



सत्यमेव जयते

Government of India

विद्युतमंत्रालय

Ministry of Power

पूर्वी क्षेत्रीय विद्युत समिति

EASTERN REGIONAL POWER COMMITTEE

मासिक प्रगति रिपोर्ट

PROGRESS REPORT FOR THE MONTH OF

मार्च - 2020

March- 2020



14, गोल्फ क्लब रोड, टोलीगंज

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Highlights of Eastern Regional Power System for March-2020

- The **Maximum Net Demand** met of Eastern Region (ER) during the month of **Mar, 2020** was **18668 MW** which is 12.03% less than the **Mar, 2019** (21221 MW). Individual **Peak Demand (MW)** most of the constituents **decreased** compared to the corresponding period of last year.
- The **Average Net Energy Consumption** per day in ER for the month of **Mar, 2020** was **338.38 MU** excluding export, which is 11.98% less than the corresponding period of last year (384.42 MU).
- The **Average regional PLF of thermal units during the month** is **58.90%**, which is 10.23% less than the corresponding period of the last year (**69.13%**).

WBPDC (Santalidih TPS) registered the highest **PLF** of 100.29%, followed by WBPDC (Bakreswar TPP) 90.45% and CESC (**Budge-Budge**) 87.70% during the month of **Mar, 2020**.

- **Maximum Net generation** was **23380 MW** against total **Effective Capacity of 39691.26 MW** (including import from Bhutan). At the time of Regional peak (**18668 MW** on 18.03.2020 at 20.00 hrs.) the generation was 22290 MW and import from CPP was 1208 MW, Net export was 4830 MW.
- The system frequency in the IEGC recommended band (49.9 Hz to 50.05 Hz) remained for 71.04% of time during the month. **Average frequency** for the month was **50.00 Hz**. The instantaneous maximum and the minimum frequency touched were 50.32 Hz and 49.69 Hz respectively. The integrated (Fifteen minutes time block average) maximum and minimum frequency were **50.27 Hz** and **49.78 Hz** respectively (**refer Annexure-I**).
- The **Maximum Voltage** recorded **429 KV** at Binaguri 400 KV S/s whereas the minimum voltage recorded 390 KV at Muzaffarpur 400 KV S/s of Power grid.
- The **Maximum Export** from ER to outside region was **9549 MW** (including Nepal and Bangladesh) on **14th Mar, 2020** at **09:00 hrs**. Total net energy export during the month was **3661.27 MU** (Inc. Transmission loss) MU which corresponds to 27.59 % of ex-bus total generation 13268.08 MU of Eastern Region.
- The import from CPPs was 883.04 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	4597	562	1264.54
WR	411	3835	-1056.15
SR	4831	0	2667.79
NER	1429	618	243.19
BANGLADESH	955		391.98
NEPAL (via-CTU)	275		149.92
Total			3661.27
NEPAL by Bihar(NBPDCL)			57.97

SALIENT FEATURES

(YEAR TO YEAR COMPARISION)

		Mar-20	Mar-2019	CHANGE	% CHANGE
1)	Effective Capacity (end of the Month)				
	THERMAL (MW)	30130	27340	2790	10.20
	HYDRO (MW)	5877	\$ 5876	1	0
	DIESEL (MW)	0	0	0	0
	RES (MW)	1489	886	0	0
	TOTAL (MW)	37495	34102	3393	9.95
2)	Peak Demand (MW)	18766	21416	-2650	-12.37
3)	Peak Demand Met (MW)	18668	21221	-2553	-12.03
4)	Shortage (MW)	98	195	-97	-49.86
5)	% Shortage	0.52	0.91	-0.39	-42.75
6)	Average Energy Requirement Per Day (MU)	338.49	385.48	-46.99	-12.19
7)	Average Energy Availability Per Day (MU)	338.38	384.42	-46.04	-11.98
8)	Average Shortage Per Day (MU)	0.10	1.06	-0.96	-90.20
9)	% Shortage	0.03	0.27	-0.24	-88.63
10)	Net Generation for the Month				
	Thermal (MU)	12196.98	13021.78	-824.80	-6.33
	Hydro (MU)	969.60	* 1061.74	-92.14	-8.68
	RES (MU)	101.50	0.00	0.00	-
	Total (MU)	13268.08	14168.85	-900.77	-6.36
11)	Generation at the Time of Max. Regional Demand Met (18-03-20 at 20.00 Hrs.)				
	Thermal (MW)	19780	19096	684	3.58
	Hydro (MW)	2492	* 4518	-2026	-44.84
	RES(MW)	19	24	-5	-22.16
	Total (MW)	22290	23638	-1348	-5.70
12)	Inter-Regional Energy Transfer				
	Export (MU)	4717.42	4529.97	187.45	4.14
	Import (MU)	1056.15	1615.69	-559.54	-34.63
	Net Exp.(+)/Net Imp.(-) (MU)	3661.27	2914.28	746.99	25.63
13)	Import From Captive(MU)	883.04	662.35	220.69	33.32
14)	Peak Inter Regional Power Transfer				
	Max Export (MW) on 14-03-20 at 09.00Hrs	9549	7990	1559	19.51
	Max Import (MW) on 10-03-20 at 22.00Hrs	3879	3486	393	11.26
	Max Net Export(+)/Import (-) (MW)	9378	6315	3063	48.50
15)	Maximum voltage recorded	429	BINAGURI	400 kv	s/s
16)	Minimum voltage recorded	390	MUZAFFARPUR	400 kv	s/s

\$ Excludes 2196 MW contribution from HEPs of Bhutan

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

1.Regional Consumption as well as individual consumption except Jharkhand (in MU) is less compared to same month of last last year due to COVID - 19 Pandemic

POWER SUPPLY POSITION FOR THE MONTH OF MARCH'2020

A) Net Average Energy Per Day

System	Demand Met (MU/Day)	Requirement (MU/Day)	Shortage (MU/Day)	% Shortage
BSPHCL	70.79	70.84	0.05	0.07
JUVNL	22.78	22.90	0.13	0.56
DVC	51.08	51.08	0.00	0.01
ODISHA	71.52	71.52	0.01	0.01
WBSEDCL	97.00	97.14	0.14	0.14
CESC	23.39	23.39	0.00	0.01
SIKKIM	1.60	1.60	0.00	0.01
REGION	338.38	338.49	0.10	0.03

B) Peak Demand in MW:

System	Demand Met (MW)	Requirement (MW)	Shortage (MW)	% Shortage
BSPHCL	4146	4146	0	0.00
JUVNL	1274	1274	0	0.00
DVC	2509	2509	0	0.02
ODISHA	3824	3830	6	0.15
WBSEDCL	5650	5650	0	0.00
CESC	1528	1528	0	0.0
SIKKIM	108	109	1	0.92
REGION	18668	18766	98	0.52

➤ **DIVERSITY FACTOR** **1.02**

➤ **Regional Peak Demand Met on 18-3-2020 at 20.00 hrs. at 49.96 Hz.**

CONSTITUENT-WISE PERFORMANCE DATA MARCH-2020

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	78.27	50.20	128.47	0.00	7.94	0.00	7.94	0.00	70.33	50.20	120.53	0.00	2073.89	2194.42	70.8	4146	4146
JUVNL	0.00	214.79	0.00	214.79	0.00	26.27	0.00	26.27	0.00	188.52	0.00	188.52	51.79	465.73	706.03	22.8	1274	1288
DVC	14.71	2780.60	0.00	2795.31	0.10	198.61	0.00	198.71	14.60	2581.99	0.00	2596.60	9.15	-1022.38	1583.36	51.1	2509	2864
ODISHA(OPGC+OHPC+TTPS)	441.40	1048.28	42.11	1531.80	4.49	93.59	0.00	98.08	436.91	954.69	42.11	1433.72	702.79	80.56	2217.06	71.52	3824	3980
WBPDC+WBSEDCL+DPL	43.58	1954.78	6.91	2005.27	0.00	175.60	0.00	175.60	43.58	1779.18	6.91	1829.68	119.31	1058.12	3007.10	97.0	5650	5982
CESC	0.00	489.35	0.00	489.35	0.00	36.69	0.00	36.69	0.00	452.66	0.00	452.66	0.00	272.43	725.09	23.4	1528	1590
HEL	0.00	274.80	0.00	274.80	0.00	21.66	0.00	21.66	0.00	253.14	0.00	253.14	0.00	-253.14				
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	48.73	49.73	1.6	108	108
NTPC	0.00	4999.11	1.27	5000.38	0.00	381.59	0.00	381.59	0.00	4617.52	1.27	4618.79	0.00	-4618.79				
MPL	0.00	428.89	0.00	428.89	0.00	28.16	0.00	28.16	0.00	400.73	0.00	400.73	0.00	-400.73				
APNRL	0.00	243.21	0.00	243.21	0.00	18.88	0.00	18.88	0.00	224.33	0.00	224.33	0.00	-224.33				
GMR	0.00	288.58	0.00	288.58	0.00	21.76	0.00	21.76	0.00	266.82	0.00	266.82	0.00	-266.82				
JITPL	0.00	436.74	0.00	436.74	0.00	29.67	0.00	29.67	0.00	407.07	0.00	407.07	0.00	-407.07				
NHPC (Inc TLDP= 38.89 MU)	164.79	0.00	0.00	164.79	0.00	0.00	0.00	0.00	164.79	0.00	0.00	164.79	0.00	-164.79	0.00			
CHPC(Birpara Receipt)	6.91	0.00	0.00	6.91	0.00	0.00	0.00	0.00	6.91	0.00	0.00	6.91	0.00	-6.91	0.00			
KHPS	-12.22	0.00	0.00	-12.22	0.00	0.00	0.00	0.00	-12.22	0.00	0.00	-12.22	0.00	12.22	0.00			
THPS	4.47	0.00	0.00	4.47	0.00	0.00	0.00	0.00	4.47	0.00	0.00	4.47	0.00	-4.47	0.00			
DAGACHU HPS	12.45	0.00	0.00	12.45	0.00	0.00	0.00	0.00	12.45	0.00	0.00	12.45	0.00	-12.45	0.00			
Mangdechhu HEP	81.81	0.00	0.00	81.81	0.00	0.00	0.00	0.00	81.81	0.00	0.00	81.81	0.00	-81.81	0.00			
CHUZACHEN HPS	10.90	0.00	0.00	10.90	0.00	0.00	0.00	0.00	10.90	0.00	0.00	10.90	0.00	-10.90	0.00			
JORHANG HPS	10.86	0.00	0.00	10.86	0.00	0.00	0.00	0.00	10.86	0.00	0.00	10.86	0.00	-10.86	0.00			
TEESTA-III HPS	176.08	0.00	0.00	176.08	0.00	0.00	0.00	0.00	176.08	0.00	0.00	176.08	0.00	-176.08	0.00			
DIKCHU HPS	9.29	0.00	0.00	9.29	0.00	0.00	0.00	0.00	9.29	0.00	0.00	9.29	0.00	-9.29	0.00			
TASHIDING HPS	9.16	0.00	0.00	9.16	0.00	0.00	0.00	0.00	9.16	0.00	0.00	9.16	0.00	-9.16	0.00			
Total Drawal by HVDC Sahsaram,Alipurduar														6.95	6.95			
Total	974.20	13237.40	101.50	14313.09	4.59	1040.41	0.00	1045.00	969.60	12196.99	101.50	13268.09	883.04	-3661.38	10489.75	338.38	18668	20198

