



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

अप्रैल- 2019

April-2019



14, गोल्फ क्लब रोड, टोलीगंज

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Highlights of Eastern Regional Power System for April-2019

- The **Maximum Net Demand** met of **Eastern Region (ER)** during the month of **Apr, 2019** was **22378 MW** which is 6.27% more than the **Apr, 2018** (21058 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 **Apr, 2019** was **428.7 MU** excluding export, which is 8.92% more than the corresponding period of last year (393.59 MU).
- The **Average regional PLF of thermal units during the month is 70.75%**, which is marginally more than the corresponding period of the last year (**70.35%**).

NTPC (TPPS) registered the highest **PLF** of 98.98%, followed by WBPDC (Bakreswar TPP) 97.06%, CESC (Budge-Budge) 93.73%, and DVC(Chandrepura) 92.21 % during the month of **Apr, 2019**.

- **Maximum Net generation** was **24556 MW** against total **Effective Capacity of 35578.43 MW** (including import from Bhutan). At the time of Regional peak (22378 MW on 04.04.2019 at 20.00 hrs.) the generation was 24266 MW and import from CPP was 1512 MW, Net export was 3400 MW.
- The system frequency in the IEGC recommended band (49.9 Hz to 50.05 Hz) remained for 73.12% of time during the month. **Average frequency** for the month was **50.00 Hz**. The instantaneous maximum and the minimum frequency touched were 50.29 Hz and 49.65 Hz respectively. The integrated (Fifteen minutes time block average) maximum and minimum frequency were **50.26 Hz** and **49.73 Hz** respectively (**refer Annexure-I**).
- The **Maximum Voltage** recorded **428 KV** at Rourkela 400 KV S/s whereas the minimum voltage recorded 372 KV at Rourkela 400 KV S/s of Power grid.
- The **Maximum Export from ER to outside region** was **7894 MW (including Nepal and Bangladesh)** on **9th Apr, 2019** at **24:00 hrs**. Total net energy export during the month was **2459.86 (Inc.Transmission loss) MU** which is corresponds to **16.84 %** of ex-bus total generation **14610.72MU** of Eastern Region.
- The import from CPPs was **710.38 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	4099	0	1643.62
WR	0	3602	-1388.4
SR	3415	0	1823.17
NER	706	1275	-351.31
BANGLADESH	966		576.94
NEPAL (via-CTU)	254		155.58
Total(Net)			2459.59
NEPAL by Bihar(NBPDCL)			73.55

SALIENT FEATURES

(YEAR TO YEAR COMPARISION)

		Apr-19	Apr-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)	886	886	0	0
	TOTAL (MW)	34102	33967	135	0.40
2)	Peak Demand (MW)	22415	21128	1287	6.09
3)	Peak Demand Met (MW)	22378	21058	1320	6.27
4)	Shortage (MW)	37	70	-33	-47.11
5)	% Shortage	0.17	0.33	-0.16	-49.95
6)	Average Energy Requirement Per Day (MU)	429.56	396.98	32.58	8.21
7)	Average Energy Availability Per Day (MU)	428.71	393.59	35.12	8.92
8)	Average Shortage Per Day (MU)	0.85	3.39	-2.54	-74.82
9)	% Shortage	0.20	0.85	-0.65	-76.62
10)	Net Generation for the Month				
	Thermal (MU)	12884.07	12726.31	157.76	1.24
	Hydro (MU)	1653.78	* 1093.53	560.25	51.23
	RES (MU)	72.87	0.00	0.00	-
	Total (MU)	14610.72	13854.08	756.64	5.46
11)	Generation at the Time of Max. Regional Demand Met (04-04-19 at 20.00 Hrs.)				
	Thermal (MW)	20123	19014	1109	5.83
	Hydro (MW)	4125	* 3103	1022	32.94
	RES(MW)	18	0	18	-
	Total (MW)	24266	22117	2149	9.72
12)	Inter-Regional Energy Transfer				
	Export (MU)	4199.56	3253.04	946.52	29.10
	Import (MU)	1739.71	542.98	1196.73	220.40
	Net Exp.(+)/Net Imp.(-) (MU)	2459.85	2710.06	-250.21	-9.23
13)	Import From Captive(MU)	710.39	728.33	-17.94	-2.46
14)	Peak Inter Regional Power Transfer				
	Max Export (MW) on 09-04-19 at 24.00Hrs	7894	6135	1759	28.67
	Max Import (MW) on 29-04-19 at 21.00Hrs	3758	2592	1166	44.99
	Max Net Export(+)/Import (-) (MW)	5978	5971	7	0.12
15)	Maximum voltage recorded	428	ROURKELA	400 kv	s/s
16)	Minimum voltage recorded	372	ROURKELA	400 kv	s/s

\$ Excludes 1566 MW contribution from HEPs of Bhutan

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

Due to de-commissioning of Units

POWER SUPPLY POSITION FOR THE MONTH OF APRIL'2019

A) Net Average Energy Per Day

System	Demand Met (MU/Day)	Requirement (MU/Day)	Shortage (MU/Day)	% Shortage
BSPHCL	87.38	87.52	0.14	0.16
JUVNL	23.80	24.13	0.34	1.39
DVC	64.72	64.81	0.08	0.13
ODISHA	90.62	90.65	0.03	0.03
WBSEDCL	126.35	127.14	0.79	0.62
CESC	33.89	33.90	0.01	0.03
SIKKIM	1.42	1.42	0.00	0.03
REGION	428.71	429.56	0.85	0.20

B) Peak Demand in MW:

System	Demand Met (MW)	Requirement (MW)	Shortage (MW)	% Shortage
BSPHCL	5155	5157	2	0.04
JUVNL	1325	1326	1	0.04
DVC	3014	3014	0	0.00
ODISHA	5140	5142	3	0.05
WBSEDCL	6913	6950	36	0.52
CESC	2124	2124	0	0.0
SIKKIM	98	98	0	0.00
REGION	22378	22415	37	0.17

➤ **DIVERSITY FACTOR** **1.06**

➤ **Regional Peak Demand Met on 4-4-2019 at 20.00 hrs. at 49.99 Hz.**

CONSTITUENT-WISE PERFORMANCE DATA APRIL-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	110.91	42.27	153.17	0.00	12.76	0.00	12.76	0.00	98.15	42.27	140.41	0.00	2480.99	2621.41	87.4	5155	5177
JUVNL	0.21	191.75	0.00	191.96	0.00	23.95	0.00	23.95	0.21	167.80	0.00	168.01	47.85	498.07	713.93	23.8	1325	1371
DVC	3.04	3628.09	0.00	3631.13	0.08	256.04	0.00	256.11	2.96	3372.06	0.00	3375.02	14.69	-1448.08	1941.63	64.7	3015	3418
ODISHA(OPGC+OHPC+TTPS)	505.77	642.57	27.75	1176.09	2.37	63.04	0.00	65.41	503.39	579.53	27.75	1110.68	534.76	1073.24	2718.68	90.6	5140	5229
WBPDC+WBSEDCL+DPL	91.02	2402.50	0.48	2494.00	0.00	220.37	0.00	220.37	91.02	2182.14	0.48	2273.64	113.08	1403.72	3790.44	126.3	6913	7273
CESC	0.00	551.16	0.00	551.16	0.00	43.15	0.00	43.15	0.00	508.01	0.00	508.01	0.00	508.76	1016.77	33.9	2124	2189
HEL	0.00	352.39	0.00	352.39	0.00	27.24	0.00	27.24	0.00	325.14	0.00	325.14	0.00	-325.14				
SIKKIM	0.00	0.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.00	41.54	42.54	1.4	98	98
NTPC	0.00	4451.30	0.00	4451.30	0.00	324.38	0.00	324.38	0.00	4126.92	0.00	4126.92	0.00	-4126.92				
MPL	0.00	611.06	0.00	611.06	0.00	35.35	0.00	35.35	0.00	575.71	0.00	575.71	0.00	-575.71				
APNRL	0.00	239.72	0.00	239.72	0.00	22.18	0.00	22.18	0.00	217.54	0.00	217.54	0.00	-217.54				
GMR	0.00	409.89	0.00	409.89	0.00	28.70	0.00	28.70	0.00	381.19	0.00	381.19	0.00	-381.19				
JITPL	0.00	373.82	0.00	373.82	0.00	23.96	0.00	23.96	0.00	349.86	0.00	349.86	0.00	-349.86				
75.944																		
NHPC (Inc TLDP= 75.944 MU)	321.12	0.00	0.00	321.12	0.00	0.00	0.00	0.00	321.12	0.00	0.00	321.12	0.00	-321.12	0.00			
CHPC(Birpara Receipt)	156.13	0.00	0.00	156.13	0.00	0.00	0.00	0.00	156.13	0.00	0.00	156.13	0.00	-156.13	0.00			
KHPS	6.25	0.00	0.00	6.25	0.00	0.00	0.00	0.00	6.25	0.00	0.00	6.25	0.00	-6.25	0.00			
THPS	75.70	0.00	0.00	75.70	0.00	0.00	0.00	0.00	75.70	0.00	0.00	75.70	0.00	-75.70	0.00			
DAGACHU HPS	14.77	0.00	0.00	14.77	0.00	0.00	0.00	0.00	14.77	0.00	0.00	14.77	0.00	-14.77	0.00			
CHUZACHEN HPS	21.55	0.00	0.00	21.55	0.00	0.00	0.00	0.00	21.55	0.00	0.00	21.55	0.00	-21.55	0.00			
JORHANG HPS	15.80	0.00	0.00	15.80	0.00	0.00	0.00	0.00	15.80	0.00	0.00	15.80	0.00	-15.80	0.00			
TEESTA-III HPS	405.13	0.00	0.00	405.13	0.00	0.00	0.00	0.00	405.13	0.00	0.00	405.13	0.00	-405.13	0.00			
DIKCHU HPS	22.59	0.00	0.00	22.59	0.00	0.00	0.00	0.00	22.59	0.00	0.00	22.59	0.00	-22.59	0.00			
TASHIDING HPS	17.16	0.00	0.00	17.16	0.00	0.00	0.00	0.00	17.16	0.00	0.00	17.16	0.00	-17.16	0.00			
TALCHER SOLAR	0.00	0.00	1.37	1.37	0.00	0.00	0.00	0.00	0.00	0.00	1.37	1.37	0.00	-1.37				
Total Drawal by HVDC Sahsaram,Alipurduar,BRBCL,Indbharat and OPGC																		
Total	1656.23	13965.16	72.87	15694.27	2.45	1081.10	0.00	1083.55	1653.78	12884.07	72.87	14610.72	710.38	-2459.59	12861.51	428.7	22378	24043

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	-	-	-	-	-
JUNE	437.39	441.13	3.74	0.85	49.97	-	-	-	-	-
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	-	-	-	-	-
JUNE	22080	22964	884	3.85	49.97	-	-	-	-	-
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	-	-	-	-	-

EX. BUS) AND ACTUAL DRAWAL FROM CENTRAL SECTOR GENERATION .

