



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

सितंबर-2020

September-2020



14, गोल्फ क्लब रोड, टोलीगंज

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Highlights of Eastern Regional Power System for September-2020

- The **Maximum Net Demand** met of **Eastern Region (ER)** during the month of **Sep, 2020** was **23561 MW** which is 1.88% more than the **Sep, 2019** (23126 MW). Individual **Peak Demand (MW)** of 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 **Sep,2020** was **465.31 MU** excluding export, which is 4.46% more than the corresponding period of last year (445.43 MU).
- The **Average regional PLF of thermal units during the month is 63.69%**, which is 4.43% more than the corresponding period of the last year (**59.26%**).

NTPC (NSTPS) registered the highest **PLF** of 94.82%, followed by DVC (Chandrapura U7#8) 94.69% and DVC (Koderma STPS) 94.16% during the month of **Sep, 2020**.

- **Maximum Net generation** was **27412 MW** against total **Effective Capacity of 39691.26 MW** (including import from Bhutan). At the time of Regional peak (**23561 MW** on 19.09.2020 at 23.00 hrs.) the generation was 26434 MW and import from CPP was 1584 MW, Net export was 4457 MW.
- The system frequency in the IEGC recommended band (49.9 Hz to 50.05 Hz) remained for 84.24% of time during the month. **Average frequency** for the month was **50.00 Hz**. The instantaneous maximum and the minimum frequency touched were 50.20 Hz and 49.64 Hz respectively. The integrated (Fifteen minutes time block average) maximum and minimum frequency were **50.12 Hz** and **49.70 Hz** respectively (**refer Annexure-I**).
- The **Maximum Voltage** recorded **424 KV** at Binaguri 400 KV S/s whereas the minimum voltage recorded 388 KV at Muzzaffarpur 400 KV S/s of Power grid.
- The **Maximum Export from ER to outside region** was **9974 MW** (including Nepal and Bangladesh) on **24th Sep, 2020** at 17:00 hrs. Total net energy export during the month was **4019.48 MU** (Inc.Transmission loss) MU which is corresponds to **23.73 %** of ex-bus total generation **16938.21 MU** of Eastern Region.
- The import from CPPs was **1040.54 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	5433	0	2827.24
WR	0	3935	-1523.19
SR	3684	0	1552.18
NER	1413	172	444.93
BANGLADESH	953		680.41
NEPAL (via-CTU)	189		37.93
Total	9974	3935	4019.48
NEPAL by Bihar(NBPDCL)			5.24

SALIENT FEATURES

(YEAR TO YEAR COMPARISION)

		Sep-20	SEPTEMBER-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)	23617	23276	341	1.46
3)	Peak Demand Met (MW)	23561	23126	435	1.88
4)	Shortage (MW)	56	150	-94	-62.89
5)	% Shortage	0.24	0.64	-0.40	-63.17
6)	Average Energy Requirement Per Day (MU)	465.52	446.6	18.97	4.25
7)	Average Energy Availability Per Day (MU)	465.31	445.4	19.88	4.46
8)	Average Shortage Per Day (MU)	0.20	1.12	-0.92	-81.71
9)	% Shortage	0.04	0.25	-0.21	-82.40
10)	Net Generation for the Month				
	Thermal (MU)	12738.03	11451.37	1286.66	11.24
	Hydro (MU)	4127.65	* 4020.82	106.83	2.66
	RES (MU)	72.53	40.32	0.00	-
	Total (MU)	16938.21	15512.51	1425.70	9.19
11)	Generation at the Time of Max. Regional Demand Met (19-09-20 at 23.00 Hrs.)				
	Thermal (MW)	20053	17981	2072	11.52
	Hydro (MW)	6306	* 6944	-638	-9.19
	RES(MW)	75	56	19	34.00
	Total (MW)	26434	24981	1453	5.82
12)	Inter-Regional Energy Transfer				
	Export (MU)	5542.52	4249.30	1293.22	30.43
	Import (MU)	1523.19	1421.18	102.01	7.18
	Net Exp.(+)/Net Imp.(-) (MU)	4019.33	2828.12	1191.21	42.12
13)	Import From Captive(MU)	1040.54	681.76	358.78	52.63
14)	Peak Inter Regional Power Transfer				
	Max Export (MW) on 24-09-20 at 17.00Hrs	9974	7655	2319	30.29
	Max Import (MW) on 14-09-20 at 24.00Hrs	3935	3631	304	8.38
	Max Net Export(+)/Import (-) (MW)	8902	6566	2336	35.58
15)	Maximum voltage recorded	424	BINAGURI	400 kv s/s	
16)	Minimum voltage recorded	388	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 and individual constituents Demand Met in MW as well as requirement Met in MU is less than the same month of last year due to locked down on account of COVID-19.

POWER SUPPLY POSITION FOR THE MONTH OF SEPTEMBER'2020

A) Net Average Energy Per Day

System	Demand Met (MU/Day)	Requirement (MU/Day)	Shortage (MU/Day)	% Shortage
BSPHCL	111.82	112.16	0.34	0.30
JUVNL	29.22	29.44	0.22	0.74
DVC	62.52	62.54	0.02	0.04
ODISHA	91.85	91.88	0.03	0.04
WBSEDCL	134.84	135.12	0.28	0.21
CESC	32.99	33.00	0.01	0.04
SIKKIM	1.38	1.38	0.00	0.04
REGION	465.31	465.52	0.20	0.04

B) Peak Demand in MW:

System	Demand Met (MW)	Requirement (MW)	Shortage (MW)	% Shortage
BSPHCL	5936	5973	38	0.63
JUVNL	1522	1619	97	5.97
DVC	2933	2934	1	0.02
ODISHA	4575	4582	8	0.17
WBSEDCL	7015	7031	17	0.24
CESC	1744	1744	0	0.0
SIKKIM	91	91	0	0.00
REGION	23561	23617	56	0.24