3A

13268.09

10489.75

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	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	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	450.73	451.52	0.79	0.17	50.00
AUGUST	446.36	449.17	2.81	0.63	49.97	460.9	462.13	1.26	0.27	49.99
SEPTEMBER	440.53	448.47	7.94	1.77	49.96	445.43	446.55	1.12	0.25	50.00
OCTOBER	419.33	423.20	3.87	0.91	49.96	391.21	391.33	0.12	0.03	50.00
NOVEMBER	368.99	371.76	2.77	0.75	49.97	344.02	344.15	0.12	0.04	50.00
DECEMBER	340.51	342.17	1.66	0.49	49.96	338.90	339.25	0.35	0.10	49.99
JANUARY	355.14	357.42	2.29	0.64	49.98	349.04	349.39	0.34	0.10	49.99
FEBRUARY	356.66	357.25	0.59	0.17	49.99	358.72	359.75	1.03	0.29	49.99
MARCH	384.42	385.48	1.06	0.27	49.99	338.38	338.47	0.08	0.02	50.00

B) Peak in MW:

Month	2018-19					2019-20				
	Demand Met	Requirement	Shortage	Shortage	Avg. Freq.	Demand Met	Requirement	Shortage	Shortage	Avg. Freq.
	(MW)	(MW)	(MW)	(%)	(HZ)	(MW)	(MW)	(MW)	(%)	(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	23154	23246	92	0.40	50.00
AUGUST	22580	22794	215	0.94	49.97	23398	23421	22	0.10	49.99
SEPTEMBER	22286	22815	529	2.32	49.96	23126	23276	150	0.64	50.00
OCTOBER	22733	23093	360	1.56	49.96	21706	21726	20	0.09	50.00
NOVEMBER	20322	20512	190	0.93	49.97	19212	19291	79	0.41	50.00
DECEMBER	18023	18049	25	0.14	49.96	18068	18068	0	0.00	49.99
JANUARY	18702	18783	81	0.43	49.98	18714	18758	44	0.24	49.99
FEBRUARY	18921	18923	2	0.01	49.99	18962	18968	7	0.03	49.99
MARCH	21221	21416	195	0.91	49.99	18668	18766	98	0.52	50.00

PERFORMANCE OF GENERATING STATIONS IN THE EASTERN REGION DURING THE MONTH OF MARCH-2020

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
BIHAR	Thermal	Barauni (U# 6,7)	220.00	210.00	25.44	23.41	169.58	147.83
		Muzaffarpur Stg-I	220.00	220.00	0.00	-1.10	588.85	508.27
		BTPS (NTPC)	250.00	250.00	52.83	48.02	52.83	48.02
		Thermal Total	690.00	680.00	78.27	70.33	811.26	704.11
	RES		341.25	341.25	50.20	50.20	369.31	369.31
		Total BIHAR	1031.25	1021.25	128.47	120.53	1180.57	1073.42
JHARKHAND								
TVNL	Thermal	TVNL	420.00	420.00	214.79	188.52	2416.62	2117.39
JSEB	Hydro	Subarnrekha (U#1,2)	130.00	130.00	0.00	0.00	36.12	36.12
	RES		46.75	46.75	0.00	0.00	0.00	0.00
	Total		176.75	176.75	0.00	0.00	36.12	36.12
DVC	Thermal	Bokaro-B(3)	210.00	210.00	0.00	0.00	94.03	68.00
		Chandrapura(U7 # 8)	500.00	500.00	287.87	258.88	3425.66	3090.17
		Durgapur(4)	210.00	210.00	7.35	5.28	437.91	372.88
		Mezia(1,2,3,4,5,6)	1340.00	1340.00	473.14	422.32	7263.99	6514.90
		Mezia(U # 7,8)	1000.00	1000.00	421.58	397.86	5276.78	4988.02
		Bokaro-A(1)	500.00	500.00	264.81	250.75	2690.00	2537.06
		Durgapur STPS (U#1,2)	1000.00	1000.00	563.69	532.18	6319.03	5964.68
		Raghunathpur TPS (U#1,2)	1200.00	1200.00	312.60	292.71	5030.71	4717.48
		Koderma STPS (U#1,2)	1000.00	1000.00	449.55	422.58	6459.72	6096.88
		Total Thermal	6960.00	6960.00	2780.60	2582.00	36997.83	34348.41
	Hydro	Maithon (U#1,2,3)	63.20	63.20	5.63	5.60	83.62	83.25
		Panchet (U#1,2)	80.00	80.00	8.55	8.49	114.15	113.40
		Tilaya (U#1,2)	4.00	4.00	0.53	0.5	4.68	4.6
		Hydro Total	147.20	147.20	14.71	14.60	202.45	201.22
		Total DVC	7107.20	7107.20	2795.31	2596.60	37200.28	34549.63
WEST BENGAL								
WBPDC	Thermal	Bandel TPS	380.00	335.00	22.34	17.97	861.06	754.26
		Santalidih TPS(U#5&6)	500.00	500.00	373.08	343.98	3693.93	3392.37
		Kolaghat TPS	1260.00	1260.00	118.73	101.61	2871.40	2520.84
		Bakreswar TPP	1050.00	1050.00	706.63	647.31	6996.73	6363.36
		Sagardighi TPP	1600.00	1600.00	577.19	525.29	6695.28	6086.52
		DPPS (300+250 *)	550.00	550.00	156.81	143.03	2233.21	2002.63
		Thermal Total	5340.00	5295.00	1954.78	1779.18	23351.61	21119.99
		WBSEDCL	Hydro	Jaldhaka (3x9+2x4)	35.00	35.00	8.72	8.72
Ramam (4x12.73)	51.00			51.00	9.24	9.24	247.29	247.29
Teesta C.F. (3x3x7.5)	67.50			67.50	0.00	0.00	43.75	43.75
Purulia PSS (4x225)	900.00			900.00	25.63	25.63	1075.47	1075.47
Total Hydro	1053.50			1053.50	43.58	43.58	1555.48	1555.48
RES	527.29			527.29	6.91	6.91	173.88	173.88
	➤	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 MARCH-2020

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	0.00	0.00	339.26	307.20
		Budge-Budge (3x250)	750.00	750.00	489.35	452.66	5798.16	5352.42
		Total CESC	1125.00	1125.00	489.35	452.66	6137.43	5659.62
HEL	Thermal	HEL	600.00	600.00	274.80	253.14	4428.68	4095.73
		Total West Bengal	8645.79	8600.79	2769.42	2535.47	35647.07	32604.70
ODISHA (NTPC)	Thermal	Talcher-I	250.00	240.00	170.07	151.29	1857.81	1649.90
		Talcher-II	220.00	220.00	107.23	95.39	1520.46	1350.04
		Total Thermal	470.00	460.00	277.30	246.68	3378.27	2999.94
OPGC	Thermal	IB TPS	420.00	420.00	226.59	200.03	2643.54	2340.76
		IB TPS U#3(660 MW)	660.00	660.00	276.09	259.25	2293.34	2147.79
		IB TPS U#4(660 MW)	660.00	660.00	268.31	248.73	2081.12	1909.44
OHPC	Hydro	Hirakud-I (Burla)	275.50	275.50	21.31	21.17	547.38	544.65
		Hirakud-II (Chiplima)	72.00	72.00	11.88	11.81	242.65	241.43
		Balimela (6x60+2x75)	510.00	510.00	75.65	74.24	1509.39	1497.68
		Rengali (5x50)	250.00	250.00	54.96	54.04	666.25	662.79
		Upper Kolab (4x80)	320.00	320.00	80.85	80.52	828.45	824.28
		Indravati HPS (4x150)	600.00	600.00	169.20	167.59	2253.60	2230.95
		Mckd.(Odisha drawal)	57.38	57.38	27.55	27.55	309.16	309.16
		Total Hydro	2084.88	2084.88	441.40	436.91	6356.89	6310.94
		RES	511.21	511.21	42.11	42.11	324.70	324.70
		Total Odisha	4806.09	4796.09	1531.80	1433.71	17077.86	16033.57
(**) SIKKIM	Hydro	RES	52.18	52.18	1.00	1.00	26.00	26.00
NTPC		MTPS Stg-II	390.00	390.00	182.9	163.56	2316.93	2076.93
		FSTPP# I&II (3x200+2x500)	1600.00	1600.00	828.13	761.07	10320.79	9516.36
		FSTPP (U# 6)	500.00	500.00	263.00	242.90	2811.84	2621.44
		KhSTPP (4x210+3x500)	2340.00	2340.00	1369.36	1264.44	16504.36	15282.98
		TSTPP (2x500)	1000.00	1000.00	580.74	533.30	6043.30	5528.67
		BARH STPS II (2X660)	1320.00	1320.00	607.90	568.27	8219.09	7733.80
		BRBCL # 1,2,3(3X250 MW)	750	750	398.19	366.37	4887.08	4519.06
		NSTPS	660.00	660.00	395.92	374.65	2783.79	2615.03
		DSTPP	800.00	800.00	372.97	342.97	607.40	530.65
		Total NTPC	9360.00	9360.00	4999.11	4617.52	54494.58	50424.93
NHPC	HYDRO	Rangit (3x20)	60.00	60.00	14.58	14.58	349.94	349.94
		Teesta (3x170)	510.00	510.00	111.32	111.32	2810.78	2810.78
		TLDP -(4x33+4x40)	292.00	292.00	38.89	38.89	1300.19	1300.19
		Total NHPC	862.00	862.00	164.79	164.79	4460.91	4460.91
1298.95		MPL (U#1&2)	1050.00	1050.00	428.89	400.73	6488.19	6101.90
		APNRL (U#1,2)	540.00	540.00	243.21	224.33	2959.47	2711.91
		GMR (2x350)	700.00	700.00	288.58	266.82	3758.50	3487.60
		JITPL (2X600)	1200.00	1200.00	436.74	407.07	5199.79	4865.91
		CHUZACHEN** (2x55)	110.00	110.00	10.90	10.90	467.19	467.19
		JORETHANG (2x48)	96.00	96.00	10.86	10.86	404.59	404.59
		TEESTA URJA St III (6x200)	1200.00	1200.00	176.08	176.08	5996.24	5996.24
		Tashilding (2x48.5)	97.00	97.00	9.16	9.16	433.58	433.58
		DICKCHU (2x48)	96.00	96.00	9.29	9.29	471.71	471.71
		TALCHER SOLAR	10.00	10.00	1.27	1.27	13.40	13.40
		Total Thermal (E.R)	30195.00	30130.00	13237.40	12196.98	157440.23	145035.43
EASTERN REGIONAL		Total Hydro (E.R)	5876.58	5876.58	880.77	876.17	20385.15	20337.97
		Total RES	1488.68	1488.68	101.50	101.50	907.29	907.29
		TOTAL (E.R)	37560.26	37495.26	14219.66	13174.65	178732.67	166280.70
BHUTAN	Hydro	CHPC(4x90)	360.00	270.00	6.91	6.91	1589.99	1589.99
	Hydro	Kurichu (4x15)	60.00	60.00	-12.22	-12.22	235.53	235.53
	Hydro	TALA (6x170)	1020.00	1020.00	4.47	4.47	2557.05	2557.05
	Hydro	DAGACHU (2x63)	126.00	126.00	12.45	12.45	391.70	391.70
		MANGDECHU(4x180)	720.00	720.00	81.81	81.81	1576.38	1576.38
		Grand Total	39846.26	39691.26	14313.09	13268.08	185083.32	172631.34

