



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

जुलाई - 2020

July - 2020



14, गोल्फ क्लब रोड, टोलीगंज

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Highlights of Eastern Regional Power System for July-2020

- The **Maximum Net Demand** met of Eastern Region (ER) during the month of **July, 2020** was **22643 MW** which is 2.21% less than the **July, 2019** (23154 MW). Individual **Peak Demand (MW)** most of the constituents **increased** compared to the corresponding period of last year.
 - The **Average Net Energy Consumption** per day in ER for the month of **July, 2020** was **447.56 MU** excluding export, which is marginally less than the corresponding period of last year (450.73 MU).
 - The **Average regional PLF of thermal units during the month is 63.37%**, which is 1.27% more than the corresponding period of the last year (**62.10%**).
- CESEC (Budge-Budge) registered the highest **PLF** of 94.83%, followed by NTPC (TTPS) 93.27% and NTPC (NSTPS) 91.98% during the month of **July, 2020**.
- **Maximum Net generation** was **27853 MW** against total **Effective Capacity of 39691.26 MW** (including import from Bhutan). At the time of Regional peak (**22643 MW** on 18.07.2020 at 23.00 hrs.) the generation was 27661 MW and import from CPP was 1236 MW, Net export was 6254 MW.
 - The system frequency in the IEGC recommended band (49.9 Hz to 50.05 Hz) remained for 78.16% of time during the month. **Average frequency** for the month was **50.00 Hz**. The instantaneous maximum and the minimum frequency touched were 50.39 Hz and 49.62 Hz respectively. The integrated (Fifteen minutes time block average) maximum and minimum frequency were **50.33 Hz** and **49.74 Hz** respectively (**refer Annexure-I**).
 - The **Maximum Voltage** recorded **427 KV** at Binaguri 400 KV S/s whereas the minimum voltage recorded 385 KV at Muzzaffarpur 400 KV S/s of Power grid.
 - The **Maximum Export** from ER to outside region was **9814 MW** (including Nepal and Bangladesh) on **23rd July, 2020** at 22:00 hrs. Total net energy export during the month was **4527.44 MU** (Inc. Transmission loss) MU which corresponds to 25.81 % of ex-bus total generation 17542.08 MU of Eastern Region.
 - The import from CPPs was 859.69 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	5638	0	3023.06
WR	678	3307	-1034.13
SR	3638	299	1568.07
NER	1208	273	256.84
BANGLADESH	968		693.65
NEPAL (via-CTU)	231		19.94
Total			4527.44
NEPAL by Bihar(NBPDCL)			5.11

SALIENT FEATURES

(YEAR TO YEAR COMPARISION)

		Jul-20	JULY-2019	CHANGE	% CHANGE
1)	Effective Capacity (end of the Month)				
	THERMAL (MW)	30130	28000	2130	7.61
	HYDRO (MW)	5877	\$ 5876	1	0
	DIESEL (MW)	0	0	0	0
	RES (MW)	1489	1336	0	0
	TOTAL (MW)	37495	35212	2283	6.48
2)	Peak Demand (MW)	22735	23246	-511	-2.20
3)	Peak Demand Met (MW)	22643	23154	-511	-2.21
4)	Shortage (MW)	92	92	0	-0.20
5)	% Shortage	0.40	0.40	0.00	0.96
6)	Average Energy Requirement Per Day (MU)	448.25	451.5	-3.27	-0.72
7)	Average Energy Availability Per Day (MU)	447.56	450.7	-3.17	-0.70
8)	Average Shortage Per Day (MU)	0.70	0.79	-0.09	-11.93
9)	% Shortage	0.16	0.17	-0.01	-8.70
10)	Net Generation for the Month				
	Thermal (MU)	13086.68	12058.28	1028.40	8.53
	Hydro (MU)	4381.29	* 3524.12	857.17	24.32
	RES (MU)	74.12	50.11	0.00	-
	Total (MU)	17542.08	15632.51	1909.57	12.22
11)	Generation at the Time of Max. Regional Demand Met (18-07-20 at 23.00 Hrs.)				
	Thermal (MW)	20398	17789	2609	14.66
	Hydro (MW)	7213	* 6045	1168	19.33
	RES(MW)	50	52	-2	-3.94
	Total (MW)	27661	23886	3775	15.80
12)	Inter-Regional Energy Transfer				
	Export (MU)	5561.57	4692.15	869.42	18.53
	Import (MU)	1034.13	2177.62	-1143.49	-52.51
	Net Exp.(+)/Net Imp.(-) (MU)	4527.44	2514.53	2012.91	80.05
13)	Import From Captive(MU)	859.69	854.69	5.00	0.58
14)	Peak Inter Regional Power Transfer				
	Max Export (MW) on 23-07-20 at 22.00Hrs	9814	8780	1034	11.78
	Max Import (MW) on 21-07-20 at 03.00Hrs	3307	4655	-1348	-28.97
	Max Net Export(+)/Import (-) (MW)	9077	7211	1866	25.88
15)	Maximum voltage recorded	427	BINAGURI	400 kv	s/s
16)	Minimum voltage recorded	385	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)

POWER SUPPLY POSITION FOR THE MONTH OF JULY*2020

A) Net Average Energy Per Day

System	Demand Met (MU/Day)	Requirement (MU/Day)	Shortage (MU/Day)	% Shortage
BSPHCL	107.44	108.12	0.68	0.63
JUVNL	27.02	27.12	0.11	0.39
DVC	61.03	61.06	0.03	0.05
ODISHA	87.78	87.82	0.04	0.05
WBSEDCL	131.07	131.23	0.16	0.12
CESC	31.58	31.59	0.01	0.05
SIKKIM	1.31	1.31	0.00	0.05
REGION	447.56	448.25	0.70	0.16

B) Peak Demand in MW:

System	Demand Met (MW)	Requirement (MW)	Shortage (MW)	% Shortage
BSPHCL	5774	5913	139	2.35
JUVNL	1426	1431	5	0.37
DVC	2918	2925	7	0.25
ODISHA	4474	4480	6	0.14
WBSEDCL	6754	6782	28	0.42
CESC	1804	1804	0	0.0
SIKKIM	86	86	0	0.00
REGION	22643	22735	92	0.40

➤ **DIVERSITY FACTOR** **1.03**

➤ **Regional Peak Demand Met on 18-7-2020 at 23.00 hrs. at 49.98 Hz.**

CONSTITUENT-WISE PERFORMANCE DATA JULY-2020

SYSTEM	Gross Generation(MU)				Auxiliary power Consumption(MU)				Net Generation (MU)				Import from Captive (MU)	Exchange Net Import(+) Net Export(-)	Energy Consumption(MU)	Per Day Cons.(MU)	Net Peak Demand Met (MW)	Gross Peak Demand Met (MW)
	HYDRO	Thermal	RES (Hy+Solar)	Total	HYDRO	Thermal	Solar	Total	HYDRO	Thermal	Solar	Total						
BSPHCL	0.00	138.46	17.70	156.17	0.00	20.73	0.00	20.73	0.00	117.74	17.70	135.44	0.00	3195.12	3330.56	107.4	5774	5808
JUVNL	4.34	199.39	0.00	203.73	0.00	24.70	0.00	24.70	4.34	174.69	0.00	179.03	48.53	609.92	837.48	27.0	1426	1461
DVC	70.74	3211.82	0.00	3282.56	0.17	226.06	0.00	226.23	70.57	2985.76	0.00	3056.33	12.87	-1177.21	1891.99	61.0	2918	3263
ODISHA(OPGC+OHPC+TTPS)	745.26	1175.66	41.39	1962.31	5.53	101.94	0.00	107.47	739.73	1073.72	41.39	1854.84	689.78	176.55	2721.18	87.8	4474	4612
WBPDL+WBSEDCL+DPL	170.88	2314.02	11.98	2496.88	0.00	205.50	0.00	205.50	170.88	2108.53	11.98	2291.38	108.51	1663.22	4063.11	131.1	6754	7093
CESC	0.00	529.45	0.00	529.45	0.00	39.83	0.00	39.83	0.00	489.62	0.00	489.62	0.00	489.23	978.85	31.6	1804	1865
HEL	0.00	409.61	0.00	409.61	0.00	31.42	0.00	31.42	0.00	378.19	0.00	378.19	0.00	-378.19				
SIKKIM	0.00	0.00	2.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	2.00	0.00	38.58	40.58	1.3	86	86
NTPC	0.00	4555.79	1.04	4556.84	0.00	356.98	0.00	356.98	0.00	4198.81	1.04	4199.86	0.00	-4199.86				
MPL	0.00	538.69	0.00	538.69	0.00	34.06	0.00	34.06	0.00	504.63	0.00	504.63	0.00	-504.63				
APNRL	0.00	248.26	0.00	248.26	0.00	20.00	0.00	20.00	0.00	228.26	0.00	228.26	0.00	-228.26				
GMR	0.00	459.33	0.00	459.33	0.00	31.23	0.00	31.23	0.00	428.10	0.00	428.10	0.00	-428.10				
JITPL	0.00	425.09	0.00	425.09	0.00	26.46	0.00	26.46	0.00	398.63	0.00	398.63	0.00	-398.63				
NHPC (Inc TLDP= 161.3 MU)	560.25	0.00	0.00	560.25	0.00	0.00	0.00	0.00	560.25	0.00	0.00	560.25	0.00	-560.25	0.00			
CHUZACHEN HPS	87.82	0.00	0.00	87.82	0.00	0.00	0.00	0.00	87.82	0.00	0.00	87.82	0.00	-87.82	0.00			
DIKCHU HPS	81.75	0.00	0.00	81.75	0.00	0.00	0.00	0.00	81.75	0.00	0.00	81.75	0.00	-81.75	0.00			
JORHANG HPS	65.07	0.00	0.00	65.07	0.00	0.00	0.00	0.00	65.07	0.00	0.00	65.07	0.00	-65.07	0.00			
TASHIDING HPS	80.92	0.00	0.00	80.92	0.00	0.00	0.00	0.00	80.92	0.00	0.00	80.92	0.00	-80.92	0.00			
TEESTA-III HPS	891.79	0.00	0.00	891.79	0.00	0.00	0.00	0.00	891.79	0.00	0.00	891.79	0.00	-891.79	0.00			
CHPC(Birpara Receipt)	305.60	0.00	0.00	305.60	0.00	0.00	0.00	0.00	305.60	0.00	0.00	305.60	0.00	-305.60	0.00			
KHPS	76.32	0.00	0.00	76.32	0.00	0.00	0.00	0.00	76.32	0.00	0.00	76.32	0.00	-76.32	0.00			
THPS	627.31	0.00	0.00	627.31	0.00	0.00	0.00	0.00	627.31	0.00	0.00	627.31	0.00	-627.31	0.00			
DAGACHU HPS	87.57	0.00	0.00	87.57	0.00	0.00	0.00	0.00	87.57	0.00	0.00	87.57	0.00	-87.57	0.00			
Mangdechhu HEP	531.37	0.00	0.00	531.37	0.00	0.00	0.00	0.00	531.37	0.00	0.00	531.37	0.00	-531.37	0.00			
Total Drawal by HVDC Sahsaram,Alipurduar														10.61	10.61			
Total	4386.98	14205.59	74.12	18666.69	5.70	1118.91	0.00	1124.60	4381.29	13086.68	74.12	17542.09	859.69	-4527.43	13874.35	447.56	22643	23421

