



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

अक्टूबर-2020

October-2020



14, गोल्फ क्लब रोड, टोलीगंज

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Highlights of Eastern Regional Power System for October-2020

- The **Maximum Net Demand** met of **Eastern Region (ER)** during the month of **Oct, 2020** was **23374 MW** which is 7.68% more than the **Oct, 2019** (21706 MW). Individual **Peak Demand (MW)** of all the constituents **increased** compared to the corresponding period of last year except CESC.
- The **Average Net Energy Consumption** per day in ER for the month of **Oct,2020** was **448.87 MU** excluding export, which is 14.52% more than the corresponding period of last year (391.95 MU).
- The **Average regional PLF of thermal units during the month is 65.23%**, which is 10.20% more than the corresponding period of the last year (55.03%).

IPP (GMR) registered the highest **PLF** of 99.00%, followed by DVC (Chandrapura U7#8) 96.16% and NTPC (TSTPS-I) 95.35% during the month of **Oct, 2020**.
- **Maximum Net generation** was **27317 MW** against total **Effective Capacity of 39691.26 MW** (including import from Bhutan). At the time of Regional peak (**23374 MW** on 19.10.2020 at 20.00 hrs.) the generation was **26781 MW** and import from CPP was 1707 MW, Net export was 5114 MW.
- The system frequency in the IEGC recommended band (49.9 Hz to 50.05 Hz) remained for 81.87% of time during the month. **Average frequency** for the month was **50.00 Hz**. The instantaneous maximum and the minimum frequency touched were 50.27 Hz and 49.70 Hz respectively. The integrated (Fifteen minutes time block average) maximum and minimum frequency were **50.14 Hz** and **49.79 Hz** respectively (**refer Annexure-I**).
- The **Maximum Voltage** recorded **427 KV** at Binaguri 400 KV S/s whereas the minimum voltage recorded 388 KV at Jeerat 400 KV S/s of Power grid.
- The **Maximum Export from ER to outside region** was **9586 MW** (including Nepal and Bangladesh) on 27th Oct, 2020 at 17:00 hrs. Total net energy export during the month was **4151.53 MU** (Inc.Transmission loss) MU which is corresponds to 24.63 % of ex-bus total generation 16855.17 MU of Eastern Region.
- The import from CPPs was 1211.35 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	5758	0	2591.94
WR	1335	3815	-912.23
SR	3280	0	1302.62
NER	1387	258	455.57
BANGLADESH	954		689.97
NEPAL (via-CTU)	160		23.66
Total	9586	3815	4151.51
NEPAL by Bihar(NBPDCL)			9.32

SALIENT FEATURES

(YEAR TO YEAR COMPARISION)

		Oct-20	OCTOBER-2019	CHANGE	% CHANGE
1)	Effective Capacity (end of the Month)				
	THERMAL (MW)	30130	29320	810	2.76
	HYDRO (MW)	5877	\$ 5876	1	0
	DIESEL (MW)	0	0	0	0
	RES (MW)	1489	1336	0	0
	TOTAL (MW)	37495	36532	963	2.64
2)	Peak Demand (MW)	23374	21726	1648	7.59
3)	Peak Demand Met (MW)	23374	21706	1668	7.68
4)	Shortage (MW)	0	20	-20	-100.00
5)	% Shortage	0.00	0.09	-0.09	-100.00
6)	Average Energy Requirement Per Day (MU)	448.96	391.33	57.63	14.73
7)	Average Energy Availability Per Day (MU)	448.87	391.95	56.92	14.52
8)	Average Shortage Per Day (MU)	0.09	0.12	-0.03	-23.06
9)	% Shortage	0.02	0.03	-0.01	-31.45
10)	Net Generation for the Month				
	Thermal (MU)	13493.82	11001.63	2492.19	22.65
	Hydro (MU)	3290.73	* 3206.95	83.78	2.61
	RES (MU)	70.61	45.25	0.00	-
	Total (MU)	16855.17	14253.83	2601.34	18.25
11)	Generation at the Time of Max. Regional Demand Met (19-10-20 at 20.00 Hrs.)				
	Thermal (MW)	21426	17749	3677	20.72
	Hydro (MW)	5285	* 5364	-79	-1.47
	RES(MW)	69	51	18	35.58
	Total (MW)	26781	23164	3617	15.61
12)	Inter-Regional Energy Transfer				
	Export (MU)	5063.75	4086.68	977.07	23.91
	Import (MU)	912.23	1354.35	-442.12	-32.64
	Net Exp.(+)/Net Imp.(-) (MU)	4151.53	2732.33	1419.20	51.94
13)	Import From Captive(MU)	1211.39	606.01	605.38	99.90
14)	Peak Inter Regional Power Transfer				
	Max Export (MW) on 27-10-20 at 17.00Hrs	9586	7770	1816	23.37
	Max Import (MW) on 15-10-20 at 03.00Hrs	3815	3387	428	12.64
	Max Net Export(+)/Import (-) (MW)	9586	6687	2899	43.35
15)	Maximum voltage recorded	427	BINAGURI	400 kv s/s	
16)	Minimum voltage recorded	388	JEERAT	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 OCTOBER'2020

A) Net Average Energy Per Day

System	Demand Met (MU/Day)	Requirement (MU/Day)	Shortage (MU/Day)	% Shortage
BSPHCL	107.54	107.58	0.04	0.03
JUVNL	29.04	29.48	0.44	1.49
DVC	62.65	62.66	0.01	0.02
ODISHA	88.88	88.89	0.01	0.02
WBSEDCL	127.12	127.20	0.08	0.06
CESC	31.69	31.70	0.00	0.02
SIKKIM	1.45	1.45	0.00	0.02
REGION	448.87	448.96	0.09	0.02

B) Peak Demand in MW:

System	Demand Met (MW)	Requirement (MW)	Shortage (MW)	% Shortage
BSPHCL	5783	5783	0	0.00
JUVNL	1513	1644	131	7.98
DVC	3173	3173	0	0.00
ODISHA	4973	4984	11	0.23
WBSEDCL	7044	7049	6	0.08
CESC	1806	1807	1	0.0
SIKKIM	96	96	0	0.00
REGION	23374	23374	0	0.00

➤ **DIVERSITY FACTOR** **1.04**

➤ **Regional Peak Demand Met on 19-10-2020 at 20.00 hrs. at 50.01 Hz.**

CONSTITUENT-WISE PERFORMANCE DATA OCTOBER-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 Met (MW)	Demand Met (MW)
BSPHCL	0.00	133.71	23.24	156.95	0.00	15.41	0.00	15.41	0.00	118.30	23.24	141.53	0.00	3192.35	3333.88	107.5	5783	5810
JUVNL	4.09	193.13	0.00	197.22	0.00	25.03	0.00	25.03	4.09	168.10	0.00	172.19	43.80	684.29	900.28	29.0	1513	1548
DVC	57.20	3609.91	0.00	3667.10	0.15	251.60	0.00	251.75	57.05	3358.30	0.00	3415.36	13.43	-1486.54	1942.25	62.7	3173	3543
ODISHA(OPGC+OHPC+TTPS)	727.08	751.08	37.69	1515.84	4.96	80.35	0.00	85.32	722.12	670.72	37.69	1430.53	956.72	367.96	2755.21	88.9	4973	5100
WBPDC+WBSEDCL+DPL	175.72	2146.55	5.60	2327.87	0.00	194.29	0.00	194.29	175.72	1952.26	5.60	2133.58	197.39	1609.71	3940.68	127.1	7044	7383
CESC	0.00	525.73	0.00	525.73	0.00	40.44	0.00	40.44	0.00	485.29	0.00	485.29	0.00	497.11	982.40	31.7	1806	1866
HEL	0.00	387.58	0.00	387.58	0.00	29.88	0.00	29.88	0.00	357.70	0.00	357.70	0.00	-357.70				
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	41.99	42.99	1.4	96	96
NTPC	0.00	5150.26	1.09	5151.35	0.00	378.19	0.00	378.19	0.00	4772.07	1.09	4773.16	0.00	-4773.16				
MPL	0.00	526.00	0.00	526.00	0.00	33.34	0.00	33.34	0.00	492.67	0.00	492.67	0.00	-492.67				
APNRL	0.00	270.53	0.00	270.53	0.00	20.78	0.00	20.78	0.00	249.75	0.00	249.75	0.00	-249.75				
GMR	0.00	515.59	0.00	515.59	0.00	33.04	0.00	33.04	0.00	482.55	0.00	482.55	0.00	-482.55				
JITPL	0.00	411.45	0.00	411.45	0.00	25.33	0.00	25.33	0.00	386.12	0.00	386.12	0.00	-386.12				
NHPC (Inc TLDP= 178 MU)	508.47	0.00	0.00	508.47	0.00	0.00	0.00	0.00	508.47	0.00	0.00	508.47	0.00	-508.47				
CHUZACHEN HPS	45.41	0.00	0.00	45.41	0.00	0.00	0.00	0.00	45.41	0.00	0.00	45.41	0.00	-45.41				
DIKCHU HPS	43.28	0.00	0.00	43.28	0.00	0.00	0.00	0.00	43.28	0.00	0.00	43.28	0.00	-43.28				
JORHANG HPS	50.74	0.00	0.00	50.74	0.00	0.00	0.00	0.00	50.74	0.00	0.00	50.74	0.00	-50.74				
TASHIDING HPS	29.01	0.00	0.00	29.01	0.00	0.00	0.00	0.00	29.01	0.00	0.00	29.01	0.00	-29.01				
TEESTA-III HPS	635.06	0.00	0.00	635.06	0.00	0.00	0.00	0.00	635.06	0.00	0.00	635.06	0.00	-635.06				
CHPC(Birpara Receipt)	253.35	0.00	0.00	253.35	0.00	0.00	0.00	0.00	253.35	0.00	0.00	253.35	0.00	-253.35				
KHPS	64.00	0.00	0.00	64.00	0.00	0.00	0.00	0.00	64.00	0.00	0.00	64.00	0.00	-64.00				
THPS	358.85	0.00	0.00	358.85	0.00	0.00	0.00	0.00	358.85	0.00	0.00	358.85	0.00	-358.85				
DAGACHU HPS	59.06	0.00	0.00	59.06	0.00	0.00	0.00	0.00	59.06	0.00	0.00	59.06	0.00	-59.06				
Mangdechhu HEP	284.47	0.00	0.00	284.47	0.00	0.00	0.00	0.00	284.47	0.00	0.00	284.47	0.00	-284.47				
Total Drawal by HVDC Sahsaram,Alipurduar														15.27	15.27			
Total	3295.78	14621.51	68.61	17985.90	5.11	1127.68	0.00	1132.79	3290.67	13493.83	68.61	16853.11	1211.35	-4151.50	13912.96	448.8	23374	24678