➤ **DIVERSITY FACTOR** **1.01**

➤ **Regional Peak Demand Met on 19-9-2020 at 23.00 hrs. at 49.93 Hz.**

CONSTITUENT-WISE PERFORMANCE DATA SEPTEMBER-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	131.67	20.20	151.88	0.00	19.92	0.00	19.92	0.00	111.76	20.20	131.96	0.00	3222.68	3354.64	111.8	5936	5972
JUVNL	16.54	170.29	0.00	186.83	0.00	22.85	0.00	22.85	16.54	147.44	0.00	163.98	47.01	665.55	876.53	29.2	1522	1541
DVC	38.91	3359.63	0.00	3398.54	0.16	231.21	0.00	231.37	38.75	3128.42	0.00	3167.17	11.29	-1302.82	1875.65	62.5	2933	3313
ODISHA(OPGC+OHPC+TTPS)	693.17	668.21	37.33	1398.70	4.64	73.39	0.00	78.03	688.52	594.82	37.33	1320.67	876.53	558.22	2755.42	91.8	4575	4697
WBPDC+WBSEDCL+DPL	186.10	2256.57	11.98	2454.66	0.00	197.64	0.00	197.64	186.10	2058.93	11.98	2257.02	105.72	1682.51	4045.24	134.8	7015	7330
CESC	0.00	500.98	0.00	500.98	0.00	38.42	0.00	38.42	0.00	462.56	0.00	462.56	0.00	527.19	989.75	33.0	1744	1803
HEL	0.00	404.67	0.00	404.67	0.00	30.81	0.00	30.81	0.00	373.86	0.00	373.86	0.00	-373.86				
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	39.40	41.40	1.4		
NTPC	0.00	4708.42	1.02	4709.44	0.00	357.11	0.00	357.11	0.00	4351.31	1.02	4352.33	0.00	-4352.33				
MPL	0.00	533.02	0.00	533.02	0.00	33.67	0.00	33.67	0.00	499.35	0.00	499.35	0.00	-499.35				
APNRL	0.00	251.75	0.00	251.75	0.00	19.97	0.00	19.97	0.00	231.78	0.00	231.78	0.00	-231.78				
GMR	0.00	428.31	0.00	428.31	0.00	28.36	0.00	28.36	0.00	399.95	0.00	399.95	0.00	-399.95				
JITPL	0.00	403.62	0.00	403.62	0.00	25.77	0.00	25.77	0.00	377.85	0.00	377.85	0.00	-377.85				
NHPC (Inc TLDP= 178 MU)	585.10	0.00	0.00	585.10	0.00	0.00	0.00	0.00	585.10	0.00	0.00	585.10	0.00	-585.10	0.00			
CHUZACHEN HPS	83.05	0.00	0.00	83.05	0.00	0.00	0.00	0.00	83.05	0.00	0.00	83.05	0.00	-83.05	0.00			
DIKCHU HPS	75.44	0.00	0.00	75.44	0.00	0.00	0.00	0.00	75.44	0.00	0.00	75.44	0.00	-75.44	0.00			
JORHANG HPS	60.53	0.00	0.00	60.53	0.00	0.00	0.00	0.00	60.53	0.00	0.00	60.53	0.00	-60.53	0.00			
TASHIDING HPS	60.58	0.00	0.00	60.58	0.00	0.00	0.00	0.00	60.58	0.00	0.00	60.58	0.00	-60.58	0.00			
TEESTA-III HPS	802.00	0.00	0.00	802.00	0.00	0.00	0.00	0.00	802.00	0.00	0.00	802.00	0.00	-802.00	0.00			
CHPC(Birpara Receipt)	293.71	0.00	0.00	293.71	0.00	0.00	0.00	0.00	293.71	0.00	0.00	293.71	0.00	-293.71	0.00			
KHPS	72.67	0.00	0.00	72.67	0.00	0.00	0.00	0.00	72.67	0.00	0.00	72.67	0.00	-72.67	0.00			
THPS	615.18	0.00	0.00	615.18	0.00	0.00	0.00	0.00	615.18	0.00	0.00	615.18	0.00	-615.18	0.00			
DAGACHU HPS	79.26	0.00	0.00	79.26	0.00	0.00	0.00	0.00	79.26	0.00	0.00	79.26	0.00	-79.26	0.00			
Mangdechhu HEP	470.22	0.00	0.00	470.22	0.00	0.00	0.00	0.00	470.22	0.00	0.00	470.22	0.00	-470.22	0.00			
Total Drawal by HVDC Sahsaram,Alipurduar														20.63	20.63			
Total	4132.46	13817.14	72.53	18022.13	4.81	1079.12	0.00	1083.92	4127.65	12738.02	72.53	16938.21	1040.54	-4019.48	13959.27	465.3	23561	24464