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

A) Net Average Energy

Month	2019-20					2020-21				
	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	428.71	429.56	0.85	0.20	50.00	323.3	324.2	0.93	0.29	50.00
MAY	451.15	452.79	1.64	0.36	49.99	357.93	360.37	2.45	0.68	50.00
JUNE	461.72	462.87	1.15	0.25	49.99	425.23	425.91	0.69	0.16	50.00
JULY	450.73	451.52	0.79	0.17	50.00	447.56	448.25	0.70	0.16	49.99
AUGUST	460.87	462.13	1.26	0.27	49.99	-	-	-	-	-
SEPTEMBER	445.43	446.55	1.12	0.25	50.00	-	-	-	-	-
OCTOBER	391.21	391.33	0.12	0.03	50.00	-	-	-	-	-
NOVEMBER	344.02	344.15	0.12	0.04	50.00	-	-	-	-	-
DECEMBER	338.90	339.25	0.35	0.10	49.99	-	-	-	-	-
JANUARY	349.04	349.39	0.34	0.10	49.99	-	-	-	-	-
FEBRUARY	358.72	359.75	1.03	0.29	49.99	-	-	-	-	-
MARCH	338.29	338.62	0.33	0.10	50.00	-	-	-	-	-

B) Peak in MW:

Month	2019-20					2020-21				
	Demand Met	Requirement	Shortage	Shortage	Avg. Freq.	Demand Met	Requirement	Shortage	Shortage	Avg. Freq.
	(MW)	(MW)	(MW)	(%)	(HZ)	(MW)	(MW)	(MW)	(%)	(HZ)
APRIL	22378	22415	37	0.17	50.00	18093	18302	209	1.14	50.00
MAY	22781	22830	49	0.22	49.99	20166	20306	140	0.69	50.00
JUNE	22808	22867	59	0.26	49.99	21832	21989	156	0.71	50.00
JULY	23154	23246	92	0.40	50.00	22643	22735	92	0.40	49.99
AUGUST	23398	23421	22	0.10	49.99	-	-	-	-	-
SEPTEMBER	23126	23276	150	0.64	50.00	-	-	-	-	-
OCTOBER	21706	21726	20	0.09	50.00	-	-	-	-	-
NOVEMBER	19212	19291	79	0.41	50.00	-	-	-	-	-
DECEMBER	18068	18068	0	0.00	49.99	-	-	-	-	-
JANUARY	18714	18758	44	0.24	49.99	-	-	-	-	-
FEBRUARY	18962	18968	7	0.03	49.99	-	-	-	-	-
MARCH	18670	18767	98	0.52	50.00	-	-	-	-	-

PERFORMANCE OF GENERATING STATIONS IN THE EASTERN REGION DURING THE MONTH OF JULY -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 (2020-21) in MU	Cummulative Net Energy Generation upto Current Month (2020-21) in MU
BIHAR	Thermal	Barauni (U# 6,7)	220.00	210.00	0.00	-0.32	22.93	12.20
		Barauni (U# 8)	250.00	250.00	131.72	113.81	434.37	377.90
		Muzaffarpur Stg-I	220.00	220.00	6.74	4.24	6.74	1.62
		Thermal Total	690.00	680.00	138.46	117.73	464.04	391.72
	RES		341.25	341.25	17.70	17.70	82.98	82.98
		Total BIHAR	1031.25	1021.25	156.16	135.44	547.02	474.70
JHARKHAND								
TVNL	Thermal	TVNL	420.00	420.00	199.39	174.69	782.69	685.65
JSEB	Hydro	Subarnrekha (U#1,2)	130.00	130.00	4.34	4.34	6.02	6.02
	RES		46.75	46.75	0.00	0.00	0.00	0.00
	Total	176.75	176.75	4.34	4.34	6.02	6.02	
DVC	Thermal	Bokaro-B(3)	210.00	210.00	0.00	-0.61	10.87	8.23
		Chandrapura(U7 # 8)	500.00	500.00	334.04	302.32	914.74	820.75
		Durgapur(4)	210.00	210.00	0.00	-0.65	0.00	-1.29
		Mezia(1,2,3,4,5,6)	1340.00	1340.00	566.96	507.44	1537.15	1370.85
		Mezia(U # 7,8)	1000.00	1000.00	550.72	521.59	1501.74	1414.90
		Bokaro-A(1)	500.00	500.00	309.27	292.15	952.97	896.74
		Durgapur STPS (U#1,2)	1000.00	1000.00	585.88	551.90	1796.97	1684.82
		Raghunathpur TPS (U#1,2)	1200.00	1200.00	296.84	275.54	1347.44	1259.31
		Koderma STPS (U#1,2)	1000.00	1000.00	568.10	536.08	2122.51	2002.69
	Total Thermal	6960.00	6960.00	3211.82	2985.76	10184.39	9454.63	
	Hydro	Maithon (U#1,2,3)	63.20	63.20	41.36	41.32	80.04	79.89
		Panchet (U#1,2)	80.00	80.00	28.87	28.76	61.56	61.25
		Tilaya (U#1,2)	4.00	4.00	0.51	0.5	0.51	0.5
		Hydro Total	147.20	147.20	70.74	70.57	142.10	141.60
		Total DVC	7107.20	7107.20	3282.56	3056.33	10326.50	9596.24
WEST BENGAL								
WBPDCCL	Thermal	Bandel TPS	380.00	335.00	128.73	116.34	216.31	188.38
		Santalidih TPS(U#5&6)	500.00	500.00	313.74	286.98	1045.02	955.42
		Kolaghat TPS	1260.00	1260.00	121.70	103.17	476.13	405.88
		Bakreswar TPP	1050.00	1050.00	611.12	555.07	2265.01	2060.05
		Sagardighi TPP	1600.00	1600.00	879.85	815.28	2739.87	2546.01
		DPPS (300+250 *)	550.00	550.00	258.89	231.69	853.37	767.27
		Thermal Total	5340.00	5295.00	2314.02	2108.53	7595.70	6923.00
WBSEDCL	Hydro	Jaldhaka (3x9+2x4)	35.00	35.00	20.41	20.41	67.90	67.90
		Ramam (4x12.73)	51.00	51.00	37.91	37.91	91.31	91.31
		Teesta C.F. (3x3x7.5)	67.50	67.50	0.00	0.00	0.00	0.00
		Purulia PSS (4x225)	900.00	900.00	112.56	112.56	365.16	365.16
		Total Hydro	1053.50	1053.50	170.88	170.88	524.37	524.37
		RES	527.29	527.29	11.98	11.98	44.03	44.03
➤ 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 JULY -2020

ORGANI- SATION	TYPE	POWER STATION	INSTALLED CAPACITY	EFFECTIVE CAPACITY	Gross	Net	Cummulative Gross	Cummulative Net	
					Energy	Energy	Energy Generation	Energy Generation	
					Generation	Generation	upto Current Month	upto Current Month	
			(in MW)	(in MW)	in MU	in MU	(2019-20) in MU	(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	0.27	0.24	0.27	0.24	
		Budge-Budge (3x250)	750.00	750.00	529.18	489.38	1858.11	1712.53	
		Total CESC	1125.00	1125.00	529.45	489.62	1858.39	1712.78	
HEL	Thermal	HEL	600.00	600.00	409.61	378.19	1416.28	1306.15	
		Total West Bengal	8645.79	8600.79	3435.94	3159.19	11438.76	10510.33	
ODISHA (NTPC)	Thermal	Talcher-I	250.00	240.00	167.19	148.60	672.06	597.39	
		Talcher-II	220.00	220.00	152.03	135.12	586.35	521.20	
		Total Thermal	470.00	460.00	319.22	283.72	1258.41	1118.58	
OPGC	Thermal	IB TPS	420.00	420.00	233.62	206.50	899.72	793.32	
		IB TPS U#3(660 MW)	660.00	660.00	277.97	260.42	1087.50	1018.26	
		IB TPS U#4(660 MW)	660.00	660.00	344.85	323.08	1253.98	1174.36	
OHPC	Hydro	Hirakud-I (Burla)	275.50	275.50	56.50	56.23	228.13	227.17	
		Hirakud-II (Chiplima)	72.00	72.00	36.83	36.72	114.11	112.82	
		Balimela (6x60+2x75)	510.00	510.00	200.22	200.16	658.33	656.86	
		Rengali (5x50)	250.00	250.00	106.75	106.71	354.22	352.94	
		Upper Kolab (4x80)	320.00	320.00	103.32	103.21	356.22	355.53	
		Indravati HPS (4x150)	600.00	600.00	220.43	215.48	715.60	698.38	
		Mckd.(Odisha drawal)	57.38	57.38	21.22	21.22	93.32	93.32	
		Total Hydro	2084.88	2084.88	745.26	739.73	2519.93	2497.00	
		RES	511.21	511.21	41.39	41.39	186.93	186.93	
		Total Odisha	4806.09	4796.09	1962.31	1854.84	7206.46	6788.45	
(**) SIKKIM	Hydro	RES	52.18	52.18	2.00	2.00	6.00	6.00	
NTPC		MTPS Stg-II	390.00	390.00	195.679575	174.53	717.67	640.16	
		FSTPP# I&II (3x200+2x500)	1600.00	1600.00	742.59	679.45	2570.59	2350.47	
		FSTPP (U# 6)	500.00	500.00	245.70	226.04	980.21	900.68	
		KhSTPP (4x210+3x500)	2340.00	2340.00	1232.29	1133.95	4906.62	4516.77	
		TSTPP (2x500)	1000.00	1000.00	682.22	631.11	2598.75	2402.43	
		BARH STPS II (2X660)	1320.00	1320.00	608.26	569.04	1923.52	1789.38	
		BRBCL # I,2,3(3X250 MW)	750	750	271.55	245.88	1128.59	1026.42	
		NSTPS	660.00	660.00	451.68	429.71	1618.26	1533.53	
		DSTPP	800.00	800.00	125.82	109.10	940.04	855.70	
		Total NTPC	9360.00	9360.00	4555.79	4198.81	17384.24	16015.54	
NHPC	HYDRO	Rangit (3x20)	60.00	60.00	31.27	31.27	118.10	118.10	
		Teesta (3x170)	510.00	510.00	367.68	367.68	1216.13	1216.13	
		TLDP -(4x33+4x40)	292.00	292.00	161.30	161.30	513.88	513.88	
		Total NHPC	862.00	862.00	560.25	560.25	1848.11	1848.11	
		MPL (U#1&2)	1050.00	1050.00	538.69	504.63	2095.89	1963.77	
		APNRL (U#1,2)	540.00	540.00	248.26	228.26	871.23	800.82	
		GMR (2x350)	700.00	700.00	459.33	428.10	1270.00	1180.65	
		JITPL (2X600)	1200.00	1200.00	425.09	398.63	1961.24	1836.72	
		CHUZACHEN** (2x55)	110.00	110.00	87.82	87.82	217.35	217.35	
		JORETHANG (2x48)	96.00	96.00	65.07	65.07	158.41	158.41	
		TEESTA URJA St III (6x200)	1200.00	1200.00	891.79	891.79	2703.48	2703.48	
		Tashilding (2x48.5)	97.00	97.00	80.92	80.92	175.97	175.97	
		DICKCHU (2x48)	96.00	96.00	81.75	81.75	215.42	215.42	
		TALCHER SOLAR	10.00	10.00	1.04	1.04	4.62	4.62	
		Total Thermal (E.R)	30195.00	30130.00	14205.58	13086.68	50383.70	46375.95	
		Total Hydro (E.R)	5876.58	5876.58	2758.81	2753.11	8511.16	8487.74	
		Total RES	1488.68	1488.68	74.12	74.12	324.56	324.56	
EASTERN REGIONAL			TOTAL (E.R)	37560.26	37495.26	17038.51	15913.91	59219.42	55188.25
BHUTAN	Hydro	CHPC(4x90)	360.00	270.00	305.60	305.60	853.95	853.95	
	Hydro	Kurichu (4x15)	60.00	60.00	76.32	76.32	170.73	170.73	
	Hydro	TALA (6x170)	1020.00	1020.00	627.31	627.31	1361.54	1361.54	
	Hydro	DAGACHU (2x63)	126.00	126.00	87.57	87.57	185.13	185.13	
		MANGDECHU(4x180)	720.00	720.00	531.37	531.37	1406.15	1406.15	
Grand Total			39846.26	39691.26	18666.69	17542.08	63196.92	59165.75	