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 (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	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	447.7	449.62	1.93	0.43	49.99
SEPTEMBER	445.43	446.55	1.12	0.25	50.00	465.31	465.52	0.20	0.04	49.99
OCTOBER	391.21	391.95	0.12	0.03	50.00	448.87	448.96	0.09	0.02	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 (MW)	Requirement (MW)	Shortage (MW)	Shortage (%)	Avg. Freq. (HZ)	Demand Met (MW)	Requirement (MW)	Shortage (MW)	Shortage (%)	Avg. Freq. (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	22192	22399	207	0.92	49.99
SEPTEMBER	23126	23276	150	0.64	50.00	23563	23619	56	0.24	49.99
OCTOBER	21706	21726	20	0.09	50.00	23374	23374	0.00	0.00	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 OCTOBER -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	NTPC	Barauni (U# 6,7)	220.00	210.00	0.79	0.12	23.72	10.74
		Thermal	Barauni (U# 8)	250.00	250.00	132.92	119.32	850.60
		Muzaffarpur Stg-I	220.00	220.00	0.00	-1.15	38.58	24.02
		Thermal Total	690.00	680.00	133.70	118.29	912.90	784.48
	RES		341.25	341.25	23.24	23.24	146.98	146.98
		Total BIHAR	1031.25	1021.25	156.94	141.52	1059.88	931.46
JHARKHAND								
TVNL	Thermal	TVNL	420.00	420.00	193.13	168.10	1327.69	1159.80
JSEB	Hydro	Subarnrekha (U#1,2)	130.00	130.00	4.09	4.09	50.03	50.03
	RES		46.75	46.75	0.00	0.00	0.00	0.00
		Total	176.75	176.75	4.09	4.09	50.03	50.03
DVC	Thermal	Bokaro-B(3)	210.00	210.00	7.72	5.98	18.59	12.64
		Chandrapura(U7 # 8)	500.00	500.00	357.73	325.12	1954.15	1764.20
		Durgapur(4)	210.00	210.00	14.38	10.48	15.09	8.52
		Mezia(1,2,3,4,5,6)	1340.00	1340.00	700.04	627.60	3353.56	3002.88
		Mezia(U # 7,8)	1000.00	1000.00	618.44	588.09	3256.90	3075.18
		Bokaro-A(1)	500.00	500.00	301.53	285.19	1827.04	1723.62
		Durgapur STPS (U#1,2)	1000.00	1000.00	587.03	553.15	3221.27	3021.44
		Raghunathpur TPS (U#1,2)	1200.00	1200.00	406.83	379.44	2617.62	2446.30
		Koderma STPS (U#1,2)	1000.00	1000.00	616.21	583.27	4108.95	3884.62
		Total Thermal	6960.00	6960.00	3609.91	3358.30	20373.16	18937.03
	Hydro	Maithon (U#1,2,3)	63.20	63.20	30.67	30.63	162.88	162.61
		Panchet (U#1,2)	80.00	80.00	24.57	24.48	151.10	150.45
		Tilaya (U#1,2)	4.00	4.00	1.95	1.9	3.51	3.4
		Hydro Total	147.20	147.20	57.20	57.05	317.49	316.50
		Total DVC	7107.20	7107.20	3667.10	3415.36	20690.66	19253.53
WEST BENGAL								
WBPDCCL	Thermal	Bandel TPS	380.00	335.00	131.53	118.99	606.25	541.62
		Santalidih TPS(U#5&6)	500.00	500.00	239.80	218.03	1726.49	1574.31
		Kolaghat TPS	1260.00	1260.00	122.96	105.59	838.91	715.40
		Bakreswar TPP	1050.00	1050.00	731.73	667.80	4297.09	3910.92
		Sagardighi TPP	1600.00	1600.00	731.02	673.37	5200.44	4826.55
		DPPS (300+250 *)	550.00	550.00	189.51	168.49	1460.44	1308.13
		Thermal Total	5340.00	5295.00	2146.55	1952.26	14129.63	12876.93
WBSEDCL	Hydro	Jaldhaka (3x9+2x4)	35.00	35.00	29.34	29.34	144.32	144.32
		Ramam (4x12.73)	51.00	51.00	33.39	33.39	199.03	199.03
		Teesta C.F. (3x3x7.5)	67.50	67.50	11.02	11.02	26.01	26.01
		Purulia PSS (4x225)	900.00	900.00	101.97	101.97	707.81	707.81
		Total Hydro	1053.50	1053.50	175.72	175.72	1077.17	1077.17
		RES	527.29	527.29	5.60	5.60	69.94	69.94
	➤	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 OCTOBER -2020

ORGANI- SATION	TYPE	POWER STATION	INSTALLED CAPACITY	EFFECTIVE CAPACITY	Gross Energy Generation	Net Energy Generation	Cummulative Gross Energy Generation upto Current Month	Cummulative Net Energy Generation upto Current Month		
			(in MW)	(in MW)	in MU	in MU	(2019-20) in MU	(2019-20) in MU		
CESC	Thermal	Titagarh (4x60)	240.00	240.00	0.00	0.00	0.00	0.00		
		Southern (2x67.5)	135.00	135.00	18.59	16.78	22.69	20.48		
		Budge-Budge (3x250)	750.00	750.00	507.14	468.51	3371.83	3110.73		
		Total CESC	1125.00	1125.00	525.73	485.29	3394.52	3131.21		
HEL	Thermal	HEL	600.00	600.00	387.58	357.70	2603.59	2402.32		
		Total West Bengal	8645.79	8600.79	3241.18	2976.57	21274.85	19557.58		
ODISHA (NTPC)	Thermal	Talcher-I	250.00	240.00	109.81	96.70	1057.41	938.16		
		Talcher-II	220.00	220.00	145.19	127.85	1024.24	908.32		
		Total Thermal	470.00	460.00	255.00	224.54	2081.65	1846.48		
OPGC	Thermal	IB TPS	420.00	420.00	254.08	225.62	1541.85	1359.52		
		IB TPS U#3(660 MW)	660.00	660.00	0.00	0.00	1308.98	1221.63		
		IB TPS U#4(660 MW)	660.00	660.00	242.00	220.56	1964.86	1823.52		
OHPC	Hydro	Hirakud-I (Burla)	275.50	275.50	80.65	80.40	457.06	455.35		
		Hirakud-II (Chiplima)	72.00	72.00	40.29	40.18	225.41	223.79		
		Balimela (6x60+2x75)	510.00	510.00	172.94	172.31	1139.72	1136.08		
		Rengali (5x50)	250.00	250.00	160.18	160.06	837.49	835.84		
		Upper Kolab (4x80)	320.00	320.00	63.14	62.81	552.50	550.97		
		Indravati HPS (4x150)	600.00	600.00	183.95	180.44	1258.20	1229.92		
		Mckd.(Odisha drawal)	57.38	57.38	25.93	25.93	172.19	172.19		
		Total Hydro	2084.88	2084.88	727.08	722.12	4642.55	4604.14		
		RES	511.21	511.21	37.69	37.69	322.81	322.81		
		Total Odisha	4806.09	4796.09	1515.84	1451.97	11862.71	11218.68		
(**) SIKKIM	Hydro	RES	52.18	52.18	3.00	3.00	13.00	13.00		
NTPC		MTPS Stg-II	390.00	390.00	197.892	176.39	1121.68	997.14		
		FSTPP# I&II (3x200+2x500)	1600.00	1600.00	722.99	664.02	4657.12	4256.99		
		FSTPP (U# 6)	500.00	500.00	303.66	280.18	1769.39	1626.65		
		KhSTPP (4x210+3x500)	2340.00	2340.00	1104.99	1015.87	7775.56	7139.84		
		TSTPP (2x500)	1000.00	1000.00	709.41	657.20	4550.82	4202.04		
		BARH STPS II (2X660)	1320.00	1320.00	727.25	684.91	3991.37	3732.65		
		BRBCL # I,2,3(3X250 MW)	750	750	408.37	373.71	2106.26	1918.34		
		NSTPS	660.00	660.00	392.09	368.96	2906.58	2751.86		
		DSTPP	800.00	800.00	583.61	550.82	2334.82	2163.37		
		Total NTPC	9360.00	9360.00	5150.26	4772.07	31213.60	28788.90		
		NHPC	HYDRO	Rangit (3x20)	60.00	60.00	35.40	35.40	211.72	211.72
				Teesta (3x170)	510.00	510.00	315.17	315.17	2283.81	2283.81
TLDP -(4x33+4x40)	292.00			292.00	157.95	157.95	1041.12	1041.12		
Total NHPC	862.00			862.00	508.53	508.53	3536.65	3536.65		
MPL (U#1&2)	1050.00			1050.00	526.00	492.66	3658.14	3425.37		
APNRL (U#1,2)	540.00			540.00	270.53	249.75	1688.46	1554.25		
GMR (2x350)	700.00			700.00	515.59	482.55	2699.31	2516.55		
JITPL (2X600)	1200.00			1200.00	411.45	386.12	3194.64	2991.91		
CHUZACHEN** (2x55)	110.00			110.00	45.41	45.41	431.12	431.12		
JORETHANG (2x48)	96.00			96.00	50.74	50.74	327.39	327.39		
TEESTA URJA St III (6x200)	1200.00			1200.00	635.06	635.06	5038.79	5038.79		
Tashilding (2x48.5)	97.00			97.00	29.01	29.01	323.26	323.26		
DICKCHU (2x48)	96.00			96.00	43.28	43.28	412.89	412.89		
TALCHER SOLAR	10.00			10.00	1.09	1.09	7.53	7.53		
Total Thermal (E.R)	30195.00			30130.00	14621.50	13493.82	92092.97	84819.90		
EASTERN REGIONAL		Total Hydro (E.R)	5876.58	5876.58	2276.12	2271.01	16157.35	16117.94		
		Total RES	1488.68	1488.68	70.61	70.61	560.26	560.26		
		TOTAL (E.R)	37560.26	37495.26	16968.23	15835.44	108810.58	101498.10		
BHUTAN	Hydro	CHPC(4x90)	360.00	270.00	253.35	253.35	1709.50	1709.50		
		Kurichu (4x15)	60.00	60.00	64.00	64.00	383.94	383.94		
		TALA (6x170)	1020.00	1020.00	358.85	358.85	2968.29	2968.29		
		DAGACHU (2x63)	126.00	126.00	59.06	59.06	409.00	409.00		
		MANGDECHU(4x180)	720.00	720.00	284.47	284.47	2703.77	2703.77		
		Grand Total	39846.26	39691.26	17987.96	16855.17	116985.08	109672.60		

