618.26	307.41	274.62	137.30	559.37	562.85	
	DVC	FARAKKA STPS I	0.00	0.00				0.00	0.00			
FARAKKA STPS III		0.00	0.00				0.00	0.00				
KAHALGAON STPS I		0.00	0.00				0.00	0.00				
KAHALGAON STPS II		1.07	0.00				0.00	0.00				
TALCHER STPS I		8.65	3.02				1.07	0.97				
MTPS-II		68.80	17.35				6.35	5.77				
BRBCL		64.94	781.21				55.32	49.16				
RANGIT HEP		11.94	8.89				3.82	3.82				
CHUKHA HEP		12.95	27.31				6.87	12.92				
KIRUCHHU HEP		19.05	10.47				5.05	6.00				
TALA HPS		42.99	21.88				13.35	11.00				
TEESTA HEP		169.62	77.78				28.91	28.91				
TOTAL		279.26	947.91	-4307.56	-4157.09	-1370.96	120.74	118.54	-1260.32	-1314.20	-1294.44	
GRIDCO		FARAKKA STPS I	413.53	317.77				130.43	132.81			
	FARAKKA STPS III	113.38	109.15				10.69	9.78				
	KAHALGAON STPS I	246.68	259.86				81.91	81.17				
	KAHALGAON STPS II	62.04	127.71				23.58	41.31				
	TALCHER STPS (Stg-I)	544.68	539.48				172.79	168.87				
	TALCHER STPS (Stg-II)	0.00	0.00				0.00	0.00				
	MTPS-II	65.02	2.16				20.82	0.75				
	BARH STPS II	0.00	0.00				0.00	0.00				
	RANGIT HEP	0.00	0.00				0.00	0.00				
	CHUKHA HEP	21.62	40.00				10.06	18.93				
	KIRUCHHU HEP	0.00	0.00				0.00	0.00				
	TALA HPS	21.48	16.78				10.24	8.44				
	TEESTA HEP	185.37	185.37				68.88	68.88				
	TOTAL	1673.79	1598.28	1044.65	2890.41	3012.29	529.40	530.95	306.66	1006.03	1051.23	
WBSDECL	FARAKKA STPS I	969.49	874.95				302.07	289.33				
	FARAKKA STPS III	254.92	217.54				24.04	21.90				
	KAHALGAON STPS I	109.29	107.85				36.29	38.52				
	KAHALGAON STPS II	21.76	30.62				8.27	16.75				
	TALCHER STPS I	170.58	161.64				54.11	52.50				
	MTPS-II	73.46	63.97				23.52	25.81				
	RANGIT HEP	25.20	25.20				10.83	10.83				
	CHUKHA HEP	46.03	83.87				21.09	39.69				
	KIRUCHHU HEP	10.89	10.47				5.05	6.00				
	TALA HPS	193.28	151.04				92.20	75.93				
	TEESTA HEP	215.89	215.89				80.23	80.23				
	TOTAL	2090.78	1943.05	2790.71	4982.46	5015.82	657.70	657.49	811.39	1692.51	1735.99	
	SIKKIM	FARAKKA STPS I	48.11	29.99				14.99	9.37			
		FARAKKA STPS III	0.00	0.00				0.00	0.00			
KAHALGAON STPS I		24.24	17.77				8.05	5.73				
KAHALGAON STPS II		7.81	6.49				2.97	2.50				
TALCHER STPS I		40.42	36.90				12.82	12.33				
MTPS-II		4.22	3.82				1.35	1.19				
BARH STPS II		34.49	23.90				11.11	8.13				
RANGIT HEP		11.85	11.85				5.09	5.09				
CHUKHA HEP		3.21	5.85				1.47	2.77				
KIRUCHHU HEP		0.00	0.00				0.00	0.00				
TEESTA HEP		118.75	118.75				44.13	44.13				
TOTAL		293.09	255.31	-25.36	124.12	120.20	101.98	91.25	-34.40	37.25	39.35	
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	-628.02	-560.72				-238.66	-204.95				
	TALCHER STPS I	0.00	0.00				0.00	0.00				
	BARH STPS II	0.00	0.00				0.00	0.00				
	BRBCL	-374.47	-284.92				-122.72	-86.98				
	TOTAL	-1002.49	-845.64	1222.47	642.44	1584.93	-361.38	-291.93	11.71	497.00	1876.40	
SR	FARAKKA STPS I	-60.25	-63.29				-18.77	-18.79				
	FARAKKA STPS III	-4.85	-5.06				-0.46	-0.33				
	KAHALGAON STPS I	-21.61	-23.94				-7.18	-7.34				
	KAHALGAON STPS II	-18.06	-20.47				-6.86	-6.15				
	TALCHER STPS STG-I	-26.32	-9.87				-8.35	8.15				
	MTPS-II	-2.13	-3.77				-0.68	-0.80				
	BARH STPS II	-17.66	-17.30				-5.69	-5.51				
TOTAL	-150.89	-143.70	-1973.99	-3302.69	-4166.39	-47.99	-30.78	-358.64	-249.81	-957.11		
NR	FARAKKA STPS I	-168.23	-136.59				-52.41	-52.23				
	KAHALGAON STPS I	-390.16	-302.26				-129.55	-112.92				
	KAHALGAON STPS II	-1327.76	-1068.38				-504.59	-438.84				
	TALCHER STPS I	0.00	0.00				0.00	0.00				
	BRBCL	-367.90	-270.20				-143.80	-105.23				
	TALA HPS	-75.80	-59.23				-36.16	-29.78				
	TOTAL	-2329.84	-1836.67	-2985.71	-4473.42	-5610.90	-866.51	-738.99	-1442.91	-2006.05	-1992.83	
WR+SR+NR (GRAND TOTAL)		-3483.23	-2826.02	-3737.23	-7133.67	-8192.37	-1275.88	-1061.70	-1789.84	-1758.86	-1073.54	
NER	FARAKKA STPS I	-97.71	-77.71				-30.44	-26.93				
	FARAKKA STPS III	-0.61	-0.73				-0.06	-0.06				
	KAHALGAON STPS I	-46.20	-41.80				-15.34	-14.95				
	KAHALGAON STPS II	-122.75	-100.04				-46.65	-43.66				
	TALCHER STPS I	-49.68	-48.00				-15.76	-15.65				
TOTAL		-316.95	-268.28	123.11	213.94	139.41	-108.24	-101.25	80.49	-1.28	-328.44	

PERFORMANCE OF GENERATING STATIONS IN THE EASTERN REGION DURING THE MONTH OF JUNE'2019

ORGANI- SATION	TYPE	POWER STATION	INSTALLED CAPACITY	EFFECTIVE CAPACITY	Gross Energy Generation	Net Energy Generation	Cummulative Gross Energy Generation upto Current Month	Cummulative Net Energy Generation upto Current Month
			(in MW)	(in MW)	in MU	in MU	(2019-20) in MU	(2019-20) in MU
BIHAR	Thermal	Barauni (U# 6&7)	220.00	210.00	0.28	0.25	8.57	7.37
		Muzaffarpur Stg-I	220.00	220.00	83.83	73.14	296.72	260.92
		Thermal Total	440.00	430.00	84.11	73.39	305.28	268.29
	RES		327.90	327.90	20.63	20.63	84.08	84.08
		Total BIHAR	767.90	757.90	104.74	94.02	389.37	352.38
JHARKHAND								
TVNL	Thermal	TVNL	420.00	420.00	175.86	152.03	591.84	515.52
JSEB	Hydro	Subarnrekha (U#1,2)	130.00	130.00	0.00	0.00	0.67	0.67
	RES		39.00	39.00	0.00	0.00	0.00	0.00
		Total	169.00	169.00	0.00	0.00	0.67	0.67
DVC	Thermal	Bokaro-B(3)	210.00	210.00	4.78	3.29	61.23	52.35
		Chandrapura (3)	140.00	130.00	0.00	0.00	0.00	0.00
		Chandrapura(U7 # 8)	500.00	500.00	315.28	284.65	1004.66	910.56
		Durgapur(4)	210.00	210.00	21.39	16.94	55.57	44.46
		Mezia(1,2,3,4,5,6)	1340.00	1340.00	647.05	581.49	2102.68	1887.15
		Mezia(U # 7,8)	1000.00	1000.00	531.66	501.67	1683.35	1592.44
		Bokaro-A(1)	500.00	500.00	278.42	262.77	806.59	760.07
		Durgapur STPS (U#1,2)	1000.00	1000.00	573.14	540.33	1803.22	1704.37
		Raghunathpur TPS (U#1,2)	1200.00	1200.00	478.38	448.31	1305.66	1224.55
	Koderma STPS (U#1,2)	1000.00	1000.00	595.77	562.25	1871.90	1769.38	
		Total Thermal	7100.00	7090.00	3445.88	3201.70	10694.87	9945.32
	Hydro	Maithon (U#1,2,3)	63.20	63.20	0.65	0.61	1.89	1.80
		Panchet (U#1,2)	80.00	80.00	2.06	2.01	6.76	6.61
Tilaya (U#1,2)		4.00	4.00	0.00	0.0	0.00	0.0	
	Hydro Total	147.20	147.20	2.71	2.61	8.65	8.39	
	Total DVC	7247.20	7237.20	3448.59	3204.31	10703.51	9953.70	
WEST BENGAL								
WBPDCCL	Thermal	Bandel TPS	380.00	335.00	148.63	133.60	353.57	314.32
		Santalidih TPS(U#5&6)	500.00	500.00	357.41	329.75	1031.52	950.36
		Kolaghat TPS	1260.00	1260.00	461.18	412.83	1233.77	1100.24
		Bakreswar TPP	1050.00	1050.00	566.41	512.85	2005.37	1827.72
		Sagardighi TPP	1600.00	1600.00	685.36	624.74	1922.15	1747.95
		DPPS (110+300+250 *)	660.00	660.00	229.60	204.64	773.70	692.74
		Thermal Total	5450.00	5405.00	2448.59	2218.41	7320.08	6633.33
WBSIEDCL	Hydro	Jaldhaka (3x9+2x4)	35.00	35.00	25.76	25.76	60.65	60.65
		Ramam (4x12.73)	51.00	51.00	17.61	17.61	40.93	40.93
		Teesta C.F. (3x3x7.3)	67.30	67.30	0.00	0.00	0.00	0.00
		Purulia PSS (4x225)	900.00	900.00	106.58	106.58	269.29	269.29
		Total Hydro	1053.30	1053.30	149.95	149.95	370.87	370.87
		RES	407.15	407.15	0.00	0.00	0.48	0.48
➤ Chandrapura #1 is retired on 17.01.17								
➤ Patratu # 1,2,3,5,8 are retired on 21.12.16								