3A

16938.21

13959.27

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	391.33	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 (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	-	-	-	-	-
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 SEPTEMBER -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	-1.14	22.93	10.62
		Barauni (U# 8)	250.00	250.00	131.67	114.40	717.68	630.41
		Muzaffarpur Stg-I	220.00	220.00	0.00	-1.50	38.58	25.17
		Thermal Total	690.00	680.00	131.67	111.76	779.19	666.20
	RES		341.25	341.25	20.20	20.20	123.74	123.74
		Total BIHAR	1031.25	1021.25	151.88	131.96	902.94	789.94
JHARKHAND								
TVNL	Thermal	TVNL	420.00	420.00	170.29	147.44	1134.56	991.70
JSEB	Hydro	Subarnrekha (U#1,2)	130.00	130.00	16.54	16.54	45.94	45.94
	RES		46.75	46.75	0.00	0.00	0.00	0.00
	Total	176.75	176.75	16.54	16.54	45.94	45.94	
DVC	Thermal	Bokaro-B(3)	210.00	210.00	0.00	-0.58	10.87	6.66
		Chandrapura(U7 # 8)	500.00	500.00	340.88	309.74	1596.42	1439.08
		Durgapur(4)	210.00	210.00	0.71	-0.10	0.71	-1.96
		Mezia(1,2,3,4,5,6)	1340.00	1340.00	619.99	558.21	2653.52	2375.28
		Mezia(U # 7,8)	1000.00	1000.00	589.10	556.33	2638.45	2487.09
		Bokaro-A(1)	500.00	500.00	267.97	253.57	1525.50	1438.42
		Durgapur STPS (U#1,2)	1000.00	1000.00	532.50	500.82	2634.24	2468.29
		Raghunathpur TPS (U#1,2)	1200.00	1200.00	330.55	307.93	2210.79	2066.86
		Koderma STPS (U#1,2)	1000.00	1000.00	677.93	642.51	3492.74	3301.35
	Total Thermal	6960.00	6960.00	3359.63	3128.43	16763.26	15578.72	
	Hydro	Maithon (U#1,2,3)	63.20	63.20	15.93	15.89	132.20	131.98
		Panchet (U#1,2)	80.00	80.00	22.97	22.86	126.53	125.97
		Tilaya (U#1,2)	4.00	4.00	0.01	0.0	1.56	1.5
		Hydro Total	147.20	147.20	38.91	38.75	260.30	259.45
		Total DVC	7107.20	7107.20	3398.54	3167.18	17023.55	15838.17
WEST BENGAL								
WBPDCCL	Thermal	Bandel TPS	380.00	335.00	128.56	116.71	474.72	422.63
		Santalidih TPS(U#5&6)	500.00	500.00	208.38	189.04	1486.70	1356.28
		Kolaghat TPS	1260.00	1260.00	118.42	100.81	715.96	609.81
		Bakreswar TPP	1050.00	1050.00	675.05	614.74	3565.36	3243.12
		Sagardighi TPP	1600.00	1600.00	868.95	807.60	4469.42	4153.18
		DPPS (300+250 *)	550.00	550.00	257.21	230.03	1270.93	1139.64
		Thermal Total	5340.00	5295.00	2256.57	2058.93	11983.08	10924.67
WBSEDCL	Hydro	Jaldhaka (3x9+2x4)	35.00	35.00	23.15	23.15	114.98	114.98
		Ramam (4x12.73)	51.00	51.00	36.47	36.47	165.64	165.64
		Teesta C.F. (3x3x7.5)	67.50	67.50	10.26	10.26	14.99	14.99
		Purulia PSS (4x225)	900.00	900.00	116.22	116.22	605.84	605.84
		Total Hydro	1053.50	1053.50	186.10	186.10	901.45	901.45
		RES	527.29	527.29	11.98	11.98	64.34	64.34
➤		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 SEPTEMBER -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	3.82	3.46	4.10	3.70
		Budge-Budge (3x250)	750.00	750.00	497.15	459.10	2864.69	2642.22
		Total CESC	1125.00	1125.00	500.98	462.56	2868.79	2645.92
HEL	Thermal	HEL	600.00	600.00	404.67	373.86	2216.01	2044.62
		Total West Bengal	8645.79	8600.79	3360.30	3093.44	18033.67	16581.01
ODISHA (NTPC)	Thermal	Talcher-I	250.00	240.00	116.41	103.10	947.59	841.46
		Talcher-II	220.00	220.00	152.88	135.40	879.06	780.48
		Total Thermal	470.00	460.00	269.28	238.49	1826.65	1621.94
OPGC	Thermal	IB TPS	420.00	420.00	160.61	140.53	1287.77	1133.90
		IB TPS U#3(660 MW)	660.00	660.00	35.81	32.43	1308.98	1221.63
		IB TPS U#4(660 MW)	660.00	660.00	202.51	183.37	1722.86	1602.96
OHPC	Hydro	Hirakud-I (Burla)	275.50	275.50	78.39	78.15	376.41	374.96
		Hirakud-II (Chiplima)	72.00	72.00	37.43	37.32	185.12	183.62
		Balimela (6x60+2x75)	510.00	510.00	150.19	149.62	966.77	963.77
		Rengali (5x50)	250.00	250.00	164.90	164.77	677.31	675.79
		Upper Kolab (4x80)	320.00	320.00	59.36	59.25	489.36	488.16
		Indravati HPS (4x150)	600.00	600.00	175.41	171.93	1074.25	1049.47
		Mckd.(Odisha drawal)	57.38	57.38	27.49	27.49	146.26	146.26
		Total Hydro	2084.88	2084.88	693.17	688.52	3915.47	3882.02
		RES	511.21	511.21	37.33	37.33	285.13	285.13
		Total Odisha	4806.09	4796.09	1398.70	1339.81	10346.87	9766.72
(**) SIKKIM	Hydro	RES	52.18	52.18	2.00	2.00	10.00	10.00
NTPC		MTPS Stg-II	390.00	390.00	97.145	84.47	923.79	820.75
		FSTPP# I&II (3x200+2x500)	1600.00	1600.00	718.61	656.09	3934.13	3592.98
		FSTPP (U# 6)	500.00	500.00	249.47	229.91	1465.73	1346.47
		KhSTPP (4x210+3x500)	2340.00	2340.00	1030.05	943.08	6670.57	6123.97
		TSTPP (2x500)	1000.00	1000.00	630.71	579.90	3841.41	3544.84
		BARH STPS II (2X660)	1320.00	1320.00	721.77	679.46	3264.12	3047.74
		BRBCL # I,2,3(3X250 MW)	750	750	309.39	283.29	1697.89	1544.63
		NSTPS	660.00	660.00	450.57	424.73	2514.49	2382.90
		DSTPP	800.00	800.00	500.72	470.38	1751.21	1612.55
		Total NTPC	9360.00	9360.00	4708.43	4351.31	26063.33	24016.83
NHPC	HYDRO	Rangit (3x20)	60.00	60.00	36.61	36.61	176.32	176.32
		Teesta (3x170)	510.00	510.00	370.50	370.50	1968.64	1968.64
		TLDP -(4x33+4x40)	292.00	292.00	178.00	178.00	883.17	883.17
		Total NHPC	862.00	862.00	585.10	585.10	3028.13	3028.13
		MPL (U#1&2)	1050.00	1050.00	533.02	499.35	3132.14	2932.70
		APNRL (U#1,2)	540.00	540.00	251.75	231.78	1417.93	1304.50
		GMR (2x350)	700.00	700.00	428.31	399.95	2183.72	2034.00
		JITPL (2X600)	1200.00	1200.00	403.62	377.85	2783.19	2605.79
		CHUZACHEN** (2x55)	110.00	110.00	83.05	83.05	385.71	385.71
		JORETHANG (2x48)	96.00	96.00	60.53	60.53	276.65	276.65
		TEESTA URJA St III (6x200)	1200.00	1200.00	802.00	802.00	4403.72	4403.72
		Tashilding (2x48.5)	97.00	97.00	60.58	60.58	294.25	294.25
		DICKCHU (2x48)	96.00	96.00	75.44	75.44	369.61	369.61
		TALCHER SOLAR	10.00	10.00	1.02	1.02	6.44	6.44
		Total Thermal (E.R)	30195.00	30130.00	13817.15	12738.03	77471.47	71326.08
		Total Hydro (E.R)	5876.58	5876.58	2601.42	2596.62	13881.23	13846.93
		Total RES	1488.68	1488.68	72.53	72.53	489.65	489.65
		TOTAL (E.R)		37560.26	37495.26	16491.11	15407.18	91842.35
BHUTAN	Hydro	CHPC(4x90)	360.00	270.00	293.71	293.71	1456.15	1456.15
	Hydro	Kurichu (4x15)	60.00	60.00	72.67	72.67	319.94	319.94
	Hydro	TALA (6x170)	1020.00	1020.00	615.18	615.18	2609.44	2609.44
	Hydro	DAGACHU (2x63)	126.00	126.00	79.26	79.26	349.94	349.94
	MANGDECHU(4x180)		720.00	720.00	470.22	470.22	2419.30	2419.30
	Grand Total		39846.26	39691.26	18022.14	16938.21	98997.13	92817.44