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

ORGANI- SATION	TYPE	POWER	INSTALLED	EFFECTIVE	Gross	PLF	Cummulative Gross	Cummulative PLF
		STATION	CAPACITY	CAPACITY	Energy	of Current	Energy Generation	upto Current
			(in MW)	(in MW)	Generation	Month	upto Current Month	Month
(2020-21) in MU (%)								
BIHAR	NTPC	Barauni (U# 6,7)	220.00	210.00	0.79	0.50	23.72	2.20
	Thermal	Barauni (U# 8)	250.00	250.00	132.92	71.46	850.60	66.25
		Muzaffarpur Stg-I	220.00	220.00	0.00	0.00	38.58	3.41
		Thermal Total	690.00	680.00	133.70	26.43	912.90	26.14
	RES		341.25	341.25	23.24		146.98	
		Total BIHAR	1031.25	1021.25	156.94		1059.88	
JHARKHAND								
TVNL	Thermal	TVNL	420.00	420.00	193.13	61.81	1327.69	61.55
JSEB	Hydro	Subarnrekha (U#1,2)	130.00	130.00	4.09		50.03	
	RES		46.75	46.75	0.00		0.00	
		Total	176.75	176.75	4.09		50.03	
DVC	Thermal	Bokaro-B(3)	210.00	210.00	7.72	4.94	18.59	1.72
		Chandrapura(U7 # 8)	500.00	500.00	357.73	96.16	1954.15	76.10
		Durgapur(4)	210.00	210.00	0.00	9.20	15.09	1.40
		Mezia(1,2,3,4,5,6)	1340.00	1340.00	700.04	70.22	3353.56	48.73
		Mezia(U # 7,8)	1000.00	1000.00	618.44	83.12	3256.90	63.41
		Bokaro-A(1)	500.00	500.00	301.53	81.06	1827.04	71.15
		Durgapur STPS (U#1,2)	1000.00	1000.00	587.03	78.90	3221.27	62.72
		Raghunathpur TPS (U#1,2)	1200.00	1200.00	406.83	45.57	2617.62	42.47
		Koderma STPS (U#1,2)	1000.00	1000.00	616.21	82.82	4108.95	80.00
		Total Thermal	6960.00	6960.00	3609.91	69.71	20373.16	56.99
	Hydro	Maithon (U#1,2,3)	63.20	63.20	30.67		162.88	
		Panchet (U#1,2)	80.00	80.00	24.57		151.10	
		Tilaya (U#1,2)	4.00	4.00	1.95		3.51	
		Hydro Total	147.20	147.20	57.20		317.49	
			Total DVC	7107.20	7107.20	3667.10		20690.66
WEST BENGAL								
WBPDC	Thermal	Bandel TPS	380.00	335.00	131.53	52.77	606.25	35.24
		Santalidih TPS(U#5&6)	500.00	500.00	239.80	64.46	1726.49	67.23
		Kolaghat TPS	1260.00	1260.00	122.96	13.12	838.91	12.96
		Bakreswar TPP	1050.00	1050.00	731.73	93.67	4297.09	79.68
		Sagardighi TPP	1600.00	1600.00	731.02	61.41	5200.44	63.28
		DPPS (300+250 *)	550.00	550.00	189.51	46.31	1460.44	51.70
		Thermal Total	5340.00	5295.00	2146.55	54.49	14129.63	51.96
WBSEDCL	Hydro	Jaldhaka (3x9+2x4)	35.00	35.00	29.34		144.32	
		Ramam (4x12.73)	51.00	51.00	33.39		199.03	
		Teesta C.F. (3x3x7.5)	67.50	67.50	11.02		26.01	
		Purulia PSS (4x225)	900.00	900.00	101.97		707.81	
		Total Hydro	1053.50	1053.50	175.72		1077.17	
		RES	527.29	527.29	5.60		69.94	
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.								

PLANT LOAD FACTOR (PLF) OF THERMAL POWER STATIONS IN EASTERN REGION DURING THE MONTH OF OCTOBER' 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	(%)
CESC	Thermal	Titagarh (4x60)	240.00	240.00	0.00	0.00	0.00	0.00
		Southern (2x67.5)	135.00	135.00	18.59	18.51	22.69	3.27
		Budge-Budge (3x250)	750.00	750.00	507.14	90.89	3371.83	87.53
		Total CESC	1125.00	1125.00	525.73	62.81	3394.52	58.75
HEL	Thermal		600.00	600.00	387.58	86.82	2603.59	84.49
		Total West Bengal	8645.79	8600.79	3241.18		21274.85	
ODISHA (NTPC)	Thermal	Talcher-I	250.00	240.00	109.81	61.50	1057.41	85.78
		Talcher-II	220.00	220.00	145.19	88.70	1024.24	90.65
		Total Thermal	470.00	460.00	255.00	74.51	2081.65	88.11
OPGC	Thermal	IB TPS	420.00	420.00	254.08	81.31	1541.85	71.48
		IB TPS U#3(660 MW)	660.00	660.00	0.00	0.00	1308.98	38.62
		IB TPS U#4(660 MW)	660.00	660.00	242.00	52.68	1964.86	57.96
OHPC	Hydro	Hirakud-I (Burla)	275.50	275.50	80.65		457.06	
		Hirakud-II (Chiplima)	72.00	72.00	40.29		225.41	
		Balimela (6x60+2x75)	510.00	510.00	172.94		1139.72	
		Rengali (5x50)	250.00	250.00	160.18		837.49	
		Upper Kolab (4x80)	320.00	320.00	63.14		552.50	
		Indravati HPS (4x150)	600.00	600.00	183.95		1258.20	
		Mckd.(Odisha drawal)	57.38	57.38	25.93		172.19	
		Total Hydro	2084.88	2084.88	727.08		4642.55	
		RES	511.21	511.21	37.69		322.81	
		Total Odisha	4806.09	4796.09	1515.84		11862.71	
(**) SIKKIM	Hydro	RES	52.18	52.18	3.00		13.00	
NTPC		MTPS Stg-II	390	390	197.892	68.20	1121.68	56.00
		FSTPP# I&II (3x200+2x500)	1600.00	1600.00	722.99	60.74	4657.12	56.67
		FSTPP (U# 6)	500.00	500.00	303.66	81.63	1769.39	68.90
		KhSTPP (4x210+3x500)	2340.00	2340.00	1104.99	63.47	7775.56	64.70
		TSTPP (2x500)	1000.00	1000.00	709.41	95.35	4550.82	88.61
		BARH STPS II (2X660)	1320.00	1320.00	727.25	74.05	3991.37	58.87
		BRBCL # I,2,3(3X250 MW)	750.00	750.00	408.37	73.18	2106.26	54.68
		NSTPS	660.00	660.00	392.09	79.85	2906.58	85.75
		DSTPP	800.00	800.00	583.61	98.05	2334.82	56.82
		Total NTPC	9360.00	9360.00	5150.26	73.96	31213.60	64.93
NHPC	HYDRO	Rangit (3x20)	60.00	60.00	35.40		211.72	
		Teesta (3x170)	510.00	510.00	315.17		2283.81	
		TLDP -(4x33+4x40)	292.00	292.00	157.95		1041.12	
		Total NHPC	862.00	862.00	508.53		3536.65	
	Thermal	MPL (U#1&2)	1050.00	1050.00	526.00	67.33	3658.14	67.83
		APNRL (U#1,2)	540.00	540.00	270.53	67.34	1688.46	60.88
		GMR (2x350)	700.00	700.00	515.59	99.00	2699.31	75.08
		JITPL (2X600)	1200.00	1200.00	411.45	46.09	3194.64	51.83
		CHUZACHEN** (2x55)	110.00	110.00	45.41		431.12	
		JORETHANG (2x48)	96.00	96.00	50.74		327.39	
		TEESTA URJA St III (6x200)	1200.00	1200.00	635.06		5038.79	
		Tashilding (2x48.5)	97.00	97.00	29.01		323.26	
		DICKCHU (2x48)	96.00	96.00	43.28		412.89	
		TALCHER SOLAR	10.00	10.00	1.09		7.53	
		Total Thermal (E.R)	30195.00	30130.00	14621.50	65.23	92092.97	59.51
	EASTERN REGIONAL	Total Hydro (E.R)	5876.58	5876.58	2276.12		16157.35	
		Total RES	1488.68	1488.68	70.61		560.26	
		TOTAL (E.R)	37560.26	37495.26	16968.23		108810.58	
BHUTAN	Hydro	CHPC(4x90)	360.00	270.00	253.35		1709.50	
	Hydro	Kurichu (4x15)	60.00	60.00	64.00		383.94	
	Hydro	TALA (6x170)	1020.00	1020.00	358.85		2968.29	
	Hydro	DAGACHU (2x63)	126.00	126.00	59.06		409.00	
		MANGDECHU(4x180)	720.00	720.00	284.47		2703.77	
		Grand Total	39846.26	39691.26	17987.96		116985.08	

CONTRIBUTIONS OF DIFFERENT CONSTITUENTS AT THE TIME OF REGIONAL PEAK
DURING THE MONTH OF OCTOBER'2020 (19-10-2020)

Date **19-Oct-20**
Time **20.00** Hrs.
Frequency **50.01** Hz.