All figures are in MU

Cumulative from		01-Apr-19		to		31/Mar/20		During April-19			
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		
308.74	227.30				308.74	227.30					
73.53	50.68				73.53	50.68					
217.66	185.53				217.66	185.53					
37.73	39.35				37.73	39.35					
237.61	232.07				237.61	232.07					
190.91	150.23				190.91	150.23					
39.93	40.62				39.93	40.62					
40.66	31.12				40.66	31.12					
805.39	754.54				805.39	754.54					
7.43	7.43				7.43	7.43					
0.00	0.00				0.00	0.00					
0.00	0.00				0.00	0.00					
0.00	0.00				0.00	0.00					
46.75	46.75				46.75	46.75					
2006.33	1765.63	660.30	2453.74	2440.43	2006.33	1765.63	660.30	2453.74	2440.43		
84.32	65.67				84.32	65.67					
46.99	42.09				46.99	42.09					
16.65	16.37				16.65	16.37					
9.46	13.05				9.46	13.05					
44.17	40.95				44.17	40.95					
8.74	9.87				8.74	9.87					
62.85	51.28				62.85	51.28					
2.83	2.83				2.83	2.83					
0.00	0.00				0	0.00					
0.00	0.00				0	0.00					
0.00	0.00				0	0.00					
27.13	27.13				27.13	27.13					
303.15	269.25	183.80	490.89	489.92	303.15	269.25	183.80	490.89	489.92		
0.00	0.00				0.00	0.00					
0.00	0.00				0.00	0.00					
0.00	0.00				0.00	0.00					
0.00	0.00				0.00	0.00					
1.15	1.02				1.15	1.02					
6.62	5.64				6.62	5.64					
61.07	49.80				61.07	49.80					
2.12	2.12				2.12	2.12					
0.00	0.00				0.00	0.00					
0.00	0.00				0.00	0.00					
0.00	0.00				0.00	0.00					
19.00	19.00				19.00	19.00					
89.96	77.58	-1549.00	-1456.53	-1448.08	89.96	77.58	-1549.00	-1456.53	-1448.08		
139.47	22.22				139.47	22.22					
47.55	47.86				47.55	47.86					
82.03	93.18				82.03	93.18					
19.86	48.84				19.86	48.84					
186.33	186.96				186.33	186.96					
0.00	0.00				0.00	0.00					
21.71	0.79				21.71	0.79					
0.00	0.00				0.00	0.00					
0.00	0.00				0.00	0.00					
0.00	0.00				0.00	0.00					
0.00	0.00				0.00	0.00					
45.27	45.27				45.27	45.27					
542.22	445.12	379.01	1003.39	1055.68	542.22	445.12	379.01	1003.39	1055.68		
323.01	279.21				323.01	279.21					
106.91	86.96				106.91	86.96					
36.34	34.88				36.34	34.88					
6.96	7.07				6.96	7.07					
58.35	53.85				58.35	53.85					
24.54	18.74				24.54	18.74					
6.02	6.02				6.02	6.02					
0.00	0.00				0.00	0.00					
0.00	0.00				0.00	0.00					
0.00	0.00				0.00	0.00					
52.73	52.73				52.73	52.73					
614.87	539.44	884.40	1495.74	1486.66	614.87	539.44	884.40	1495.74	1486.66		
16.03	11.84				16.03	11.84					
0.00	0.00				0.00	0.00					
8.06	6.66				8.06	6.66					
2.50	2.21				2.50	2.21					
13.83	13.03				13.83	13.03					
1.41	1.35				1.41	1.35					
11.70	9.35				11.70	9.35					
2.83	2.83				2.83	2.83					
0.00	0.00				0.00	0.00					
0.00	0.00				0.00	0.00					
29.00	29.00				29.00	29.00					
85.36	76.28	34.71	44.04	40.86	85.36	76.28	34.71	44.04	40.86		
0.00	0.00				0.00	0.00					
0.00	0.00				0.00	0.00					
-201.00	-184.19				-201.00	-184.19					
0.00	0.00				0.00	0.00					
0.00	0.00				0.00	0.00					
-138.45	-100.02				-138.45	-100.02					
-339.46	-284.21	700.07	926.44	1388.40	-339.46	-284.21	700.07	926.44	1388.40		
-20.08	-19.89				-20.08	-19.89					
-2.03	-1.98				-2.03	-1.98					
-7.19	-7.90				-7.19	-7.90					
-5.78	-6.91				-5.78	-6.91					
-9.00	-8.96				-9.00	-8.96					
-0.71	-0.84				-0.71	-0.84					
-5.99	-6.06				-5.99	-6.06					
-50.78	-52.54	-1196.46	-1985.02	-1793.34	-50.78	-52.54	-1196.46	-1985.02	-1793.34		
-56.05	-34.09				-56.05	-34.09					
-129.74	-81.91				-129.74	-81.91					
-424.97	-300.72				-424.97	-300.72					
0.00	0.00				0.00	0.00					
-109.89	-70.93				-109.89	-70.93					
0.00	0.00				0.00	0.00					
-720.64	-487.64	-362.44	-711.47	-1616.73	-720.64	-487.64	-362.44	-711.47	-1616.73		
-1110.88	-824.39	-858.83	-1770.06	-2021.67	-1110.88	-824.39	-858.83	-1770.06	-2021.67		
-32.56	-25.13				-32.56	-25.13					
-0.25	-0.26				-0.25	-0.26					
-15.37	-13.42				-15.37	-13.42					
-39.29	-27.86				-39.29	-27.86					
-17.00	-15.79				-17.00	-15.79					
-104.47	-82.47	-33.45	-68.65	351.27	-104.47	-82.47	-33.45	-68.65	351.27		

PERFORMANCE OF GENERATING STATIONS IN THE EASTERN REGION DURING THE MONTH OF APRIL'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 (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	0.00	0.00
		Muzaffarpur Stg-I	220.00	220.00	110.91	98.15	110.91	98.15
		Thermal Total	440.00	430.00	110.91	98.15	110.91	98.15
	RES		327.40	327.40	42.27	42.27	42.27	42.27
		Total BIHAR	767.40	757.40	153.18	140.42	153.18	140.42
JHARKHAND								
TVNL	Thermal	TVNL	420.00	420.00	191.75	167.80	191.75	167.80
JSEB	Hydro	Subarnrekha (U#1,2)	130.00	130.00	0.21	0.21	0.21	0.21
	RES		29.72	29.72	0.00	0.00	0.00	0.00
	Total		159.72	159.72	0.21	0.21	0.21	0.21
DVC	Thermal	Bokaro-B(3)	210.00	210.00	45.70	40.03	45.70	40.03
		Chandrapura (3)	140.00	130.00	0.00	0.00	0.00	0.00
		Chandrapura(U7 # 8)	500.00	500.00	331.94	301.31	331.94	301.31
		Durgapur(4)	210.00	210.00	34.18	28.45	34.18	28.45
		Mezia(1,2,3,4,5,6)	1340.00	1340.00	718.03	642.72	718.03	642.72
		Mezia(U # 7,8)	1000.00	1000.00	529.52	501.40	529.52	501.40
		Bokaro-A(1,2)	500.00	500.00	260.75	245.25	260.75	245.25
		Durgapur STPS (U#1,2)	1000.00	1000.00	562.60	531.85	562.60	531.85
		Raghunathpur TPS (U#1,2)	1200.00	1200.00	517.45	486.24	517.45	486.24
		Koderma STPS (U#1,2)	1000.00	1000.00	627.94	594.83	627.94	594.83
	Total Thermal	7100.00	7090.00	3628.09	3372.06	3628.09	3372.06	
	Hydro	Maithon (U#1,2,3)	63.20	63.20	0.81	0.78	0.81	0.78
		Panchet (U#1,2)	80.00	80.00	2.23	2.19	2.23	2.19
		Tilaya (U#1,2)	4.00	4.00	0.00	0.0	0.00	0.0
		Hydro Total	147.20	147.20	3.04	2.96	3.04	2.96
Total DVC	7247.20	7237.20	3631.13	3375.02	3631.13	3375.02		
WEST BENGAL								
WBPDC	Thermal	Bandel TPS	380.00	335.00	94.39	82.96	94.39	82.96
		Santalidih TPS(U#5&6)	500.00	500.00	326.87	300.79	326.87	300.79
		Kolaghat TPS	1260.00	1260.00	362.77	322.39	362.77	322.39
		Bakreswar TPP	1050.00	1050.00	733.74	671.91	733.74	671.91
		Sagardighi TPP	1600.00	1600.00	603.88	551.35	603.88	551.35
		Thermal Total	4790.00	4745.00	2121.65	1929.41	2121.65	1929.41
WBSEDCL	Hydro	Jaldhaka (3x9+2x4)	35.00	35.00	13.33	13.33	13.33	13.33
		Ramam (4x12.73)	51.00	51.00	11.85	11.85	11.85	11.85
		Teesta C.F. (3x3x7.3)	67.30	67.30	0.00	0.00	0.00	0.00
		Purulia PSS (4x225)	900.00	900.00	65.84	65.84	65.84	65.84
		Total Hydro	1053.30	1053.30	91.02	91.02	91.02	91.02
		RES	277.52	277.52	0.00	0.00	0.00	0.00
DPL	Thermal	DPPS (110+300+250 *)	660.00	660.00	280.86	252.73	280.86	252.73
		RES	5.00	5.00	0.48	0.48	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 APRIL'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 (2018-19) in MU	Cummulative Net Energy Generation upto Current Month (2018-19) 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	45.01	40.63	45.01	40.63
		Budge-Budge (3x250)	750.00	750.00	506.15	467.38	506.15	467.38
		Total CESC	1125.00	1125.00	551.16	508.01	551.16	508.01
HEL	Thermal	HEL	600.00	600.00	352.39	325.14	352.39	325.14
		Total West Bengal	8510.82	8465.82	3397.55	3106.79	3397.55	3106.79
ODISHA (NTPC)	Thermal	Talcher-I	250.00	240.00	171.40	153.60	171.40	153.60
		Talcher-II	220.00	220.00	156.41	140.16	156.41	140.16
		Total Thermal	470.00	460.00	327.81	293.76	327.81	293.76
OPGC	Thermal	IB TPS	420.00	420.00	277.55	248.55	277.55	248.55
		IB TPS			37.22	37.22	37.22	37.22
OHPC	Hydro	Hirakud-I (Burla)	275.50	275.50	21.55	21.39	21.55	21.39
		Hirakud-II (Chiplima)	72.00	72.00	13.56	13.49	13.56	13.49
		Balimela (6x60+2x75)	510.00	510.00	133.62	133.56	133.62	133.56
		Rengali (5x50)	250.00	250.00	23.57	23.47	23.57	23.47
		Upper Kolab (4x80)	320.00	320.00	72.47	72.09	72.47	72.09
		Indravati HPS (4x150)	600.00	600.00	216.09	214.49	216.09	214.49
		Mckd.(Odisha drawal)	57.38	57.38	24.90	24.90	24.90	24.90
		Total Hydro	2084.88	2084.88	505.77	503.39	505.77	503.39
		RES	184.30	184.30	27.75	27.75	27.75	27.75
		Total Odisha	3159.18	3149.18	1176.09	1110.68	1176.09	1110.68
(**) SIKKIM	Hydro	RES	52.11	52.11	1.00	1.00	1.00	1.00
NTPC		MTPS Stg-II	390.00	390.00	212.043	190.06	212.04	190.06
		FSTPP# I&II (3x200+2x500)	1600.00	1600.00	886.75	820.28	886.75	820.28
		FSTPP (U# 6)	500.00	500.00	246.72	228.35	246.72	228.35
		KhSTPP (4x210+3x500)	2340.00	2340.00	1242.89	1146.23	1242.89	1146.23
		TSTPP (2x500)	1000.00	1000.00	601.45	553.81	601.45	553.81
		BARH STPS II (2X660)	1320.00	1320.00	861.18	817.64	861.18	817.64
		BRBCL # I,2,3(3X250 MW)	750	750	400.27	370.56	400.27	370.56
		Total NTPC	7900.00	7900.00	4451.30	4126.92	4451.30	4126.92
NHPC	HYDRO	Rangit (3x20)	60.00	60.00	21.57	21.57	21.57	21.57
		Teesta (3x170)	510.00	510.00	223.60	223.60	223.60	223.60
		TLDP -(4x33+4x40)	292.00	292.00	75.94	75.94	75.94	75.94
		Total NHPC	862.00	862.00	321.12	321.12	321.12	321.12
		MPL (U#1&2)	1050.00	1050.00	611.06	575.71	611.06	575.71
		APNRL (U#1,2)	540.00	540.00	239.72	217.54	239.72	217.54
		GMR (2x350)	700.00	700.00	409.89	381.19	409.89	381.19
		JITPL (2X600)	1200.00	1200.00	373.82	349.86	373.82	349.86
		CHUZACHEN** (2x55)	110.00	110.00	21.55	21.55	21.55	21.55
		JORETHANG (2x48)	96.00	96.00	15.80	15.80	15.80	15.80
		TEESTA URJA St III (6x200)	1200.00	1200.00	405.13	405.13	405.13	405.13
		Tashilding (2x48.5)	97.00	97.00	17.16	17.16	17.16	17.16
		DICKCHU (2x48)	96.00	96.00	22.59	22.59	22.59	22.59
		TALCHER SOLAR	10.00	10.00	1.37	1.37	1.37	1.37
		Total Thermal (E.R)	27415.00	27340.00	13965.16	12884.07	13965.16	12884.07
		Total Hydro (E.R)	5876.38	5876.38	1403.39	1400.94	1403.39	1400.94
EASTERN REGIONAL		Total RES	886.05	886.05	72.87	72.87	72.87	72.87
		TOTAL (E.R)	34177.43	34102.43	15441.42	14357.88	15441.42	14357.88
BHUTAN	Hydro	CHPC(4x90)	360.00	270.00	156.13	156.13	156.13	156.13
	Hydro	Kurichu (4x15)	60.00	60.00	6.25	6.25	6.25	6.25
	Hydro	TALA (6x170)	1020.00	1020.00	75.70	75.70	75.70	75.70
	Hydro	DAGACHU (2x63)	126.00	126.00	14.77	14.77	14.77	14.77
		Grand Total	35743.43	35578.43	15694.27	14610.72	15694.27	14610.72