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

ORGANI- SATION	TYPE	POWER STATION	INSTALLED	EFFECTIVE	Gross	PLF	Cummulative Gross	Cummulative PLF
			CAPACITY	CAPACITY	Energy	of Current	Energy Generation	
			(in MW)	(in MW)	Generation in MU	Month (%)	upto Current Month (2020-21) in MU	upto Current Month (%)
BIHAR	Thermal	Barauni (U# 6,7)	220.00	210.00	0.00	0.00	22.93	2.49
		Barauni (U# 8)	250.00	250.00	131.67	73.15	717.68	65.36
		Muzaffarpur Stg-I	220.00	220.00	0.00	0.00	38.58	3.99
		Thermal Total	690.00	680.00	131.67	26.89	779.19	26.09
	RES		341.25	341.25	20.20		123.74	
		Total BIHAR	1031.25	1021.25	151.88		902.94	
JHARKHAND								
TVNL	Thermal	TVNL	420.00	420.00	170.29	56.31	1134.56	61.51
JSEB	Hydro	Subarnrekha (U#1,2)	130.00	130.00	16.54		45.94	
	RES		46.75	46.75	0.00		0.00	
	Total		176.75	176.75	16.54		45.94	
DVC	Thermal	Bokaro-B(3)	210.00	210.00	0.00	0.00	10.87	1.18
		Chandrapura(U7 # 8)	500.00	500.00	340.88	94.69	1596.42	72.70
		Durgapur(4)	210.00	210.00	0.00	0.47	0.71	0.08
		Mezia(1,2,3,4,5,6)	1340.00	1340.00	619.99	64.26	2653.52	45.09
		Mezia(U # 7,8)	1000.00	1000.00	589.10	81.82	2638.45	60.07
		Bokaro-A(1)	500.00	500.00	267.97	74.44	1525.50	69.47
		Durgapur STPS (U#1,2)	1000.00	1000.00	532.50	73.96	2634.24	59.98
		Raghunathpur TPS (U#1,2)	1200.00	1200.00	330.55	38.26	2210.79	41.95
		Koderma STPS (U#1,2)	1000.00	1000.00	677.93	94.16	3492.74	79.53
	Total Thermal	6960.00	6960.00	3359.63	67.04	16763.26	54.84	
	Hydro	Maithon (U#1,2,3)	63.20	63.20	15.93		132.20	
		Panchet (U#1,2)	80.00	80.00	22.97		126.53	
		Tilaya (U#1,2)	4.00	4.00	0.01		1.56	
		Hydro Total	147.20	147.20	38.91		260.30	
		Total DVC	7107.20	7107.20	3398.54		17023.55	
WEST BENGAL								
WBPDC	Thermal	Bandel TPS	380.00	335.00	128.56	53.30	474.72	32.27
		Santalidih TPS(U#5&6)	500.00	500.00	208.38	57.88	1486.70	67.70
		Kolaghat TPS	1260.00	1260.00	118.42	13.05	715.96	12.94
		Bakreswar TPP	1050.00	1050.00	675.05	89.29	3565.36	77.31
		Sagardighi TPP	1600.00	1600.00	868.95	75.43	4469.42	63.60
		DPPS (300+250 *)	550.00	550.00	257.21	64.95	1270.93	52.61
		Thermal Total	5340.00	5295.00	2256.57	59.19	11983.08	51.53
WBSEDCL	Hydro	Jaldhaka (3x9+2x4)	35.00	35.00	23.15		114.98	
		Ramam (4x12.73)	51.00	51.00	36.47		165.64	
		Teesta C.F. (3x3x7.5)	67.50	67.50	10.26		14.99	
		Purulia PSS (4x225)	900.00	900.00	116.22		605.84	
		Total Hydro	1053.50	1053.50	186.10		901.45	
		RES	527.29	527.29	11.98		64.34	
	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 SEPTEMBER' 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	3.82	3.93	4.10	0.69
		Budge-Budge (3x250)	750.00	750.00	497.15	92.07	2864.69	86.97
		Total CESC	1125.00	1125.00	500.98	61.85	2868.79	58.06
HEL	Thermal		600.00	600.00	404.67	93.67	2216.01	84.09
		Total West Bengal	8645.79	8600.79	3360.30		18033.67	
ODISHA (NTPC)	Thermal	Talcher-I	250.00	240.00	116.41	67.36	947.59	89.90
		Talcher-II	220.00	220.00	152.88	96.51	879.06	90.98
		Total Thermal	470.00	460.00	269.28	81.30	1826.65	90.41
OPGC	Thermal	IB TPS	420.00	420.00	160.61	53.11	1287.77	69.81
		IB TPS U#3(660 MW)	660.00	660.00	35.81	7.54	1308.98	45.16
		IB TPS U#4(660 MW)	660.00	660.00	202.51	44.09	1722.86	59.44
OHPC	Hydro	Hirakud-I (Burla)	275.50	275.50	78.39		376.41	
		Hirakud-II (Chiplima)	72.00	72.00	37.43		185.12	
		Balimela (6x60+2x75)	510.00	510.00	150.19		966.77	
		Rengali (5x50)	250.00	250.00	164.90		677.31	
		Upper Kolab (4x80)	320.00	320.00	59.36		489.36	
		Indravati HPS (4x150)	600.00	600.00	175.41		1074.25	
		Mckd.(Odisha drawal)	57.38	57.38	27.49		146.26	
		Total Hydro	2084.88	2084.88	693.17		3915.47	
		RES	511.21	511.21	37.33		285.13	
		Total Odisha	4806.09	4796.09	1398.70		10346.87	
(**) SIKKIM	Hydro	RES	52.18	52.18	2.00		10.00	
NTPC		MTPS Stg-II	390	390	97.145	34.60	923.79	53.93
		FSTPP# I&II (3x200+2x500)	1600.00	1600.00	718.61	62.38	3934.13	55.98
		FSTPP (U# 6)	500.00	500.00	249.47	69.30	1465.73	66.75
		KhSTPP (4x210+3x500)	2340.00	2340.00	1030.05	61.14	6670.57	64.91
		TSTPP (2x500)	1000.00	1000.00	630.71	87.60	3841.41	87.46
		BARH STPS II (2X660)	1320.00	1320.00	721.77	75.94	3264.12	56.30
		BRBCL # I,2,3(3X250 MW)	750.00	750.00	309.39	57.29	1697.89	51.54
		NSTPS	660.00	660.00	450.57	94.82	2514.49	86.74
		DSTPP	800.00	800.00	500.72	86.93	1751.21	49.84
		Total NTPC	9360.00	9360.00	4708.43	76.40	26063.33	63.40
NHPC	HYDRO	Rangit (3x20)	60.00	60.00	36.61		176.32	
		Teesta (3x170)	510.00	510.00	370.50		1968.64	
		TLDP -(4x33+4x40)	292.00	292.00	178.00		883.17	
		Total NHPC	862.00	862.00	585.10		3028.13	
	Thermal	MPL (U#1&2)	1050.00	1050.00	533.02	70.51	3132.14	67.92
		APNRL (U#1,2)	540.00	540.00	251.75	64.75	1417.93	59.79
		GMR (2x350)	700.00	700.00	428.31	84.98	2183.72	71.03
		JITPL (2X600)	1200.00	1200.00	403.62	46.72	2783.19	52.81
		CHUZACHEN** (2x55)	110.00	110.00	83.05		385.71	
		JORETHANG (2x48)	96.00	96.00	60.53		276.65	
		TEESTA URJA St III (6x200)	1200.00	1200.00	802.00		4403.72	
		Tashilding (2x48.5)	97.00	97.00	60.58		294.25	
		DICKCHU (2x48)	96.00	96.00	75.44		369.61	
		TALCHER SOLAR	10.00	10.00	1.02		6.44	
EASTERN REGIONAL		Total Thermal (E.R)	30195.00	30130.00	13817.15	63.69	77471.47	58.54
		Total Hydro (E.R)	5876.58	5876.58	2601.42		13881.23	
		Total RES	1488.68	1488.68	72.53		489.65	
		TOTAL (E.R)	37560.26	37495.26	16491.11		91842.35	
BHUTAN	Hydro	CHPC(4x90)	360.00	270.00	293.71		1456.15	
	Hydro	Kurichu (4x15)	60.00	60.00	72.67		319.94	
	Hydro	TALA (6x170)	1020.00	1020.00	615.18		2609.44	
	Hydro	DAGACHU (2x63)	126.00	126.00	79.26		349.94	
		MANGDECHU(4x180)	720.00	720.00	470.22		2419.30	
Grand Total			39846.26	39691.26	18022.14		98997.13	