(All Fig. in MW)

System/State	Installed Capacity	Effective Capacity	Hydro	Thermal	RES	Total
BSPHCL	1031	1021	0	213	0	213
JUVNL	597	597	0	238	0	238
DVC	7107	7107	76	5197	0	5273
ODISHA	4806	4796	1255	987	69	2311
WBSEDCL	6371	6326	494	3211	0	3705
TLDP	292	292	261	0	0	261
HEL HALDIA	600	600	0	473	0	473
CESC	1125	1125	0	726	0	726
DPL	550	550	0	0	0	0
SIKKIM	52	52	0	0	0	0
NTPC	9360	9360	0	7725	0	7725
NHPC	570	570	560	0	0	560
CHUKHA	360	270	279	0	0	279
KURICHU	60	60	76	0	0	76
TALA	1020	1020	396	0	0	396
MPL	1050	1050	0	983	0	983
OPGC (660 MW)	0	0	0	0	0	0
APNRL	540	540	0	451	0	451
Kamalganga (GMR)	700	700	0	660	0	660
JITPL	1200	1200	0	563	0	563
Chuzachen	110	110	109	0	0	109
Jorethang	96	96	58	0	0	58
TEESTA URJA St III	1200	1200	1175	0	0	1175
Tashilding	97	97	45	0	0	45
DICKCHU	96	96	89	0	0	89
<u>Daghachu</u>	126	126	65	0	0	65
<u>Solar</u>	10	10	0	0	0	0
<u>Mangdechhu</u>	720	720	348	0	0	348
<u>Total</u>	39846	39691	5285	21426	69	26781
Import From Captive:						1707
Export To:						
NER						628
SR						3116
WR						-2585
NR						2915
Bangladesh						930
Nepal						109
Total						5114

➤ I Net Peak Demand Met (MW) :

23374

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

Hourly Load Generation Data OF ER On Regional Peak Day During The Month of OCTOBER'2020 (19-10-2020)

(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	3012	19864	22876	1651	1212	4451	21289	9	63	21362
2	2644	19240	21884	1660	1215	4025	20734	-11	0	20734
3	2535	18646	21181	1662	1220	3806	20256	9	1	20266
4	2500	18604	21104	1662	1222	4089	19899	3	1	19904
5	2399	19046	21446	1687	1213	4758	19587	-5	1	19588
6	2579	19923	22503	1718	1193	6322	19092	8	1	19101
7	2568	19738	22306	1660	1159	7006	18120	17	2	18140
8	2758	19561	22319	1622	1170	7188	17924	9	3	17936
9	3055	19845	22900	1552	1172	7114	18510	19	12	18541
10	3153	20366	23518	1539	1197	7296	18959	3	6	18968
11	3191	20020	23211	1487	1206	6491	19413	5	2	19420
12	2957	19962	22919	1513	1207	6231	19408	0	6	19414
13	2712	19538	22250	1578	1217	5772	19273	-13	0	19274
14	2753	19391	22144	1561	1212	5958	18958	-15	2	18961
15	2895	20299	23194	1591	1212	6861	19136	45	3	19184
16	2993	20537	23530	1598	1197	7092	19233	13	1	19247
17	3141	20402	23543	1648	1181	7122	19251	7	0	19258
18	3824	21001	24825	1725	1115	6445	21219	58	104	21381
19	4598	21452	26050	1734	1164	5670	23278	53	0	23331
20	4191	21426	25617	1708	1164	5114	23374	-4	0	23374
21	4120	21095	25215	1722	1185	4916	23205	8	0	23213
22	4128	21051	25180	1729	1199	5188	22919	-8	0	22919
23	3628	20686	24314	1704	1214	4703	22529	-10	0	22529
24	2948	20563	23511	1690	1222	4651	21772	19	0	21791

Hourly Load Generation Data of ER On Regional Lean Day During The Month of OCTOBER'2020 (26-10-2020)

(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	2391	16407	18798	1673	1128	4641	16958	-6	0	16958
2	2325	16407	18732	1634	1132	4992	16506	-3	0	16506
3	2098	15997	18095	1613	1138	4754	16091	-11	0	16091
4	2087	15757	17844	1619	1139	4846	15756	-6	0	15756
5	2083	15678	17761	1632	1140	4951	15583	-3	0	15583
6	2353	16315	18668	1616	1141	6032	15393	-20	0	15393
7	2640	16176	18816	1634	1142	6640	14952	-5	0	14952
8	2968	16846	19814	1566	1148	7773	14755	-5	1	14756
9	2860	16671	19532	1515	1145	7338	14853	0	1	14854
10	2530	16509	19039	1496	1184	6971	14748	-4	0	14748
11	2072	16212	18285	1332	1252	6026	14843	-4	0	14843
12	2160	16031	18190	1223	1364	6218	14560	-14	0	14560
13	1962	15871	17833	1230	1535	6118	14480	-5	0	14480
14	1830	15839	17669	1276	1584	6071	14457	-20	0	14457
15	1860	16119	17979	1254	1597	6767	14063	7	1	14072
16	2180	16429	18609	1292	1713	7708	13906	9	1	13916
17	2490	17871	20360	1404	1850	9360	14254	-1	0	14254
18	3562	19135	22698	1509	1797	9388	16615	13	0	16628
19	4142	19471	23614	1500	1819	8737	18195	-25	0	18195
20	3700	18709	22409	1525	1829	8045	17718	-37	0	17718
21	3465	17119	20585	1506	1784	6494	17381	-6	0	17381
22	3456	16521	19977	1521	1767	6219	17045	-18	0	17045
23	2720	16574	19294	1417	1760	6128	16343	-19	0	16343
24	2652	16458	19110	1392	1750	6355	15898	-10	0	15898

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

FOR THE MONTH OF OCTOBER'2020

POWER CUT / RESTRICTIONS

BSPHCL	NO NOTIFIED CUTS/RESTRICTIONS However there was loadshedding of 0.65 MU
JUVNL	NO NOTIFIED CUTS/RESTRICTIONS However there was loadshedding of 13.48 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 1.87 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

Oct-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	MAX HZ	HRS.	MIN HZ	HRS.	MAX HZ	HRS.	MIN HZ	HRS.	
	TO	TO	TO	TO	TO	TO	<49.9	TO	TO									
05	10	17	22	24	24		50.1	50.05										
01-Oct	50.01	50.02	50.03	50.02	50.00	50.02	0.10	77.90	22.00	77.90	50.17	06:02:50	49.89	23:04:30	50.08	0:00	49.97	0:00
02-Oct	49.98	50.05	49.97	50.01	50.00	50.00	2.60	80.70	16.70	80.70	50.21	07:59:50	49.74	16:46:20	50.14	0:00	49.83	0:00
03-Oct	50.00	49.99	49.98	50.01	50.02	50.00	1.50	86.00	12.50	86.00	50.15	22:00:20	49.84	05:09:30	50.07	0:00	49.93	0:00
04-Oct	50.00	50.01	50.01	50.01	50.03	50.01	0.05	83.26	16.69	83.26	50.18	18:02:00	49.89	18:12:00	50.08	0:00	49.96	0:00
05-Oct	49.99	50.01	49.97	49.98	49.96	49.98	7.50	79.90	12.50	79.90	50.13	22:01:00	49.71	18:12:20	50.05	0:00	49.79	0:00
06-Oct	50.01	50.02	49.99	49.99	50.00	50.00	4.70	77.90	17.40	77.90	50.16	08:01:40	49.77	17:41:40	50.08	0:00	49.87	0:00
07-Oct	50.01	49.99	49.99	49.99	49.99	49.99	3.80	84.10	12.20	84.10	50.15	04:02:10	49.80	18:13:30	50.07	0:00	49.89	0:00
08-Oct	50.00	49.99	50.00	49.97	50.02	49.99	4.40	83.50	12.10	83.50	50.18	22:02:00	49.78	16:55:40	50.07	0:00	49.85	0:00
09-Oct	49.98	49.99	49.98	50.01	49.99	49.99	3.30	84.70	12.00	84.70	50.16	13:03:00	49.85	10:52:40	50.06	0:00	49.89	0:00
10-Oct	50.00	50.01	50.00	50.00	50.00	50.00	2.04	83.92	14.04	83.92	50.13	18:00:10	49.82	17:37:50	50.07	0:00	49.87	0:00
11-Oct	50.01	50.02	50.02	50.01	50.02	50.02	0.50	77.20	22.30	77.20	50.20	22:01:10	49.86	18:12:20	50.10	0:00	49.96	0:00
12-Oct	50.00	50.02	50.00	50.01	49.99	50.01	1.40	77.50	21.10	77.50	50.27	10:05:20	49.83	12:44:00	50.12	0:00	49.91	0:00
13-Oct	50.00	50.01	50.00	50.01	50.04	50.01	1.30	79.10	19.50	79.10	50.16	17:01:40	49.85	14:23:50	50.06	0:00	49.91	0:00
14-Oct	50.00	49.99	50.01	50.00	50.01	50.00	1.10	79.10	19.80	79.10	50.15	10:04:00	49.84	05:15:20	50.09	0:00	49.93	0:00
15-Oct	49.98	50.01	49.98	50.00	50.00	49.99	7.20	76.20	16.60	76.20	50.15	08:48:50	49.74	16:40:30	50.07	0:00	49.81	0:00
16-Oct	49.97	49.98	49.96	49.98	49.97	49.97	8.00	83.20	8.80	83.20	50.11	04:01:00	49.76	18:12:50	50.06	0:00	49.84	0:00
17-Oct	49.99	50.00	49.97	49.97	49.98	49.98	7.50	83.60	8.90	83.60	50.11	13:03:10	49.79	17:54:10	50.05	0:00	49.84	0:00
18-Oct	49.95	50.02	49.99	50.00	50.01	49.99	4.70	83.10	12.20	83.10	50.19	08:03:00	49.76	01:47:20	50.11	0:00	49.84	0:00
19-Oct	50.00	49.98	49.99	49.97	49.99	49.99	6.60	83.50	9.90	83.50	50.15	13:02:10	49.77	18:29:40	50.07	0:00	49.86	0:00
20-Oct	50.00	49.98	49.97	50.01	50.01	49.99	7.40	81.40	11.20	81.40	50.17	22:01:10	49.85	14:24:10	50.07	0:00	49.83	0:00
21-Oct	49.99	50.01	50.01	50.02	50.00	50.01	1.10	84.20	14.70	84.20	50.16	13:20:20	49.85	16:55:40	50.07	0:00	49.92	0:00
22-Oct	50.00	50.01	50.01	50.01	50.00	50.01	0.50	85.60	13.80	85.60	50.17	13:03:10	49.78	06:09:20	50.06	0:00	49.94	0:00
23-Oct	50.00	50.02	49.98	50.01	49.99	50.00	2.00	84.20	13.80	84.20	50.12	08:01:20	49.78	15:23:40	50.06	0:00	49.84	0:00
24-Oct	49.98	49.99	49.99	50.00	49.99	49.99	3.90	83.60	12.50	83.60	50.13	08:01:00	49.79	05:42:40	50.09	0:00	49.86	0:00
25-Oct	49.99	50.00	49.99	49.99	50.02	49.99	1.50	86.50	12.00	86.50	50.17	22:00:40	49.85	20:46:40	50.07	0:00	49.92	0:00
26-Oct	50.01	50.01	50.01	50.02	50.03	50.01	0.50	80.30	19.20	80.30	50.20	13:03:30	49.86	09:19:50	50.13	0:00	49.96	0:00
27-Oct	50.01	49.99	49.97	50.01	50.02	49.99	6.80	78.50	14.70	78.50	50.19	22:01:50	49.77	15:45:10	50.07	0:00	49.85	0:00
28-Oct	50.00	49.98	50.00	49.99	49.96	49.99	7.60	80.30	12.20	80.30	50.14	22:01:40	49.70	18:14:20	50.08	0:00	49.85	0:00
29-Oct	49.95	49.97	49.99	50.01	49.99	49.98	8.30	82.40	9.30	82.40	50.15	18:01:10	49.77	18:11:10	50.05	0:00	49.85	0:00
30-Oct	49.98	49.97	49.94	50.00	50.01	49.97	9.30	82.70	8.00	82.70	50.16	22:01:20	49.76	16:55:10	50.05	0:00	49.84	0:00
31-Oct	50.01	50.00	49.98	50.00	50.01	49.99	4.20	84.00	11.80	84.00	50.20	18:01:20	49.80	17:43:20	50.06	0:00	49.86	0:00
MAX	50.01	50.05	50.03	50.02	50.04	50.02	9.30	86.50	22.30	86.50	50.27		49.89		50.14		49.97	
MIN	49.95	49.97	49.94	49.97	49.96	49.97	0.05	76.20	8.00	76.20	50.11		49.70		50.05		49.79	
AVG	49.99	50.00	49.99	50.00	50.00	50.00	3.92	81.87	14.21	81.87	50.16		49.80		50.08		49.88	