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

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 upto Current Month	
			(in MW)	(in MW)	in MU	(%)	(2020-21) in MU	(%)	
BIHAR	Thermal	Barauni (U# 6,7)	220.00	210.00	0.00	0.00	22.93	3.73	
		Barauni (U# 8)	250.00	250.00	131.72	70.82	434.37	59.34	
		Muzaffarpur Stg-I	220.00	220.00	6.74	4.12	6.74	1.05	
		Thermal Total	690.00	680.00	138.46	27.37	464.04	23.31	
	RES		341.25	341.25	17.70		82.98		
		Total BIHAR		1031.25	1021.25	156.16		547.02	
JHARKHAND									
TVNL	Thermal	TVNL	420.00	420.00	199.39	63.81	782.69	63.65	
JSEB	Hydro	Subarnrekha (U#1,2)	130.00	130.00	4.34		6.02		
	RES		46.75	46.75	0.00		0.00		
	Total		176.75	176.75	4.34		6.02		
DVC	Thermal	Bokaro-B(3)	210.00	210.00	0.00	0.00	10.87	1.77	
		Chandrapura(U7 # 8)	500.00	500.00	334.04	89.80	914.74	62.48	
		Durgapur(4)	210.00	210.00	0.00	0.00	0.00	0.00	
		Mezia(1,2,3,4,5,6)	1340.00	1340.00	566.96	56.87	1537.15	39.18	
		Mezia(U # 7,8)	1000.00	1000.00	550.72	74.02	1501.74	51.29	
		Bokaro-A(1)	500.00	500.00	309.27	83.14	952.97	65.09	
		Durgapur STPS (U#1,2)	1000.00	1000.00	585.88	78.75	1796.97	61.37	
		Raghunathpur TPS (U#1,2)	1200.00	1200.00	296.84	33.25	1347.44	38.35	
		Koderma STPS (U#1,2)	1000.00	1000.00	568.10	76.36	2122.51	72.49	
	Total Thermal		6960.00	6960.00	3211.82	62.03	10184.39	49.98	
	Hydro	Maithon (U#1,2,3)	63.20	63.20	41.36		80.04		
		Panchet (U#1,2)	80.00	80.00	28.87		61.56		
		Tilaya (U#1,2)	4.00	4.00	0.51		0.51		
		Hydro Total		147.20	147.20	70.74		142.10	
		Total DVC		7107.20	7107.20	3282.56		10326.50	
WEST BENGAL									
WBPDC	Thermal	Bandel TPS	380.00	335.00	128.73	51.65	216.31	22.05	
		Santalidih TPS(U#5&6)	500.00	500.00	313.74	84.34	1045.02	71.38	
		Kolaghat TPS	1260.00	1260.00	121.70	12.98	476.13	12.91	
		Bakreswar TPP	1050.00	1050.00	611.12	78.23	2265.01	73.67	
		Sagardighi TPP	1600.00	1600.00	879.85	73.91	2739.87	58.48	
		DPPS (300+250 *)	550.00	550.00	258.89	63.27	853.37	52.99	
		Thermal Total	5340.00	5295.00	2314.02	58.74	7595.70	48.99	
WBSEDCL	Hydro	Jaldhaka (3x9+2x4)	35.00	35.00	20.41		67.90		
		Ramam (4x12.73)	51.00	51.00	37.91		91.31		
		Teesta C.F. (3x3x7.5)	67.50	67.50	0.00		0.00		
		Purulia PSS (4x225)	900.00	900.00	112.56		365.16		
		Total Hydro	1053.50	1053.50	170.88		524.37		
	RES		527.29	527.29	11.98		44.03		
	WBPDC, Bandel TPS Unit #3 & Unit #4 (IC=2X82.5 MW, EC=2X60 MW) decommissioned from 01.04.2018.								
	1. IB U#3 (660 MW) COD from 03.07.19								
	2. IB U#4 (660 MW) COD from 21.08.19								
	3. NSTPS U#1(660 MW) COD from 06.09.2019								
4. BARAUNI TPS U#1(250 MW) COD 01.03.2020									
5. DARLIPALI S TPS U#1(800 MW) COD 01.03.2020									
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 (2020-21) 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	0.27	0.27	0.27	0.07
		Budge-Budge (3x250)	750.00	750.00	529.18	94.83	1858.11	84.61
		Total CESC	1125.00	1125.00	529.45	63.26	1858.39	56.42
HEL	Thermal		600.00	600.00	409.61	91.76	1416.28	80.62
		Total West Bengal	8645.79	8600.79	3435.94		11438.76	
ODISHA	Thermal	Talcher-I	250.00	240.00	167.19	93.63	672.06	95.64
(NTPC)		Talcher-II	220.00	220.00	152.03	92.88	586.35	91.03
		Total Thermal	470.00	460.00	319.22	93.27	1258.41	93.43
OPGC	Thermal	IB TPS	420.00	420.00	233.62	74.76	899.72	73.16
		IB TPS U#3(660 MW)	660.00	660.00	277.97	60.51	1087.50	56.28
		IB TPS U#4(660 MW)	660.00	660.00	344.85	75.07	1253.98	64.89
OHPC	Hydro	Hirakud-I (Burla)	275.50	275.50	56.50		228.13	
		Hirakud-II (Chiplima)	72.00	72.00	36.83		114.11	
		Balimela (6x60+2x75)	510.00	510.00	200.22		658.33	
		Rengali (5x50)	250.00	250.00	106.75		354.22	
		Upper Kolab (4x80)	320.00	320.00	103.32		356.22	
		Indravati HPS (4x150)	600.00	600.00	220.43		715.60	
		Mckd.(Odisha drawal)	57.38	57.38	21.22		93.32	
		Total Hydro	2084.88	2084.88	745.26		2519.93	
		RES	511.21	511.21	41.39		186.93	
		Total Odisha	4806.09	4796.09	1962.31		7206.46	
(**) SIKKIM	Hydro	RES	52.18	52.18	2.00		6.00	
NTPC		MTPS Stg-II	390	390	195.67957	67.44	717.67	62.85
		FSTPP# I&II (3x200+2x500)	1600.00	1600.00	742.59	62.38	2570.59	54.87
		FSTPP (U# 6)	500.00	500.00	245.70	66.05	980.21	66.95
		KhSTPP (4x210+3x500)	2340.00	2340.00	1232.29	70.78	4906.62	71.61
		TSTPP (2x500)	1000.00	1000.00	682.22	91.70	2598.75	88.76
		BARH STPS II (2X660)	1320.00	1320.00	608.26	61.94	1923.52	49.77
		BRBCL # I,2,3(3X250 MW)	750.00	750.00	271.55	48.67	1128.59	51.39
		NSTPS	660.00	660.00	451.68	91.98	1618.26	83.74
		DSTPP	800.00	800.00	125.82	21.14	940.04	40.13
		Total NTPC	9360.00	9360.00	4555.79	65.42	17384.24	63.43
NHPC	HYDRO	Rangit (3x20)	60.00	60.00	31.27		118.10	
		Teesta (3x170)	510.00	510.00	367.68		1216.13	
		TLDP -(4x33+4x40)	292.00	292.00	161.30		513.88	
		Total NHPC	862.00	862.00	560.25		1848.11	
	Thermal	MPL (U#1&2)	1050.00	1050.00	538.69	68.96	2095.89	68.17
		APNRL (U#1,2)	540.00	540.00	248.26	61.79	871.23	55.10
		GMR (2x350)	700.00	700.00	459.33	88.20	1270.00	61.96
		JITPL (2X600)	1200.00	1200.00	425.09	47.61	1961.24	55.82
		CHUZACHEN** (2x55)	110.00	110.00	87.82		217.35	
		JORETHANG (2x48)	96.00	96.00	65.07		158.41	
		TEESTA URJA St III (6x200)	1200.00	1200.00	891.79		2703.48	
		Tashilding (2x48.5)	97.00	97.00	80.92		175.97	
		DICKCHU (2x48)	96.00	96.00	81.75		215.42	
		TALCHER SOLAR	10.00	10.00	1.04		4.62	
		Total Thermal (E.R)	30195.00	30130.00	14205.58	63.37	50383.70	57.11
EASTERN REGIONAL		Total Hydro (E.R)	5876.58	5876.58	2758.81		8511.16	
		Total RES	1488.68	1488.68	74.12		324.56	
		TOTAL (E.R)	37560.26	37495.26	17038.51		59219.42	
BHUTAN	Hydro	CHPC(4x90)	360.00	270.00	305.60		853.95	
	Hydro	Kurichu (4x15)	60.00	60.00	76.32		170.73	
	Hydro	TALA (6x170)	1020.00	1020.00	627.31		1361.54	
	Hydro	DAGACHU (2x63)	126.00	126.00	87.57		185.13	
		MANGDECHU(4x180)	720.00	720.00	531.37		1406.15	
		Grand Total	39846.26	39691.26	18666.69		63196.92	

CONTRIBUTIONS OF DIFFERENT CONSTITUENTS AT THE TIME OF REGIONAL PEAK
DURING THE MONTH OF JULY'2020 (18-7-2020)

Date 18-Jul-20
Time 23.00 Hrs.
Frequency 49.98 Hz.