PERFORMANCE OF GENERATING STATIONS IN THE EASTERN REGION DURING THE MONTH OF JUNE'2019

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 (2019-20) in MU	Cummulative Net Energy Generation upto Current Month (2019-20) in MU
CESC	Thermal	Titagarh (4x60)	240.00	240.00	0.00	0.00	0.00	0.00
		Southern (2x67.5)	135.00	135.00	40.27	36.30	141.58	127.55
		Budge-Budge (3x250)	750.00	750.00	526.33	485.37	1576.05	1453.95
		Total CESC	1125.00	1125.00	566.60	521.66	1717.62	1581.50
HEL	Thermal	HEL	600.00	600.00	398.03	367.24	1151.42	1062.06
		Total West Bengal	8635.45	8590.45	3563.17	3257.26	10560.48	9648.24
ODISHA (NTPC)	Thermal	Talcher-I	250.00	240.00	170.39	152.26	517.88	463.85
		Talcher-II	220.00	220.00	153.32	136.89	469.31	420.68
		Total Thermal	470.00	460.00	323.71	289.16	987.19	884.53
OPGC	Thermal	IB TPS	420.00	420.00	244.22	216.71	791.07	705.39
		IB TPS U#3(660 MW)			81.96	76.84	150.47	130.88
		IB TPS U#4(660 MW)			54.81	51.38	75.23	70.52
OHPC	Hydro	Hirakud-I (Burla)	275.50	275.50	37.56	37.07	99.94	99.08
		Hirakud-II (Chiplima)	72.00	72.00	19.00	18.75	54.93	54.56
		Balimela (6x60+2x75)	510.00	510.00	169.27	167.13	475.62	472.89
		Rengali (5x50)	250.00	250.00	14.93	14.75	68.33	67.95
		Upper Kolab (4x80)	320.00	320.00	60.83	60.04	205.46	203.90
		Indravati HPS (4x150)	600.00	600.00	70.64	69.72	479.39	475.28
		Mckd.(Odisha drawal)	57.38	57.38	26.81	26.81	78.52	78.52
		Total Hydro	2084.88	2084.88	399.03	394.26	1462.18	1452.18
		RES	499.76	499.76	26.83	26.83	82.33	82.33
		Total Odisha	3474.64	3464.64	1075.74	1008.91	3473.23	3272.57
(**) SIKKIM	Hydro	RES	52.11	52.11	3.00	3.00	7.00	7.00
NTPC		MTPS Stg-II	390.00	390.00	231.038	207.99	689.04	619.89
		FSTPP# I&II (3x200+2x500)	1600.00	1600.00	870.11	795.55	2757.71	2542.58
		FSTPP (U# 6)	500.00	500.00	58.33	54.21	616.25	572.35
		KhSTPP (4x210+3x500)	2340.00	2340.00	1448.09	1341.01	3948.78	3646.48
		TSTPP (2x500)	1000.00	1000.00	562.13	516.11	1778.73	1635.04
		BARH STPS II (2X660)	1320.00	1320.00	829.48	785.77	2582.80	2449.60
		BRBCL # I,2,3(3X250 MW)	750	750	417.17	386.27	1185.71	1097.31
		NPGC			67.31	55.76	79.57	62.07
		Total NTPC	7900.00	7900.00	4483.65	4142.67	13638.59	12631.26
NHPC	HYDRO	Rangit (3x20)	60.00	60.00	38.45	38.45	89.63	89.63
		Teesta (3x170)	510.00	510.00	343.71	343.71	919.46	919.46
		TLDP -(4x33+4x40)	292.00	292.00	159.09	159.09	366.45	366.45
		Total NHPC	862.00	862.00	541.26	541.26	1375.53	1375.53
		MPL (U#1&2)	1050.00	1050.00	465.92	435.68	1740.46	1636.90
		APNRL (U#1,2)	540.00	540.00	277.29	252.27	746.44	677.06
		GMR (2x350)	700.00	700.00	289.27	270.01	1093.47	1019.23
		JITPL (2X600)	1200.00	1200.00	512.62	476.28	1265.03	1178.54
		CHUZACHEN** (2x55)	110.00	110.00	52.45	52.45	120.41	120.41
		JORETHANG (2x48)	96.00	96.00	36.00	36.00	72.97	72.97
		TEESTA URJA St III (6x200)	1200.00	1200.00	832.19	832.19	1940.11	1940.11
		Tashilding (2x48.5)	97.00	97.00	33.27	33.27	73.89	73.89
		DICKCHU (2x48)	96.00	96.00	68.35	68.35	155.21	155.21
		TALCHER SOLAR	10.00	10.00	1.20	1.20	3.93	3.93
		Total Thermal (E.R)	27415.00	27340.00	13852.50	12745.42	42269.06	38941.62
EASTERN REGIONAL		Total Hydro (E.R)	5876.38	5876.38	2115.21	2110.34	5580.48	5570.22
		Total RES	1335.92	1335.92	51.66	51.66	177.83	177.83
		TOTAL (E.R)	34627.30	34552.30	16019.36	14907.41	48027.36	44689.67
BHUTAN	Hydro	CHPC(4x90)	360.00	270.00	112.39	112.39	406.46	406.46
	Hydro	Kurichu (4x15)	60.00	60.00	36.86	36.86	67.26	67.26
	Hydro	TALA (6x170)	1020.00	1020.00	183.32	183.32	441.72	441.72
	Hydro	DAGACHU (2x63)	126.00	126.00	19.52	19.52	50.27	50.27
		Grand Total	36193.30	36028.30	16371.47	15259.52	48993.08	45655.38

PLANT LOAD FACTOR (PLF) OF THERMAL POWER STATIONS IN EASTERN REGION DURING THE MONTH OF JUNE' 2019

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 (2019-20) in MU	Cummulative PLF upto Current Month (%)
BIHAR	Thermal	Barauni (U# 6&7)	220.00	210.00	0.28	0.19	8.57	1.87
		Muzaffarpur Stg-I	220.00	220.00	83.83	52.92	296.72	61.75
		Thermal Total	440.00	430.00	84.11	27.17	305.28	32.51
	RES		327.90	327.90	20.63		84.08	
		Total BIHAR	767.90	757.90	104.74		389.37	
JHARKHAND								
TVNL	Thermal	TVNL	420.00	420.00	175.86	58.15	591.84	64.52
JSEB	Hydro	Subarnrekha (U#1,2)	130.00	130.00	0.00		0.67	
	RES		39.00	39.00	0.00		0.00	
	Total	169.00	169.00	0.00		0.67		
DVC	Thermal	Bokaro-B(3)	210.00	210.00	4.78	3.16	61.23	13.35
		Chandrapura (3)	140.00	130.00	0.00	0.00	0.00	0.00
		Chandrapura(U7 # 8)	500.00	500.00	315.28	87.58	1004.66	92.00
		Durgapur(4)	210.00	210.00	21.39	14.15	55.57	12.12
		Mezia(1,2,3,4,5,6)	1340.00	1340.00	647.05	67.07	2102.68	71.85
		Mezia(U # 7,8)	1000.00	1000.00	531.66	73.84	1683.35	77.08
		Bokaro-A(1)	500.00	500.00	278.42	77.34	806.59	73.86
		Durgapur STPS (U#1,2)	1000.00	1000.00	573.14	79.60	1803.22	82.57
		Raghunathpur TPS (U#1,2)	1200.00	1200.00	478.38	55.37	1305.66	49.82
		Koderma STPS (U#1,2)	1000.00	1000.00	595.77	82.75	1871.90	85.71
	Total Thermal	7100.00	7090.00	3445.88	67.50	10694.87	69.07	
	Hydro	Maithon (U#1,2,3)	63.20	63.20	0.65		1.89	
		Panchet (U#1,2)	80.00	80.00	2.06		6.76	
		Tilaya (U#1,2)	4.00	4.00	0.00		0.00	
		Hydro Total	147.20	147.20	2.71		8.65	
Total DVC		7247.20	7237.20	3448.59		10703.51		
WEST BENGAL								
WBPDC	Thermal	Bandel TPS	380.00	335.00	148.63	61.62	353.57	48.33
		Santalalih TPS(U#5&6)	500.00	500.00	357.41	99.28	1031.52	94.46
		Kolaghat TPS	1260.00	1260.00	461.18	50.84	1233.77	44.83
		Bakreswar TPP	1050.00	1050.00	566.41	74.92	2005.37	87.45
		Sagardighi TPP	1600.00	1600.00	685.36	59.49	1922.15	55.01
		DPPS (110+300+250 *)	660.00	660.00	229.60	48.32	773.70	53.68
		Thermal Total	5450.00	5405.00	2448.59	62.92	7320.08	62.01
WBSEDCL	Hydro	Jaldhaka (3x9+2x4)	35.00	35.00	25.76		60.65	
		Ramam (4x12.73)	51.00	51.00	17.61		40.93	
		Teesta C.F. (3x3x7.3)	67.30	67.30	0.00		0.00	
		Purulia PSS (4x225)	900.00	900.00	106.58		269.29	
		Total Hydro	1053.30	1053.30	149.95		370.87	
		RES	407.15	407.15	0.00		0.48	

WBPDC, Bandel TPS Unit #3 & Unit #4 (IC=2X82.5 MW, EC=2X60 MW) decommissioned from 01.04.2018.