SUMMARY:

Avg. Frequency :

50.0 Hz.

Instantaneous Frequency :

Maximum Frequency : 50.27 Hz at 10:05 Hrs.

Minimum Frequency : 49.70 Hz at 18:14 Hrs.

15 Minutes Integrated Frequency :

Maximum Frequency : 50.14 Hz On 00/01/00 at 00:00 Hrs.

Minimum Frequency : 49.79 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	3.92	81.87	14.21

ANNEXURE-II

VOLTAGE ANALYSIS

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

(All figs. in kV)

PGCIL	BINAGURI		MAITHON		JEERAT		BIHARSHARIFF	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	427	407	422	405	421	388	419	400

PGCIL	MUZAFFARPUR		JAMSHEDPUR		ROURKELA		JEYPORE	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	417	389	417	401	417	403	425	407

ANNEXURE-III

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

Expected Load Relief through UFRs by ER Constituent:

(All Fig. are in MW)

STATES/ UTILITIES	STAGE-I (49.4 Hz) (Inst.)	STAGE-II (49.2 Hz) (Inst.)	STAGE-III (49.0 Hz) (Inst.)	STAGE-IV 48.8 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. Revised UFR Scheme (Stg-I 49.4Hz. Stg-II 49.2 Hz Stg-III 49.0 Hz and Stg-IV 48.8 Hz) implemented from March/ April-2020

A.

WATER LEVEL OF MAJOR HYDEL RESERVOIRS OF THE REGION IN
Oct-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	
			(31-10-20)	(31-10-19)		
Hirakud	192	180	191.83	192.01	192.02	01.10.20
Balimela	462	439	458.36	461.86	457.50	01.10.20
Rengali	123	109	121.75	124.05	122.59	01.10.20
Upperkolab	858	844	852.68	857.25	851.37	01.10.20
Indravati	642	625	638.14	640.79	638.11	01.10.20
Subernrekha	590	580	586.83	588.29	587.26	01.10.20

B.

CPP/IPP IMPORT by Eastern Region Constituents during

Oct-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	43.80
West Bengal	62.04	26.80	0	0	0	0	0	108.59	197.43
ODISHA	0	0	0.00	0.00	0.00	0.00	0	956.72	956.72
DVC	0	0	0	0	0	0	13.43	0	13.43
TOTAL	62.04	26.80	0.00	0.00	0.00	0.00	13.43	1065.31	1211.39

C.

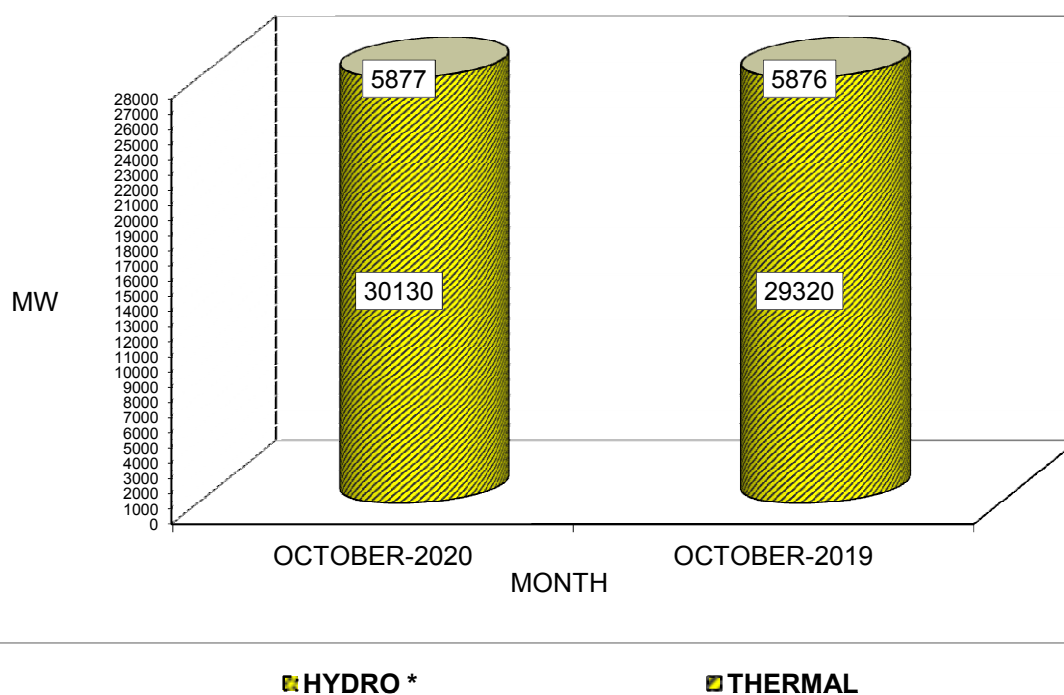
Distribution of Schedule Supply among Key Customers by IPPs during

Oct-20

(All figs. are in MU)

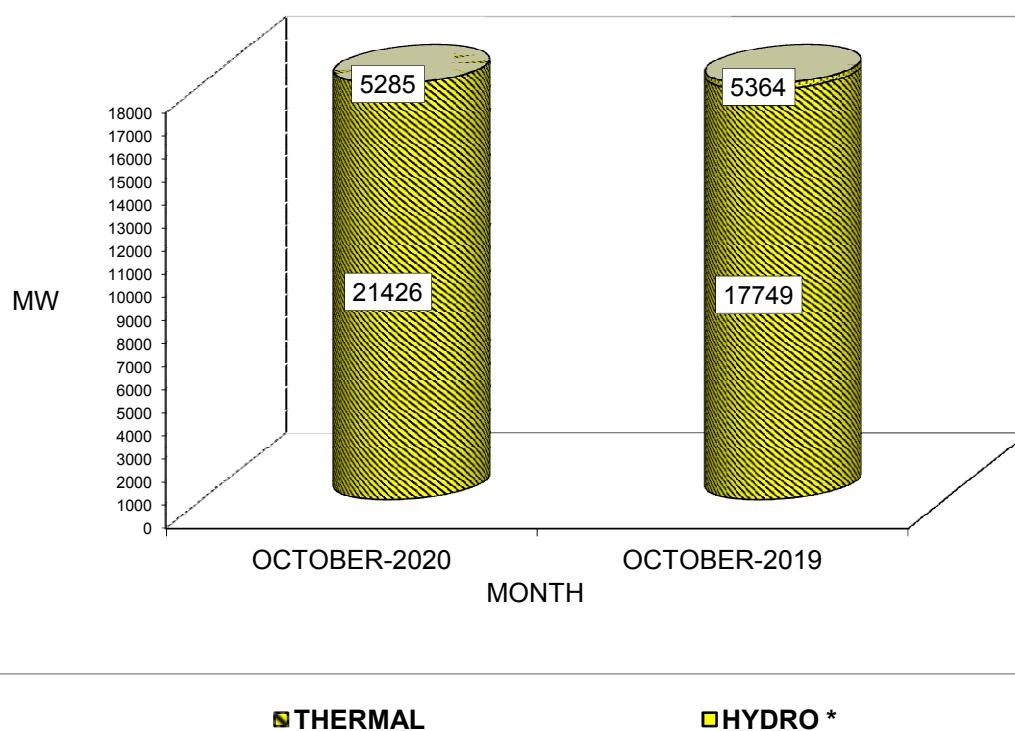
IPP	TPDDL	WBSEDCL/ WBPDL	DVC	Sale at IEX/NPCL	ODISHA	JSEB	CTU/Others	Total (Excl. Tr. Loss)
MPL	159.31	107.50	28.48	0.00	0	0	198.12	493.41
Sterlite	0	0	0	0	0.00	0	0.00	0.00
APNRL	0	0.00	0	0.00	0.00	0.00	0.00	0.00
Total	159.31	107.50	28.48	0.00	0.00	0.00	198.12	493.41