PLANT LOAD FACTOR (PLF) OF THERMAL POWER STATIONS IN EASTERN REGION DURING THE MONTH OF APRIL' 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 (2018-19) in MU	Cummulative PLF upto Current Month (%)
BIHAR	Thermal	Barauni (U# 6&7)	220.00	210.00	0.00	0.00	0.00	0.00
		Muzaffarpur Stg-I	220.00	220.00	110.91	70.02	110.91	70.02
		Thermal Total	440.00	430.00	110.91	35.82	110.91	35.82
	RES		327.40	327.40	42.27		42.27	
		Total BIHAR	767.40	757.40	153.18		153.18	
JHARKHAND								
TVNL	Thermal	TVNL	420.00	420.00	191.75	63.41	191.75	63.41
JSEB	Hydro	Subarnrekha (U#1,2)	130.00	130.00	0.21		0.21	
	RES		29.72	29.72	0.00		0.00	
	Total		159.72	159.72	0.21		0.21	
DVC	Thermal	Bokaro-B(3)	210.00	210.00	45.70	30.22	45.70	30.22
		Chandrapura (3)	140.00	130.00	0.00	0.00	0.00	0.00
		Chandrapura(U7 # 8)	500.00	500.00	331.94	92.21	331.94	92.21
		Durgapur(4)	210.00	210.00	34.18	22.61	34.18	22.61
		Mezia(1,2,3,4,5,6)	1340.00	1340.00	718.03	74.42	718.03	74.42
		Mezia(U # 7,8)	1000.00	1000.00	529.52	73.54	529.52	73.54
		Bokaro-A(1,2)	500.00	500.00	260.75	72.43	260.75	72.43
		Durgapur STPS (U#1,2)	1000.00	1000.00	562.60	78.14	562.60	78.14
		Raghunathpur TPS (U#1,2)	1200.00	1200.00	517.45	59.89	517.45	59.89
		Koderma STPS (U#1,2)	1000.00	1000.00	627.94	87.21	627.94	87.21
	Total Thermal	7100.00	7090.00	3628.09	71.07	3628.09	71.07	
	Hydro	Maithon (U#1,2,3)	63.20	63.20	0.81		0.81	
		Panchet (U#1,2)	80.00	80.00	2.23		2.23	
		Tilaya (U#1,2)	4.00	4.00	0.00		0.00	
		Hydro Total	147.20	147.20	3.04		3.04	
		Total DVC	7247.20	7237.20	3631.13		3631.13	
WEST BENGAL								
WBPDC	Thermal	Bandel TPS	380.00	335.00	94.39	39.13	94.39	39.13
		Santalidih TPS(U#5&6)	500.00	500.00	326.87	90.80	326.87	90.80
		Kolaghat TPS	1260.00	1260.00	362.77	39.99	362.77	39.99
		Bakreswar TPP	1050.00	1050.00	733.74	97.06	733.74	97.06
		Sagardighi TPP	1600.00	1600.00	603.88	52.42	603.88	52.42
		Thermal Total	4790.00	4745.00	2121.65	62.10	2121.65	62.10
WBSEDCL	Hydro	Jaldhaka (3x9+2x4)	35.00	35.00	13.33		13.33	
		Ramam (4x12.73)	51.00	51.00	11.85		11.85	
		Teesta C.F. (3x3x7.3)	67.30	67.30	0.00		0.00	
		Purulia PSS (4x225)	900.00	900.00	65.84		65.84	
		Total Hydro	1053.30	1053.30	91.02		91.02	
	RES	277.52	277.52	0.00		0.00		
	TLDP -(4x33+4x40)	292.00	292.00	75.94		75.94		
DPL	Thermal	DPPS (110+300+250 *)	660.00	660.00	280.86	59.10	280.86	59.10
	RES		5.00	5.00	0.48		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	PLF of Current Month	Cummulative Gross Energy Generation upto Current Month	Cummulative PLF
			(in MW)	(in MW)	in MU	(%)	(2018-19) 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	45.01	46.30	45.01	46.30
		Budge-Budge (3x250)	750.00	750.00	506.15	93.73	506.15	93.73
		Total CESC	1125.00	1125.00	551.16	68.04	551.16	68.04
HEL	Thermal		600.00	600.00	352.39	81.57	352.39	81.57
		Total West Bengal	8510.82	8465.82	3397.55		3397.55	
ODISHA (NTPC)	Thermal	Talcher-I	250.00	240.00	171.40	99.19	171.40	99.19
		Talcher-II	220.00	220.00	156.41	98.74	156.41	98.74
		Total Thermal	470.00	460.00	327.81	98.98	327.81	98.98
OPGC	Thermal	IB TPS	420.00	420.00	277.55	91.78	277.55	91.78
		IB TPS			37.22		37.22	
OHPC	Hydro	Hirakud-I (Burla)	275.50	275.50	21.55		21.55	
		Hirakud-II (Chiplima)	72.00	72.00	13.56		13.56	
		Balimela (6x60+2x75)	510.00	510.00	133.62		133.62	
		Rengali (5x50)	250.00	250.00	23.57		23.57	
		Upper Kolab (4x80)	320.00	320.00	72.47		72.47	
		Indravati HPS (4x150)	600.00	600.00	216.09		216.09	
		Mckd.(Odisha drawal)	57.38	57.38	24.90		24.90	
		Total Hydro	2084.88	2084.88	505.77		505.77	
		RES	184.30	184.30	27.75		27.75	
		Total Odisha	3159.18	3149.18	1176.09		1176.09	
(**) SIKKIM	Hydro	RES	52.11	52.11	1.00		1.00	
NTPC		MTPS Stg-II	390	390	212.043	75.51	212.04	75.51
		FSTPP# I&II (3x200+2x500)	1600.00	1600.00	886.75	76.97	886.75	76.97
		FSTPP (U# 6)	500.00	500.00	246.72	68.53	246.72	68.53
		KhSTPP (4x210+3x500)	2340.00	2340.00	1242.89	73.77	1242.89	73.77
		TSTPP (2x500)	1000.00	1000.00	601.45	83.53	601.45	83.53
		BARH STPS II (2X660)	1320.00	1320.00	861.18	90.61	861.18	90.61
		BRBCL # I,2,3(3X250 MW)	750.00	750.00	400.27	74.12	400.27	74.12
		Total NTPC	7900.00	7900.00	4451.30	78.26	4451.30	78.26
NHPC	HYDRO	Rangit (3x20)	60.00	60.00	21.57		21.57	
		Teesta (3x170)	510.00	510.00	223.60		223.60	
		TLDP -(4x33+4x40)	292.00	292.00	75.94		75.94	
		Total NHPC	862.00	862.00	321.12		321.12	
	Thermal	MPL (U#1&2)	1050.00	1050.00	611.06	80.83	611.06	80.83
		APNRL (U#1,2)	540.00	540.00	239.72	61.66	239.72	61.66
		GMR (2x350)	700.00	700.00	409.89	81.33	409.89	81.33
		JITPL (2X600)	1200.00	1200.00	373.82	43.27	373.82	43.27
		CHUZACHEN** (2x55)	110.00	110.00	21.55		21.55	
		JORETHANG (2x48)	96.00	96.00	15.80		15.80	
		TEESTA URJA St III (6x200)	1200.00	1200.00	405.13		405.13	
		Tashilding (2x48.5)	97.00	97.00	17.16		17.16	
		DICKCHU (2x48)	96.00	96.00	22.59		22.59	
		TALCHER SOLAR	10.00	10.00	1.37		1.37	
		Total Thermal (E.R)	27415.00	27340.00	13965.16	70.75	13965.16	70.75
EASTERN REGIONAL		Total Hydro (E.R)	5876.38	5876.38	1403.39		1403.39	
		Total RES	886.05	886.05	72.87		72.87	
		TOTAL (E.R)	34177.43	34102.43	15441.42		15441.42	
BHUTAN	Hydro	CHPC(4x90)	360.00	270.00	156.13		156.13	
	Hydro	Kurichu (4x15)	60.00	60.00	6.25		6.25	
	Hydro	TALA (6x170)	1020.00	1020.00	75.70		75.70	
	Hydro	DAGACHU (2x63)	126.00	126.00	14.77		14.77	
		Grand Total	35743.43	35578.43	15694.27		15694.27	