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 (2019-20) 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	40.27	41.43	141.58	48.02
		Budge-Budge (3x250)	750.00	750.00	526.33	97.47	1576.05	96.22
		Total CESC	1125.00	1125.00	566.60	69.95	1717.62	69.91
HEL	Thermal		600.00	600.00	398.03	92.14	1151.42	87.87
		Total West Bengal	8635.45	8590.45	3563.17		10560.48	
ODISHA (NTPC)	Thermal	Talcher-I	250.00	240.00	170.39	98.60	517.88	98.80
		Talcher-II	220.00	220.00	153.32	96.79	469.31	97.68
		Total Thermal	470.00	460.00	323.71	97.74	987.19	98.26
OPGC	Thermal	IB TPS	420.00	420.00	244.22	80.76	791.07	86.24
		IB TPS U#3(660 MW)			81.96		150.47	
		IB TPS U#4(660 MW)			54.81		75.23	
OHPC	Hydro	Hirakud-I (Burla)	275.50	275.50	37.56		99.94	
		Hirakud-II (Chiplima)	72.00	72.00	19.00		54.93	
		Balimela (6x60+2x75)	510.00	510.00	169.27		475.62	
		Rengali (5x50)	250.00	250.00	14.93		68.33	
		Upper Kolab (4x80)	320.00	320.00	60.83		205.46	
		Indravati HPS (4x150)	600.00	600.00	70.64		479.39	
		Mckd.(Odisha drawal)	57.38	57.38	26.81		78.52	
		Total Hydro	2084.88	2084.88	399.03		1462.18	
		RES	499.76	499.76	26.83		82.33	
		Total Odisha	3474.64	3464.64	1075.74		3473.23	
(**) SIKKIM	Hydro	RES	52.11	52.11	3.00		7.00	
NTPC		MTPS Stg-II	390	390	231.038	82.28	689.04	80.90
		FSTPP# I&II (3x200+2x500)	1600.00	1600.00	870.11	75.53	2757.71	78.92
		FSTPP (U# 6)	500.00	500.00	58.33	16.20	616.25	56.43
		KhSTPP (4x210+3x500)	2340.00	2340.00	1448.09	85.95	3948.78	77.27
		TSTPP (2x500)	1000.00	1000.00	562.13	78.07	1778.73	81.44
		BARH STPS II (2X660)	1320.00	1320.00	829.48	87.28	2582.80	89.59
		BRBCL # I,2,3(3X250 MW)	750.00	750.00	417.17	77.25	1185.71	72.39
		NPGC			67.31		79.57	
		Total NTPC	7900.00	7900.00	4483.65	77.64	13638.59	78.59
NHPC	HYDRO	Rangit (3x20)	60.00	60.00	38.45		89.63	
		Teesta (3x170)	510.00	510.00	343.71		919.46	
		TLDP -(4x33+4x40)	292.00	292.00	159.09		366.45	
		Total NHPC	862.00	862.00	541.26		1375.53	
	Thermal	MPL (U#1&2)	1050.00	1050.00	465.92	61.63	1740.46	75.90
		APNRL (U#1,2)	540.00	540.00	277.29	71.32	746.44	63.29
		GMR (2x350)	700.00	700.00	289.27	57.39	1093.47	71.52
		JITPL (2X600)	1200.00	1200.00	512.62	59.33	1265.03	48.27
		CHUZACHEN** (2x55)	110.00	110.00	52.45		120.41	
		JORETHANG (2x48)	96.00	96.00	36.00		72.97	
		TEESTA URJA St III (6x200)	1200.00	1200.00	832.19		1940.11	
		Tashilding (2x48.5)	97.00	97.00	33.27		73.89	
		DICKCHU (2x48)	96.00	96.00	68.35		155.21	
		TALCHER SOLAR	10.00	10.00	1.20		3.93	
		Total Thermal (E.R)	27415.00	27340.00	13852.50	69.33	42269.06	70.28
EASTERN REGIONAL		Total Hydro (E.R)	5876.38	5876.38	2115.21		5580.48	
		Total RES	1335.92	1335.92	51.66		177.83	
		TOTAL (E.R)	34627.30	34552.30	16019.36		48027.36	
BHUTAN	Hydro	CHPC(4x90)	360.00	270.00	112.39		406.46	
	Hydro	Kurichu (4x15)	60.00	60.00	36.86		67.26	
	Hydro	TALA (6x170)	1020.00	1020.00	183.32		441.72	
	Hydro	DAGACHU (2x63)	126.00	126.00	19.52		50.27	
		Grand Total	36193.30	36028.30	16371.47		48993.08	

➤ Regional PLF has been calculated without considering the effective capacity of IBTPS-U#3, (660 MW) and New Nabinagar TPS U#1(660 MW) and their generations of 31.286 MU & 12.26 MU respectively during the month of May'19

CONTRIBUTIONS OF DIFFERENT CONSTITUENTS AT THE TIME OF REGIONAL PEAK
DURING THE MONTH OF JUNE'2019 (25-6-2019)

Date **25-Jun-19**
Time **21.00** Hrs.
Frequency **50.01** Hz.

(All Fig. in MW)

System/State	Installed Capacity	Effective Capacity	Hydro	Thermal	RES	Total
BSPHCL	768	758	0	170	0	170
JUVNL	589	589	0	285	0	285
DVC	7247	7237	21	4719	0	4741
ODISHA	3475	3465	811	748	45	1605
WBSEDCL	6250	6205	745	2865	0	3610
TLDP	292	292	289	0	0	289
HEL HALDIA	600	600	0	549	0	549
CESC	1125	1125	0	833	0	833
DPL	660	660	0	0	0	0
SIKKIM	52	52	0	0	0	0
NTPC	7900	7900	0	4706	0	4706
NHPC	570	570	582	0	0	582
CHUKHA	360	270	262	0	0	262
KURICHU	60	60	66	0	0	66
TALA	1020	1020	428	0	0	428
MPL	1050	1050	0	491	0	491
OPGC (660 MW)	0	0	0	-14	0	-14
APNRL	540	540	0	443	0	443
Kamalganga (GMR)	700	700	0	636	0	636
JITPL	1200	1200	0	988	0	988
Chuzachen	110	110	99	0	0	99
Jorethang	96	96	54	0	0	54
TEESTA URJA St III	1200	1200	1301	0	0	1301
Tashilding	97	97	71	0	0	71
DICKCHU	96	96	73	0	0	73
<u>Daghachu</u>	126	126	51	0	0	51
<u>Solar</u>	10	10	0	0	0	0
<u>0</u>	0	0	0	0	0	0
<u>Total</u>	36193	36028	4854	17422	45	22321
Import From Captive:						1085
Export To:						
NER						606
SR						1511
WR						-3954
NR						1266.77
Bangladesh						928.22
Nepal						239.52
Total						598
➤ I Net Peak Demand Met (MW) :						22808
Indicates Export(+)/Import(-) of Power						

Hourly Load Generation Data OF ER On Regional Peak Day During The Month of JUNE'2019 (25-6-2019)

(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	3386	18608	21994	1080	359	1458	21975	-6	169	22138
2	3494	18538	22033	1098	384	1926	21588	-6	2	21590
3	3474	18103	21577	1114	384	1859	21216	-6	2	21218
4	3295	17646	20942	1081	399	1516	20906	-18	2	20908
5	3319	17596	20915	1072	368	1380	20975	-13	10	20985
6	3322	17731	21054	1129	329	2873	19638	19	17	19674
7	3304	17821	21125	1074	93	3633	18658	42	112	18813
8	3341	17540	20882	892	113	3346	18541	-23	64	18581
9	3309	16886	20194	928	91	2582	18631	-21	65	18675
10	3202	16513	19715	933	-19	1654	18975	2	612	19589
11	3259	16614	19873	955	-31	1559	19238	10	1036	20284
12	3272	16505	19777	902	-43	1203	19433	7	560	20000
13	3435	16740	20175	926	-23	1076	20001	67	82	20150
14	3454	16465	19919	912	187	871	20148	18	135	20300
15	3679	16649	20328	952	328	733	20876	9	144	21029
16	3374	16734	20107	919	529	556	20999	-4	125	21119
17	3687	16678	20365	1035	593	1451	20542	41	59	20642
18	3296	16576	19872	1116	738	2376	19349	-7	24	19366
19	3010	16439	19449	1146	824	1471	19947	-12	19	19954
20	3871	17144	21015	1104	761	516	22363	100	67	22530
21	4143	17422	21564	1085	757	598	22808	-6	65	22867
22	3923	17498	21422	1111	765	688	22609	-8	63	22665
23	4252	17536	21788	1085	817	987	22704	0	153	22858
24	3412	17424	20836	1108	699	701	21941	-4	229	22167

Hourly Load Generation Data of ER On Regional Lean Day During The Month of JUNE'2019 (13-6-2019)