(All Fig. in MW)

System/State	Installed Capacity	Effective Capacity	Hydro	Thermal	RES	Total
BSPHCL	1031	1021	0	162	0	162
JUVNL	597	597	46	250	0	296
DVC	7107	7107	124	4555	0	4679
ODISHA	4806	4796	1355	1334	50	2738
WBSEDCL	6371	6326	798	3280	0	4078
TLDP	292	292	265	0	0	265
HEL HALDIA	600	600	0	548	0	548
CESC	1125	1125	0	707	0	707
DPL	550	550	0	0	0	0
SIKKIM	52	52	0	0	0	0
NTPC	9360	9360	0	7081	0	7081
NHPC	570	570	582	0	0	582
CHUKHA	360	270	420	0	0	420
KURICHU	60	60	108	0	0	108
TALA	1020	1020	862	0	0	862
MPL	1050	1050	0	917	0	917
OPGC (660 MW)	0	0	0	0	0	0
APNRL	540	540	0	366	0	366
Kamalganga (GMR)	700	700	0	634	0	634
JITPL	1200	1200	0	564	0	564
Chuzachen	110	110	119	0	0	119
Jorethang	96	96	102	0	0	102
TEESTA URJA St III	1200	1200	1308	0	0	1308
Tashilding	97	97	110	0	0	110
DICKCHU	96	96	111	0	0	111
<u>Daghachu</u>	126	126	123	0	0	123
<u>Solar</u>	10	10	0	0	0	0
<u>Mangdechu</u>	720	720	780	0	0	780
<u>Total</u>	39846	39691	7213	20398	50	27661
Import From Captive:						1236
Export To:						
NER						664
SR						1957
WR						-1983
NR						4666
Bangladesh						944
Nepal						7
Total						6254

➤ I Net Peak Demand Met (MW) :

22643

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

Hourly Load Generation Data OF ER On Regional Peak Day During The Month of JULY'2020 (18-7-2020)

(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	4543	20300	24843	891	2305	6805	21234	35	174	21443
2	4234	20185	24419	805	2306	6534	20996	4	112	21112
3	4006	20150	24156	804	2311	6688	20583	22	112	20716
4	3830	20077	23907	835	2296	6887	20151	42	112	20306
5	3928	20044	23972	867	2287	7050	20076	33	112	20222
6	3879	19768	23648	1081	2276	7798	19207	34	112	19353
7	3890	19818	23709	1004	2269	8310	18671	3	125	18799
8	3839	19701	23541	1017	2259	8229	18588	-10	0	18588
9	4047	19018	23065	953	2261	7484	18795	2	2	18798
10	3785	18811	22596	898	2263	6810	18947	-15	0	18947
11	3646	18424	22070	866	2258	6087	19106	10	1	19117
12	3780	18085	21865	857	2255	6091	18885	13	0	18899
13	4060	17645	21706	880	2261	5985	18862	23	0	18885
14	4037	17800	21836	929	2268	5974	19060	40	0	19100
15	4130	18288	22418	935	2280	6235	19398	49	0	19447
16	4273	18669	22942	1068	2282	6740	19552	31	0	19583
17	4207	18810	23018	1156	2283	7215	19241	-8	2	19243
18	4083	18724	22807	1185	2278	7132	19137	-13	3	19140
19	3909	18980	22889	1215	2245	6560	19789	24	67	19881
20	4958	20345	25303	1171	2237	6090	22619	83	3	22705
21	5117	20409	25526	1210	2260	6563	22433	31	188	22653
22	5071	20446	25517	1215	2279	6535	22476	31	82	22589
23	4970	20398	25367	1236	2293	6254	22643	20	72	22735
24	4852	20321	25173	1235	2295	6172	22532	26	34	22591

Hourly Load Generation Data of ER On Regional Lean Day During The Month of JULY'2020 (23-7-2020)

(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	3395	18313	21709	1535	2285	6029	19500	-24	14	19514
2	3211	17616	20827	1520	2288	5687	18948	0	15	18964
3	3056	17047	20103	1455	2295	5800	18052	3	9	18065
4	2910	16816	19726	1466	2295	5954	17535	-2	12	17545
5	2908	16432	19340	1474	2292	6188	16917	0	16	16933
6	2972	16338	19310	1506	2273	6876	16213	16	15	16244
7	3042	16211	19253	1408	2244	7091	15813	-6	13	15821
8	3144	16473	19617	1312	2240	7186	15984	-11	12	15985
9	3047	16597	19643	1295	2243	7150	16030	25	3	16059
10	3058	16547	19605	1211	2066	7036	15845	49	4	15897
11	3014	16668	19682	1154	2066	7131	15772	10	10	15792
12	3042	16672	19714	1156	2060	7088	15841	11	9	15861
13	3049	16441	19489	1230	2057	6925	15850	7	1	15858
14	3098	16381	19479	1163	2045	6744	15942	-7	1	15943
15	3203	16355	19559	1159	2059	7011	15765	8	0	15774
16	3281	16329	19610	1163	2077	7227	15623	5	0	15629
17	3259	16289	19549	1350	2164	7489	15574	-5	0	15574
18	3115	16227	19342	1464	2238	7271	15772	6	0	15778
19	3442	17341	20783	1528	2208	6948	17572	23	0	17595
20	4542	19433	23975	1571	2222	7544	20225	12	43	20280
21	4449	19561	24010	1542	2250	7839	19963	2	54	20019
22	4657	19450	24107	1417	2271	7850	19944	49	54	20048
23	4413	19254	23667	1566	2279	7864	19649	10	54	19713
24	4136	18954	23090	1487	2278	7727	19128	0	54	19182

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

FOR THE MONTH OF JULY'2020

POWER CUT / RESTRICTIONS

BSPHCL	NO NOTIFIED CUTS/RESTRICTIONS However there was loadshedding of 19.676 MU
JUVNL	NO NOTIFIED CUTS/RESTRICTIONS However there was loadshedding of 2.884 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 3.173 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

Jul-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-Jul	49.93	50.01	49.99	49.98	49.95	49.98	8.30	79.80	11.90	79.80	50.14	08.01.50	49.79	01.08.00	50.09	0:00	49.86	0:00
02-Jul	50.00	50.00	49.97	49.97	49.95	49.98	6.30	83.50	10.20	83.50	50.13	07.01.10	49.77	12.16.40	50.06	0:00	49.87	0:00
03-Jul	49.97	49.98	50.00	49.98	49.94	49.98	7.30	81.80	10.90	81.80	50.14	06.02.00	49.78	22.10.00	50.08	0:00	49.89	0:00
04-Jul	50.00	49.98	50.00	50.02	50.06	50.01	3.40	71.50	25.10	71.50	50.15	21.32.30	49.80	06.14.20	50.10	0:00	49.88	0:00
05-Jul	50.13	50.10	49.99	50.02	49.99	50.05	2.60	46.90	50.50	46.90	50.39	03:44:30	49.81	19:25:10	50.33	0:00	49.92	0:00
06-Jul	50.04	49.97	50.00	49.97	50.00	49.99	5.00	73.30	21.70	73.30	50.13	02:53:50	49.82	07:13:20	50.10	0:00	49.89	0:00
07-Jul	49.97	49.99	50.02	49.98	49.96	49.99	5.00	80.80	14.20	80.80	50.21	13:01:30	49.80	22:12:30	50.13	0:00	49.86	0:00
08-Jul	49.98	49.98	50.01	49.94	49.94	49.98	9.70	76.90	13.40	76.90	50.16	13:01:10	49.76	22:12:00	50.10	0:00	49.84	0:00
09-Jul	50.00	49.97	50.01	49.98	50.00	49.99	3.30	81.20	15.50	81.20	50.14	06:01:40	49.77	09:14:40	50.06	0:00	49.89	0:00
10-Jul	50.00	49.99	50.01	50.00	50.04	50.00	1.70	78.70	19.70	78.70	50.17	13:02:10	49.83	16:50:00	50.11	0:00	49.89	0:00
11-Jul	50.01	50.02	50.01	49.99	50.03	50.01	2.90	70.50	26.60	70.50	50.20	13:03:40	49.84	16:47:10	50.13	0:00	49.90	0:00
12-Jul	50.07	50.09	50.00	49.97	49.98	50.02	4.20	62.00	33.80	62.00	50.31	08:08:00	49.79	13:41:10	50.28	0:00	49.89	0:00
13-Jul	49.98	49.92	49.96	49.93	49.95	49.95	18.60	75.90	5.50	75.90	50.15	13:02:20	49.69	07:10:20	50.07	0:00	49.76	0:00
14-Jul	49.95	49.94	49.95	49.92	49.87	49.94	25.64	70.64	3.72	70.64	50.12	10:03:00	49.62	22:08:30	50.04	0:00	49.74	0:00
15-Jul	49.91	49.96	49.96	49.98	50.01	49.96	15.12	76.54	8.34	76.54	50.17	06:02:40	49.73	00:09:30	50.08	0:00	49.76	0:00
16-Jul	49.99	49.98	49.99	49.95	49.96	49.98	10.50	76.60	12.90	76.60	50.17	16:02:40	49.69	19:37:00	50.07	0:00	49.80	0:00
17-Jul	49.97	49.99	50.01	49.94	49.98	49.98	7.20	80.50	12.30	80.50	50.19	16:05:40	49.78	20:21:30	50.11	0:00	49.77	0:00
18-Jul	49.96	50.00	49.97	49.96	49.97	49.97	8.60	84.10	7.30	84.10	50.11	06:02:20	49.88	19:22:30	50.07	0:00	49.82	0:00
19-Jul	49.99	50.02	50.02	50.00	50.02	50.01	0.50	77.60	21.90	77.60	50.16	13:03:00	49.80	00:11:10	50.12	0:00	49.93	0:00
20-Jul	50.00	49.99	49.99	50.01	50.01	50.00	3.70	74.50	21.80	74.50	50.16	05:05:40	49.75	16:46:10	50.09	0:00	49.89	0:00
21-Jul	50.00	49.99	50.00	49.95	49.98	49.99	5.60	81.20	13.20	81.20	50.19	13:07:10	49.85	22:12:10	50.07	0:00	49.86	0:00
22-Jul	49.99	49.97	50.00	49.98	50.02	49.99	1.44	87.84	10.73	87.84	50.14	13:03:30	49.83	18:43:10	50.06	0:00	49.94	0:00
23-Jul	50.01	49.97	49.99	49.97	49.99	49.99	4.60	84.40	11.00	84.40	50.12	19:02:50	49.83	21:18:30	50.06	0:00	49.88	0:00
24-Jul	49.99	49.98	50.01	49.98	50.00	49.99	3.20	84.60	12.20	84.60	50.17	13:00:50	49.84	16:23:40	50.11	0:00	49.88	0:00
25-Jul	49.98	49.99	49.99	49.96	49.99	49.98	6.30	85.20	8.50	85.20	50.13	06:32:20	49.77	15:41:40	50.07	0:00	49.87	0:00
26-Jul	49.97	50.02	50.00	49.95	49.98	49.99	6.00	80.60	13.30	80.60	50.23	16:04:20	49.81	19:24:10	50.14	0:00	49.88	0:00
27-Jul	49.96	49.96	49.99	49.98	49.96	49.97	6.90	84.20	8.80	84.20	50.17	18:01:50	49.78	07:11:00	50.08	0:00	49.86	0:00
28-Jul	49.98	49.93	49.99	49.97	50.02	49.97	9.40	81.80	8.80	81.80	50.13	19:03:20	49.74	18:21:00	50.08	0:00	49.80	0:00
29-Jul	50.00	50.00	49.99	49.99	49.99	49.99	2.20	83.10	14.70	83.10	50.14	19:03:00	49.84	18:42:40	50.08	0:00	49.91	0:00
30-Jul	50.00	50.00	50.00	49.98	49.98	49.99	5.10	79.10	15.80	79.10	50.18	11:17:00	49.70	19:25:20	50.12	0:00	49.79	0:00
31-Jul	50.00	49.99	49.95	49.96	49.95	49.97	7.60	87.60	4.80	87.60	50.13	16:04:00	49.76	09:12:00	50.06	0:00	49.84	0:00
MAX	50.13	50.10	50.02	50.02	50.06	50.05	25.64	87.84	50.50	87.84	50.39		49.88		50.33		49.94	
MIN	49.91	49.92	49.95	49.92	49.87	49.94	0.50	46.90	3.72	46.90	50.11		49.62		50.04		49.74	
AVG	49.99	49.99	49.99	49.97	49.98	49.99	6.71	78.16	15.13	78.16	50.17		49.78		50.10		49.86	