➤ Regional PLF has been calculated without considering the effective capacity of IBTPS-U#3, 660 MW and infirm generation of 37.22 MU during the month of April'19

**CONTRIBUTIONS OF DIFFERENT CONSTITUENTS AT THE TIME OF REGIONAL PEAK
DURING THE MONTH OF APRIL'2019 (4-4-2019)**

Date **4-Apr-19**
Time **20.00** **Hrs.**
Frequency **49.99** **Hz.**

(All Fig. in MW)

System/State	Installed Capacity	Effective Capacity	Hydro	Thermal	RES	Total
BSPHCL	767	757	0	145	0	145
JUVNL	580	580	0	220	0	220
DVC	7247	7237	13	5013	0	5025
ODISHA	3159	3149	1167	767	18	1952
WBSEDCL	6121	6076	503	3407	0	3910
TLDP	292	292	227	0	0	227
HEL HALDIA	600	600	0	547	0	547
CESC	1125	1125	0	772	0	772
DPL	665	665	0	0	0	0
SIKKIM	52	52	0	0	0	0
NTPC	7900	7900	0	6751	0	6751
NHPC	570	570	570	0	0	570
CHUKHA	360	270	138	0	0	138
KURICHU	60	60	-11	0	0	-11
TALA	1020	1020	67	0	0	67
MPL	1050	1050	0	985	0	985
APNRL	540	540	0	384	0	384
Kamalganga (GMR)	700	700	0	645	0	645
JITPL	1200	1200	0	487	0	487
Chuzachen	110	110	110	0	0	110
Jorethang	96	96	32	0	0	32
TEESTA URJA St III	1200	1200	1179	0	0	1179
Tashilding	97	97	47	0	0	47
DICKCHU	96	96	66	0	0	66
<u>Daghachu</u>	126	126	17	0	0	17
<u>Solar</u>	10	10	0	0	0	0
<u>0</u>	0	0	0	0	0	0
<u>Total</u>	35743	35578	4125	20123	18	24266
Import From Captive:						1512
Export To:						
NER						-265
SR						2764
WR						-2865
NR						2580.02
Bangladesh						959.93
Nepal						226.30
Total						3400

➤ **I Net Peak Demand Met (MW) :**

22378

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

Hourly Load Generation Data OF ER On Regional Peak Day During The Month of APRIL'2019 (4-4-2019)

(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	2148	19688	21836	1418	115	3645	19724	59	49	19831
2	1496	19509	21006	1394	108	3008	19500	53	6	19559
3	1124	19394	20518	1431	115	2707	19357	-17	101	19441
4	1183	19361	20544	1361	118	2737	19286	-32	3	19289
5	1052	19369	20421	1370	112	2596	19307	-19	3	19309
6	1718	19354	21072	1383	77	3533	18999	5	77	19081
7	1777	18933	20710	1433	51	4140	18053	22	1	18076
8	1325	19165	20490	1410	71	4012	17959	-28	10	17969
9	956	19305	20261	1438	90	3826	17963	19	16	17998
10	1005	19727	20732	1441	117	4278	18011	9	110	18131
11	853	19626	20479	1446	153	3982	18096	-5	108	18199
12	913	19500	20413	1454	142	3750	18259	14	108	18381
13	741	19214	19955	1448	175	3189	18390	-3	110	18496
14	954	18963	19917	1479	141	2858	18679	-3	3	18679
15	843	19461	20305	1435	130	3144	18725	11	164	18901
16	1000	19741	20741	1456	75	3499	18773	28	24	18825
17	1209	19836	21044	1434	69	3827	18720	28	7	18755
18	922	19800	20723	1442	151	3547	18769	-11	2	18771
19	2513	19779	22292	1420	187	2735	21164	6	939	22109
20	3948	20123	24071	1513	195	3400	22378	12	25	22415
21	3659	20008	23667	1505	216	3144	22244	18	2	22263
22	3560	20054	23614	1498	220	3499	21833	-2	145	21976
23	3369	20107	23476	1539	174	4000	21190	46	305	21542
24	2908	19934	22843	1532	167	3574	20967	-17	190	21141

Hourly Load Generation Data of ER On Regional Lean Day During The Month of APRIL'2019 (7-4-2019)

(All Figures in MW)

Generation				Import from Captive	Net	Net	Demand Met	Freq. Correction	Load Shed	Requirement
Hrs.	Hydro	Thermal	Total		Import From	Export				
					CHPS, KHPS & TALA	to other region				
1	2273	14937	17210	1412	353	5978	12997	-44	444	13397
2	2061	14662	16724	1426	371	5851	12670	-92	419	12997
3	840	14045	14885	1430	358	4334	12338	-23	371	12686
4	759	13771	14530	1378	370	3995	12283	-21	347	12608
5	733	13561	14294	1407	435	3782	12354	-22	336	12669
6	1207	13465	14672	1390	392	4140	12314	-11	311	12614
7	1483	13481	14964	1420	373	4399	12359	0	280	12638
8	1553	13722	15275	1403	371	4378	12671	1	257	12929
9	892	14150	15041	1377	368	3925	12862	-21	221	13062
10	957	14241	15198	1441	365	3648	13356	-8	175	13522
11	1235	14676	15911	1419	358	4175	13512	-12	145	13646
12	936	14520	15455	1456	324	3577	13658	17	105	13781
13	694	14998	15692	1437	333	3510	13952	10	83	14044
14	482	15263	15746	1446	347	3296	14243	14	55	14312
15	457	15623	16080	1403	343	3416	14410	24	38	14472
16	482	15688	16170	1391	345	3382	14524	-8	30	14546
17	443	15559	16002	1408	333	3423	14320	-29	20	14339
18	675	15217	15892	1453	314	2981	14679	-9	18	14688
19	2867	15411	18278	1491	291	2332	17728	56	9	17793
20	3278	16174	19452	1483	294	2524	18705	0	6	18711
21	3198	15867	19066	1482	315	1781	19082	-30	3	19085
22	3211	15711	18922	1461	348	2216	18515	47	18	18580
23	3064	15913	18977	1481	371	3000	17829	53	1	17884
24	3026	15890	18916	1399	389	3180	17524	-6	1	17526

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

FOR THE MONTH OF APRIL'2019

POWER CUT / RESTRICTIONS

BSPHCL	NO NOTIFIED CUTS/RESTRICTIONS However there was loadshedding of 3.35 MU
JUVNL	NO NOTIFIED CUTS/RESTRICTIONS However there was loadshedding of 9.85 MU
DVC	NO NOTIFIED CUTS/RESTRICTIONS. However there was loadshedding of 1.98 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 22.69 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

Apr-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-Apr	50.03	50.02	49.97	49.97	49.88	49.98	11.40	69.00	19.60	69.00	50.21	13:02:30	49.65	23:03:30	50.11	0:00	49.82	0:00
02-Apr	49.91	49.96	49.97	50.01	49.91	49.96	21.50	65.60	13.00	65.60	50.24	18:04:20	49.71	22:40:00	50.16	0:00	49.78	0:00
03-Apr	49.94	49.97	49.94	49.95	49.91	49.95	19.30	73.40	7.30	73.40	50.15	18:03:10	49.70	14:52:20	50.06	0:00	49.73	0:00
04-Apr	49.99	49.99	49.98	50.00	49.98	49.99	7.20	78.90	13.90	78.90	50.17	10:01:50	49.77	01:12:20	50.07	0:00	49.87	0:00
05-Apr	50.00	49.99	50.01	50.00	49.94	50.00	6.80	72.70	20.50	72.70	50.17	17:01:00	49.79	04:10:30	50.08	0:00	49.86	0:00
06-Apr	49.98	50.00	50.03	50.05	50.03	50.02	2.00	71.00	27.00	71.00	50.23	18:03:30	49.83	00:12:20	50.13	0:00	49.88	0:00
07-Apr	50.09	50.02	50.00	49.98	49.96	50.01	5.80	63.00	31.10	63.00	50.29	01:12:30	49.74	18:56:00	50.26	0:00	49.81	0:00
08-Apr	49.95	50.00	50.00	50.01	49.98	49.99	5.30	79.30	15.30	79.30	50.16	18:03:00	49.81	01:07:50	50.09	0:00	49.88	0:00
09-Apr	49.97	49.99	50.00	49.98	49.94	49.98	7.00	79.70	13.30	79.70	50.13	16:50:50	49.76	00:07:50	50.08	0:00	49.84	0:00
10-Apr	49.99	49.99	49.92	49.96	49.91	49.96	16.40	74.10	9.60	74.10	50.15	18:02:10	49.74	19:06:40	50.06	0:00	49.77	0:00
11-Apr	49.95	49.98	49.99	49.96	49.95	49.97	11.00	80.50	8.50	80.50	50.17	18:02:50	49.79	02:46:50	50.06	0:00	49.86	0:00
12-Apr	49.99	49.99	49.96	49.97	49.95	49.97	13.20	73.60	13.20	73.60	50.19	08:02:10	49.66	15:30:50	50.11	0:00	49.83	0:00
13-Apr	49.97	50.01	50.00	49.99	49.92	49.99	6.60	77.30	16.10	77.30	50.22	18:02:50	49.66	00:07:10	50.11	0:00	49.77	0:00
14-Apr	50.03	50.03	49.99	49.99	49.95	50.00	5.50	75.30	19.20	75.30	50.19	06:01:40	49.77	19:14:50	50.11	0:00	49.85	0:00
15-Apr	50.00	49.99	50.00	50.03	50.01	50.01	1.10	79.20	19.70	79.20	50.20	22:00:50	49.73	06:00:00	50.10	0:00	49.89	0:00
16-Apr	50.05	49.98	49.99	50.02	49.95	50.00	7.80	63.50	28.70	63.50	50.20	10:59:30	49.79	22:12:30	50.12	0:00	49.84	0:00
17-Apr	50.01	50.01	50.01	50.00	50.00	50.01	3.20	73.90	22.90	73.90	50.22	13:05:20	49.82	19:22:50	50.13	0:00	49.89	0:00
18-Apr	49.98	50.00	50.02	49.99	49.99	50.00	3.10	75.90	21.00	75.90	50.17	13:03:10	49.79	15:20:30	50.10	0:00	49.87	0:00
19-Apr	50.00	50.00	50.01	49.97	49.95	49.99	4.90	78.20	17.00	78.20	50.13	13:04:00	49.79	16:56:50	50.07	0:00	49.86	0:00
20-Apr	50.00	49.96	49.98	49.99	49.95	49.98	6.60	79.10	14.30	79.10	50.18	13:00:30	49.75	14:22:50	50.09	0:00	49.86	0:00
21-Apr	49.97	50.01	50.00	49.98	49.95	49.99	6.30	75.70	18.00	75.70	50.20	06:01:40	49.77	22:25:00	50.10	0:00	49.81	0:00
22-Apr	49.99	49.98	50.01	49.98	49.94	49.98	6.40	78.10	15.50	78.10	50.15	17:01:30	49.79	22:18:50	50.15	0:00	49.83	0:00
23-Apr	50.03	50.04	50.02	49.96	49.95	50.01	5.20	67.40	27.30	67.40	50.23	08:04:00	49.79	22:31:50	50.15	0:00	49.84	0:00
24-Apr	50.03	50.00	49.96	49.98	49.94	49.99	10.50	72.30	17.30	72.30	50.16	17:04:00	49.71	22:19:10	50.11	0:00	49.81	0:00
25-Apr	49.96	49.99	49.99	50.01	49.95	49.98	7.30	78.70	14.00	78.70	50.17	20:03	49.79	22:11:40	50.08	0:00	49.84	0:00
26-Apr	50.01	50.03	50.00	50.00	49.94	50.00	4.00	73.50	22.50	73.50	50.16	18:00:40	49.69	22:13:10	50.09	0:00	49.84	0:00
27-Apr	49.97	50.01	50.00	50.01	49.87	49.99	10.90	65.30	23.80	65.30	50.23	13:00:50	49.72	23:34:50	50.15	0:00	49.79	0:00
28-Apr	50.01	50.05	50.05	49.98	50.00	50.02	1.70	66.40	31.90	66.40	50.19	13:24:00	49.81	00:09:50	50.15	0:00	49.90	0:00
29-Apr	50.02	50.02	50.02	50.03	49.95	50.02	1.40	71.90	26.70	71.90	50.29	18:00:50	49.74	22:25:20	50.14	0:00	49.81	0:00
30-Apr	50.02	50.03	50.03	50.04	50.01	50.03	0.60	61.00	38.40	61.00	50.21	18:03:40	49.84	21:07:50	50.14	0:00	49.92	0:00
MAX	50.09	50.05	50.05	50.05	50.03	50.03	21.50	80.50	38.40	80.50	50.29		49.84		50.26		49.92	
MIN	49.91	49.96	49.92	49.95	49.87	49.95	0.60	61.00	7.30	61.00	50.13		49.65		50.06		49.73	
AVG	49.99	50.00	49.99	49.99	49.95	49.99	7.33	73.12	19.55	73.12	50.19		49.76		50.11		49.84	