PLANT LOAD FACTOR (PLF) OF THERMAL POWER STATIONS IN EASTERN REGION DURING THE MONTH OF MARCH' 2020

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 (%)
BIHAR	Thermal	Barauni (U# 6,7)	220.00	210.00	25.44	16.28	169.58	9.19
		Muzaffarpur Stg-I	220.00	220.00	0.00	0.00	588.85	30.47
		BTPS (NTPC)	250.00	250.00	52.83	28.40	52.83	28.40
		Thermal Total	690.00	680.00	78.27	15.47	811.26	20.47
	RES		341.25	341.25	50.20		369.31	
		Total BIHAR	1031.25	1021.25	128.47		1180.57	
JHARKHAND								
TVNL	Thermal	TVNL	420.00	420.00	214.79	68.74	2416.62	65.50
JSEB	Hydro	Subarnrekha (U#1,2)	130.00	130.00	0.00		36.12	
	RES		46.75	46.75	0.00		0.00	
	Total		176.75	176.75	0.00		36.12	
DVC	Thermal	Bokaro-B(3)	210.00	210.00	0.00	0.00	94.03	5.10
		Chandrapura(U7 # 8)	500.00	500.00	287.87	77.38	3425.66	78.00
		Durgapur(4)	210.00	210.00	7.35	4.71	437.91	23.74
		Mezia(1,2,3,4,5,6)	1340.00	1340.00	473.14	47.46	7263.99	61.71
		Mezia(U # 7,8)	1000.00	1000.00	421.58	56.66	5276.78	60.07
		Bokaro-A(1)	500.00	500.00	264.81	71.19	2690.00	61.25
		Durgapur STPS (U#1,2)	1000.00	1000.00	563.69	75.76	6319.03	71.94
		Raghunathpur TPS (U#1,2)	1200.00	1200.00	312.60	35.01	5030.71	47.73
		Koderma STPS (U#1,2)	1000.00	1000.00	449.55	60.42	6459.72	73.54
		Total Thermal	6960.00	6960.00	2780.60	53.12	36997.83	59.45
	Hydro	Maithon (U#1,2,3)	63.20	63.20	5.63		83.62	
		Panchet (U#1,2)	80.00	80.00	8.55		114.15	
		Tilaya (U#1,2)	4.00	4.00	0.53		4.68	
		Hydro Total	147.20	147.20	14.71		202.45	
		Total DVC	7107.20	7107.20	2795.31		37200.28	
WEST BENGAL								
WBPDC	Thermal	Bandel TPS	380.00	335.00	22.34	8.96	861.06	29.26
		Santalidih TPS(U#5&6)	500.00	500.00	373.08	100.29	3693.93	84.11
		Kolaghat TPS	1260.00	1260.00	118.73	12.67	2871.40	25.94
		Bakreswar TPP	1050.00	1050.00	706.63	90.45	6996.73	75.86
		Sagardighi TPP	1600.00	1600.00	577.19	48.49	6695.28	47.64
		DPPS (300+250 *)	550.00	550.00	156.81	38.32	2233.21	39.68
		Thermal Total	5340.00	5295.00	1954.78	49.62	23351.61	49.36
WBSEDCL	Hydro	Jaldhaka (3x9+2x4)	35.00	35.00	8.72		188.97	
		Ramam (4x12.73)	51.00	51.00	9.24		247.29	
		Teesta C.F. (3x3x7.5)	67.50	67.50	0.00		43.75	
		Purulia PSS (4x225)	900.00	900.00	25.63		1075.47	
		Total Hydro	1053.50	1053.50	43.58		1555.48	
		RES	527.29	527.29	6.91		173.88	
	WBPDC, Bandel TPS Unit #3 & Unit #4 (IC=2X82.5 MW, EC=2X60 MW) decommissioned from 01.04.2018.							
	Infirm Gross Gen.(MU)							
	1. IB U#3 (660 MW)			COD from 03.07.19				224.06
	2. IB U#4 (660 MW)			COD from 21.08.19				298.16
3.NSTPS U#1(660 MW)			COD from 06.09.2019				218.85	
4.BARAUNI TPS U#1(250 MW) COD 01.03.2020							0.00	
5.DARLIPALI S TPS U#1(800 MW) COD 01.03.2020							234.45	
Total							975.52	
6. DPL U#6 (110 MW) Decommissioned from 28.01.20 as per CEA.								
7. CTPS U#6 (140 MW) Decommissioned from 19.03.2020 as per CEA.								

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	0.00	0.00	339.26	28.61
		Budge-Budge (3x250)	750.00	750.00	489.35	87.70	5798.16	88.01
		Total CESC	1125.00	1125.00	489.35	58.46	6137.43	62.11
HEL	Thermal		600.00	600.00	274.80	61.56	4428.68	84.03
		Total West Bengal	8645.79	8600.79	2769.42		35647.07	
ODISHA (NTPC)	Thermal	Talcher-I	250.00	240.00	170.07	95.25	1857.81	88.12
		Talcher-II	220.00	220.00	107.23	65.51	1520.46	78.68
		Total Thermal	470.00	460.00	277.30	81.02	3378.27	83.61
OPGC	Thermal	IB TPS	420.00	420.00	226.59	72.51	2643.54	71.65
		IB TPS U#3(660 MW)	660.00	660.00	276.09	56.22	2293.34	47.85
		IB TPS U#4(660 MW)	660.00	660.00	268.31	54.64	2081.12	50.25
OHPC	Hydro	Hirakud-I (Burla)	275.50	275.50	21.31		547.38	
		Hirakud-II (Chiplima)	72.00	72.00	11.88		242.65	
		Balimela (6x60+2x75)	510.00	510.00	75.65		1509.39	
		Rengali (5x50)	250.00	250.00	54.96		666.25	
		Upper Kolab (4x80)	320.00	320.00	80.85		828.45	
		Indravati HPS (4x150)	600.00	600.00	169.20		2253.60	
		Mckd.(Odisha drawal)	57.38	57.38	27.55		309.16	
		Total Hydro	2084.88	2084.88	441.40		6356.89	
		RES	511.21	511.21	42.11		324.70	
		Total Odisha	4806.09	4796.09	1531.80		17077.86	
(**) SIKKIM	Hydro	RES	52.18	52.18	1.00		26.00	
NTPC		MTPS Stg-II	390	390	182.9	63.03	2316.93	67.63
		FSTPP# I&II (3x200+2x500)	1600.00	1600.00	828.13	69.57	10320.79	73.43
		FSTPP (U# 6)	500.00	500.00	263.00	70.70	2811.84	64.02
		KhSTPP (4x210+3x500)	2340.00	2340.00	1369.36	78.66	16504.36	80.30
		TSTPP (2x500)	1000.00	1000.00	580.74	78.06	6043.30	68.80
		BARH STPS II (2X660)	1320.00	1320.00	607.90	61.90	8219.09	70.89
		BRBCL # I,2,3(3X250 MW)	750.00	750.00	398.19	71.36	4887.08	74.18
		NSTPS	660.00	660.00	395.92	80.63	2783.79	77.85
		DSTPP			372.97	62.66	607.40	62.66
		Total NTPC	9360.00	9360.00	4999.11	71.79	54494.58	73.74
NHPC	HYDRO	Rangit (3x20)	60.00	60.00	14.58		349.94	
		Teesta (3x170)	510.00	510.00	111.32		2810.78	
		TLDP - (4x33+4x40)	292.00	292.00	38.89		1300.19	
		Total NHPC	862.00	862.00	164.79		4460.91	
	Thermal	MPL (U#1&2)	1050.00	1050.00	428.89	54.90	6488.19	70.35
		APNRL (U#1,2)	540.00	540.00	243.21	60.54	2959.47	62.39
		GMR (2x350)	700.00	700.00	288.58	55.41	3758.50	61.13
		JITPL (2X600)	1200.00	1200.00	436.74	48.92	5199.79	49.33
		CHUZACHEN** (2x55)	110.00	110.00	10.90		467.19	
		JORETHANG (2x48)	96.00	96.00	10.86		404.59	
		TEESTA URJA St III (6x200)	1200.00	1200.00	176.08		5996.24	
		Tashilding (2x48.5)	97.00	97.00	9.16		433.58	
		DICKCHU (2x48)	96.00	96.00	9.29		471.71	
		TALCHER SOLAR	10.00	10.00	1.27		13.40	
		Total Thermal (E.R)	30195.00	30130.00	13237.40	58.90	157440.23	62.12
EASTERN REGIONAL		Total Hydro (E.R)	5876.58	5876.58	880.77		20385.15	
		Total RES	1488.68	1488.68	101.50		907.29	
		TOTAL (E.R)	37560.26	37495.26	14219.66		178732.67	
BHUTAN	Hydro	CHPC(4x90)	360.00	270.00	6.91		1589.99	
	Hydro	Kurichu (4x15)	60.00	60.00	-12.22		235.53	
	Hydro	TALA (6x170)	1020.00	1020.00	4.47		2557.05	
	Hydro	DAGACHU (2x63)	126.00	126.00	12.45		391.70	
		MANGDECHU(4x180)	720.00	720.00	81.81		1576.38	
		Grand Total	39846.26	39691.26	14313.09		185083.32	

CONTRIBUTIONS OF DIFFERENT CONSTITUENTS AT THE TIME OF REGIONAL PEAK
DURING THE MONTH OF MARCH'2020 (18-3-2020)

Date 18-Mar-20
Time 20.00 Hrs.
Frequency 49.96 Hz.