SUMMARY:

Avg. Frequency :

50.0 Hz.

Instantaneous Frequency :

Maximum Frequency : 50.39 Hz at 03:44 Hrs.

Minimum Frequency : 49.62 Hz at 22:08 Hrs.

15 Minutes Integrated Frequency :

Maximum Frequency : 50.33 Hz On 00/01/00 at 00:00 Hrs.

Minimum Frequency : 49.74 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	6.71	78.16	15.13

VOLTAGE ANALYSIS

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

(All figs. in kV)

PGCIL	BINAGURI		MAITHON		JEERAT		BIHARSHARIFF	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	427	407	420	403	419	386	420	397

PGCIL	MUZAFFARPUR		JAMSHEDPUR		ROURKELA		JEYPORE	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	424	385	417	401	415	405	422	403

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

Jul-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	
			(31-07-20)	(31-07-19)		
Hirakud	192	180	184.58	182.79	184.68	01.07.20
Balimela	462	439	444.89	445.56	445.47	01.07.20
Rengali	123	109	113.66	111.09	112.56	01.07.20
Upperkolab	858	844	847.73	849.06	848.84	01.07.20
Indravati	642	625	630.80	633.50	631.82	01.07.20
Subernrekha	590	580	587.14	585.09	585.00	01.07.20

B.

CPP/IPP IMPORT by Eastern Region Constituents during

Jul-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	48.53
West Bengal	50.97	26.63	0	0	0	0	0	30.90	108.51
ODISHA	0	0	40.55	359.36	4.17	13.82	0	271.88	689.78
DVC	0	0	0	0	0	0	12.87	0	12.87
TOTAL	50.97	26.63	40.55	359.36	4.17	13.82	12.87	302.78	859.69

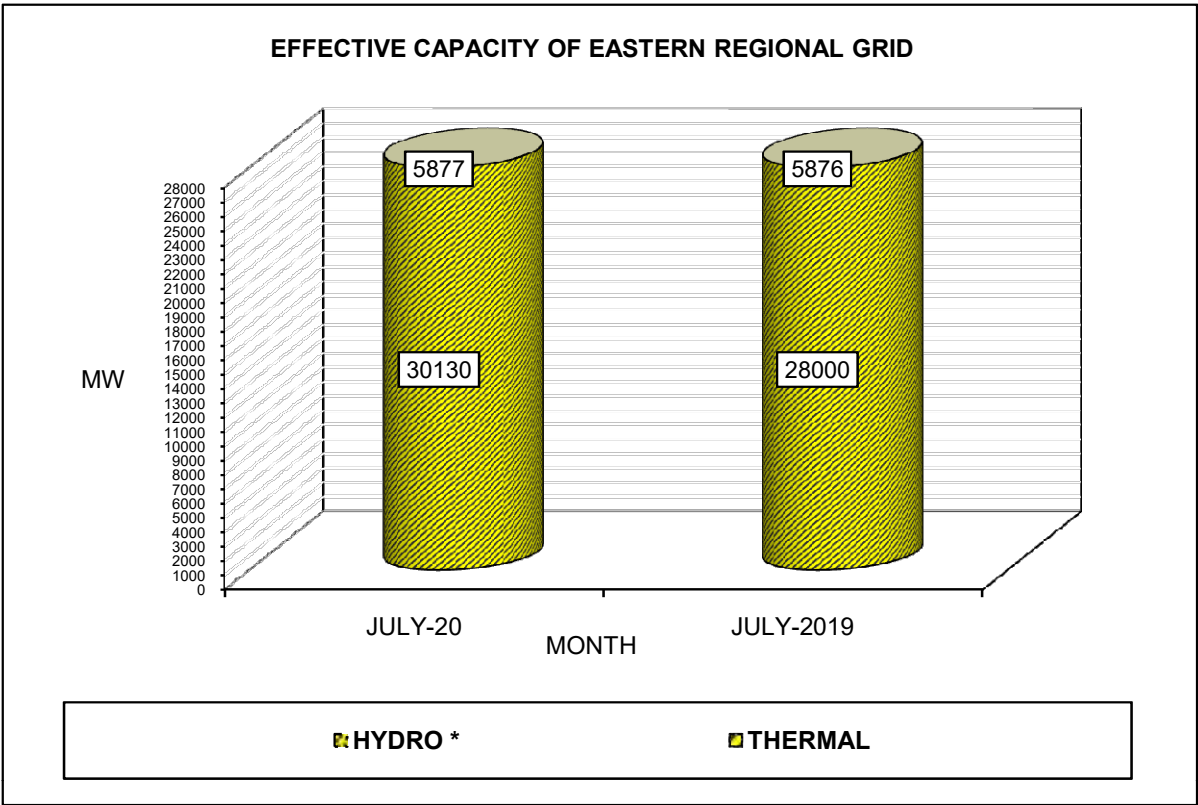
C.

Distribution of Schedule Supply among Key Customers by IPPs during

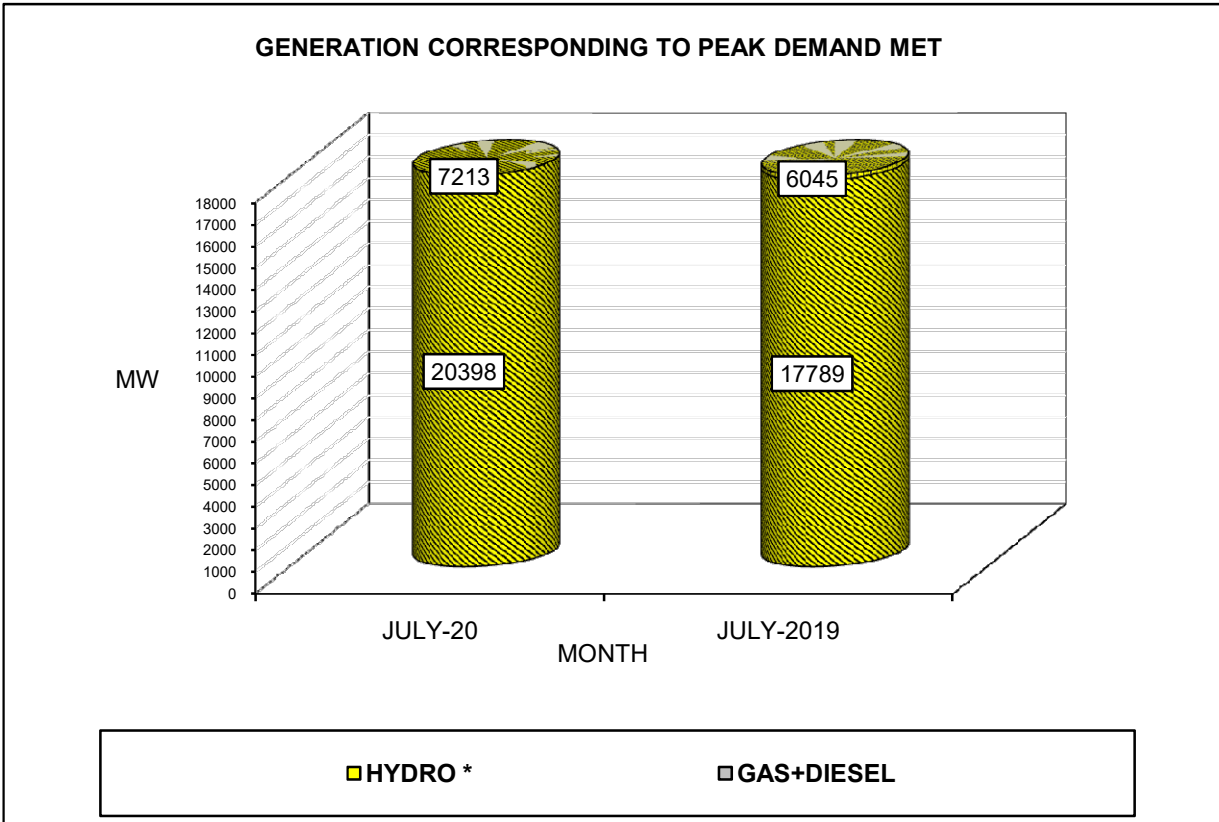
Jul-20

(All figs. are in MU)