SUMMARY:

Avg. Frequency :

50.0 Hz.

Instantaneous Frequency :

Maximum Frequency : 50.29 Hz at 01.12.30 Hrs.

Minimum Frequency : 49.65 Hz at 23.03.30 Hrs.

15 Minutes Integrated Frequency :

Maximum Frequency : 50.26 Hz On 00/01/00 at 00:00 Hrs.

Minimum Frequency : 49.73 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	7.33	73.12	19.55

VOLTAGE ANALYSIS

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

(All figs. in kV)

PGCIL	BINAGURI		MAITHON		JEERAT		BIHARSHARIFF	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	411	400	416	395	415	396	410	390

PGCIL	MUZAFFARPUR		JAMSHEDPUR		ROURKELA		JEYPORE	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	421	393	414	397	428	372	425	387

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

Apr-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	
			(30-04-19)	(30-04-18)		
Hirakud	192	180	186.45	186.28	187.96	01.04.19
Balimela	462	439	450.71	442.97	453.39	01.04.19
Rengali	123	109	114.00	117.88	115.42	01.04.19
Upperkolab	858	844	849.65	849.53	851.33	01.04.19
Indravati	642	625	631.52	631.22	634.40	01.04.19
Subernrekha	590	580	585.06	583.48	585.28	01.04.19

B.

CPP/IPP IMPORT by Eastern Region Constituents during

Apr-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	47.85
West Bengal	57.19	22.16	0	0	0	0	0	33.73	113.08
ODISHA	0	0	33.45	157.70	6.65	0.05	0	336.91	534.77
DVC	0	0	0	0	0	0	14.69	0	14.69
TOTAL	57.19	22.16	33.45	157.70	6.65	0.05	14.69	370.64	710.39

C.

Distribution of Schedule Supply among Key Customers by IPPs during

Apr-19

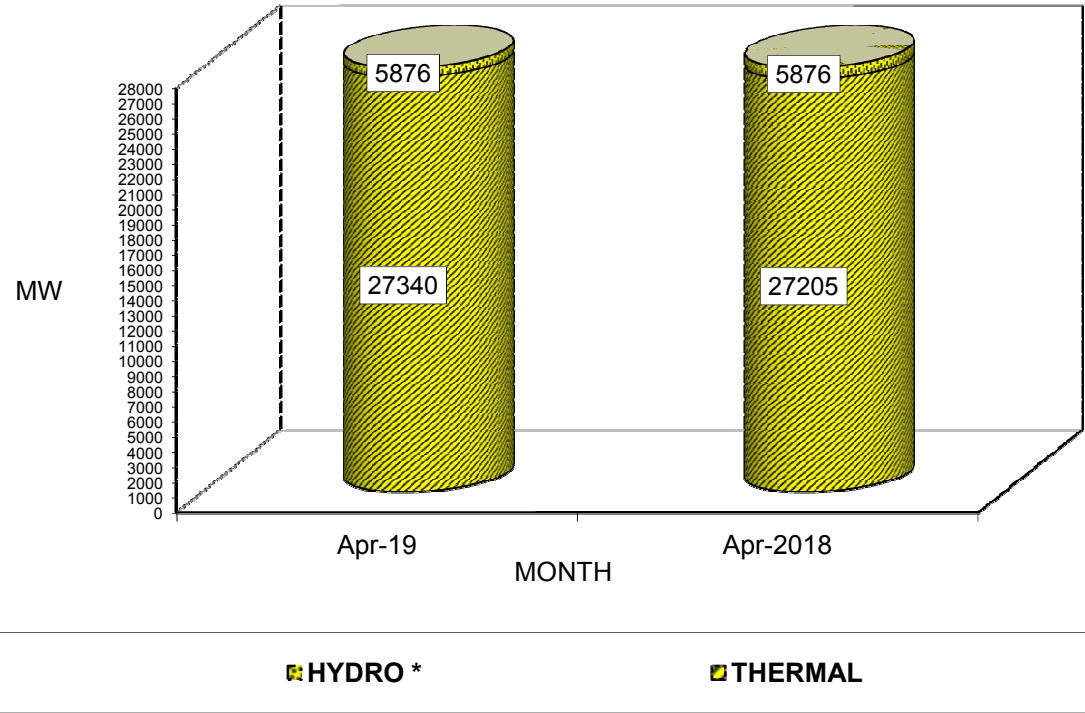
(All figs. are in MU)

IPP	TPDDL	WBSEDCL/ WBPDCCL	DVC	Sale at IEX/NPCL	ODISHA	JSEB	CTU/Others	Total (Excl. Tr. Loss)
MPL	173.96	130.97	82.86	0.00	0	0	187.34	575.13
Sterlite	0	0	0	0	0.00	0	0.00	0.00
APNRL	0	14.16	0	2.46	0.00	132.66	70.20	219.480
Total	173.96	145.13	82.86	2.46	0.00	132.66	257.54	794.61

Task/ Works performed by ERPC during APRIL, 2019		
Sl. No.	Period	Date of Issue of Report
1	REA March 2019	03.04.2019
2	DC-MPL- March 2019	03.04.2019
3	RTA March-19	04.04.2019
4	Deviation Account, RRAS & FRAS Account 180319-240319	04/04/2019
5	DC- Teesta III – March 2019	04.04.2019
6	VAR Account 180319-240319	04.04.2019
7	Bilateral REA for March -2019	04.04.2019
8	REA Bhutan March-19	08.04.2019
9	REA (Teesta-V) for October-2018 -Revision-I	09.04.2019
10	AS-3 Format 16.04.19-15.05.19	09.04.2019
11	Compensation statement for Dec-18, Jan-19 & Feb-19	11.04.2019
12	Deviation Account, RRAS & FRAS Account 250319-310319	12/04/2019
13	VAR Account 250319-310319	12.04.2019
14	DSM, RRAS, FRAS & SCED Accounts 010419-070419	24/04/2019
15	URS February-19	24/04/2019
16	VAR Account 010419-070419	24.04.2019
17	Progress Report-March 2019	30/04/2019
18	Transmission System Availability Certificate for CBPTCL Transmission Elements for Feb-19	12.04.2019
19	Transmission System Availability Certificate for Powerlinks Transmission Elements for Feb-19	12.04.2019
20	Transmission System Availability Certificate for TPTL Transmission Elements for Feb-19	12.04.2019
21	Transmission System Availability Certificate for PKTCL Transmission Elements for Feb-19	12.04.2019
22	Transmission System Availability Certificate for OPGCL Transmission Elements for Feb-19	12.04.2019
23	Transmission System Availability Certificate for DMTCL Transmission Elements for Feb-19	12.04.2019
24	Transmission System Availability Certificate for POWERGRID Transmission Elements for DECEMBER-18	03.04.2019
25	Transmission System Availability Certificate for POWERGRID Transmission Elements for January-19	12.04.2019
26	Transmission System Availability Certificate for ENICL Transmission Elements for November-18	09.04.2019
27	Transmission System Availability Certificate for ENICL Transmission Elements for December-18	03.04.2019
28	Transmission System Availability Certificate for ENICL Transmission Elements for January-19	09.04.2019
29	Transmission System Availability Certificate for ENICL Transmission Elements for Feb-19	12.04.2019
30	Provisional Power Supply Position for March-2019	04.04.2019
31	Revised Power Supply Position for MARCH-2019	24.04.2019