(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	2971	14476	17448	1069	394	2849	16061	6	222	16288
2	2620	14809	17429	1080	390	2761	16138	-24	216	16329
3	2650	14131	16781	1060	390	2300	15931	-28	209	16112
4	2653	13410	16063	847	385	1856	15439	-38	200	15601
5	2430	13351	15782	769	336	1779	15108	-33	192	15268
6	2070	13517	15588	800	312	2355	14346	-10	183	14518
7	2099	13377	15476	783	315	2783	13791	-8	157	13940
8	2291	13359	15650	624	335	2519	14090	-23	126	14193
9	2365	13557	15922	628	345	1864	15032	-22	96	15106
10	2496	13600	16095	660	351	963	16143	-11	63	16195
11	2486	14108	16593	785	351	451	17278	-9	43	17312
12	2345	14838	17183	935	360	433	18045	-24	31	18052
13	2773	15078	17850	836	396	443	18639	-15	20	18644
14	2878	15895	18772	860	422	1018	19036	-8	11	19038
15	3463	16922	20386	941	423	2025	19725	52	9	19785
16	3697	17399	21096	981	421	2278	20220	-5	3	20223
17	3533	17752	21286	986	440	2945	19767	-22	4	19771
18	3033	17516	20549	880	446	3287	18589	-36	9	18598
19	3351	17500	20851	945	437	2965	19268	-10	1	19270
20	4021	18252	22273	1135	410	2345	21474	26	0	21500
21	3691	18504	22195	1105	414	2113	21601	-11	2	21603
22	3761	18903	22664	1148	427	2267	21972	25	43	22040
23	3773	18955	22727	1161	398	2469	21818	63	47	21928
24	3927	18909	22836	1062	381	2481	21797	38	43	21878

NOTIFIED POWER CUTS/RESTRICTIONS ON INDUSTRIES & POWER SUPPLY TO AGRICULTURE SECTOR

FOR THE MONTH OF JUNE'2019

POWER CUT / RESTRICTIONS

BSPHCL	NO NOTIFIED CUTS/RESTRICTIONS However there was loadshedding of 8.27 MU
JUVNL	NO NOTIFIED CUTS/RESTRICTIONS However there was loadshedding of 9.17 MU
DVC	NO NOTIFIED CUTS/RESTRICTIONS. However there was loadshedding of 0.09 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 16.27 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-19

D A T E	H O U R S										INST. FREQ.				15 MIN. INTEGRATED			
	00	05	10	17	22	00												
	TO	TO	TO	TO	TO	TO	<49.9	49.9	>50.05	49.9	MAX	HRS.	MIN	HRS.	MAX	HRS.	MIN	HRS.
	05	10	17	22	24	24		TO	TO	TO	HZ		HZ		HZ		HZ	
01-Jun	50.01	50.06	49.97	49.96	49.87	49.99	14.10	63.10	22.80	63.10	50.25	07:45:50	49.72	22:11:40	50.19	0:00	49.79	0:00
02-Jun	49.97	50.07	50.02	50.01	50.06	50.02	4.60	56.00	39.40	56.00	50.26	18:04:00	49.67	00:06:00	50.20	0:00	49.78	0:00
03-Jun	50.03	50.04	50.00	50.01	50.00	50.02	2.40	65.50	32.20	65.50	50.18	18:03:10	49.84	14:24:10	50.10	0:00	49.89	0:00
04-Jun	50.02	50.00	49.92	49.91	49.90	49.95	21.50	63.90	14.60	63.90	50.13	08:00:50	49.66	22:27:10	50.09	0:00	49.71	0:00
05-Jun	49.94	49.97	49.92	49.92	49.85	49.93	28.90	67.40	3.70	67.40	50.15	18:02:00	49.69	23:06:30	50.08	0:00	49.75	0:00
06-Jun	49.95	49.97	49.96	50.01	49.98	49.97	11.80	78.30	9.90	78.30	50.14	18:03:40	49.80	05:24:30	50.09	0:00	49.83	0:00
07-Jun	49.99	49.96	49.94	49.96	49.91	49.96	13.30	79.10	7.70	79.10	50.14	19:02:30	49.73	22:18:20	50.06	0:00	49.82	0:00
08-Jun	49.96	49.98	49.95	49.91	49.88	49.95	20.30	75.50	4.20	75.50	50.13	10:00:40	49.64	22:12:30	50.06	0:00	49.79	0:00
09-Jun	49.93	50.02	49.96	49.98	49.92	49.97	11.26	77.65	11.09	77.65	50.16	19:03:20	49.74	00:07:20	50.09	0:00	49.78	0:00
10-Jun	49.99	49.98	49.92	49.97	49.82	49.95	20.60	71.30	8.10	71.30	50.12	04:02:50	49.65	22:53:10	50.07	0:00	49.72	0:00
11-Jun	50.02	50.02	50.00	49.93	49.84	49.98	13.20	64.30	22.50	64.30	50.21	08:04:30	49.63	22:10:50	50.14	0:00	49.78	0:00
12-Jun	49.94	50.02	50.01	50.07	50.02	50.01	6.48	61.44	31.74	61.44	50.26	19:03:00	49.74	03:10:50	50.18	0:00	49.81	0:00
13-Jun	50.04	50.03	50.01	50.00	49.93	50.01	4.90	61.30	33.80	61.30	50.19	18:03:50	49.78	22:19:00	50.11	0:00	49.84	0:00
14-Jun	49.98	50.01	49.98	49.95	49.91	49.98	12.10	71.40	16.50	71.40	50.23	08:03:10	49.75	21:20:40	50.10	0:00	49.82	0:00
15-Jun	49.98	50.04	50.05	50.04	49.99	50.02	2.70	61.00	36.30	61.00	50.26	08:04:00	49.85	00:16:50	50.22	0:00	49.84	0:00
16-Jun	50.01	50.11	50.00	50.00	49.99	50.02	0.80	69.50	29.70	69.50	50.31	09:49:20	49.76	00:18:20	50.27	0:00	49.91	0:00
17-Jun	50.02	50.03	50.00	50.01	49.98	50.01	5.80	64.80	29.40	64.80	50.24	07:34:10	49.72	22:13:40	50.18	0:00	49.81	0:00
18-Jun	50.02	49.96	49.94	49.93	49.97	49.96	20.40	65.90	13.70	65.90	50.18	00:01:20	49.79	05:51:10	50.10	0:00	49.78	0:00
19-Jun	49.99	49.97	49.97	49.99	49.95	49.98	8.40	80.70	10.90	80.70	50.19	18:03:50	49.71	09:14:50	50.08	0:00	49.88	0:00
20-Jun	49.99	49.99	50.01	49.92	49.97	49.98	12.80	70.50	16.70	70.50	50.18	15:35:30	49.82	19:29:10	50.13	0:00	49.77	0:00
21-Jun	50.00	49.98	49.99	49.99	50.00	49.99	5.20	82.50	12.30	82.50	50.16	16:03:20	49.72	19:12:10	50.09	0:00	49.90	0:00
22-Jun	49.99	50.00	49.98	50.00	49.87	49.98	10.00	74.80	15.20	74.80	50.16	18:03:00	49.75	22:20:00	50.15	0:00	49.77	0:00
23-Jun	49.98	49.99	49.98	49.97	49.98	49.98	10.10	69.50	20.40	69.50	50.18	03:40:00	49.75	22:12:00	50.15	0:00	49.84	0:00
24-Jun	49.99	49.98	50.01	49.99	49.95	49.99	5.70	78.00	16.30	78.00	50.21	13:01:50	49.77	22:32:20	50.10	0:00	49.83	0:00
25-Jun	50.01	49.99	49.97	49.98	50.00	49.99	8.40	76.10	15.50	76.10	50.16	18:01:40	49.72	19:25:30	50.07	0:00	49.80	0:00
26-Jun	49.99	50.03	50.02	50.03	50.03	50.02	0.84	68.24	30.92	68.24	50.23	08:02:30	49.86	00:06:10	50.14	0:00	49.92	0:00
27-Jun	50.04	50.03	50.01	50.01	49.96	50.02	1.90	74.40	23.70	74.40	50.17	13:04:50	49.84	14:22:20	50.10	0:00	49.88	0:00
28-Jun	50.02	50.01	50.01	50.00	50.00	50.01	0.40	75.30	24.30	75.30	50.19	13:06:00	49.86	22:11:40	50.14	0:00	49.95	0:00
29-Jun	49.98	49.98	49.95	49.97	49.95	49.97	12.80	76.90	10.30	76.90	50.16	17:05:40	49.72	00:04:10	50.12	0:00	49.80	0:00
30-Jun	50.01	50.02	50.04	49.97	49.93	50.00	4.74	66.32	28.94	66.32	50.19	14:05:10	49.78	22:13:20	50.14	0:00	49.86	0:00
MAX	50.04	50.11	50.05	50.07	50.06	50.02	28.90	82.50	39.40	82.50	50.31		49.86		50.27		49.95	
MIN	49.93	49.96	49.92	49.91	49.82	49.93	0.40	56.00	3.70	56.00	50.12		49.63		50.06		49.71	
AVG	49.99	50.01	49.98	49.98	49.95	49.99	9.88	70.36	19.76	70.36	50.19		49.75		50.12		49.82	

SUMMARY:

Avg. Frequency :

50.0 Hz.

Instantaneous Frequency :

Maximum Frequency : 50.31 Hz at 09:49 Hrs.

Minimum Frequency : 49.63 Hz at 22:10 Hrs.

15 Minutes Integrated Frequency :

Maximum Frequency : 50.27 Hz On 00/01/00 at 00:00 Hrs.

Minimum Frequency : 49.71 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	9.88	70.36	19.76

VOLTAGE ANALYSIS

MAXIMUM & MINIMUM VOLTAGES RECORDED AT IMPORTANT 400 kV S/S IN THE MONTH OF JUNE'2019

(All figs. in kV)

PGCIL	BINAGURI		MAITHON		JEERAT		BIHARSHARIFF	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	421	402	426	388	426	373	418	393

PGCIL	MUZAFFARPUR		JAMSHEDPUR		ROURKELA		JEYPORE	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	423	387	420	393	422	403	418	399

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 48.6 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-19

(All figs.in mtrs.)