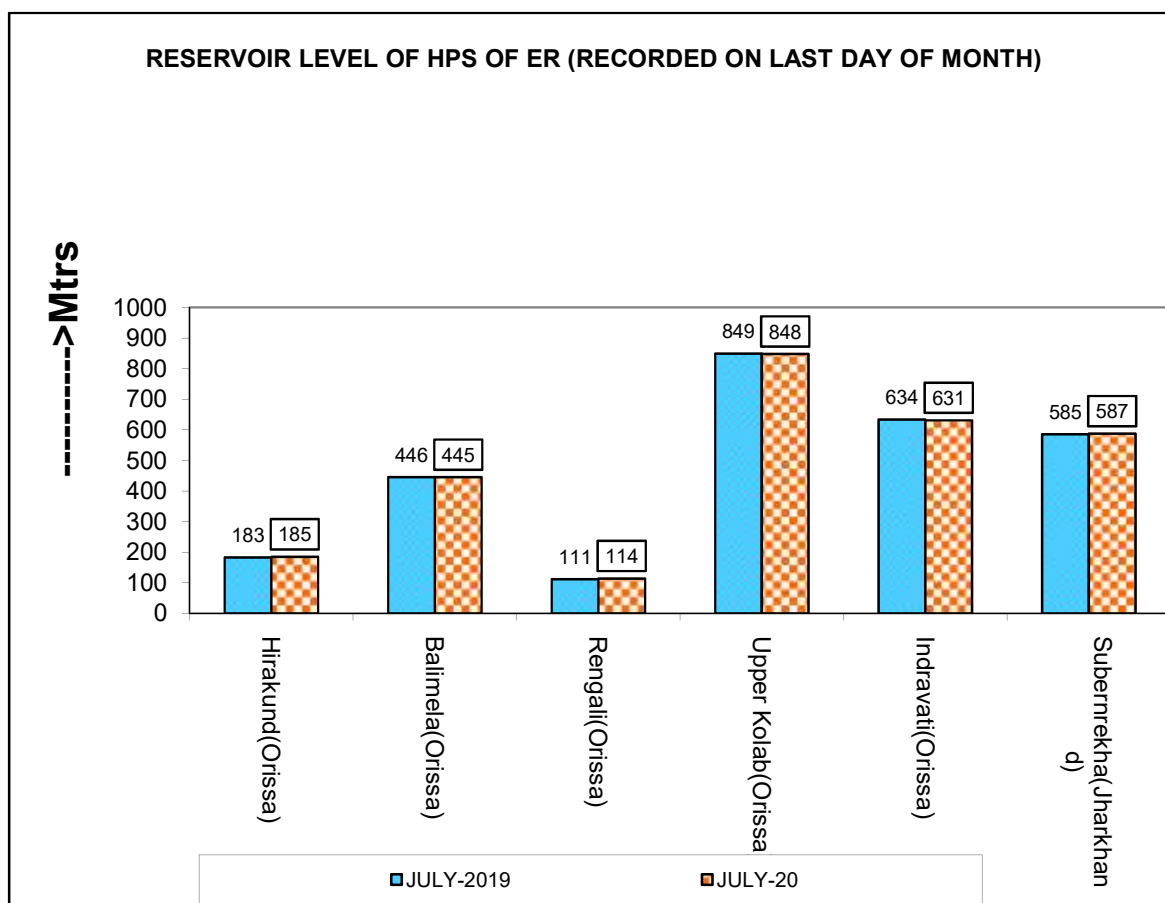
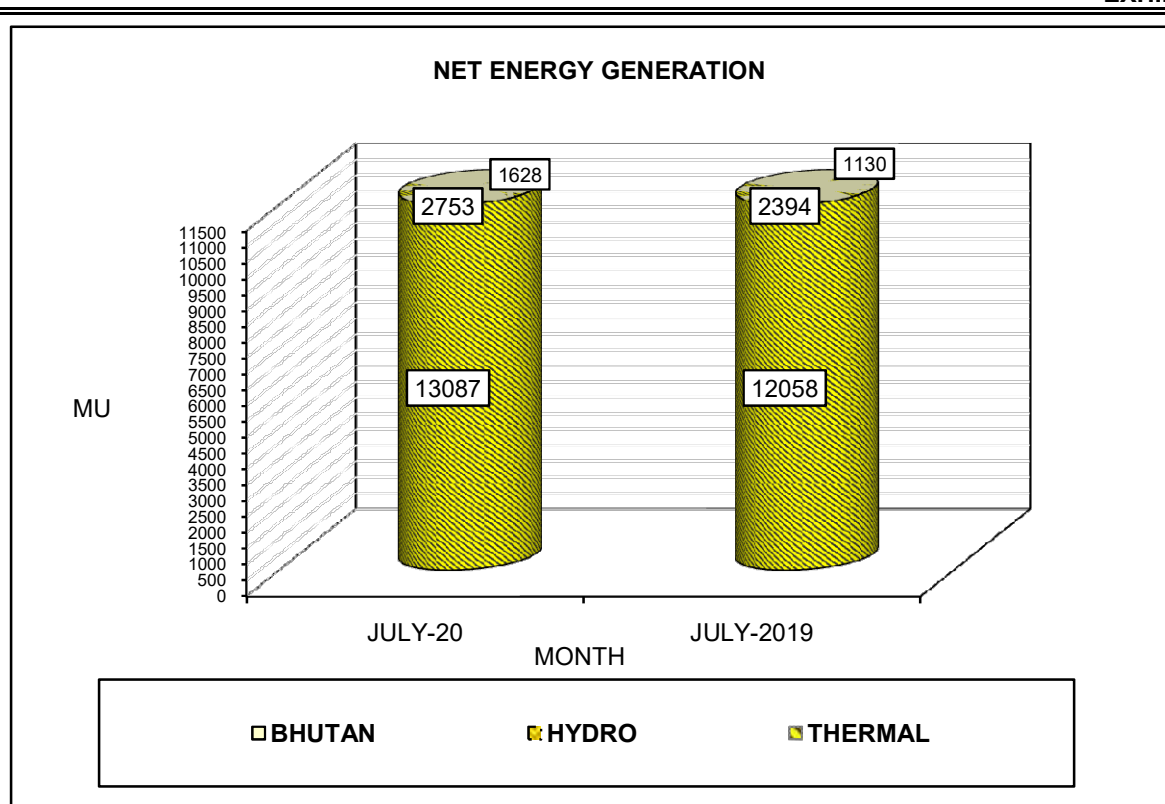
IPP	TPDDL	WBSEDCL/ WBPDCCL	DVC	Sale at IEX/NPCL	ODISHA	JSEB	CTU/Others	Total (Excl. Tr. Loss)
MPL	166.98	123.34	13.04	0.00	0	0	199.69	503.05
Sterlite	0	0	0	0	0.00	0	0.00	0.00
APNRL	0	45.00	0	0.00	0.00	118.00	67.00	230.00
Total	166.98	168.34	13.04	0.00	0.00	118.00	266.69	733.05



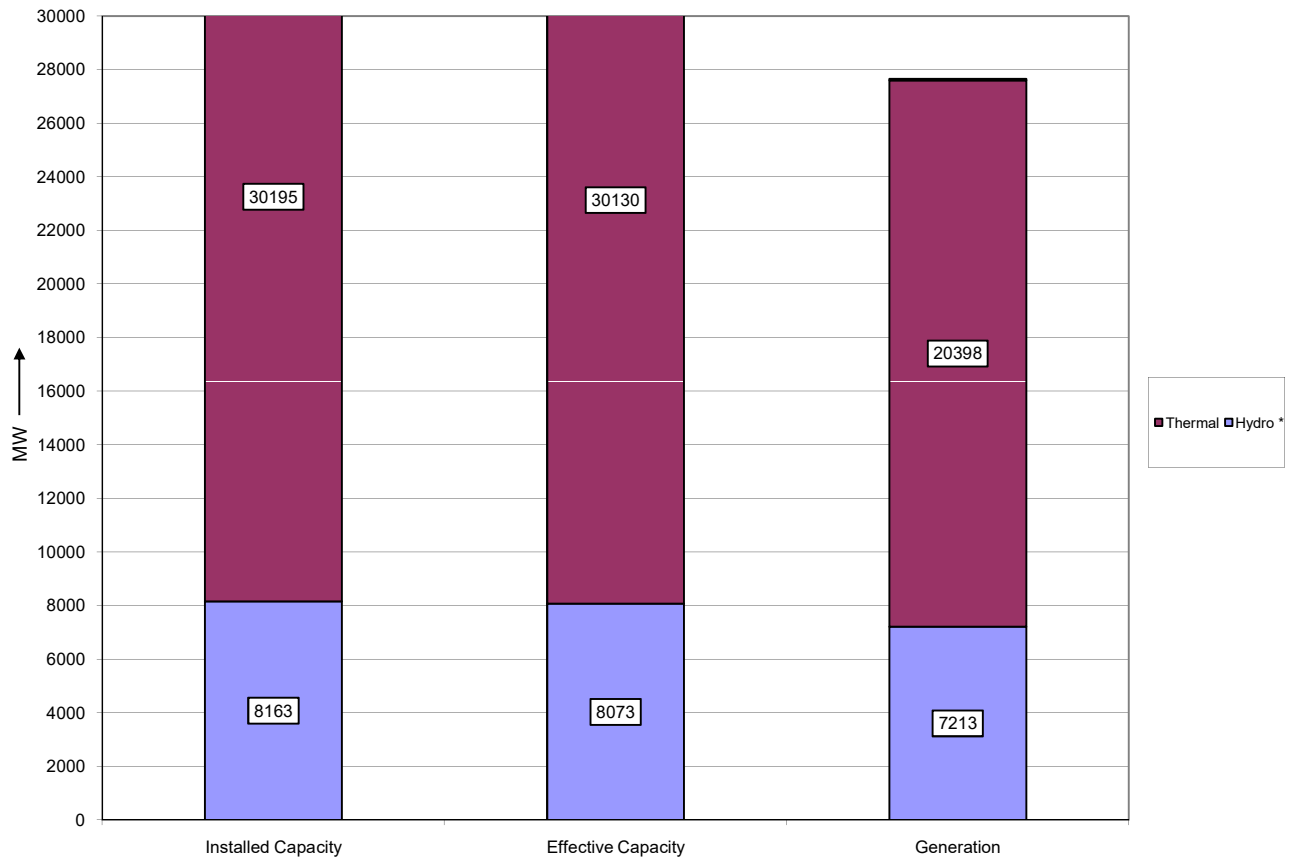
*Excludes contribution from HEPs of Bhutan