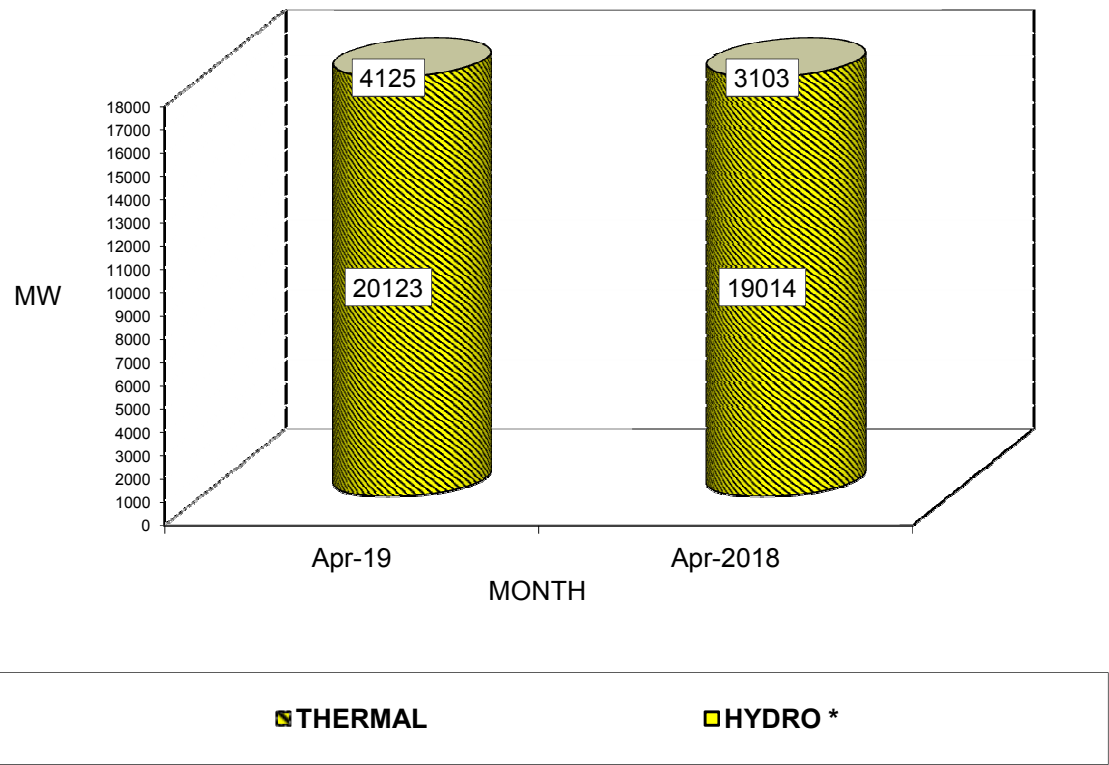
List of Meetings / Workshops held during APRIL, 2019			
Sl. No.	Description	Date	Venue
1	Meeting on Shutdown of Unit - V of FSTPS	02.04.2019	WBSEDCL, Kolkata
2	ISO Meeting	05.04.2019	ERPC, Kolkata
3	Meeting on Durgapur BUS Splitting	08.04.2019	ERPC, Kolkata
4	Meeting of Study Group Committee on 3rd 315 MVA, 400/220kV at Durgapur S/s	10.04.2019	ERPC, Kolkata
5	78th PCC Meeting	22.04.2019	ERPC, Kolkata
6	SCADA Meeting	24.04.2019	ERLDC, Kolkata
7	156th OCC Meeting	25.04.2019	Kahalgaoon STPS

EFFECTIVE CAPACITY OF EASTERN REGIONAL GRID



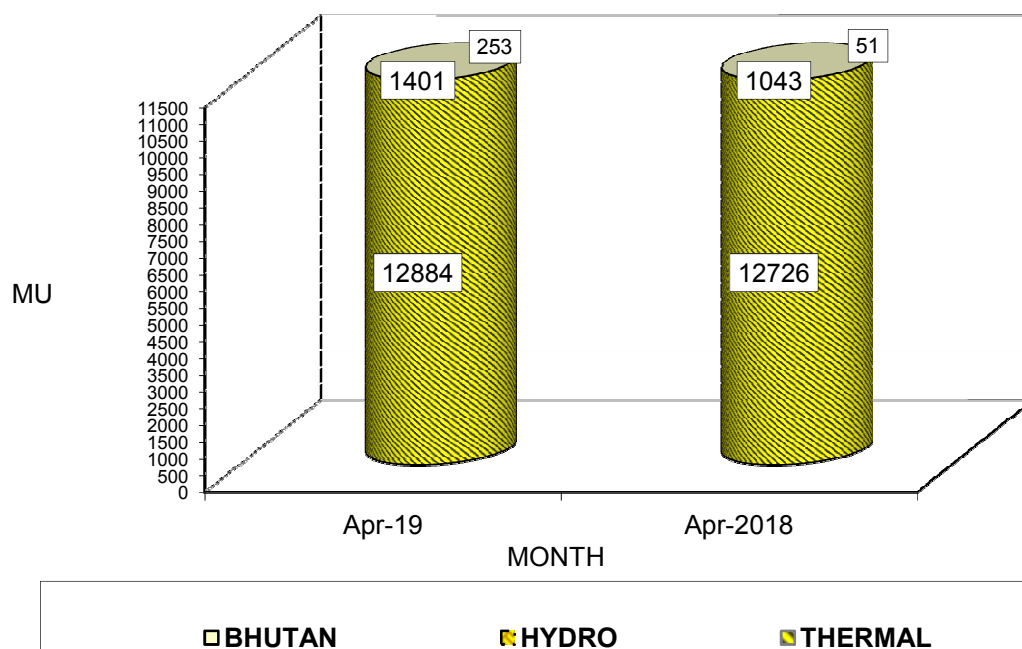
*Excludes 1350 MW contribution from HEPs of Bhutan