(All Fig. in MW)

System/State	Installed Capacity	Effective Capacity	Hydro	Thermal	RES	Total
BSPHCL	1031	1021	0	81	0	81
JUVNL	597	597	0	276	0	276
DVC	7107	7107	31	4635	0	4666
ODISHA	4806	4796	1082	1482	19	2582
WBSEDCL	6371	6326	181	2812	0	2993
TLDP	292	292	193	0	0	193
HEL HALDIA	600	600	0	534	0	534
CESC	1125	1125	0	716	0	716
DPL	550	550	0	0	0	0
SIKKIM	52	52	0	0	0	0
NTPC	9360	9360	0	7801	0	7801
NHPC	570	570	392	0	0	392
CHUKHA	360	270	31	0	0	31
KURICHU	60	60	-47	0	0	-47
TALA	1020	1020	20	0	0	20
MPL	1050	1050	0	484	0	484
OPGC (660 MW)	0	0	0	0	0	0
APNRL	540	540	0	246	0	246
Kamalganga (GMR)	700	700	0	154	0	154
JITPL	1200	1200	0	560	0	560
Chuzachen	110	110	109	0	0	109
Jorethang	96	96	42	0	0	42
TEESTA URJA St III	1200	1200	265	0	0	265
Tashilding	97	97	36	0	0	36
DICKCHU	96	96	50	0	0	50
<u>Daghachu</u>	126	126	15	0	0	15
<u>Solar</u>	10	10	0	0	0	0
<u>Mangdechhu</u>	720	720	93	0	0	93
<u>Total</u>	39846	39691	2492	19780	19	22290
Import From Captive:						1208
Export To:						
NER						35
SR						3569
WR						-2746
NR						2788
Bangladesh						938
Nepal						246
Total						4830

➤ I Net Peak Demand Met (MW) :

18668

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

Hourly Load Generation Data OF ER On Regional Peak Day During The Month of MARCH'2020 (18-3-2020)

(All Figures in MW)

Generation				Import	Net	Net	Demand	Freq.	Load	
Hrs.	Hydro	Thermal	Total	from Captive	Import From Hydro of Bhutan	Export to other region	Met	Correction	Shed	Requirement
1	496	18330	18826	1263	85	5061	15113	-9	1	15114
2	779	17638	18416	1231	88	4634	15102	-8	2	15104
3	590	16999	17589	1266	86	4286	14655	-9	2	14656
4	524	16827	17351	1197	74	4021	14601	1	2	14604
5	561	17159	17721	1260	62	4240	14803	-4	2	14804
6	844	17573	18418	1284	48	4714	15036	-17	2	15038
7	1845	18095	19940	1259	27	5630	15596	-14	2	15598
8	2292	19443	21735	1284	13	7259	15772	-30	1	15773
9	2475	19638	22113	1193	23	7567	15762	-12	9	15771
10	2243	19765	22008	1165	34	7562	15644	23	10	15678
11	1514	19590	21104	1118	35	6703	15554	7	0	15561
12	1225	19575	20799	1103	28	6480	15451	-8	0	15451
13	1226	18284	19510	1043	19	5527	15045	12	0	15057
14	1021	17870	18890	1106	45	5318	14723	15	1	14740
15	957	18186	19144	1120	54	5658	14659	33	1	14693
16	758	18900	19658	1160	38	6192	14666	38	0	14704
17	641	19248	19889	1175	25	6359	14730	50	0	14780
18	1061	19337	20398	1228	93	6169	15550	-15	0	15550
19	2052	19698	21749	1234	101	4854	18230	8	0	18238
20	2398	19780	22178	1209	113	4830	18668	28	70	18766
21	1819	19494	21313	1199	119	4319	18313	3	0	18316
22	1163	19723	20886	1250	89	4938	17286	2	0	17288
23	822	19436	20259	1264	45	5355	16214	35	0	16249
24	768	18553	19321	1211	57	5041	15548	16	0	15564

Hourly Load Generation Data of ER On Regional Lean Day During The Month of MARCH'2020 (29-3-2020)

(All Figures in MW)

Generation				Import	Net	Net	Demand	Freq.	Load	
Hrs.	Hydro	Thermal	Total	from Captive	Import From Hydro of Bhutan	Export to other region	Met	Correction	Shed	Requirement
1	1095	15681	16776	1415	465	3984	14672	1	104	14777
2	1033	14548	15581	1422	403	3148	14258	-2	113	14369
3	1006	13877	14883	1432	408	2752	13971	12	118	14102
4	772	13711	14483	1419	388	2468	13822	1	0	13823
5	853	13518	14371	1403	378	2415	13737	53	0	13790
6	1423	13801	15225	1428	358	3249	13762	22	4	13788
7	2324	13726	16050	1431	331	4402	13410	9	108	13527
8	2441	13240	15682	1376	323	4335	13046	-7	32	13071
9	2418	13416	15834	1352	315	4719	12782	-27	31	12787
10	2382	13117	15499	1306	300	4621	12484	-23	7	12490
11	1885	11844	13729	1279	284	3217	12075	-40	8	12083
12	1747	11902	13649	1258	341	3701	11547	-11	8	11555
13	1500	11797	13297	1202	311	3820	10989	-12	7	10996
14	1216	11729	12944	1110	286	3477	10864	-71	7	10871
15	1015	11713	12729	1062	288	3066	11013	-19	5	11018
16	1461	11680	13142	1035	290	3226	11241	4	1	11246
17	1358	11893	13251	1099	278	3318	11310	38	2	11350
18	1119	12302	13420	1130	304	3240	11614	1	1	11616
19	1830	13347	15177	1098	349	2127	14497	25	1	14524
20	2204	15223	17427	1137	358	3438	15485	11	5	15500
21	2016	15361	17377	1140	412	3128	15802	-7	5	15807
22	1843	14717	16560	1150	457	2691	15476	-8	3	15479
23	1487	14152	15639	1146	430	3086	14129	7	3	14140
24	1381	14018	15400	1111	450	3156	13804	14	3	13822

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

FOR THE MONTH OF MARCH'2020

POWER CUT / RESTRICTIONS

BSPHCL	NO NOTIFIED CUTS/RESTRICTIONS However there was loadshedding of 1.45 MU
JUVNL	NO NOTIFIED CUTS/RESTRICTIONS However there was loadshedding of 3.88 MU
DVC	NO NOTIFIED CUTS/RESTRICTIONS. However there was loadshedding of 0.00 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 4.09 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

Mar-20

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		HZ		
01-Mar	50.02	50.00	50.01	50.00	50.00	50.01	3.10	72.30	24.60	72.30	50.26	18.02.20	49.81	09.07.00	50.13	0:00	49.89	0:00
02-Mar	49.99	50.01	49.93	50.01	50.00	49.98	10.05	73.70	16.25	73.70	50.20	0:00	49.76	14.55.00	50.12	0:00	49.80	0:00
03-Mar	49.98	49.99	50.00	50.00	49.99	49.99	4.65	76.90	18.45	76.90	50.18	17.05.50	49.80	22.08.00	50.11	0:00	49.89	0:00
04-Mar	49.98	50.02	50.00	49.98	50.01	50.00	4.74	72.34	22.90	72.30	50.22	18.03.00	49.82	17.55.40	50.11	0:00	49.90	0:00
05-Mar	49.98	49.97	50.01	50.01	49.97	49.99	5.50	73.60	20.90	73.60	50.23	18.03.00	49.75	02.12.10	50.09	0:00	49.86	0:00
06-Mar	50.02	50.00	49.97	49.99	50.00	49.99	7.70	70.30	22.00	70.30	50.24	06.03.10	49.75	15.24.50	50.09	0:00	49.83	0:00
07-Mar	49.98	49.98	49.99	49.98	49.93	49.98	9.40	77.50	13.00	77.50	50.18	06.02.50	49.74	18.50.10	50.06	0:00	49.83	0:00
08-Mar	50.00	49.99	50.01	50.00	50.01	50.00	3.50	74.00	22.50	74.00	50.23	18.02.40	49.81	12.11.40	50.14	0:00	49.92	0:00
09-Mar	50.00	50.02	50.02	50.03	49.99	50.02	0.50	70.60	29.00	70.60	50.21	18.01.20	49.86	23.09.30	50.10	0:00	49.96	0:00
10-Mar	50.01	50.04	50.02	50.03	50.03	50.03	0.40	61.70	37.90	61.70	50.24	22.00.50	49.88	00.08.20	50.13	0:00	49.96	0:00
11-Mar	50.02	49.99	49.98	49.96	49.95	49.98	12.60	65.60	21.80	65.60	50.21	13.02.40	49.70	18.45.10	50.13	0:00	49.81	0:00
12-Mar	49.99	50.01	49.98	50.00	50.01	49.99	5.90	75.50	18.60	75.50	50.20	10.05.20	49.78	18.35.20	50.10	0:00	49.84	0:00
13-Mar	49.98	49.99	50.01	50.00	49.99	50.00	3.20	78.30	18.50	78.30	50.19	13.02.30	49.82	22.09.30	50.10	0:00	49.90	0:00
14-Mar	49.99	50.00	49.97	50.00	49.99	49.99	7.00	75.10	18.00	75.10	50.22	18.01.50	49.81	18.51.30	50.08	0:00	49.87	0:00
15-Mar	49.99	49.99	50.01	50.01	50.01	50.00	3.60	73.75	22.65	73.80	50.24	17.04.00	49.82	21.05.50	50.11	0:00	49.87	0:00
16-Mar	49.97	50.01	49.97	50.00	49.96	49.98	9.25	70.10	20.65	70.10	50.18	06.02.00	49.79	10.32.00	50.12	0:00	49.89	0:00
17-Mar	50.01	49.99	50.00	50.01	49.96	50.00	3.25	74.10	22.65	74.10	50.22	18.03.20	49.78	00.09.30	50.09	0:00	49.92	0:00
18-Mar	50.01	50.02	49.96	49.99	49.95	49.99	7.35	71.90	20.75	71.90	50.19	08.00.10	49.69	16.29.00	50.10	0:00	49.82	0:00
19-Mar	50.00	50.00	49.98	50.00	50.00	49.99	0.00	0.00	0.00	0.00	50.24	17.04.40	49.81	15.29.30	50.17	0:00	49.80	0:00
20-Mar	50.00	50.01	50.03	50.02	49.98	50.01	1.40	71.90	26.70	71.90	50.25	13.01.50	49.82	22.08.10	50.13	0:00	49.92	0:00
21-Mar	50.00	50.04	50.02	50.01	50.02	50.02	2.00	64.10	33.90	64.10	50.30	06.03.20	49.70	21.13.00	50.19	0:00	49.86	0:00
22-Mar	50.00	50.07	50.01	49.98	49.98	50.01	8.00	57.90	34.10	57.90	50.32	17.04.10	49.81	22.08.30	50.09	0:00	49.81	0:00
23-Mar	50.00	49.99	49.99	50.00	49.99	49.99	4.10	79.20	16.60	79.20	50.21	10.29.30	49.81	22.08.30	50.09	0:00	49.92	0:00
24-Mar	50.02	50.06	50.03	50.02	50.03	50.03	1.10	58.50	40.40	58.50	50.30	17.02.50	49.87	13.25.20	50.19	0:00	49.91	0:00
25-Mar	50.01	49.98	50.02	50.03	50.01	50.01	2.80	67.90	29.30	67.90	50.27	10.00.30	49.83	21.05.40	50.15	0:00	49.91	0:00
26-Mar	49.98	50.03	50.00	49.99	50.01	50.00	8.10	68.40	23.50	68.40	50.24	06.02.40	49.77	00.11.50	50.12	0:00	49.84	0:00
27-Mar	49.97	50.01	49.98	49.97	49.99	49.98	8.42	74.02	17.54	74.00	50.22	06.03.00	49.74	00.08.20	50.12	0:00	49.80	0:00
28-Mar	49.99	50.03	50.05	49.98	49.99	50.01	3.80	65.40	30.80	65.40	50.27	14.02.20	49.77	18.45.40	50.22	0:00	49.86	0:00
29-Mar	49.97	50.01	50.04	49.99	49.98	50.01	7.80	68.40	23.80	68.40	50.30	13.40.50	49.74	16.48.10	50.27	0:00	49.81	0:00
30-Mar	49.98	49.98	49.98	49.95	49.98	49.97	14.25	71.20	14.55	71.20	50.17	10.00.40	49.71	19.20.00	50.09	0:00	49.78	0:00
31-Mar	49.97	49.97	49.96	50.00	49.99	49.97	8.10	77.10	14.80	77.10	50.18	06.03.00	49.69	05.12.10	50.08	0:00	49.83	0:00
MAX	50.02	50.07	50.05	50.03	50.03	50.03	14.25	79.20	40.40	79.20	50.32		49.88		50.27		49.96	
MIN	49.97	49.97	49.93	49.95	49.93	49.97	0.40	57.90	13.00	57.90	50.17		49.69		50.06		49.78	
AVG	49.99	50.01	50.00	50.00	49.99	50.00	5.72	71.04	23.24	71.04	50.23		49.78		50.12		49.86	