CONTRIBUTIONS OF DIFFERENT CONSTITUENTS AT THE TIME OF REGIONAL PEAK
DURING THE MONTH OF SEPTEMBER'2020 (19-9-2020)

Date **19-Sep-20**
Time **23.00** Hrs.
Frequency **49.93** Hz.

(All Fig. in MW)

System/State	Installed Capacity	Effective Capacity	Hydro	Thermal	RES	Total
BSPHCL	1031	1021	0	199	0	199
JUVNL	597	597	52	236	0	288
DVC	7107	7107	96	4662	0	4758
ODISHA	4806	4796	1317	912	75	2304
WBSEDCL	6371	6326	620	3000	0	3620
TLDP	292	292	0	0	0	0
HEL HALDIA	600	600	0	549	0	549
CESC	1125	1125	0	697	0	697
DPL	550	550	0	0	0	0
SIKKIM	52	52	0	0	0	0
NTPC	9360	9360	0	7220	0	7220
NHPC	570	570	588	0	0	588
CHUKHA	360	270	418	0	0	418
KURICHU	60	60	112	0	0	112
TALA	1020	1020	876	0	0	876
MPL	1050	1050	0	977	0	977
OPGC (660 MW)	0	0	0	0	0	0
APNRL	540	540	0	376	0	376
Kamalganga (GMR)	700	700	0	664	0	664
JITPL	1200	1200	0	563	0	563
Chuzachen	110	110	119	0	0	119
Jorethang	96	96	99	0	0	99
TEESTA URJA St III	1200	1200	1050	0	0	1050
Tashilding	97	97	97	0	0	97
DICKCHU	96	96	109	0	0	109
<u>Daghachu</u>	126	126	97	0	0	97
<u>Solar</u>	10	10	0	0	0	0
<u>Mangdechhu</u>	720	720	656	0	0	656
<u>Total</u>	39846	39691	6306	20053	75	26434
Import From Captive:						1584
Export To:						
NER						825
SR						2026
WR						-2956
NR						3573
Bangladesh						941
Nepal						47
Total						4457

➤ I Net Peak Demand Met (MW) :

23561

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

Hourly Load Generation Data OF ER On Regional Peak Day During The Month of SEPTEMBER'2020 (19-9-2020)