GENERATION CORRESPONDING TO PEAK DEMAND MET

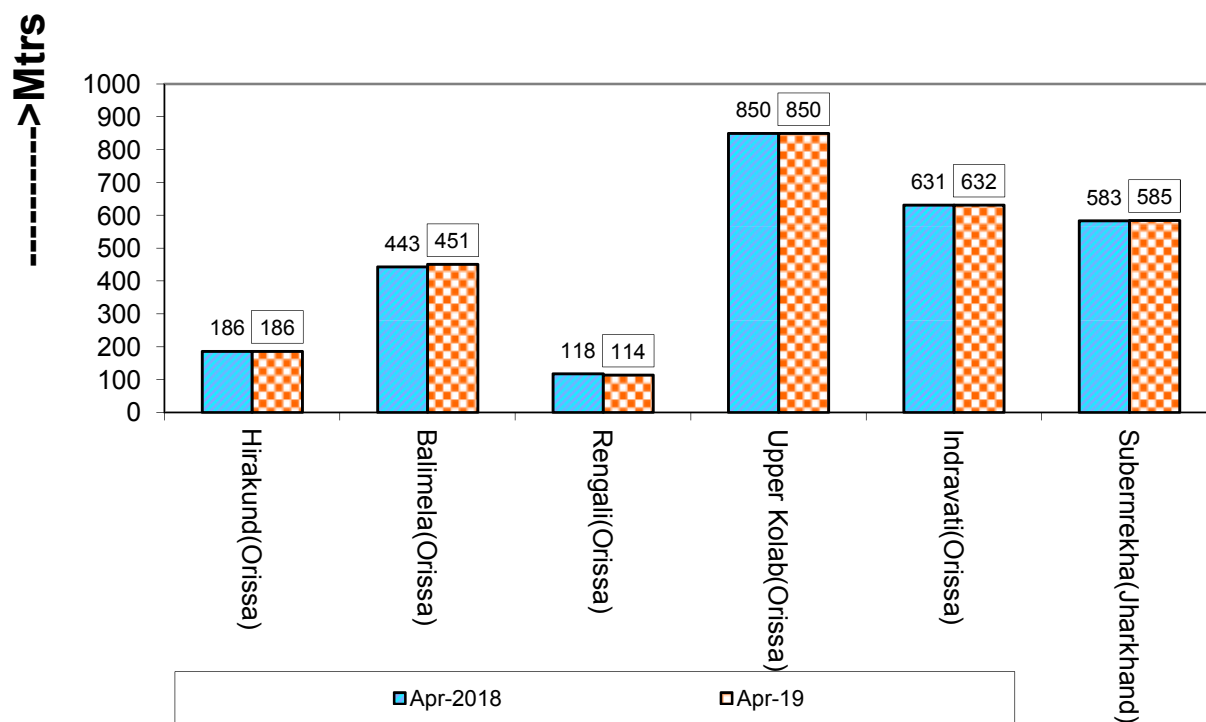


*Includes contribution from HEP of Bhutan

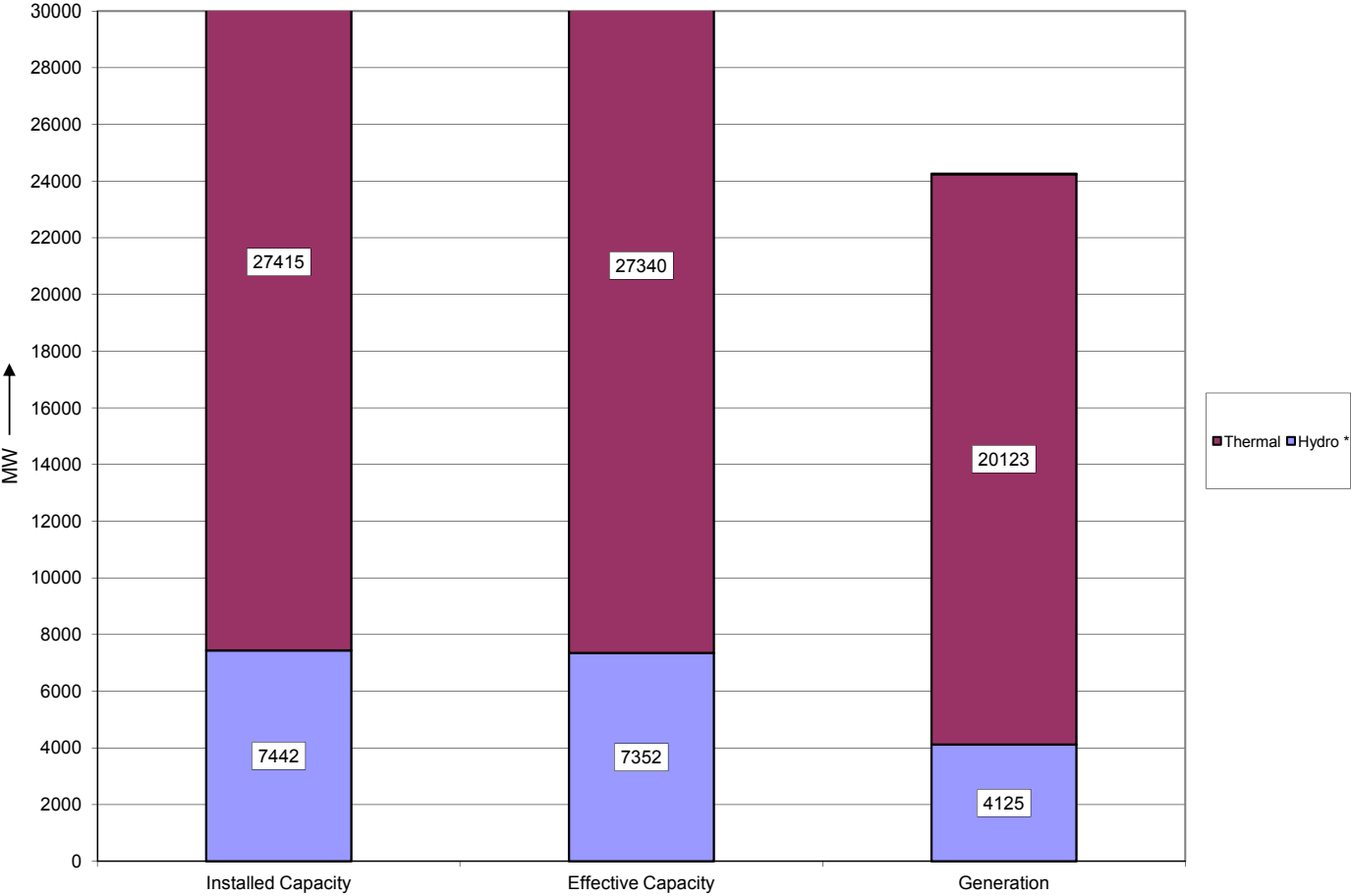
NET ENERGY GENERATION



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

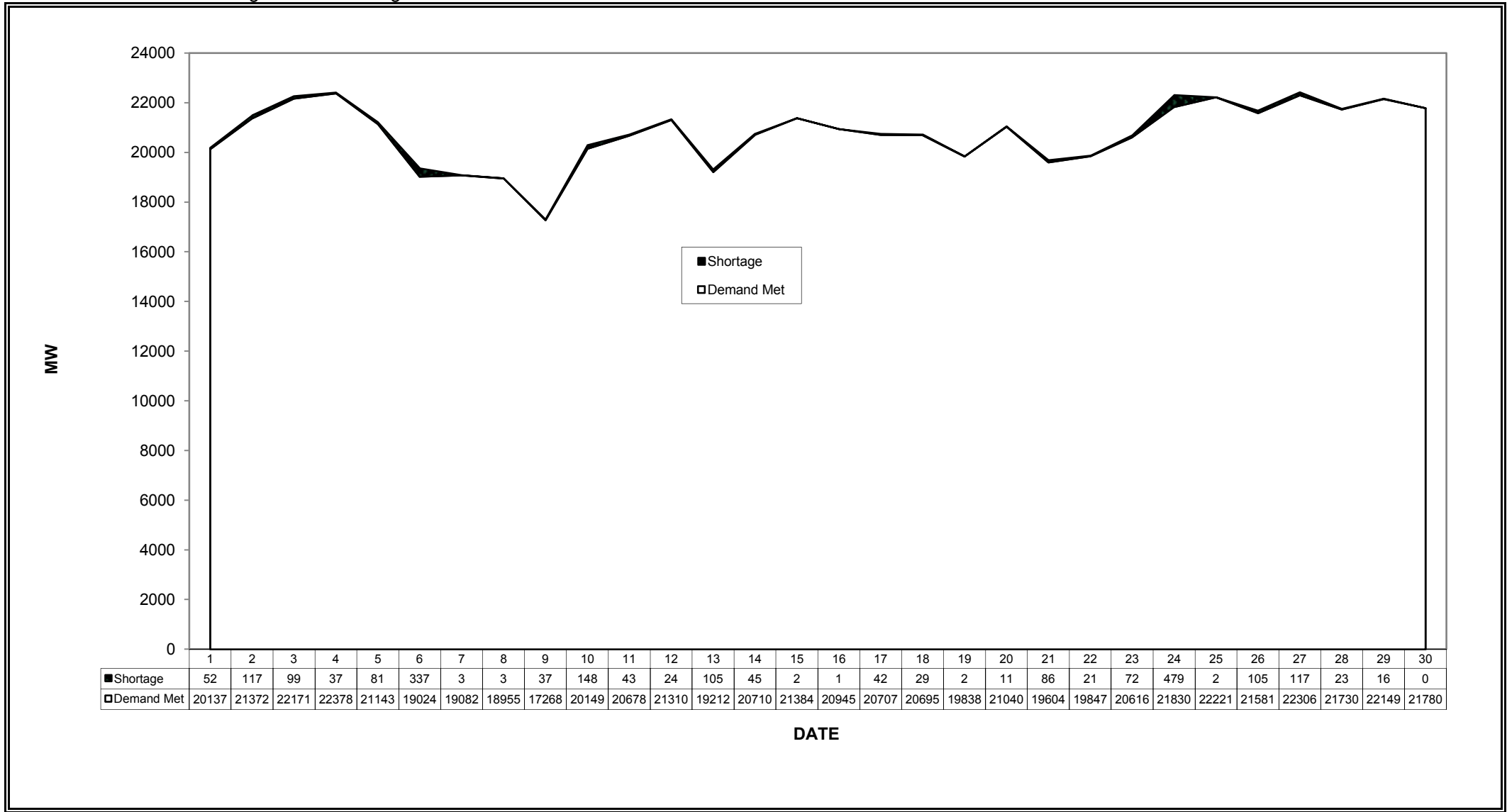


Capacity / Actual Generation Pattern of ER on Peak Day (4-4-2019) at 20.00 hrs.

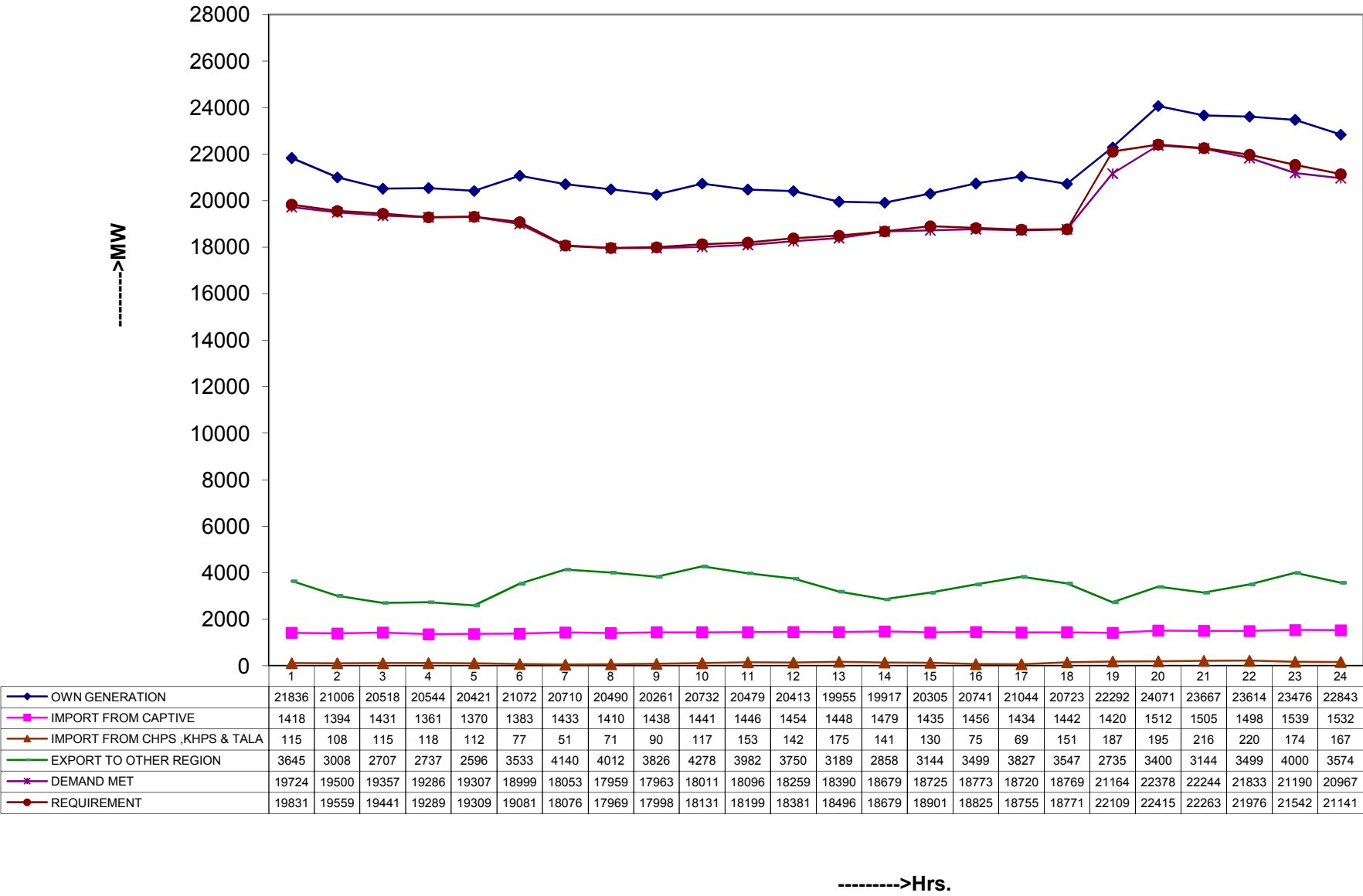


(*)--Includes contribution from HEP of Bhutan (Chukka, Kurichhu & Tala)

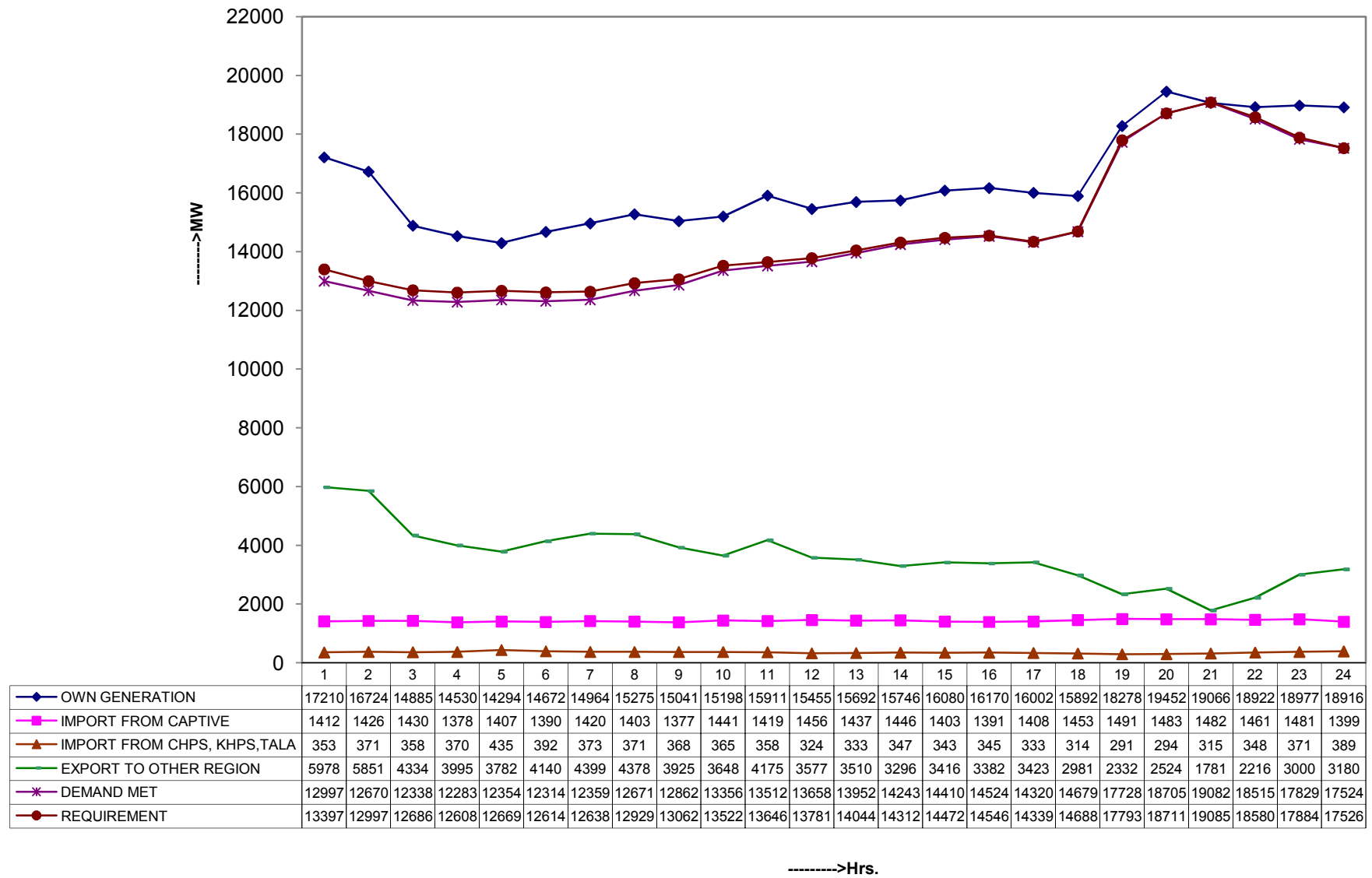
Peak Demand Met / Shortage of Eastern Region For The Month Of APRIL'2019