Name of the Reservoirs	FRL	MDDL	As on last day of the		As on first day of this month & date	
			(30-06-19)	(30-06-18)		
Hirakud	192	180	182.48	183.12	183.95	01.06.19
Balimela	462	439	443.67	441.38	446.99	01.06.19
Rengali	123	109	110.59	111.09	111.63	01.06.19
Upperkolab	858	844	846.16	845.86	847.57	01.06.19
Indravati	642	625	628.40	626.98	628.87	01.06.19
Subernrekha	590	580	584.48	583.84	584.70	01.06.19

B.

CPP/IPP IMPORT by Eastern Region Constituents during

Jun-19

(All figs. are in MU)

System	Tata Power	Crescent Power	JSPL, Angul	Sterlite	Jindal	NALCO	TISCO	Others	Total
JUVNL	0	0	0	0	0	0	0	0	44.18
West Bengal	64.07	22.02	0	0	0	0	0	39.19	125.28
ODISHA	0	0	89.14	148.76	7.10	0.09	0	387.67	632.76
DVC	0	0	0	0	0	0	14.08	0	14.08
TOTAL	64.07	22.02	89.14	148.76	7.10	0.09	14.08	426.86	816.30

C.

Distribution of Schedule Supply among Key Customers by IPPs during

Jun-19

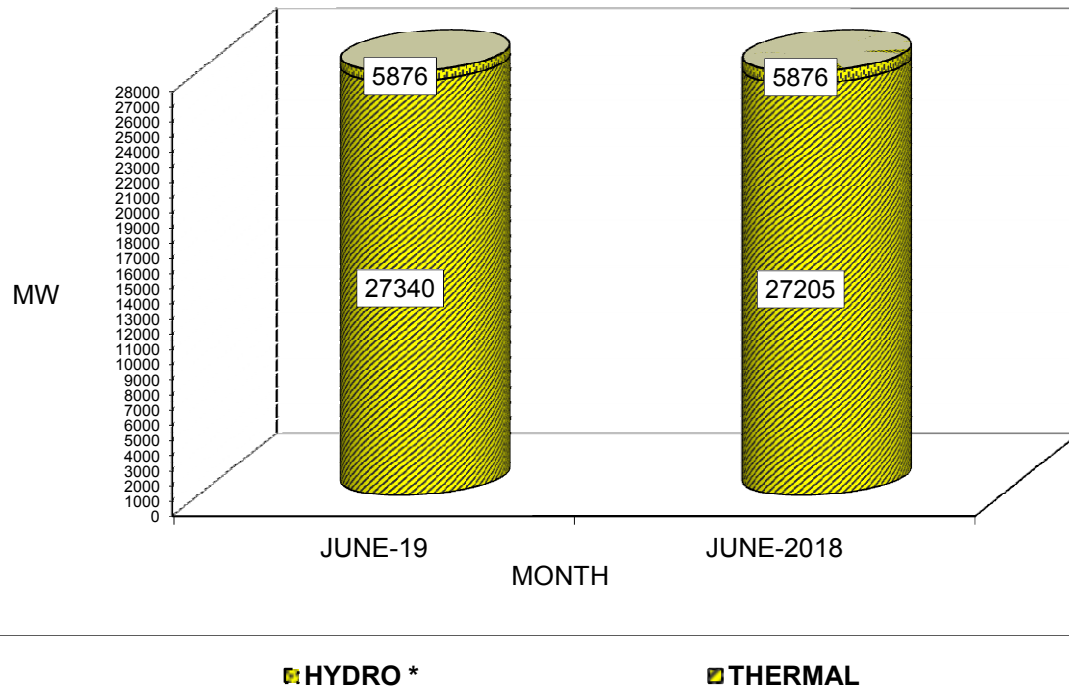
(All figs. are in MU)

IPP	TPDDL	WBSEDCL/ WBPDCCL	DVC	Sale at IEX/NPCL	ODISHA	JSEB	CTU/Others	Total (Excl. Tr. Loss)
MPL	131.47	108.52	72.82	0.00	0	0	121.13	433.94
Sterlite	0	0	0	0	0.00	0	0.00	0.00
APNRL	0	14.34	0	35.35	0.00	135.97	71.90	257.560
Total	131.47	122.86	72.82	35.35	0.00	135.97	193.03	691.50

Task/ Works performed by ERPC during JUNE, 2019		
Sl. No.	Period	Date of Issue of Report
1	RTA MAY-2019	04/06/2019
2	REA April 2019-Rev-I	04.06.2019
3	DSM, RRAS, FRAS & SCED Accounts 130519-190519	06.06.2019
4	REA May 2019	06.06.2019
5	DC- Teesta III – May 2019	06.06.2019
6	VAR Account 130519-190519	06.06.2019
7	DSM, RRAS, FRAS & SCED Accounts 200519-260519	07.06.2019
8	Bilateral REA for May -2019	07.06.2019
9	VAR Account 200519-260519	07.06.2019
10	DSM & FRAS Accounts 060519-120519(Revision-I)	10.06.2019
11	Progress Report-April_2019	10.06.2019
12	REA Bhutan May-19	10.06.2019
13	AS-3 Format 16.06.19-15.07.19	11.06.2019
14	RTA May-2019(Revision-I)	11/06/2019
15	RTA April-2019(Revision-I)	11/06/2019
16	Bilateral REA for May -2019- Rev-I	13.06.2019
17	VAR Account 270519-020619	17.06.2019
18	DSM, RRAS, FRAS & SCED Accounts 270219-020619	17.06.2019
19	REA May 2019-Rev-I	19.06.2019
20	DSM, RRAS, FRAS & SCED Accounts 030619-090619	26.06.2019
21	VAR Account 030619-090619	26.06.2019
22	Transmission System Availability Certificate for CBPTCL Transmission Elements for April-19	17.06.2019
23	Transmission System Availability Certificate for Powerlinks Transmission Elements for April-19	19.06.2019
24	Transmission System Availability Certificate for TPTL Transmission Elements for April-19	17.06.2019
25	Transmission System Availability Certificate for PKTCL Transmission Elements for April-19	19.06.2019
26	Transmission System Availability Certificate for OPGCL Transmission Elements for April-19	19.06.2019
27	Transmission System Availability Certificate for DMTCL Transmission Elements for April-19	17.06.2019
28	Transmission System Availability Certificate for POWERGRID Transmission Elements for March-19	03.06.2019
29	Transmission System Availability Certificate for ENICL Transmission Elements for March-19	03.06.2019
30	Transmission System Availability Certificate for ENICL Transmission Elements for April-19	19.06.2019
31	Provisional Power Supply Position for May-2019	07.06.2019

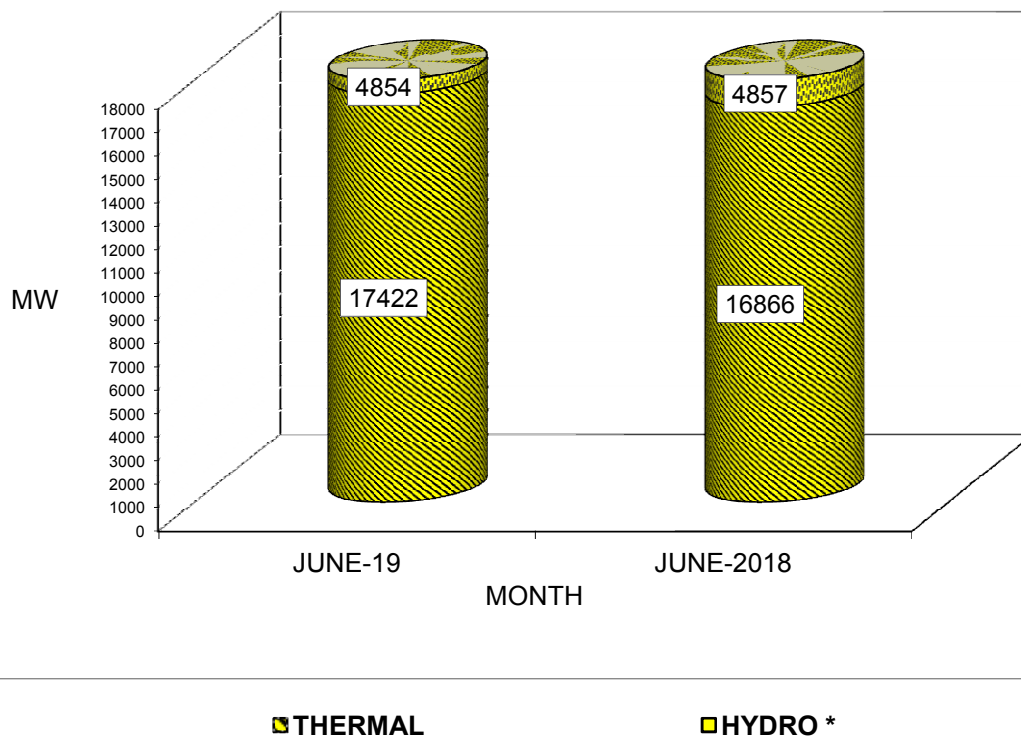
List of Meetings / Workshops held during JUNE, 2019			
Sl. No.	Description	Date	Venue
1	3rd Special SCADA Meeting	07.06.2019	ERLDC, Kolkata
2	Meeting with CPWD	11.06.2019	ERLDC, Kolkata
3	Monthly ISO Review Meeting	11.06.2019	ERPC, Kolkata
4	Meeting with CERC	24.06.2019	CERC, New Delhi
5	80th PCC Meeting	25.06.2019	ERPC, Kolkata
6	158th OCC Meeting	27.06.2019	Bakreswar TPP