EFFECTIVE CAPACITY OF EASTERN REGIONAL GRID



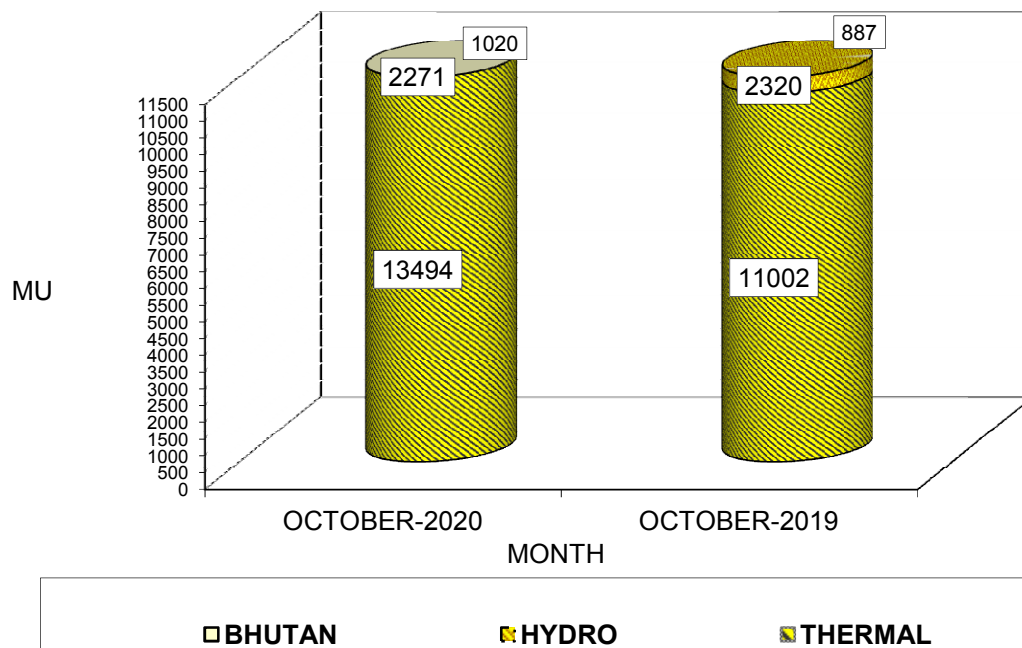
*Excludes contribution from HEPs of Bhutan