(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	3647	19499	23146	1510	2313	6015	20954	20	0	20974
2	3217	19518	22735	1536	2304	6002	20574	18	0	20592
3	3164	19023	22187	1470	2282	5771	20168	32	0	20200
4	3194	18980	22175	1472	2266	5954	19959	23	0	19982
5	3148	18666	21814	1462	2254	5848	19681	29	0	19711
6	3176	18418	21594	1497	2220	6170	19140	32	0	19172
7	3220	17475	20695	1529	2203	6360	18067	8	0	18075
8	3262	17298	20560	1527	2195	6306	17976	9	4	17990
9	3155	17573	20728	1478	2187	6069	18323	-5	10	18328
10	3080	17586	20666	1420	2100	5610	18576	-10	8	18584
11	3110	17500	20609	1411	2037	5147	18911	12	10	18933
12	3278	17594	20872	1382	2113	5103	19264	64	68	19396
13	3325	18165	21490	1461	2193	5881	19263	61	8	19332
14	3348	18546	21894	1414	2136	6071	19372	14	5	19390
15	3368	18607	21976	1444	2136	5747	19808	17	2	19828
16	3226	18466	21691	1500	2122	5381	19931	14	31	19976
17	3300	18477	21777	1506	2109	5686	19705	41	66	19813
18	3118	18649	21767	1511	2094	5752	19620	69	66	19754
19	4509	19704	24213	1536	2079	5132	22696	175	89	22960
20	4538	20109	24646	1549	2114	4781	23528	39	89	23656
21	4480	19951	24431	1555	2139	4778	23347	10	89	23446
22	4548	19970	24518	1608	2151	4892	23385	39	0	23424
23	4221	20053	24274	1584	2160	4457	23561	56	0	23617
24	3702	19971	23673	1562	2166	4222	23179	47	0	23225

Hourly Load Generation Data of ER On Regional Lean Day During The Month of SEPTEMBER'2020 (2-9-2020)

(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	4032	17731	21763	1172	1959	6573	18320	-3	31	18348
2	3393	17135	20528	1090	1962	5791	17789	12	31	17832
3	3250	16695	19944	1126	1968	5288	17750	19	31	17800
4	3104	17005	20109	1110	1968	5824	17363	0	31	17394
5	3144	16717	19861	1165	1964	5819	17172	6	31	17209
6	3222	16629	19851	1297	1943	6482	16609	23	31	16664
7	3610	16525	20135	1316	1934	7252	16133	6	44	16183
8	3940	17353	21293	1288	1933	8205	16309	29	38	16375
9	3875	17514	21389	1266	1945	8113	16488	56	51	16595
10	3814	18210	22023	1247	1943	8093	17120	36	38	17194
11	3965	18098	22062	1231	1935	7611	17617	18	34	17670
12	3826	18129	21954	1222	1931	7437	17670	42	255	17967
13	3697	18214	21911	1222	1931	6937	18127	-8	22	18141
14	3697	18045	21741	1250	1939	6876	18054	-14	21	18061
15	3764	18109	21873	1287	1849	7145	17864	16	22	17901
16	3953	18112	22065	1285	1883	7263	17970	14	21	18005
17	4008	17852	21859	1327	1929	7722	17393	-2	287	17679
18	3977	17388	21365	1380	1959	6971	17734	26	21	17782
19	4963	18469	23432	1412	1938	5828	20955	66	30	21052
20	5156	18965	24121	1454	1956	5926	21606	125	107	21837
21	5114	18899	24012	1416	1981	5673	21737	51	68	21856
22	5135	18821	23956	1433	1987	5665	21712	23	68	21803
23	5110	18566	23676	1435	1993	5688	21415	45	35	21495
24	4587	18435	23022	1438	1844	5560	20744	64	35	20843

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

FOR THE MONTH OF SEPTEMBER'2020

POWER CUT / RESTRICTIONS

BSPHCL	NO NOTIFIED CUTS/RESTRICTIONS However there was loadshedding of 8.97 MU
JUVNL	NO NOTIFIED CUTS/RESTRICTIONS However there was loadshedding of 6.23 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 6.98 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