EFFECTIVE CAPACITY OF EASTERN REGIONAL GRID



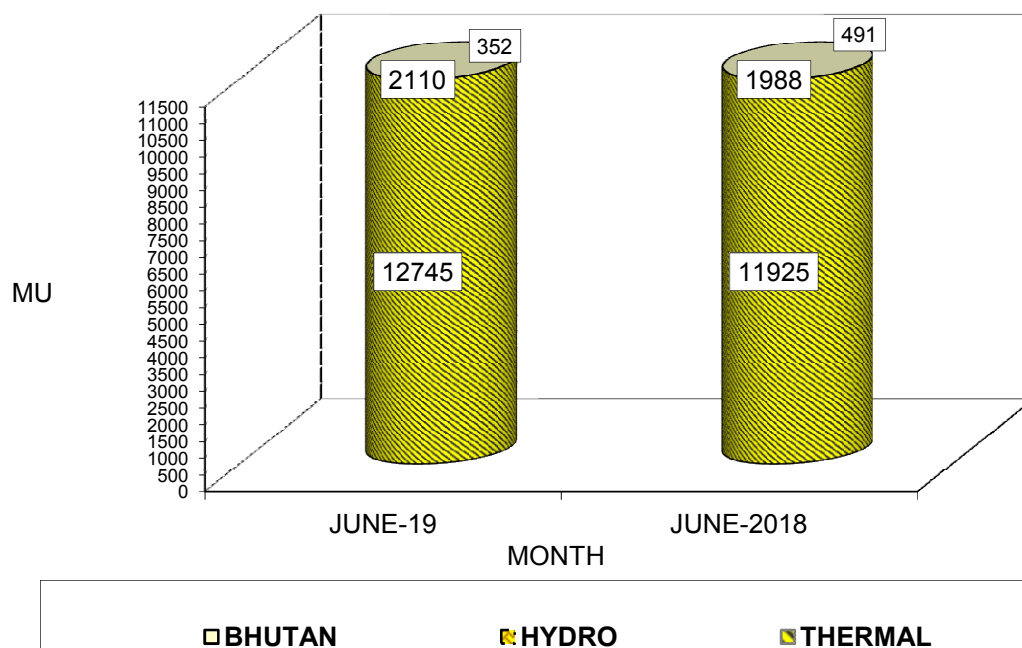
*Excludes 1350 MW contribution from HEPs of Bhutan