Hourly Load Generation Data OF ER On Regional Peak Day During The Month of APRIL'2019 (4-4-2019)

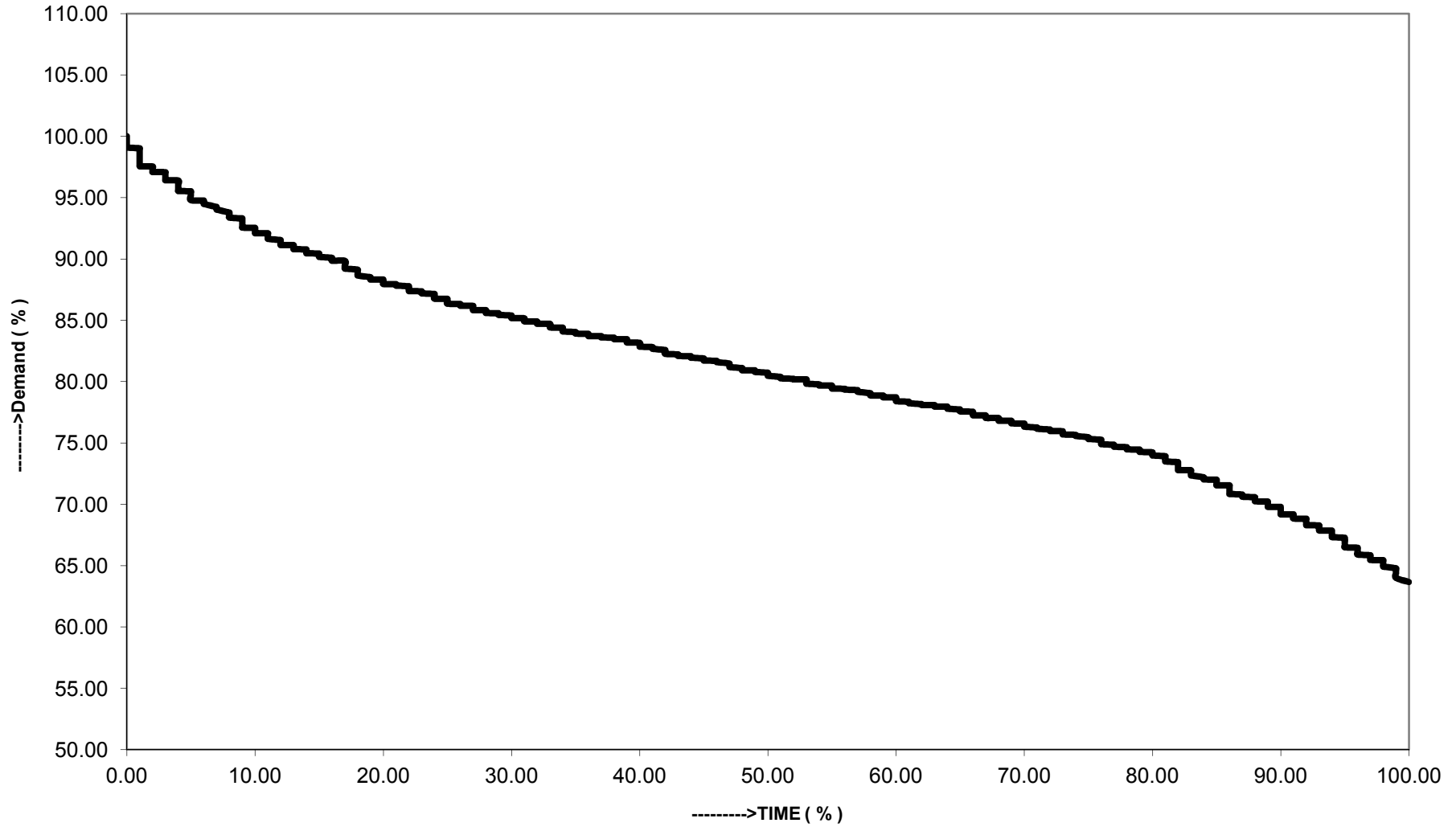


Hourly Load Generation Data of ER On Regional Lean Day During The Month of APRIL'2019 (7-4-2019)



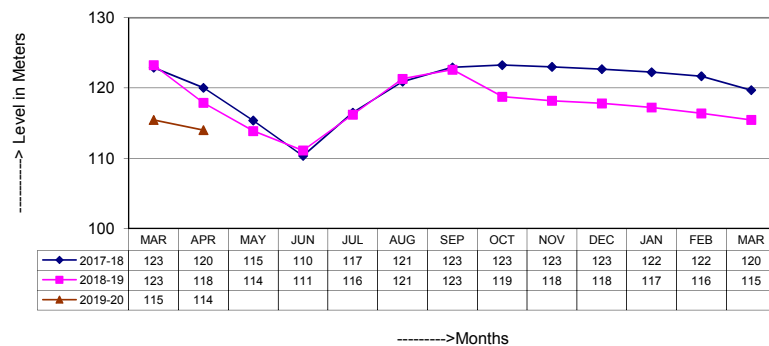
Monthly Load Duration Curve of Eastern Region for Apr-19

Maximum Demand met : 22378 MW
Minimum Demand met: 12283 MW

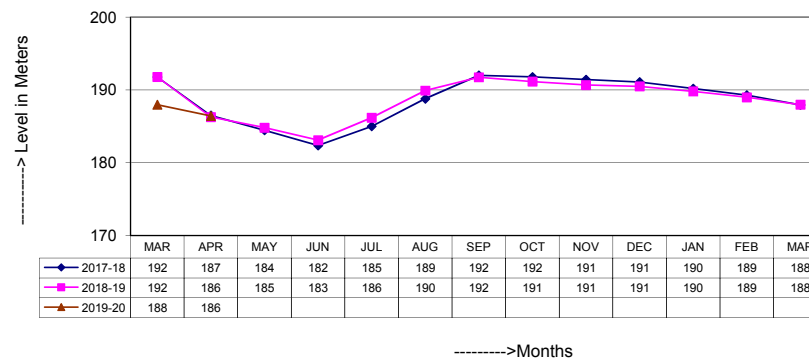


WATER LEVEL IN MAJOR RESERVOIRS ON LAST DATE OF MONTH

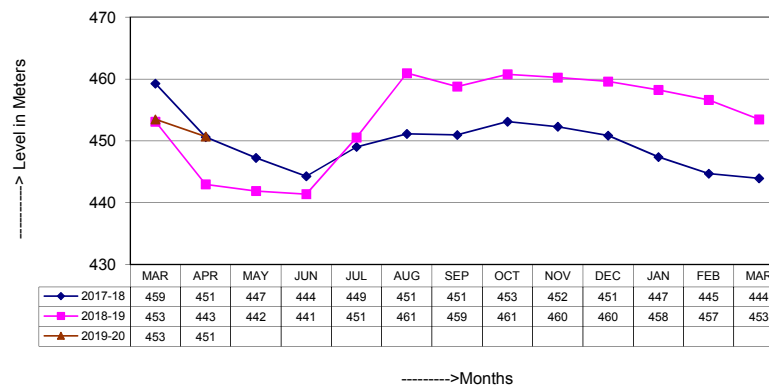
RENGALI RESERVOIR LEVEL



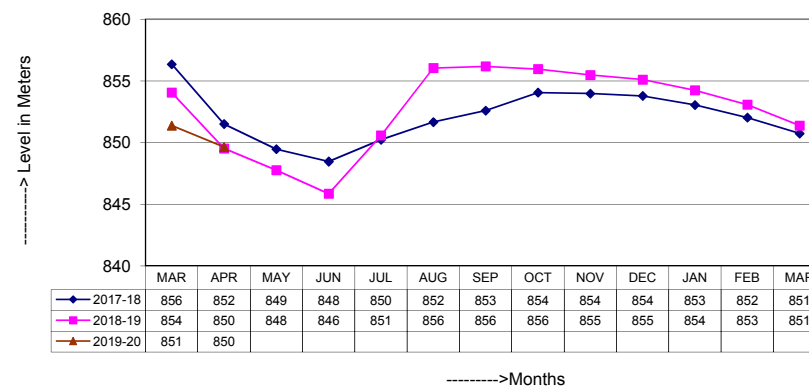
HIRAKUD RESERVOIR LEVEL



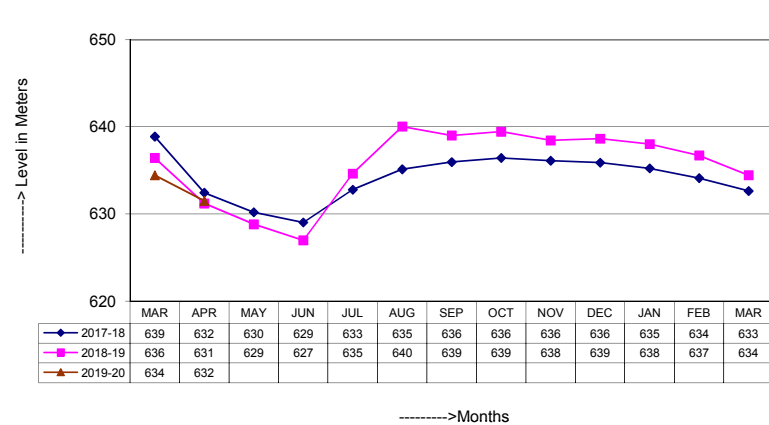
BALIMELA RESERVOIR LEVEL



UPPER KOLAB RESERVOIR LEVEL



INDRAVATI RESERVOIR LEVEL



SUBERNREKHA RESERVOIR LEVEL