Sep-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-Sep	49.99	50.01	49.98	50.00	49.97	49.99	5.30	83.40	11.20	83.40	50.16	06:02:50	49.81	16:39:00	50.07	0:00	49.87	0:00
02-Sep	49.99	49.95	49.98	49.92	49.93	49.96	13.30	81.10	5.60	81.10	50.13	13:02:40	49.68	18:54:30	50.08	0:00	49.78	0:00
03-Sep	49.98	50.00	49.98	49.93	49.99	49.98	7.30	83.50	9.20	83.50	50.15	06:02:10	49.69	19:11:30	50.06	0:00	49.75	0:00
04-Sep	50.00	50.02	49.98	49.99	49.95	49.99	3.22	83.73	13.06	83.73	50.17	18:00:29	49.74	19:12:49	50.06	0:00	49.83	0:00
05-Sep	49.99	49.99	50.01	50.02	50.00	50.00	1.20	81.60	17.20	81.60	50.18	17:06:30	49.84	22:12:50	50.12	0:00	49.92	0:00
06-Sep	49.99	50.02	50.00	50.01	50.01	50.01	1.00	79.00	20.00	79.00	50.19	06:04:00	49.85	10:33:30	50.11	0:00	49.89	0:00
07-Sep	50.02	50.00	49.99	49.98	50.00	50.00	2.20	87.00	10.80	87.00	50.16	13:01:50	49.85	11:18:20	50.06	0:00	49.91	0:00
08-Sep	49.99	50.00	49.98	49.90	49.94	49.96	14.36	81.22	4.42	81.22	50.17	06:03:50	49.69	21:06:50	50.07	0:00	49.77	0:00
09-Sep	49.97	49.99	49.99	50.01	50.00	49.99	1.00	88.00	11.10	88.00	50.15	22:02:30	49.87	14:28:30	50.07	0:00	49.90	0:00
10-Sep	50.00	50.02	49.99	50.01	50.02	50.01	0.80	82.30	16.90	82.30	50.16	20:02:50	49.82	00:20:40	50.08	0:00	49.91	0:00
11-Sep	50.00	50.00	50.01	50.00	50.01	50.01	0.20	86.50	13.30	86.50	50.12	13:02:30	49.89	12:27:10	50.06	0:00	49.93	0:00
12-Sep	50.00	50.01	50.00	49.98	50.00	50.00	1.80	84.50	13.70	84.50	50.15	15:05:10	49.82	18:08:20	50.09	0:00	49.91	0:00
13-Sep	49.99	50.01	50.01	49.99	50.01	50.01	0.30	83.80	15.90	83.80	50.15	10:02:50	49.87	00:04:30	50.11	0:00	49.96	0:00
14-Sep	50.01	49.96	49.99	49.99	50.03	49.99	4.60	82.40	13.00	82.40	50.11	12:01:10	49.83	15:20:20	50.07	0:00	49.90	0:00
15-Sep	49.99	50.00	50.00	49.97	49.98	49.99	3.00	86.60	10.40	86.60	50.13	13:04:30	49.82	21:06:50	50.06	0:00	49.88	0:00
16-Sep	50.00	49.99	49.98	50.00	50.02	49.99	2.20	87.30	10.50	87.30	50.12	11:00:40	49.86	13:45:00	50.07	0:00	49.89	0:00
17-Sep	49.97	50.01	50.00	50.02	50.03	50.00	0.63	82.64	16.73	82.64	50.14	06:01:50	49.79	04:10:20	50.09	0:00	49.92	0:00
18-Sep	50.02	49.99	50.01	49.97	49.99	50.00	2.23	83.84	13.93	83.84	50.13	14:02:40	49.65	17:43:50	50.09	0:00	49.90	0:00
19-Sep	49.97	49.99	49.95	49.91	49.94	49.95	14.20	80.60	5.20	80.60	50.13	10:01:00	49.83	18:26:40	50.05	0:00	49.70	0:00
20-Sep	49.99	50.01	49.99	49.99	50.01	49.99	3.50	86.20	10.30	86.20	50.12	22:01:20	49.82	14:39:40	50.06	0:00	49.90	0:00
21-Sep	49.99	49.98	50.00	49.99	50.00	49.99	4.43	82.74	12.83	82.74	50.15	07:02:30	49.82	17:39:30	50.07	0:00	49.87	0:00
22-Sep	49.99	50.00	49.98	50.00	50.02	50.00	1.70	84.80	13.50	84.80	50.14	13:22:10	49.81	13:53:00	50.08	0:00	49.87	0:00
23-Sep	50.01	50.00	49.99	49.99	49.99	49.99	3.80	87.20	9.00	87.20	50.12	11:00:20	49.81	18:14:20	50.08	0:00	49.89	0:00
24-Sep	50.00	49.98	49.96	49.93	49.99	49.97	10.60	84.30	5.10	84.30	50.11	16:03:00	49.64	18:50:40	50.05	0:00	49.70	0:00
25-Sep	49.98	49.95	50.00	50.01	50.03	49.99	3.01	84.32	12.67	84.32	50.14	17:04:00	49.85	05:12:50	50.07	0:00	49.90	0:00
26-Sep	50.00	50.01	49.99	49.96	50.00	49.99	4.80	85.00	10.20	85.00	50.20	06:02:40	49.75	17:42:10	50.10	0:00	49.83	0:00
27-Sep	49.99	50.02	49.98	49.97	49.98	49.99	3.20	86.20	10.60	86.20	50.15	19:02:40	49.81	18:39:50	50.09	0:00	49.87	0:00
28-Sep	49.98	49.98	49.96	49.95	49.99	49.97	7.60	88.30	4.10	88.30	50.17	13:02:00	49.67	18:38:00	50.08	0:00	49.73	0:00
29-Sep	49.99	49.98	49.97	50.01	49.99	49.99	4.40	86.10	9.40	86.10	50.18	17:03:10	49.83	11:49:10	50.07	0:00	49.90	0:00
30-Sep	50.00	50.00	50.00	50.02	50.02	50.00	0.80	83.00	16.20	83.00	50.17	06:02:00	49.84	12:48:10	50.06	0:00	49.93	0:00
00-Jan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0:00	0.00	0:00	0.00	0:00	0.00	0:00
MAX	50.02	50.02	50.01	50.02	50.03	50.01	14.36	88.30	20.00	88.30	50.20		49.89		50.12		49.96	
MIN	49.97	49.95	49.95	49.90	49.93	49.95	0.20	79.00	4.10	79.00	50.11		49.64		50.05		49.70	
AVG	49.99	50.00	49.99	49.98	49.99	49.99	4.22	84.24	11.53	84.24	50.15		49.80		50.08		49.86	

SUMMARY:

Avg. Frequency :

50.0 Hz.

Instantaneous Frequency :

Maximum Frequency : 50.20 Hz at 06:02 Hrs.

Minimum Frequency : 49.64 Hz at 18:50 Hrs.

15 Minutes Integrated Frequency :

Maximum Frequency : 50.12 Hz On 00/01/00 at 00:00 Hrs.

Minimum Frequency : 49.70 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	4.22	84.24	11.53

VOLTAGE ANALYSIS

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

(All figs. in kV)

PGCIL	BINAGURI		MAITHON		JEERAT		BIHARSHARIFF	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	424	405	423	401	422	389	419	396

PGCIL	MUZAFFARPUR		JAMSHEDPUR		ROURKELA		JEYPORE	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	418	388	417	401	415	403	420	406

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
Sep-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	
			(30-09-20)	(30-09-19)		
Hirakud	192	180	191.99	192.02	190.78	01.09.20
Balimela	462	439	457.47	461.04	456.13	01.09.20
Rengali	123	109	122.50	123.35	123.80	01.09.20
Upperkolab	858	844	851.36	856.33	850.54	01.09.20
Indravati	642	625	638.12	641.03	636.86	01.09.20
Subernrekha	590	580	587.26	588.75	587.81	01.09.20

B.

CPP/IPP IMPORT by Eastern Region Constituents during Sep-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	47.01
West Bengal	50.73	25.25	0	0	0	0	0	29.73	105.72
ODISHA	0	0	0.00	0.00	0.00	0.00	0	876.53	876.53
DVC	0	0	0	0	0	0	11.29	0	11.29
TOTAL	50.73	25.25	0.00	0.00	0.00	0.00	11.29	906.26	1040.54

C.