SUMMARY:

Avg. Frequency :

50.0 Hz.

Instantaneous Frequency :

Maximum Frequency : 50.32 Hz at 17.04.10 Hrs.

Minimum Frequency : 49.69 Hz at 15.29.30 Hrs.

15 Minutes Integrated Frequency :

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

Minimum Frequency : 49.78 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	5.72	71.04	23.24

VOLTAGE ANALYSIS

MAXIMUM & MINIMUM VOLTAGES RECORDED AT IMPORTANT 400 kV S/S IN THE MONTH OF MARCH'2020

(All figs. in kV)

PGCIL	BINAGURI		MAITHON		JEERAT		BIHARSHARIFF	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	429	406	426	404	421	391	422	399

PGCIL	MUZAFFARPUR		JAMSHEDPUR		ROURKELA		JEYPORE	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	417	390	420	401	422	399	420	404

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

Mar-20

(All figs.in mtrs.)

Name of the Reservoirs	FRL	MDDL	As on last day of the		As on first day of this month & date	
			(31-03-20)	(31-03-19)		
Hirakud	192	180	190.02	187.99	190.33	01.03.20
Balimela	462	439	453.73	453.48	456.10	01.03.20
Rengali	123	109	120.48	115.45	121.44	01.03.20
Upperkolab	858	844	853.18	851.38	854.52	01.03.20
Indravati	642	625	636.11	634.45	637.61	01.03.20
Subernrekha	590	580	585.12	585.28	585.55	01.03.20

B.

CPP/IPP IMPORT by Eastern Region Constituents during

Mar-20

(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	51.79
West Bengal	61.06	26.53	0	0	0	0	0	31.73	119.31
ODISHA	0	0	40.93	289.26	4.31	8.86	0	359.43	702.79
DVC	0	0	0	0	0	0	9.15	0	9.15
TOTAL	61.06	26.53	40.93	289.26	4.31	8.86	9.15	391.15	883.04

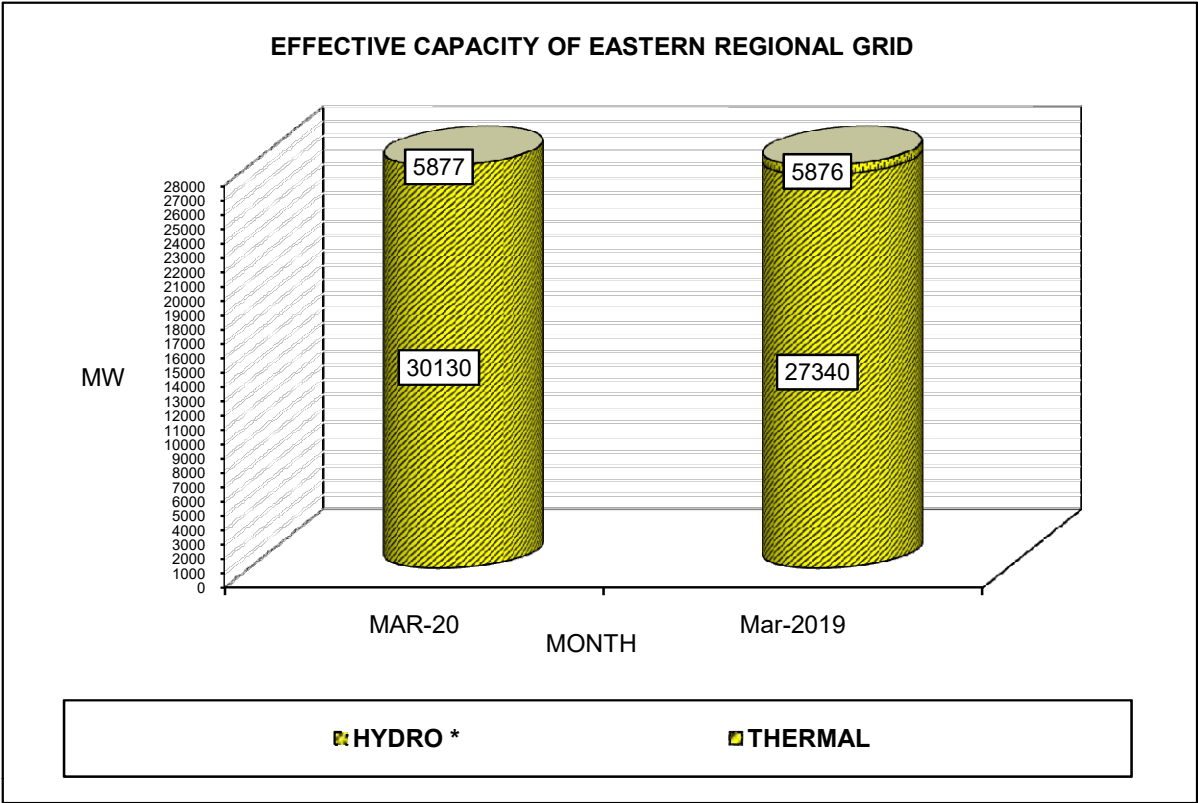
C.

Distribution of Schedule Supply among Key Customers by IPPs during

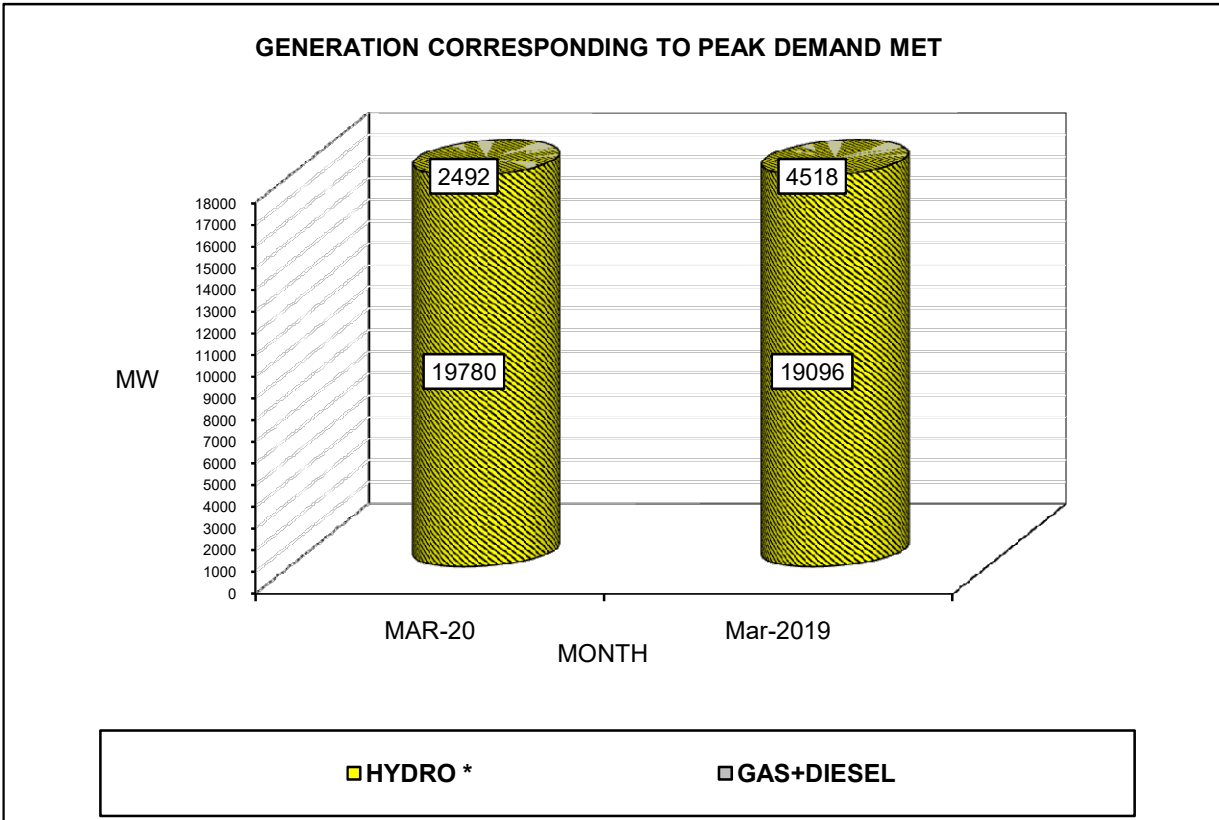
Mar-20

(All figs. are in MU)