*Includes contribution from HEP of Bhutan

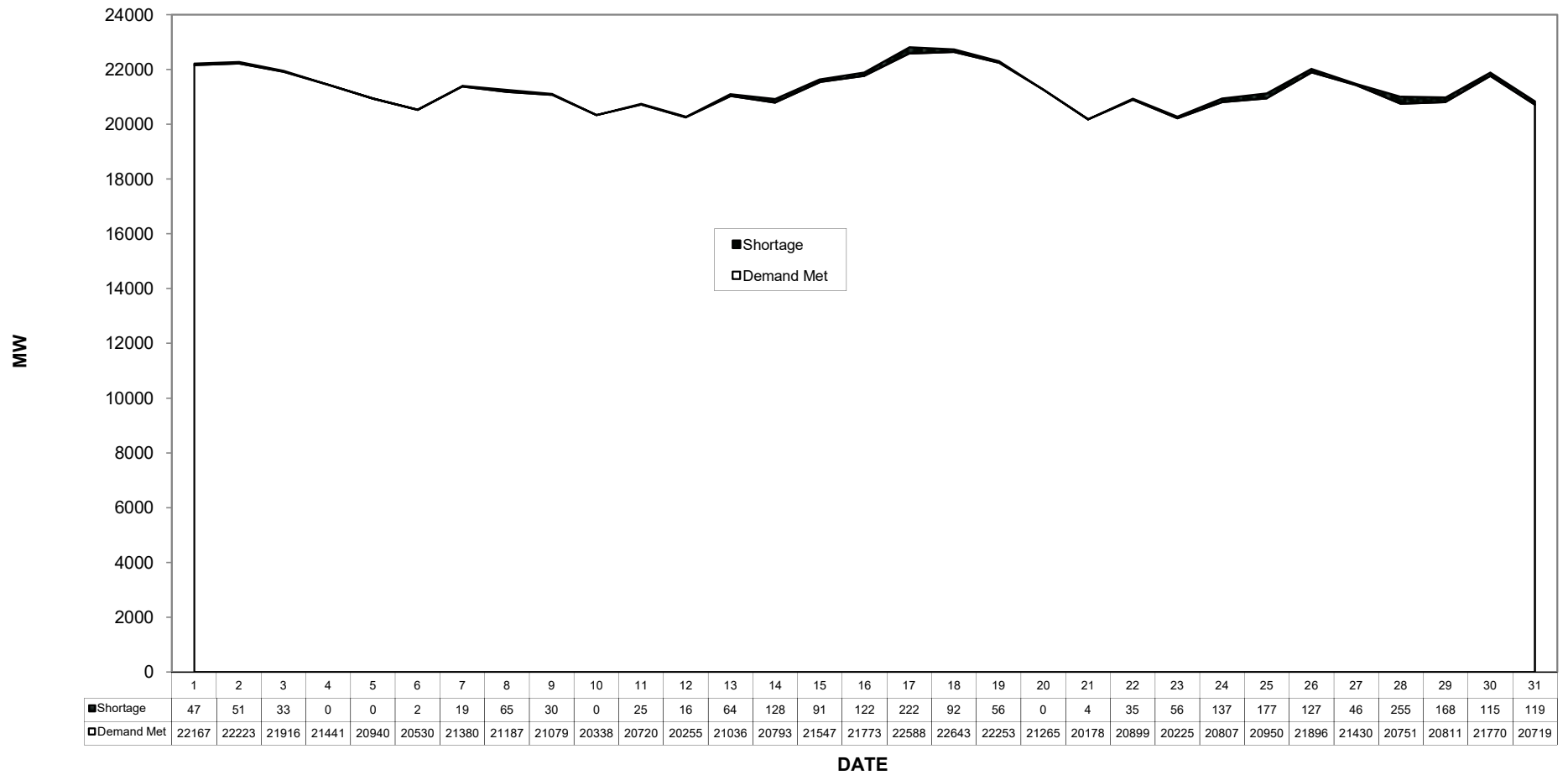


Capacity / Actual Generation Pattern of ER on Peak Day (18-7-2020) at 23.00 hrs.

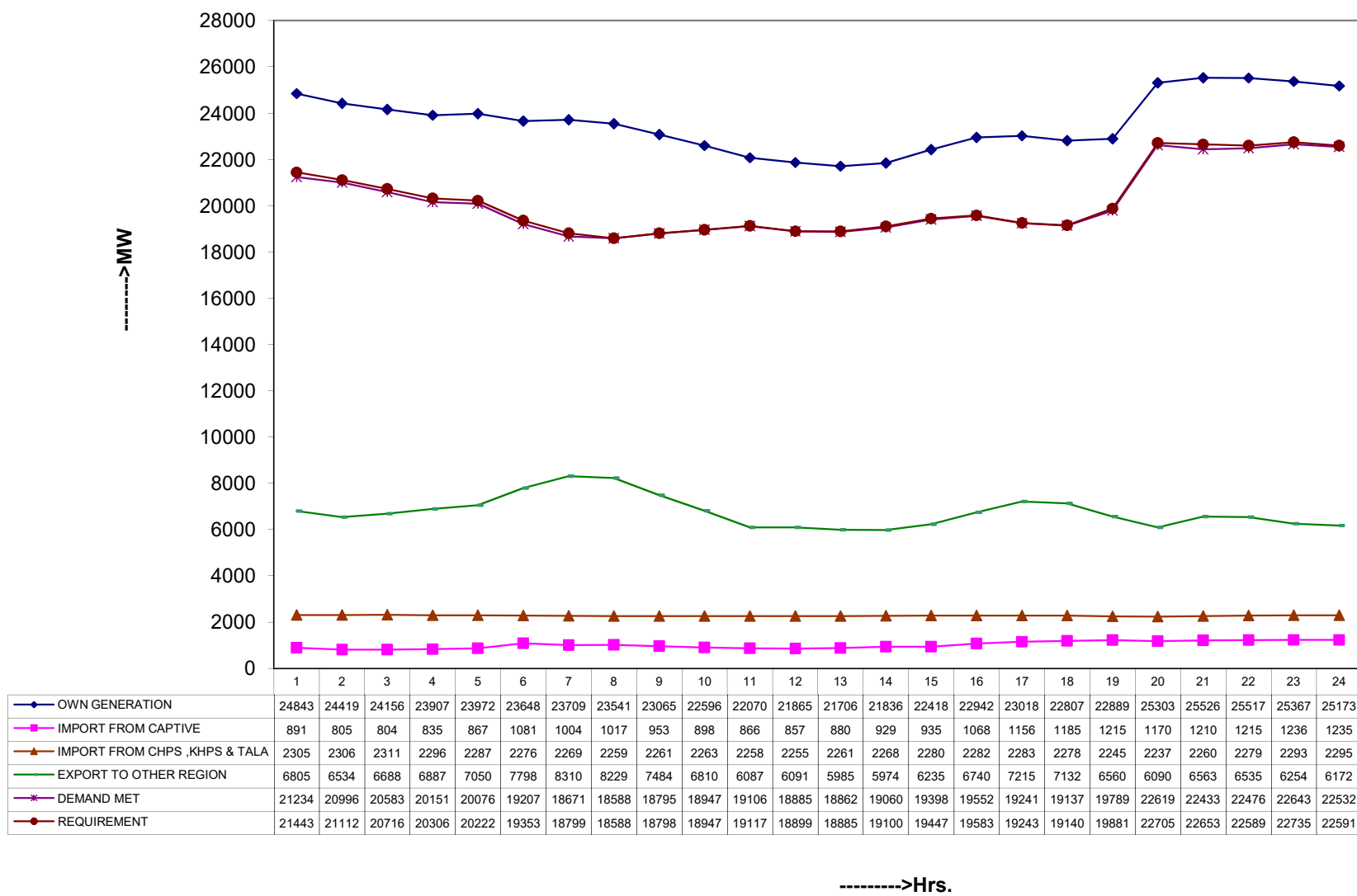


(*)--Includes contribution from HEP of Bhutan (Chukka, Kurichhu & Tala)