GENERATION CORRESPONDING TO PEAK DEMAND MET

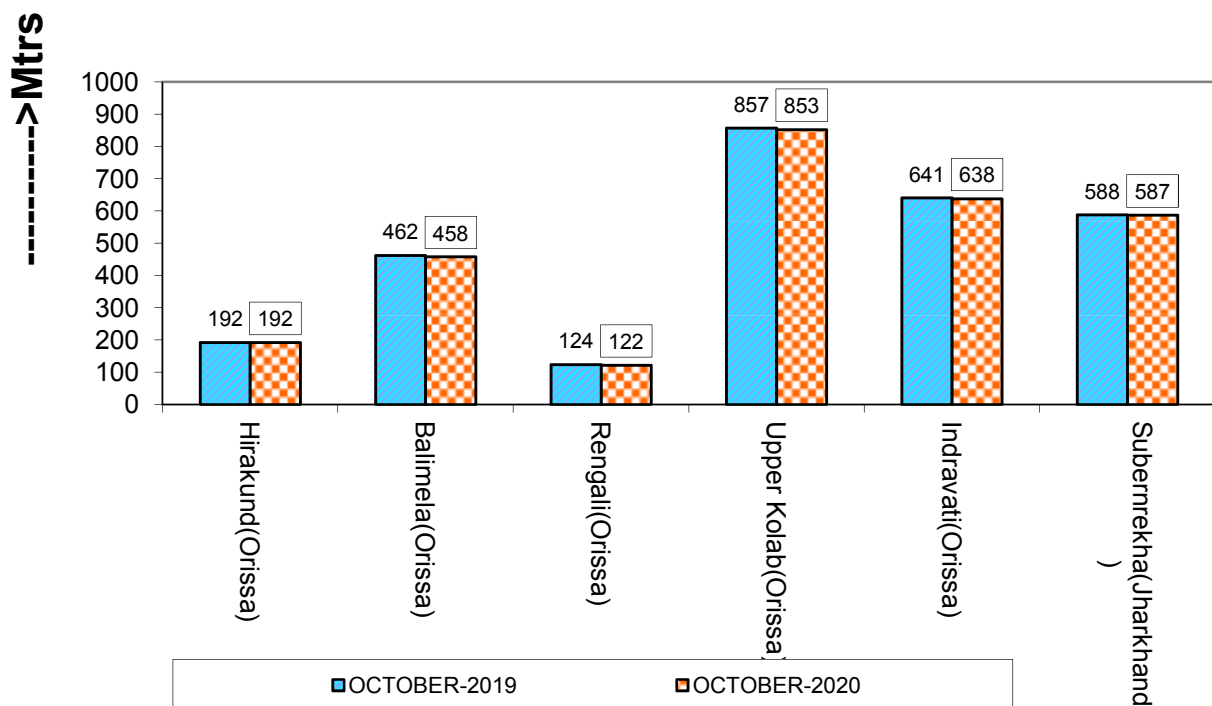


*Includes contribution from HEP of Bhutan

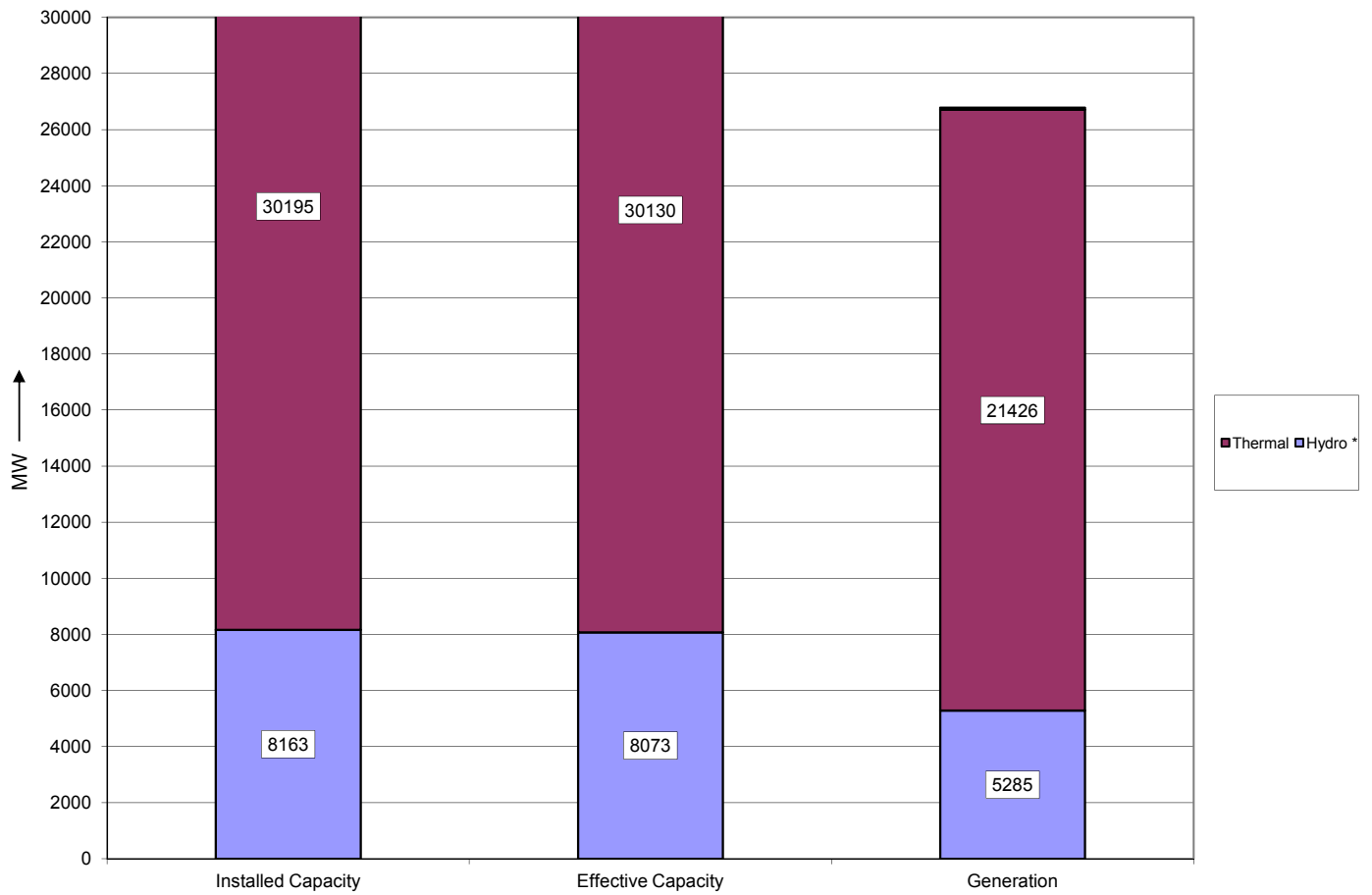
NET ENERGY GENERATION



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

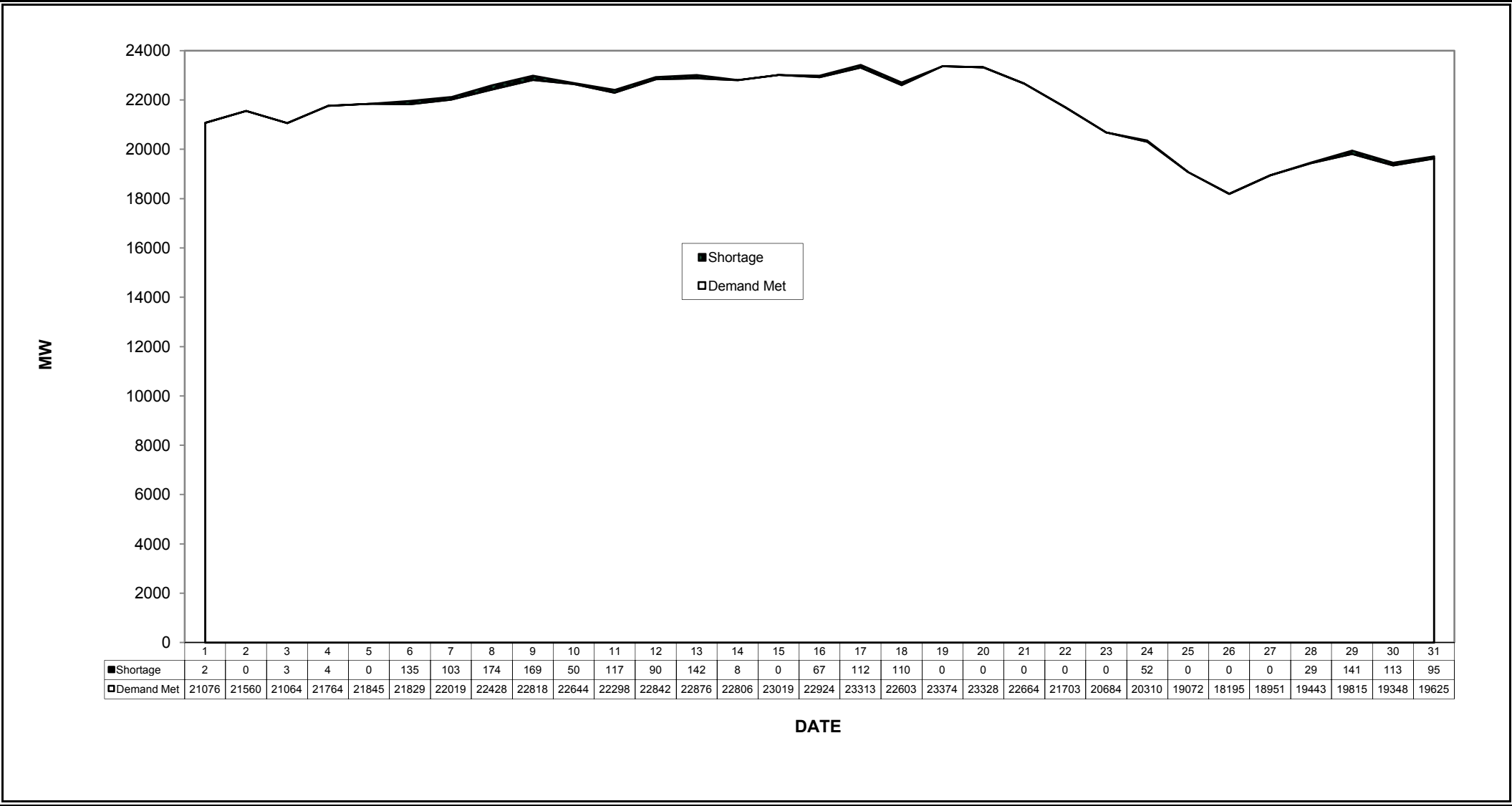


Capacity / Actual Generation Pattern of ER on Peak Day (19-10-2020) at 20.00 hrs.

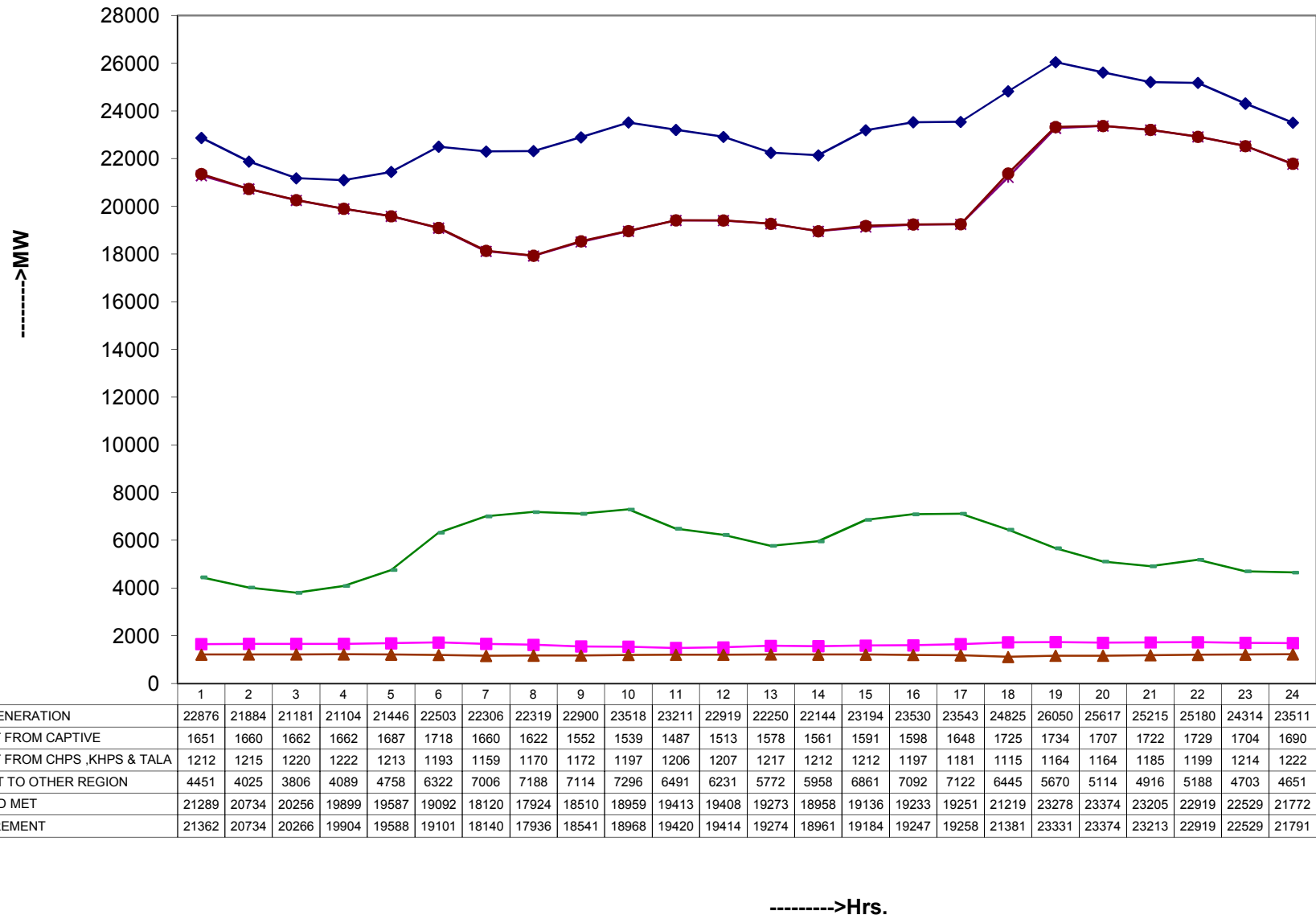


(*)--Includes contribution from HEP of Bhutan (Chukka, Kurichhu & Tala)

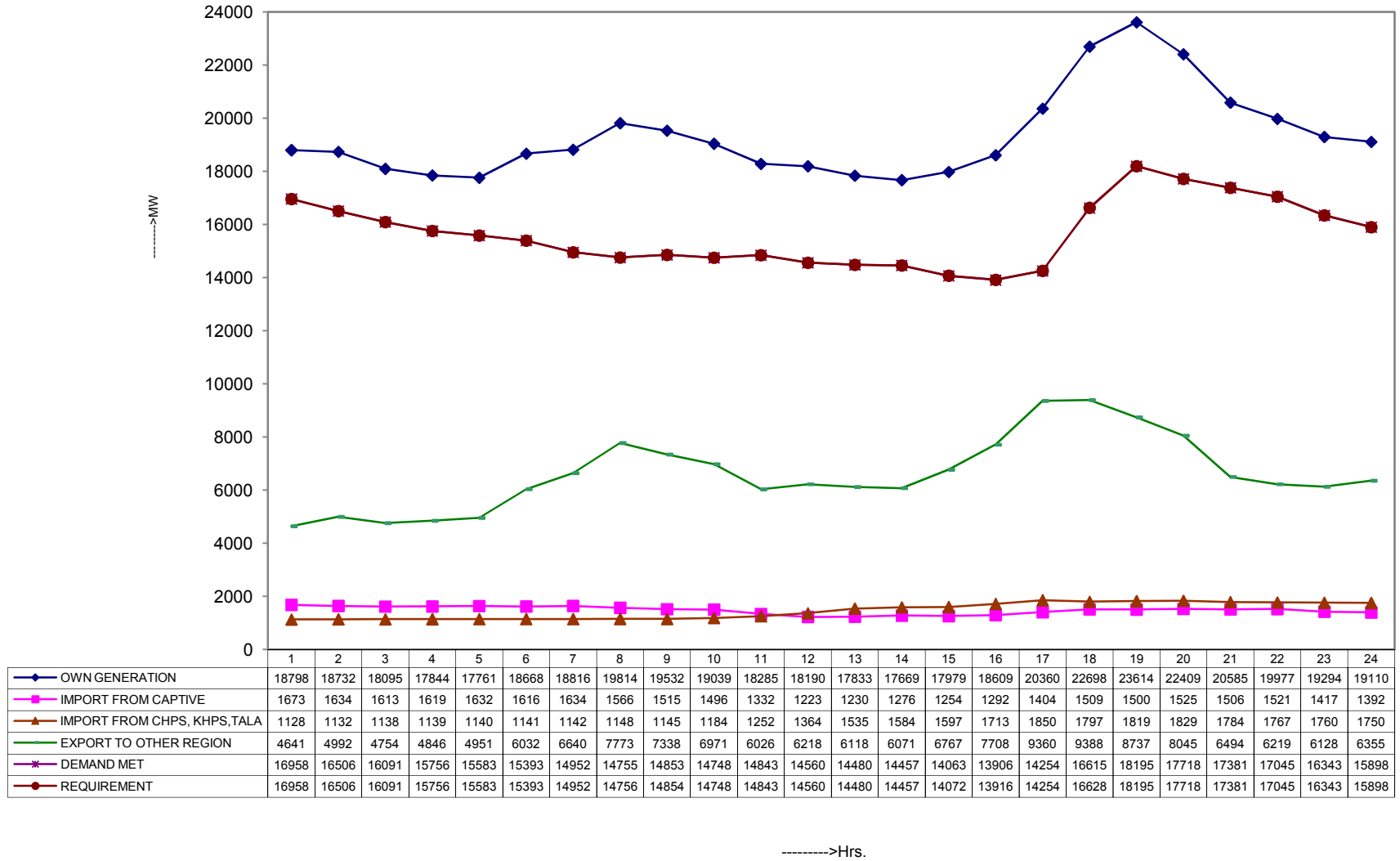
Peak Demand Met / Shortage of Eastern Region For The Month Of OCTOBER'2020