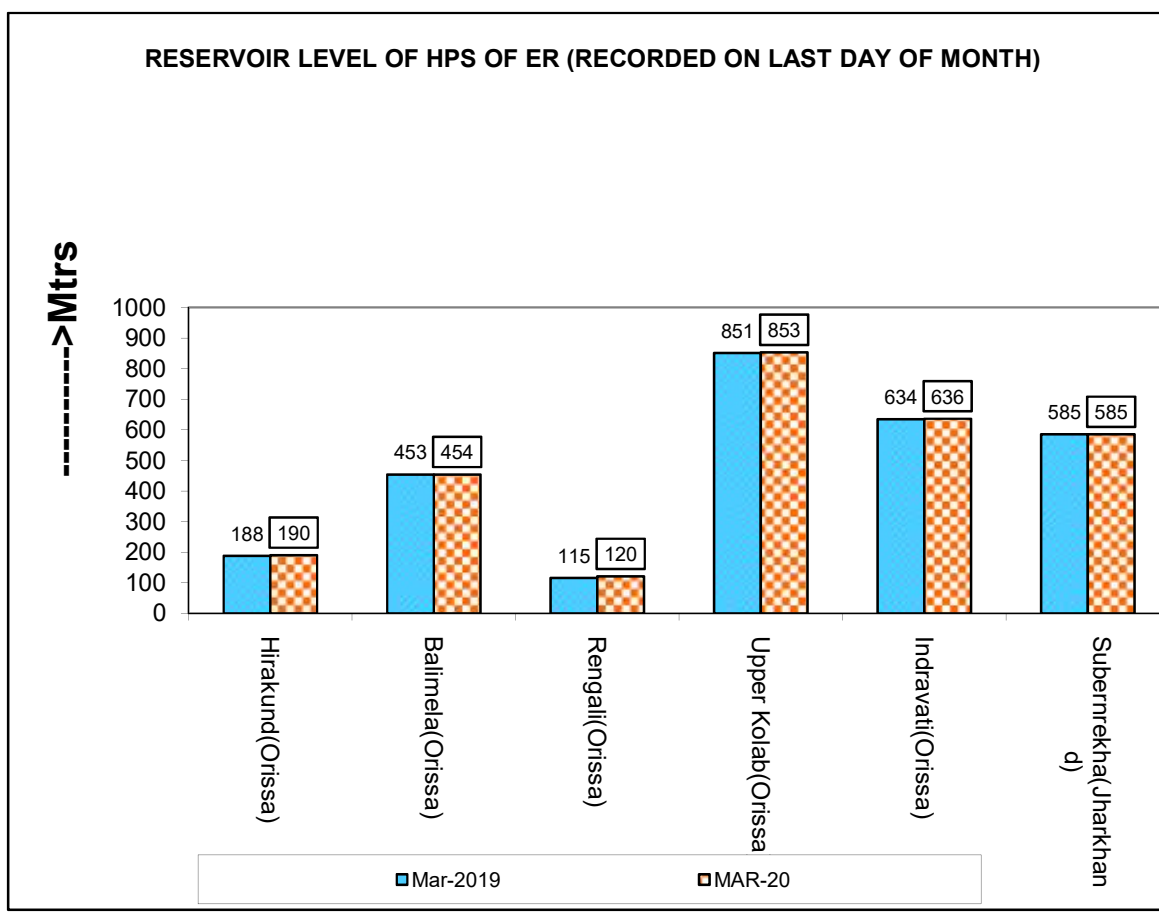
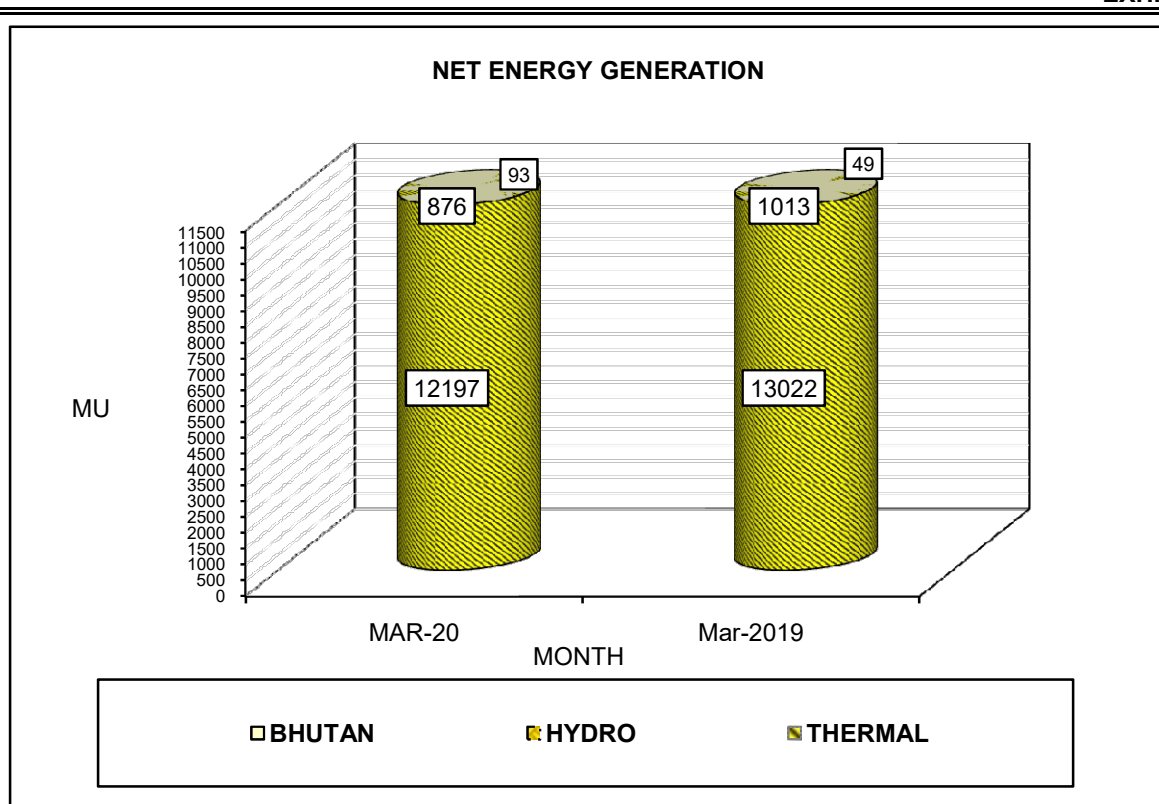
IPP	TPDDL	WBSEDCL/ WBPDCCL	DVC	Sale at IEX/NPCL	ODISHA	JSEB	CTU/Others	Total (Excl. Tr. Loss)
MPL	120.87	74.67	61.99	0.00	0	0	141.66	399.19
Sterlite	0	0	0	0	0.00	0	0.00	0.00
APNRL	0	0.00	0	0.00	0.00	0.00	0.00	0.00
Total	120.87	74.67	61.99	0.00	0.00	0.00	141.66	399.19



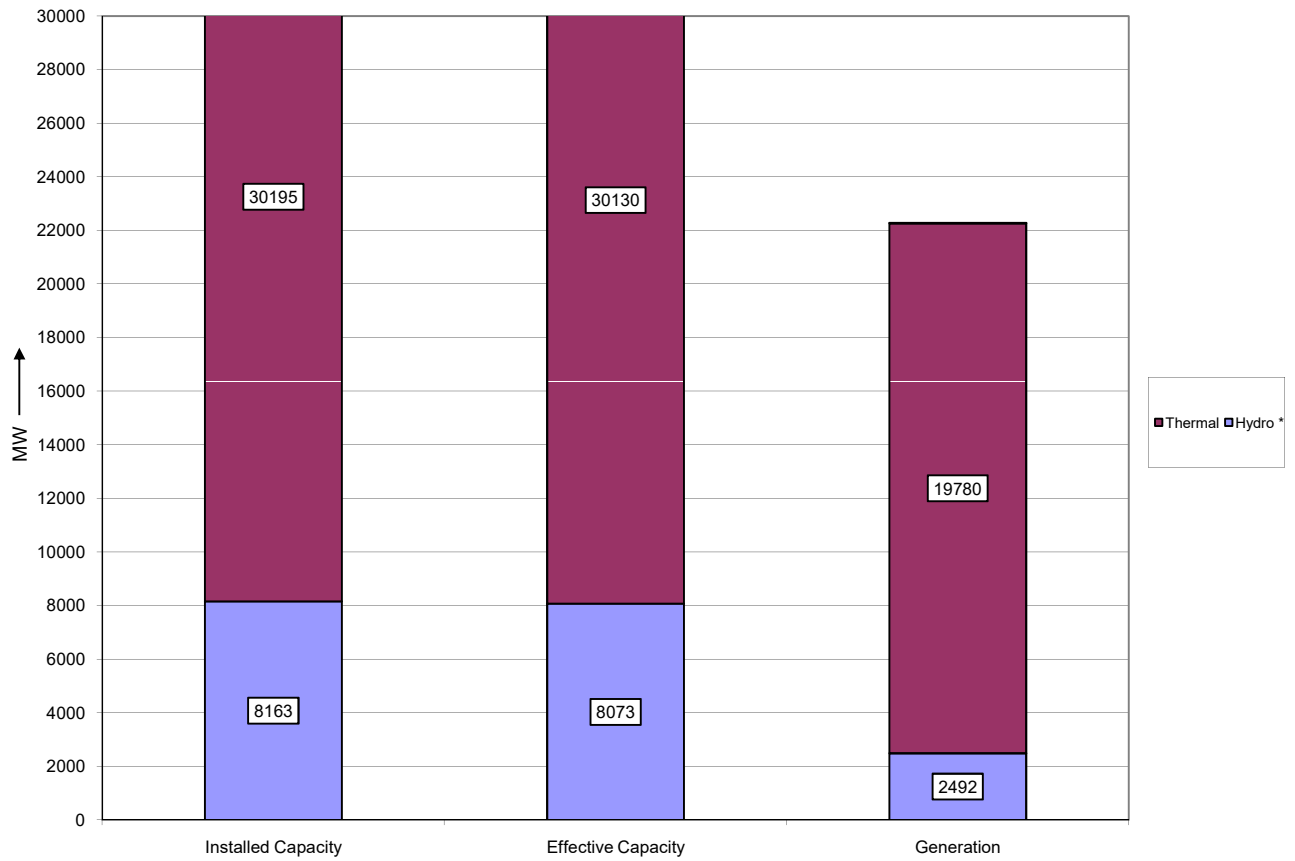
*Excludes 1350 MW contribution from HEPs of Bhutan