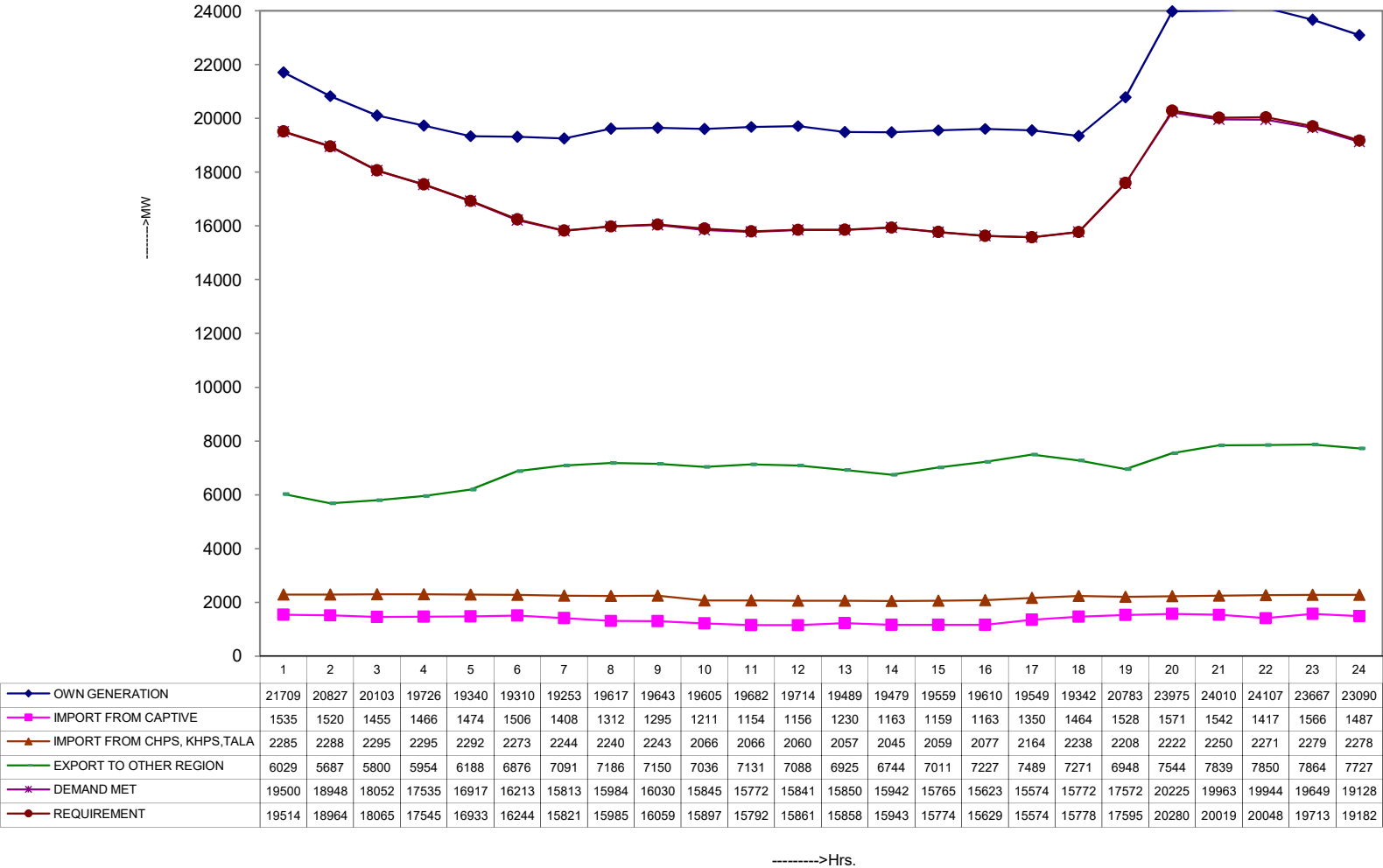
Peak Demand Met / Shortage of Eastern Region For The Month Of JULY'2020



Hourly Load Generation Data OF ER On Regional Peak Day During The Month of JULY'2020 (18-7-2020)

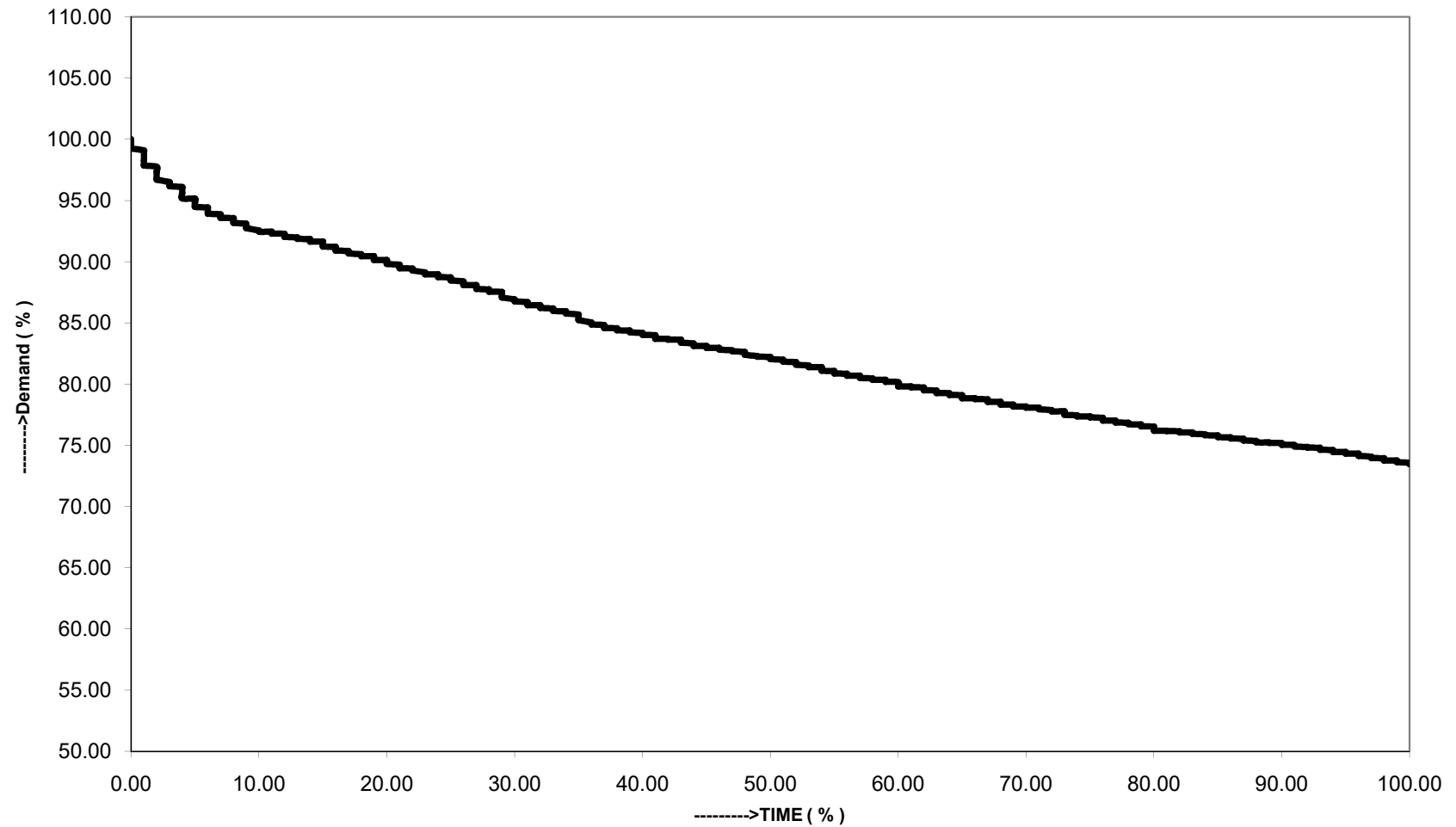


Hourly Load Generation Data of ER On Regional Lean Day During The Month of JULY'2020 (23-7-2020)



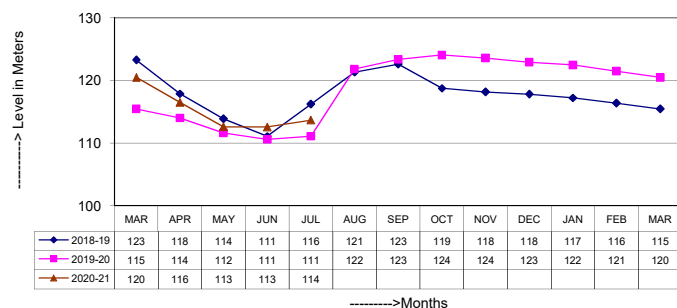
Monthly Load Duration Curve of Eastern Region for JULY-20

Maximum Demand met : 22643 MW
Minimum Demand met: 15574 MW

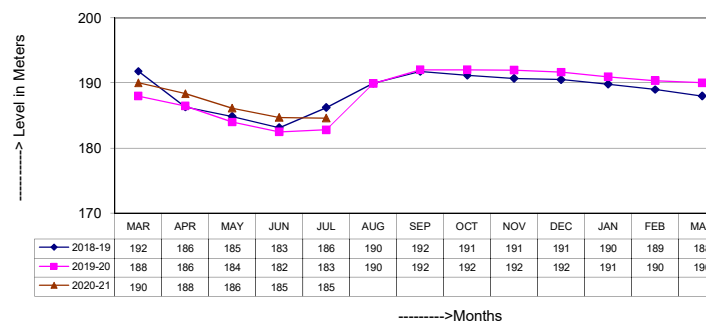


WATER LEVEL IN MAJOR RESERVOIRS ON LAST DATE OF MONTH

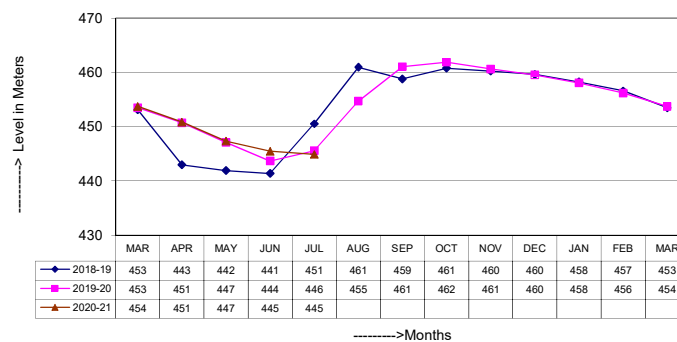
RENGALI RESERVOIR LEVEL



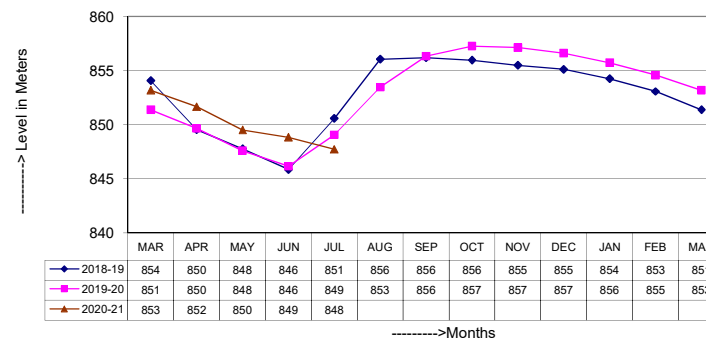
HIRAKUD RESERVOIR LEVEL



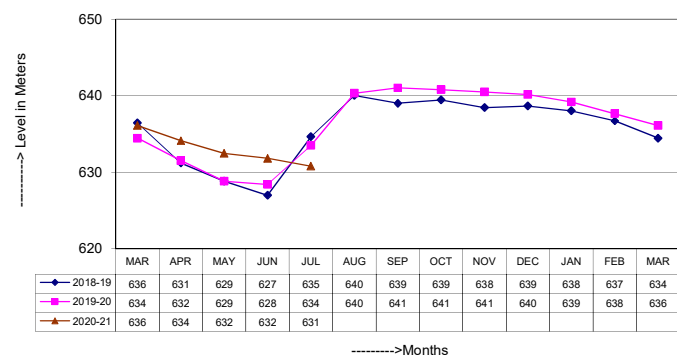
BALIMELA RESERVOIR LEVEL



UPPER KOLAB RESERVOIR LEVEL



INDRAVATI RESERVOIR LEVEL



SUBERNREKHA RESERVOIR LEVEL