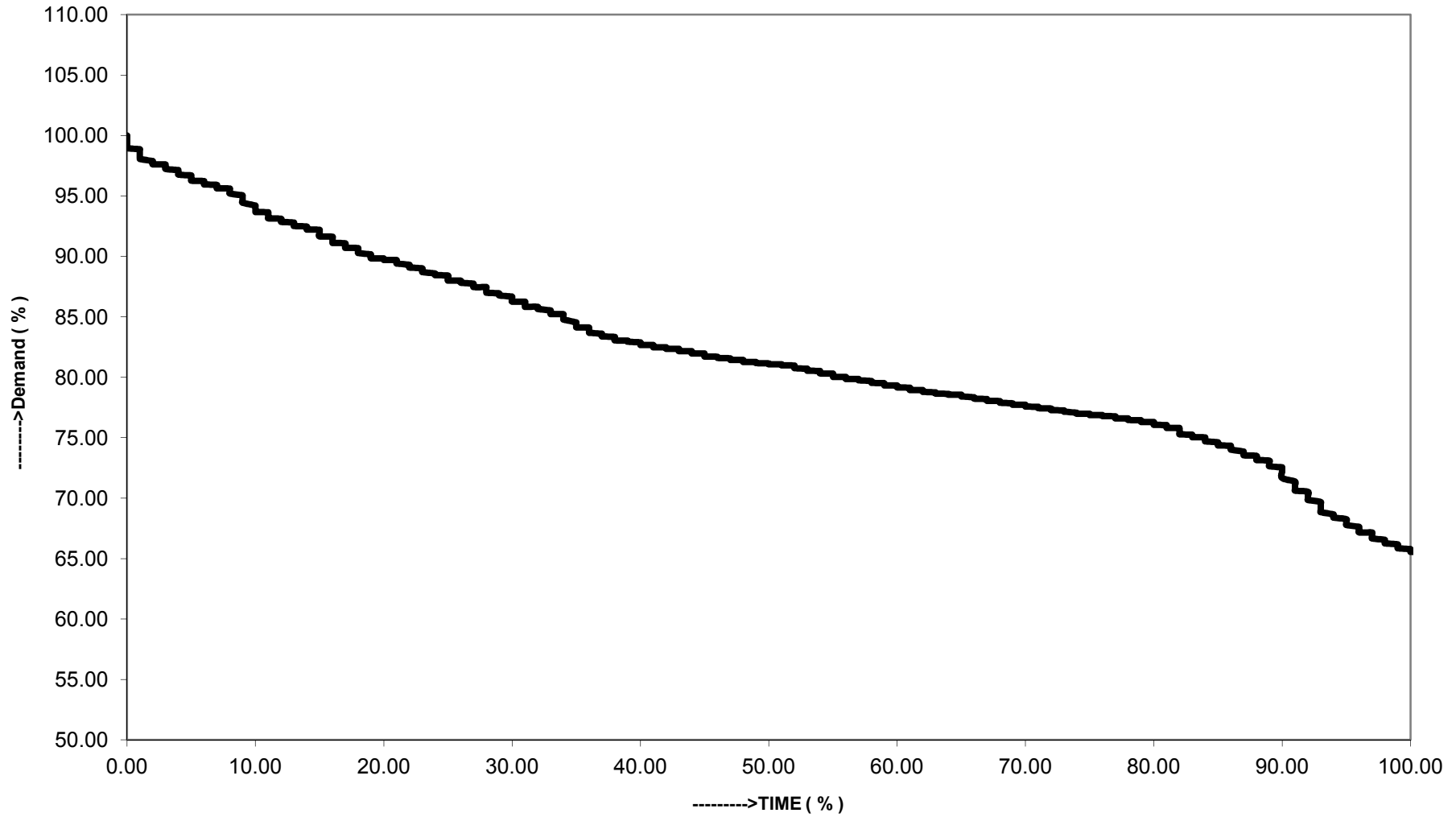
Hourly Load Generation Data OF ER On Regional Peak Day During The Month of OCTOBER'2020 (19-10-2020)



Hourly Load Generation Data of ER On Regional Lean Day During The Month of OCTOBER'2020 (26-10-2020)

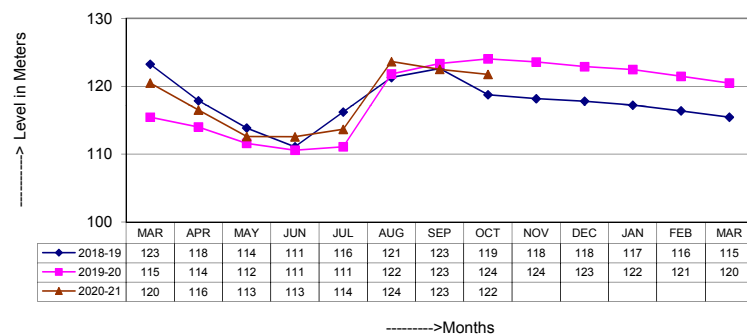


Monthly Load Duration Curve of Eastern Region for OCTOBER-2020

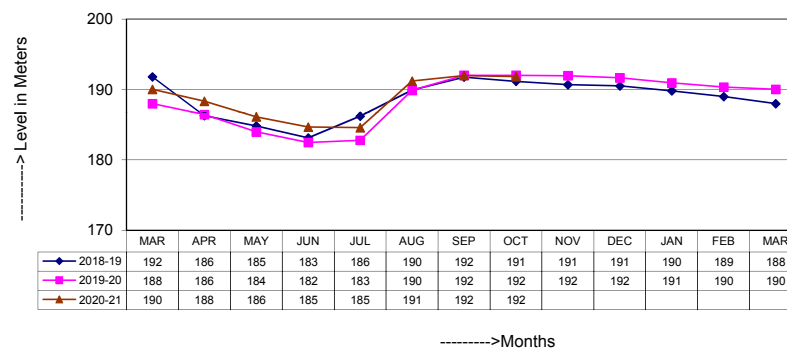
Maximum Demand met : 23374 MW**Minimum Demand met: 13906 MW**

WATER LEVEL IN MAJOR RESERVOIRS ON LAST DATE OF MONTH

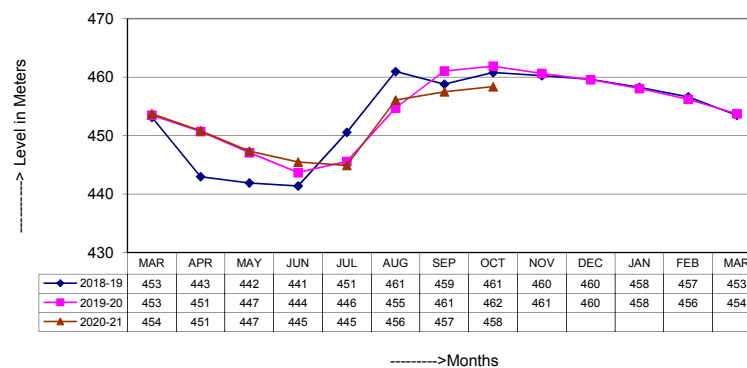
RENGALI RESERVOIR LEVEL



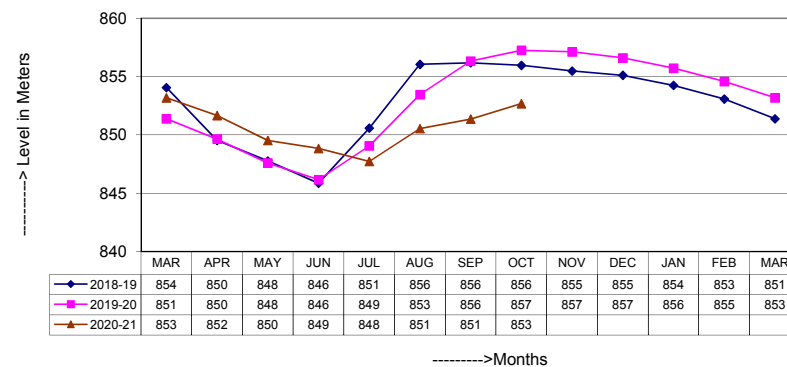
HIRAKUD RESERVOIR LEVEL



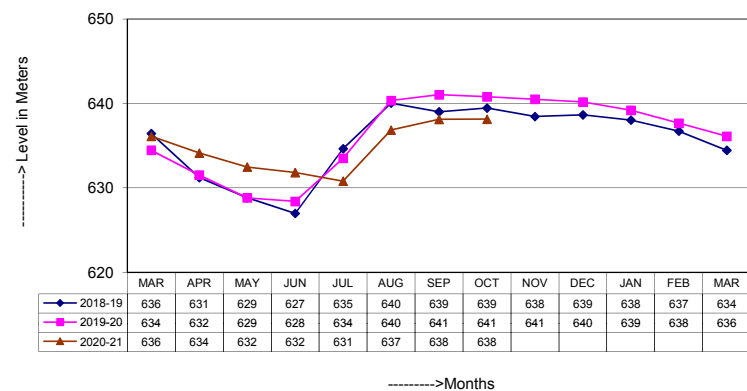
BALIMELA RESERVOIR LEVEL



UPPER KOLAB RESERVOIR LEVEL



INDRAVATI RESERVOIR LEVEL



SUBERNREKHA RESERVOIR LEVEL