*Includes contribution from HEP of Bhutan

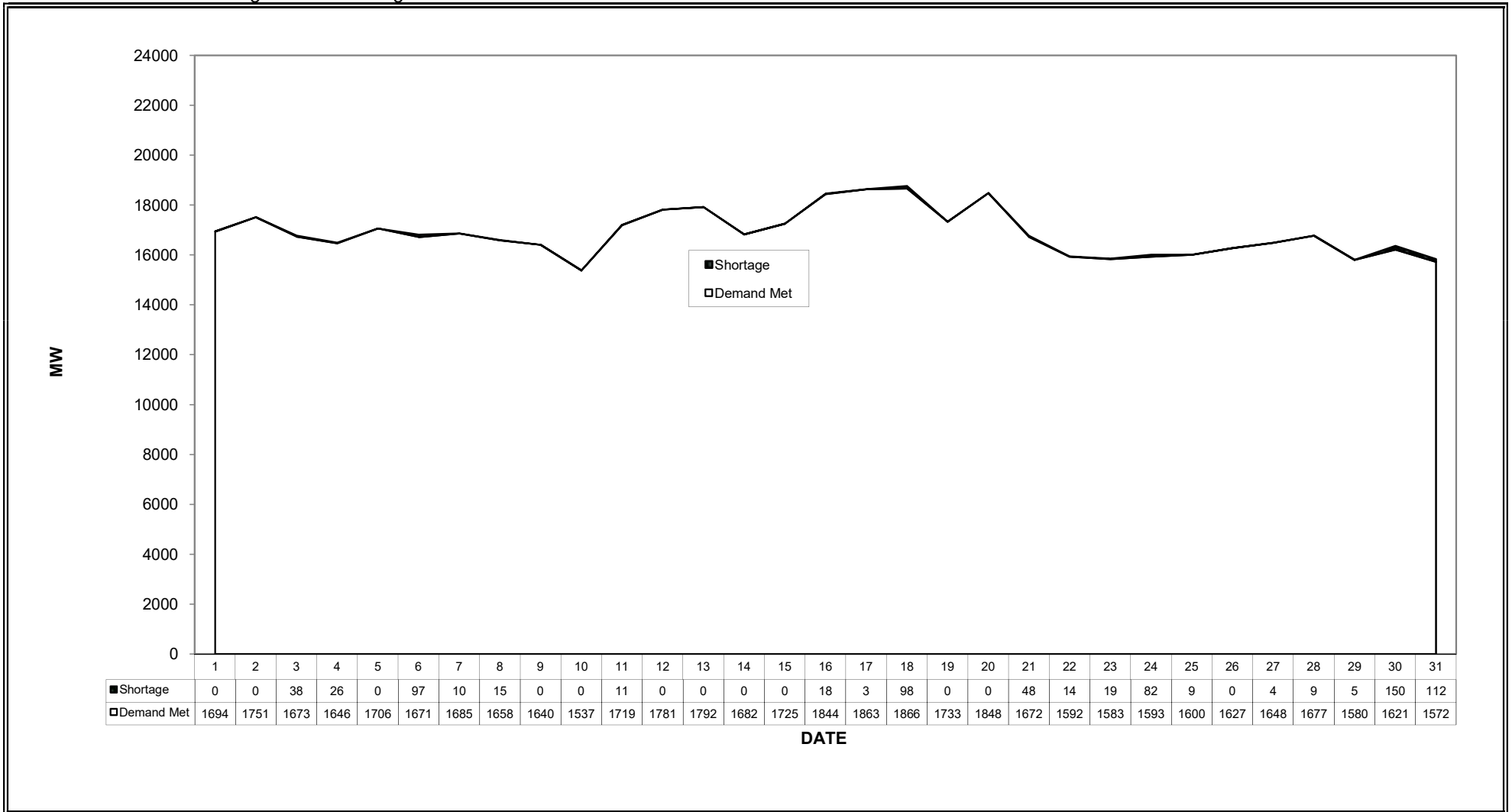


Capacity / Actual Generation Pattern of ER on Peak Day (18-3-2020) at 20.00 hrs.

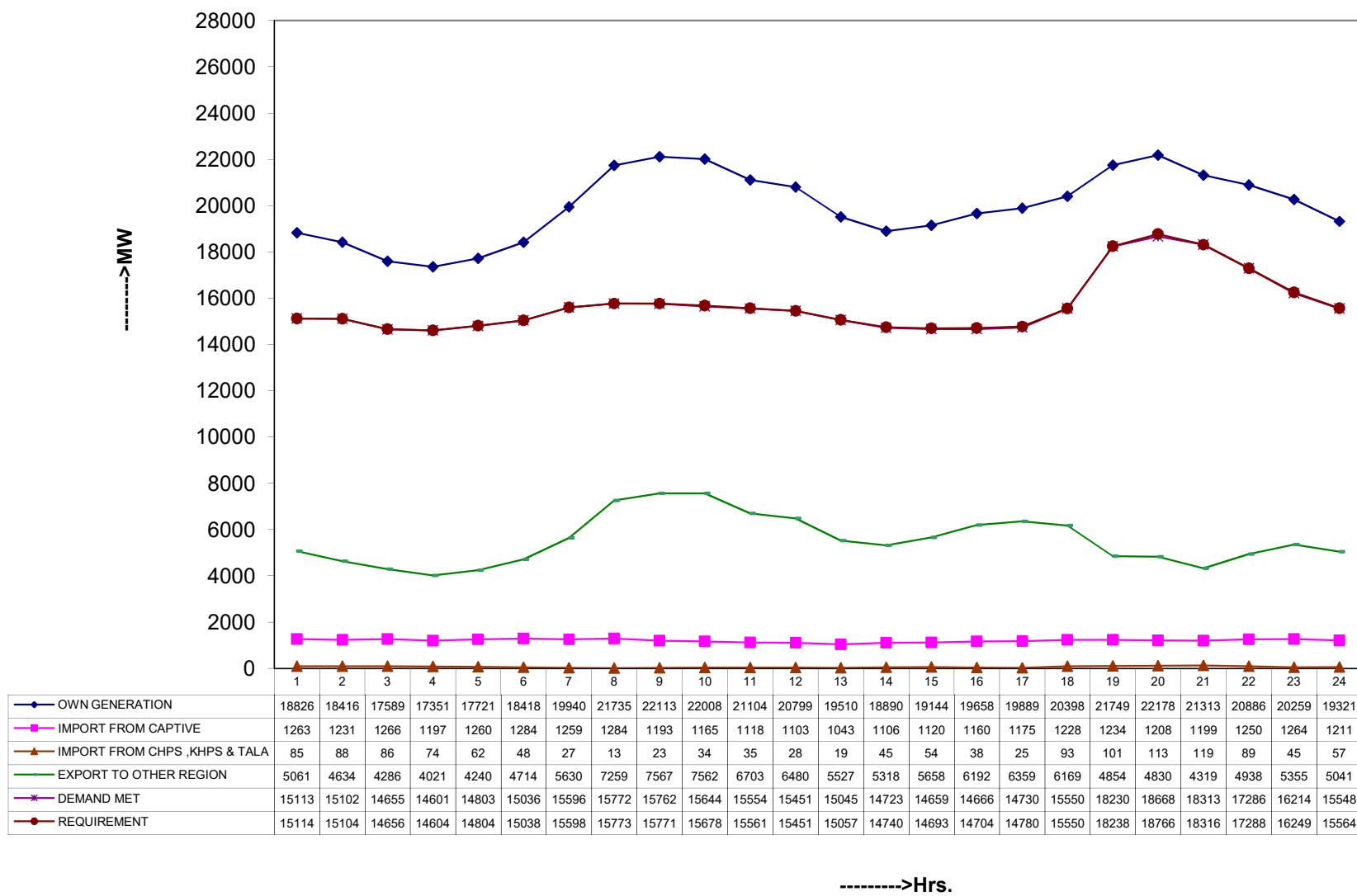


(*)--Includes contribution from HEP of Bhutan (Chukka, Kurichhu & Tala)