GENERATION CORRESPONDING TO PEAK DEMAND MET

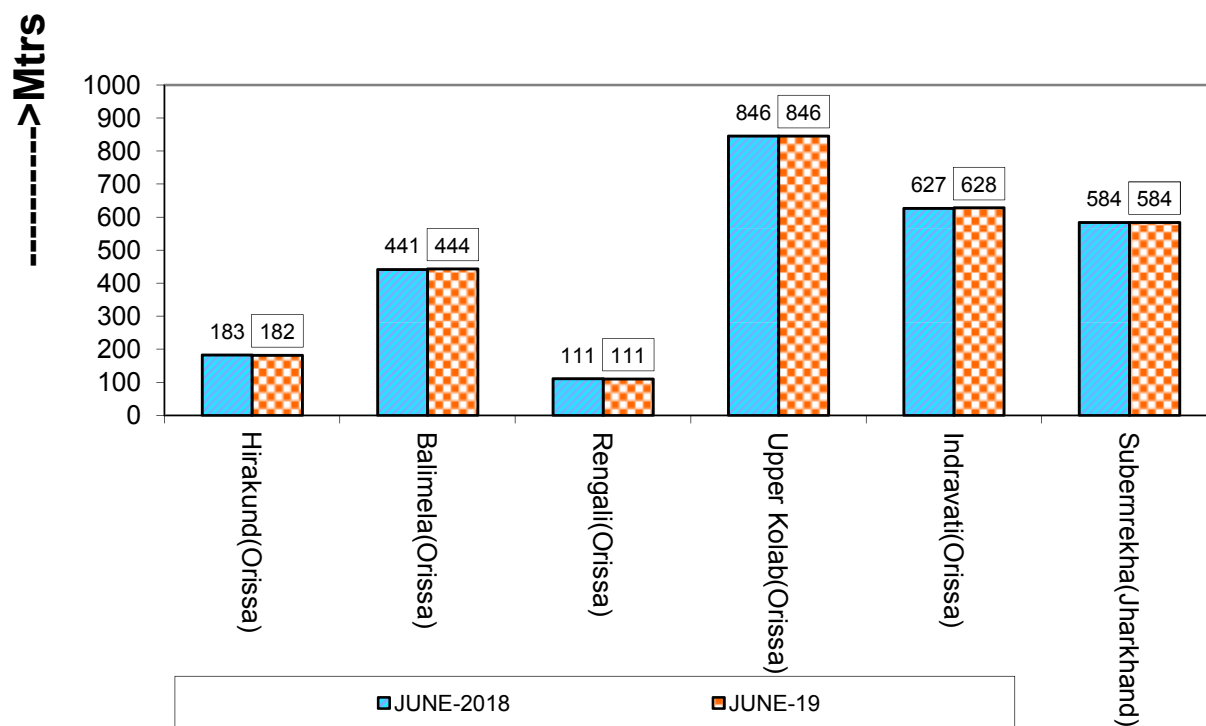


*Includes contribution from HEP of Bhutan

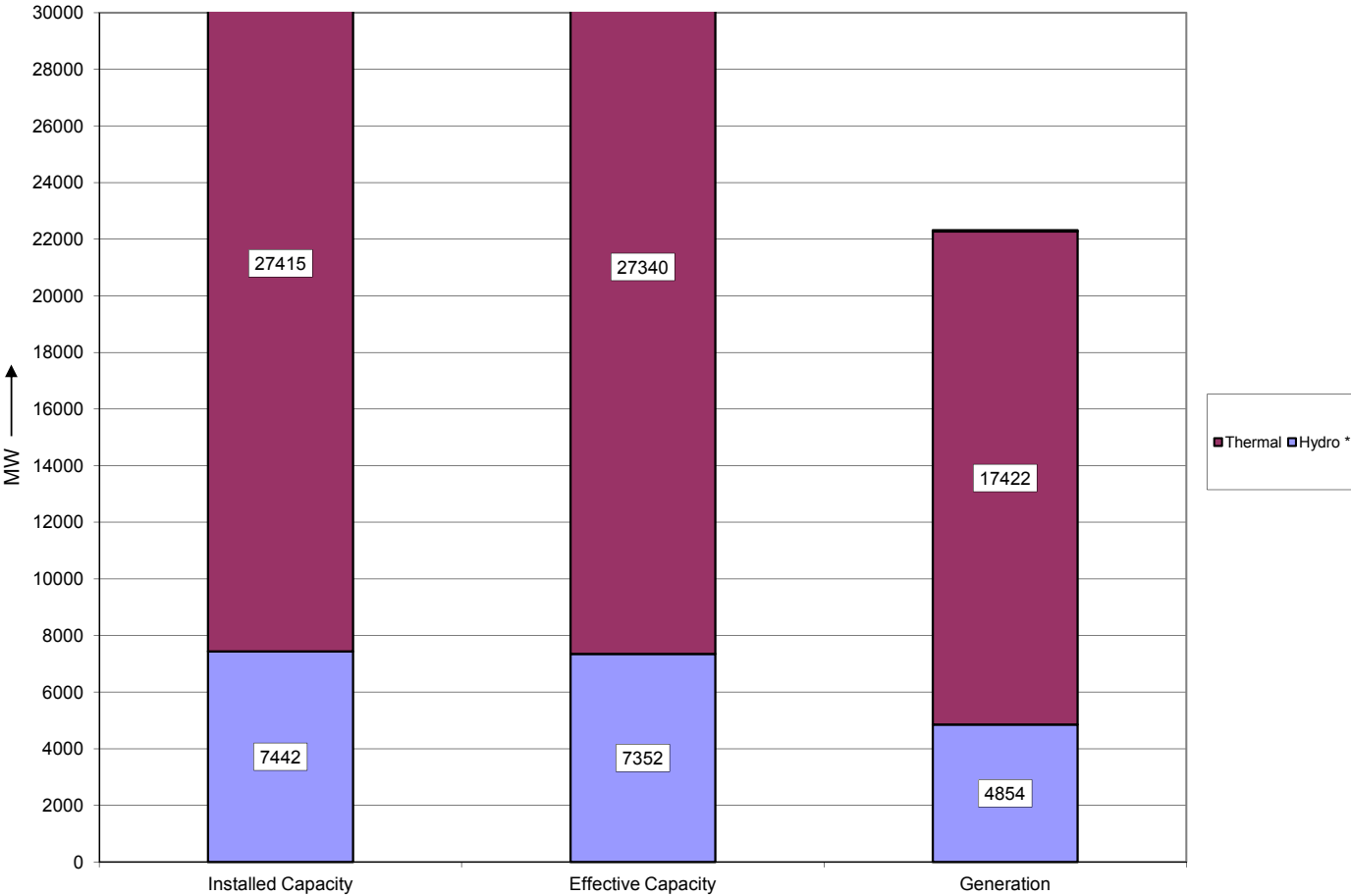
NET ENERGY GENERATION



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

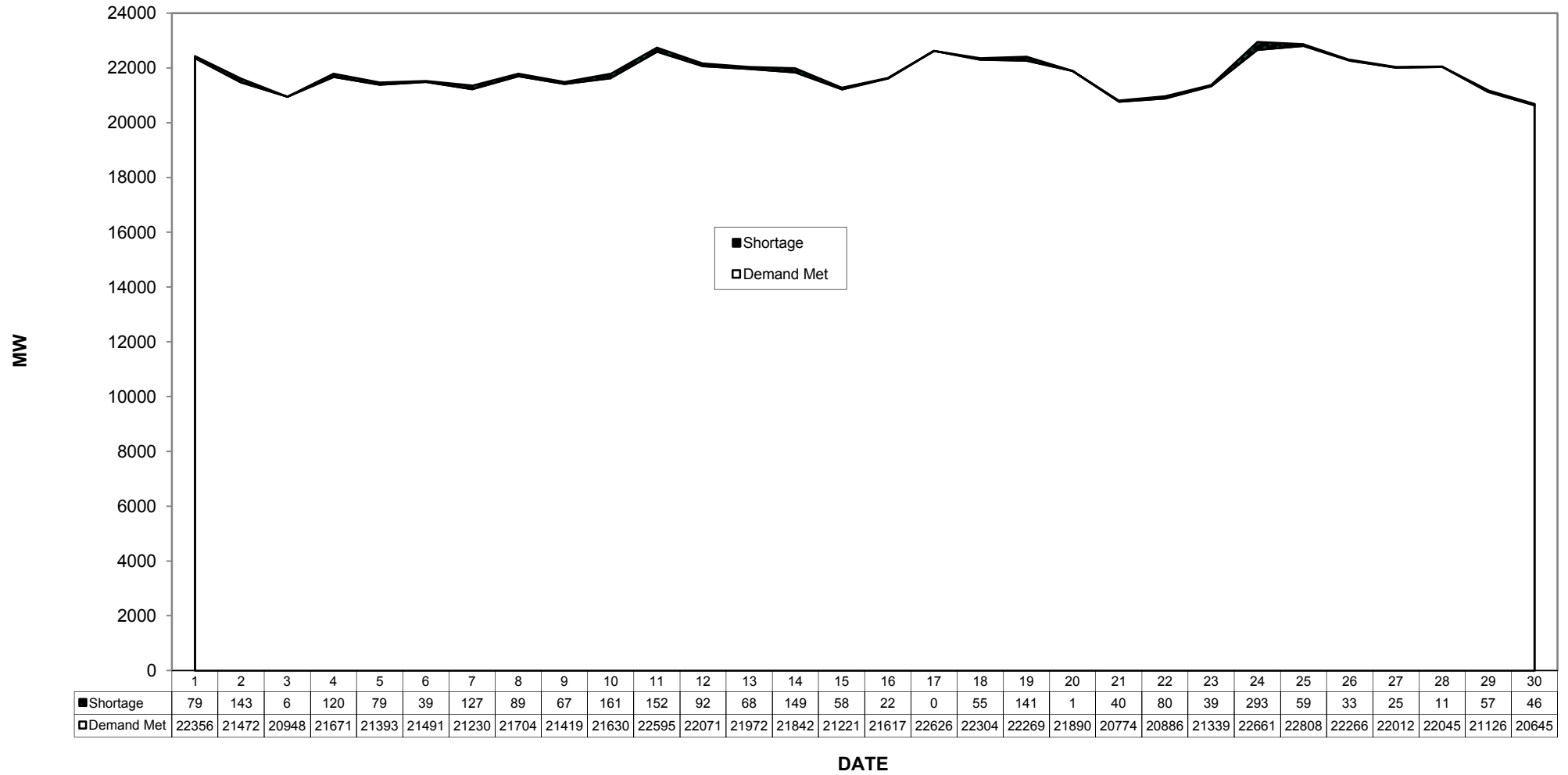


Capacity / Actual Generation Pattern of ER on Peak Day (25-6-2019) at 21.00 hrs.

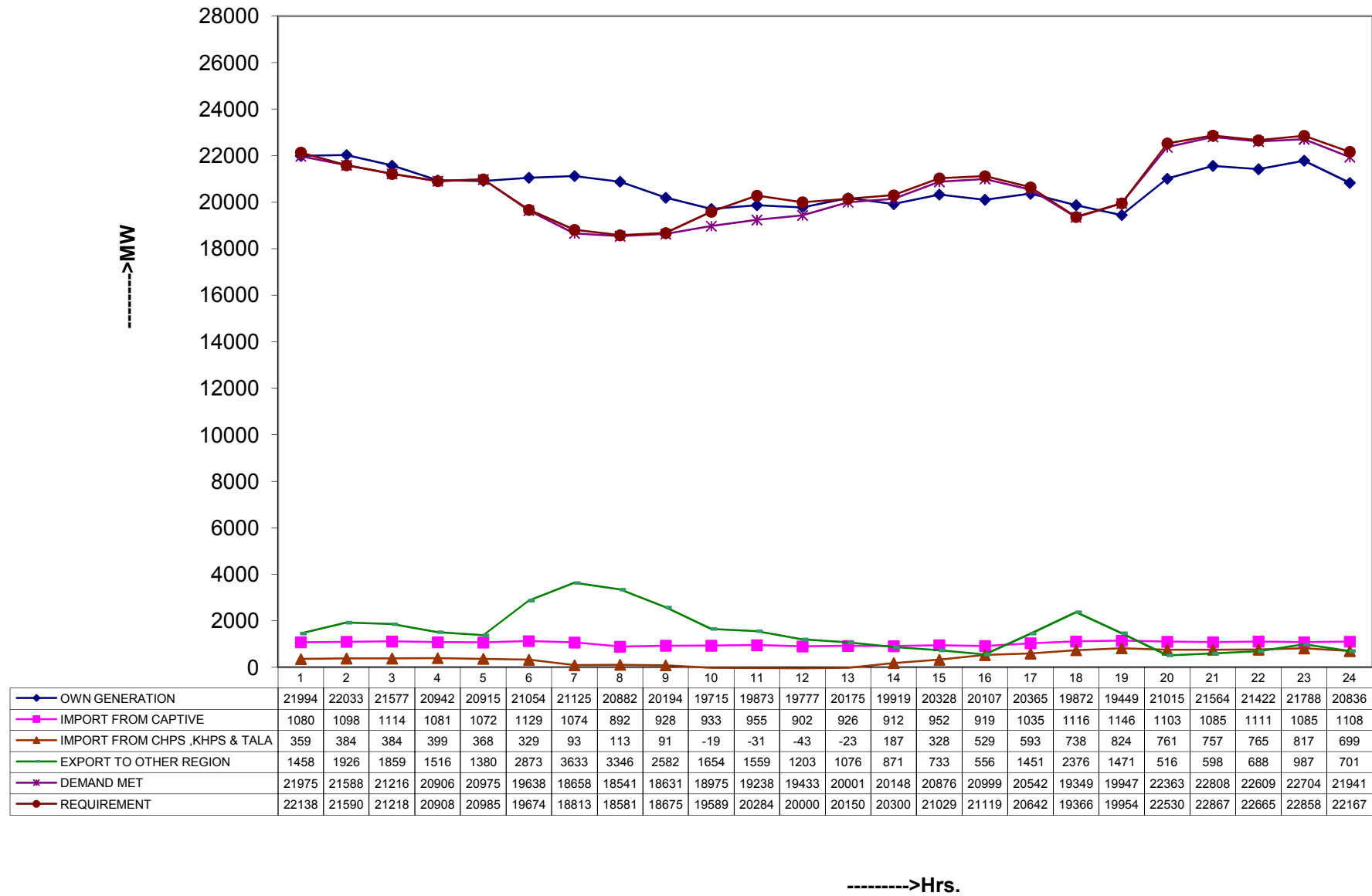


(*)--Includes contribution from HEP of Bhutan (Chukka, Kurichhu & Tala)

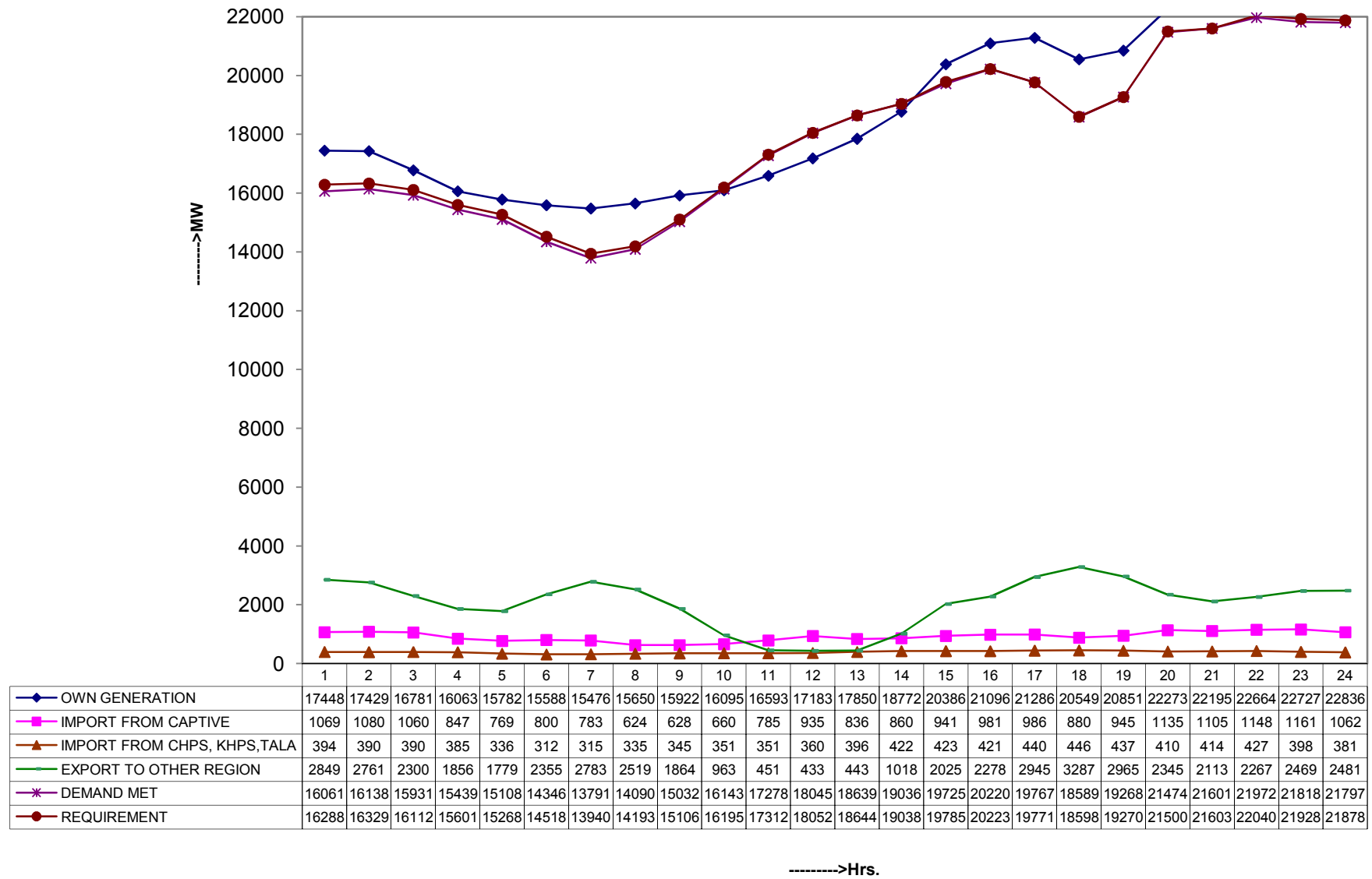
Peak Demand Met / Shortage of Eastern Region For The Month Of JUNE'2019