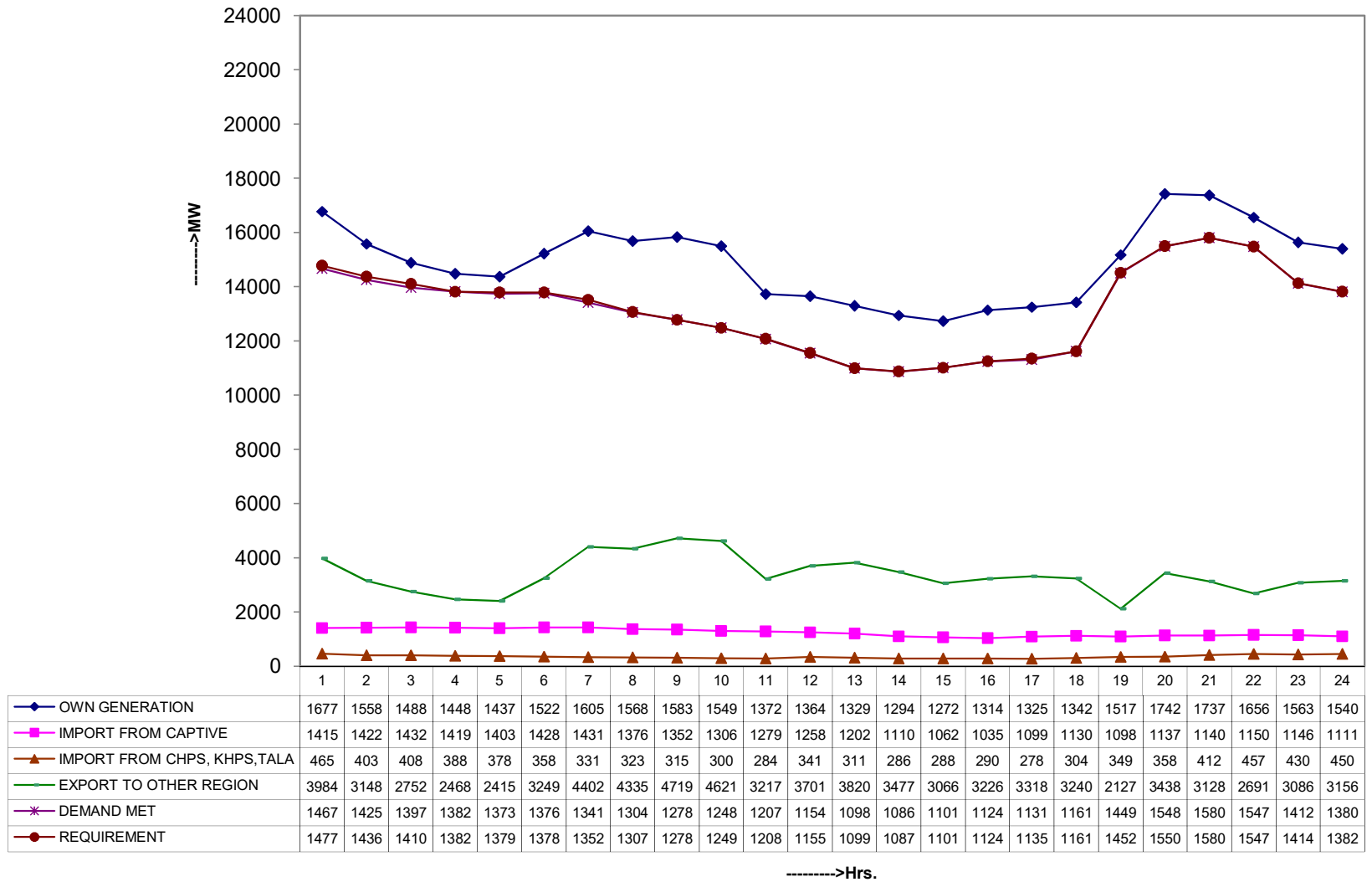
Peak Demand Met / Shortage of Eastern Region For The Month Of MARCH'2020



Hourly Load Generation Data OF ER On Regional Peak Day During The Month of MARCH'2020 (18-3-2020)

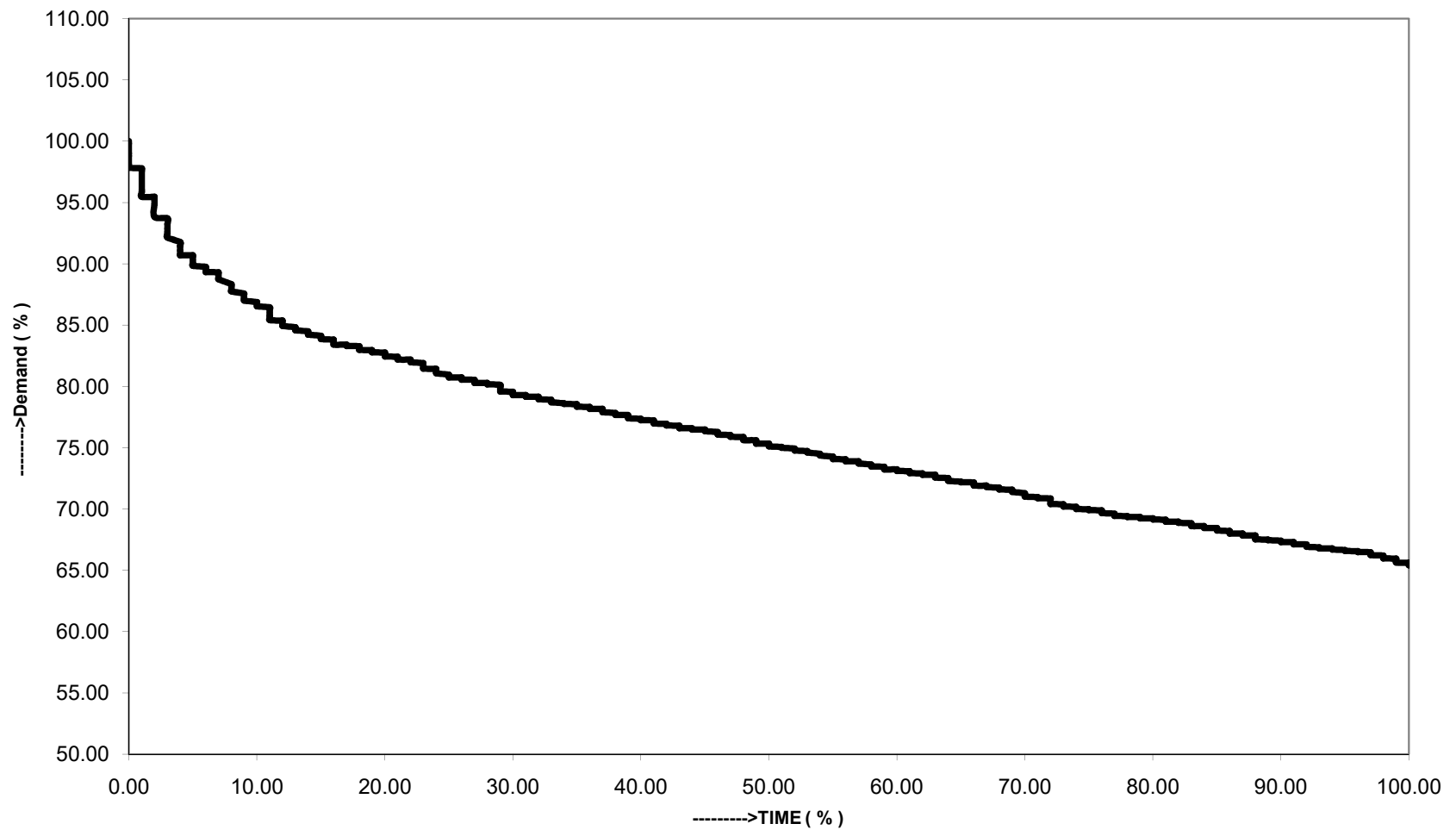


Hourly Load Generation Data of ER On Regional Lean Day During The Month of MARCH'2020 (29-3-2020)



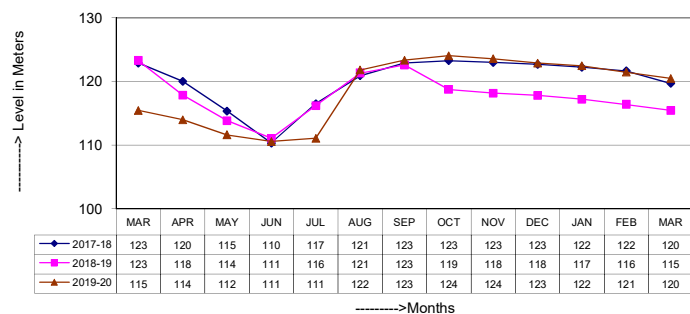
Monthly Load Duration Curve of Eastern Region for MAR-20

Maximum Demand met : 18668 MW
Minimum Demand met: 10864 MW

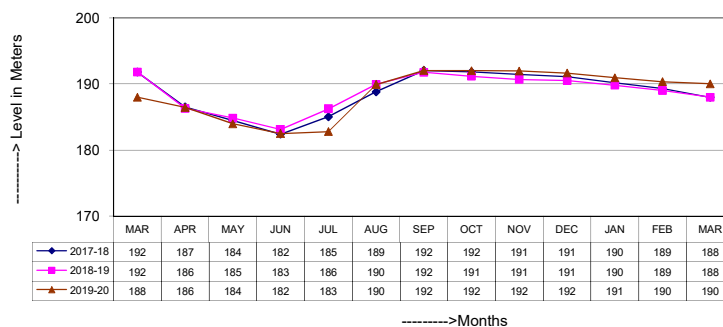


WATER LEVEL IN MAJOR RESERVOIRS ON LAST DATE OF MONTH

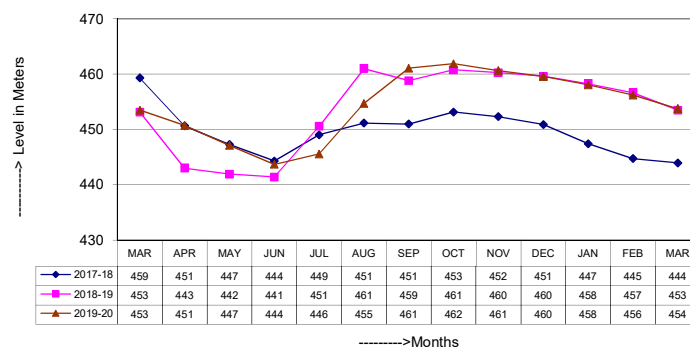
RENGALI RESERVOIR LEVEL



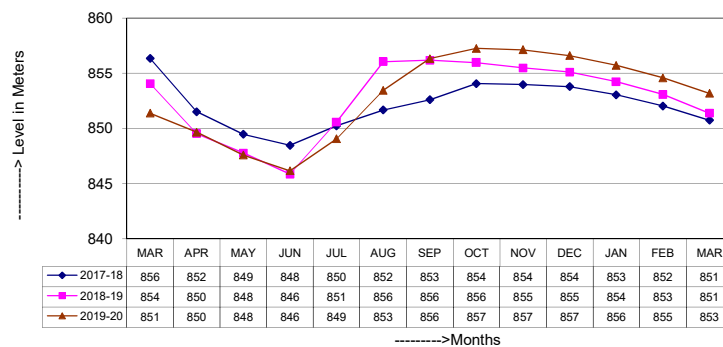
HIRAKUD RESERVOIR LEVEL



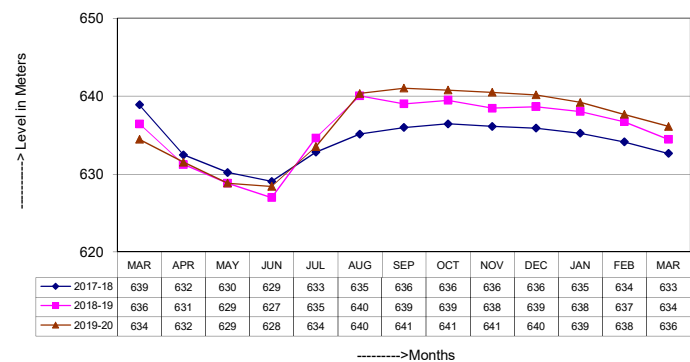
BALIMELA RESERVOIR LEVEL



UPPER KOLAB RESERVOIR LEVEL



INDRAVATI RESERVOIR LEVEL



SUBERNREKHA RESERVOIR LEVEL