Hourly Load Generation Data OF ER On Regional Peak Day During The Month of JUNE'2019 (25-6-2019)

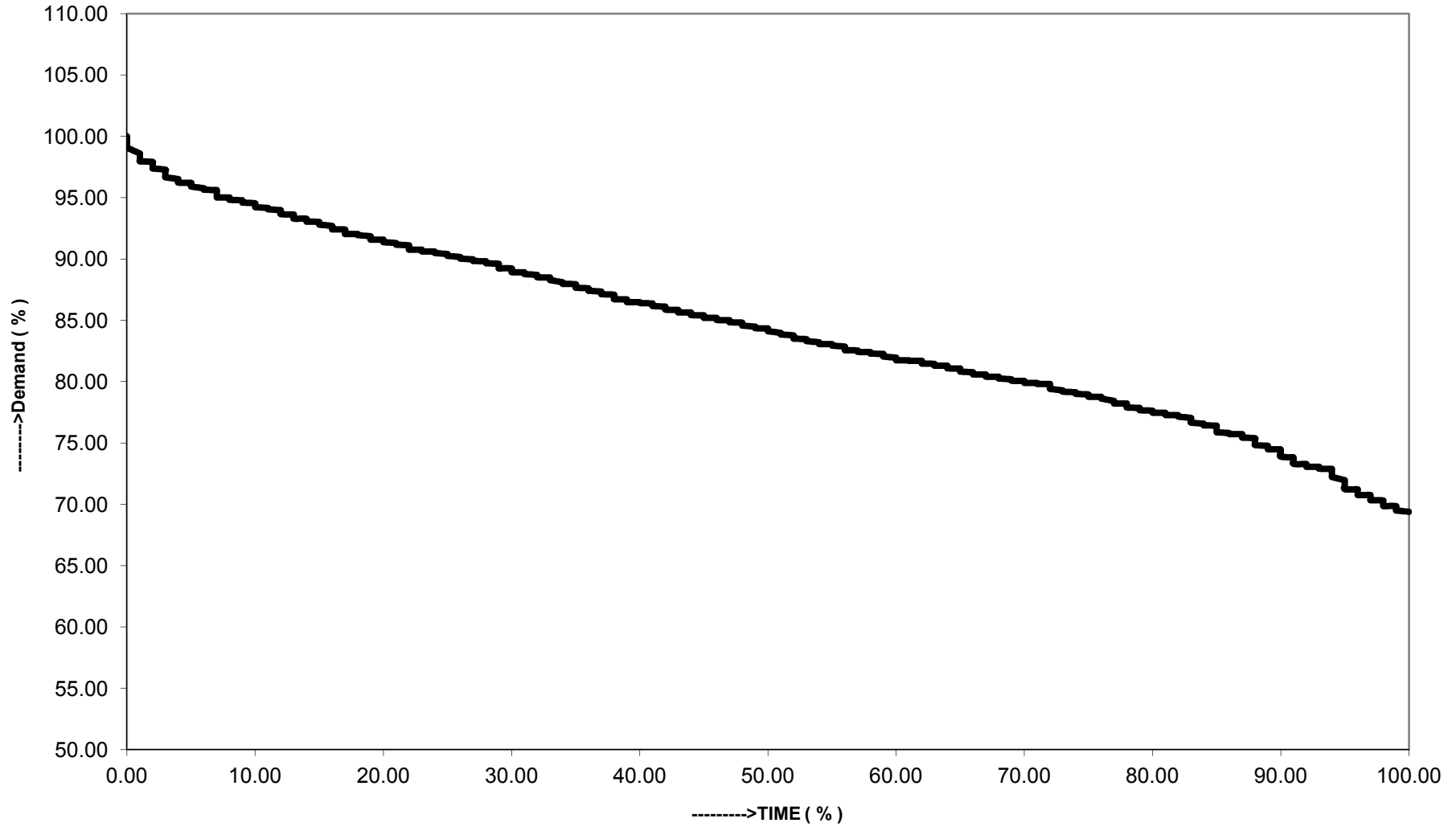


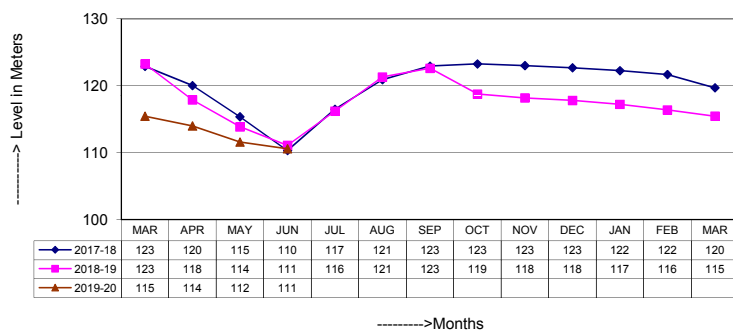
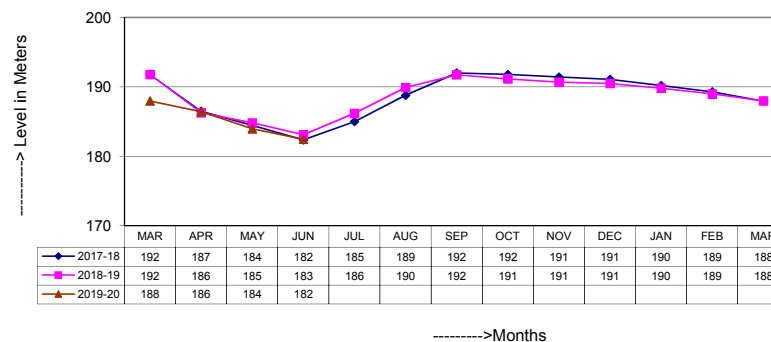
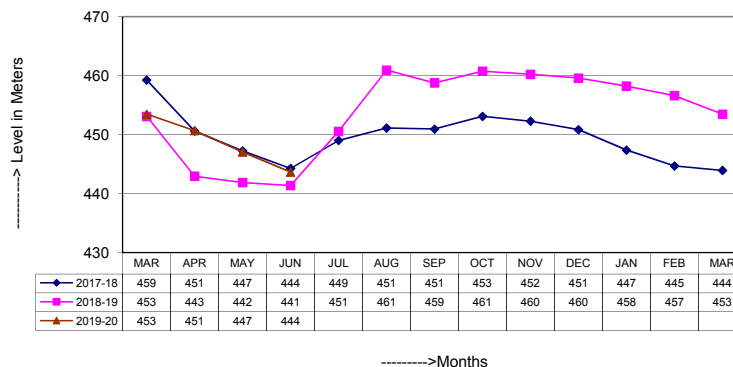
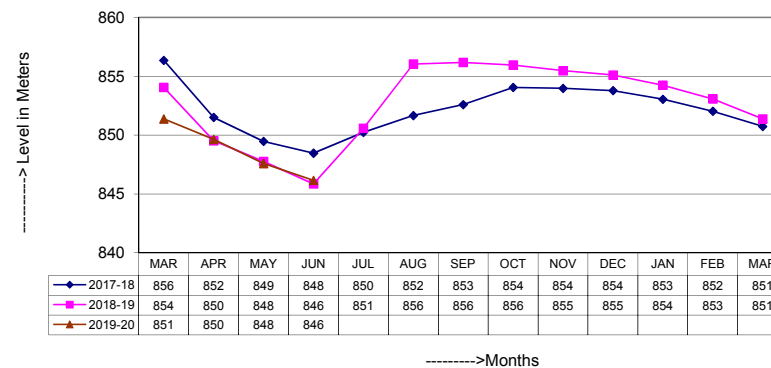
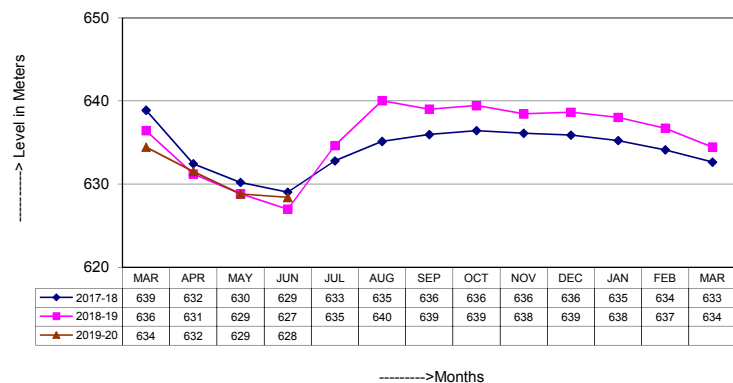
Hourly Load Generation Data of ER On Regional Lean Day During The Month of JUNE'2019 (13-6-2019)



Monthly Load Duration Curve of Eastern Region for JUNE-19

Maximum Demand met : 22808 MW
Minimum Demand met: 13791 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**