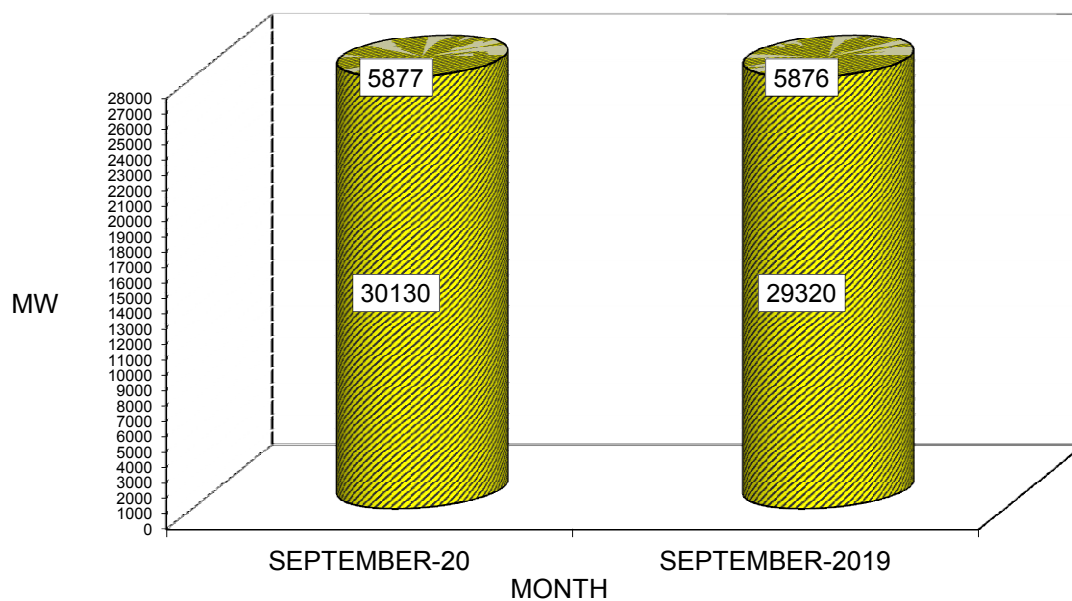
Distribution of Schedule Supply among Key Customers by IPPs during

Sep-20

(All figs. are in MU)

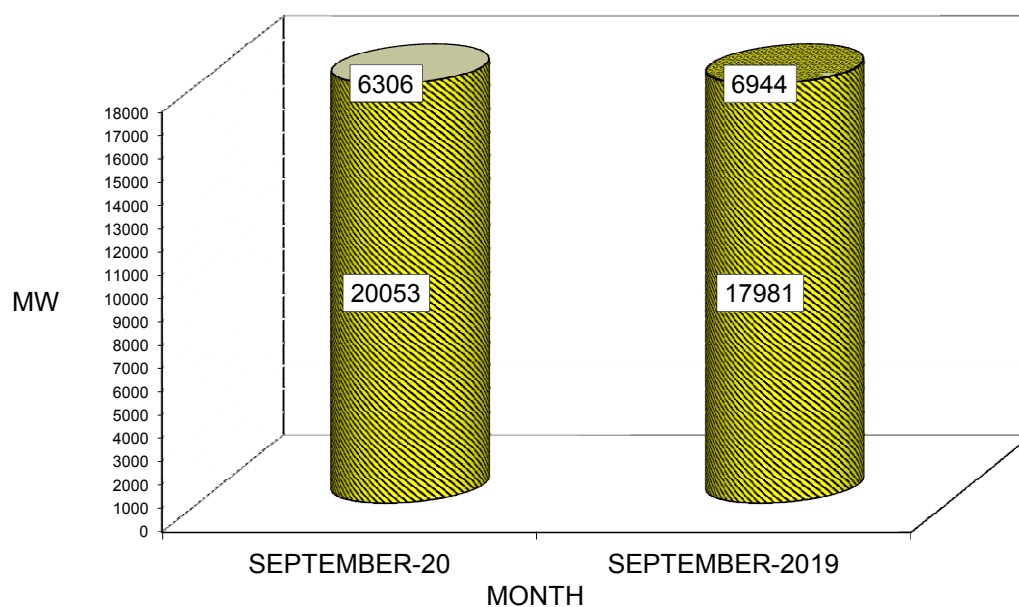
IPP	TPDDL	WBSEDCL/ WBPDL	DVC	Sale at IEX/NPCL	ODISHA	JSEB	CTU/Others	Total (Excl. Tr. Loss)
MPL	192.42	117.80	35.76	0.00	0	0	150.30	496.28
Sterlite	0	0	0	0	0.00	0	0.00	0.00
APNRL	0	45.20	0	0.00	0.00	120.80	67.83	233.83
Total	192.42	163.00	35.76	0.00	0.00	120.80	218.13	730.11

EFFECTIVE CAPACITY OF EASTERN REGIONAL GRID



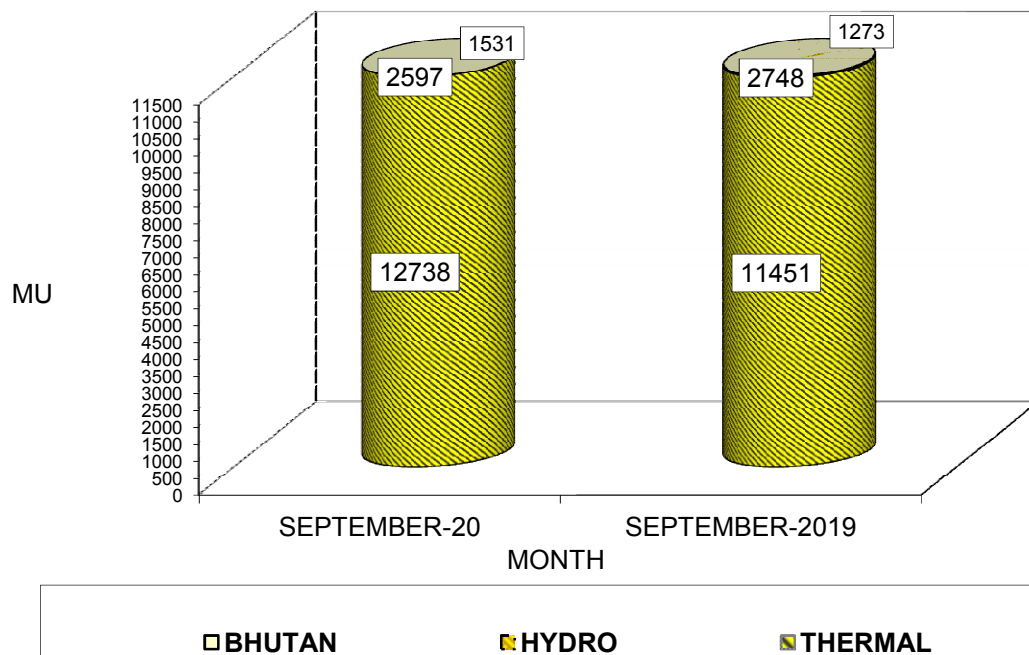
*Excludes contribution from HEPs of Bhutan

GENERATION CORRESPONDING TO PEAK DEMAND MET

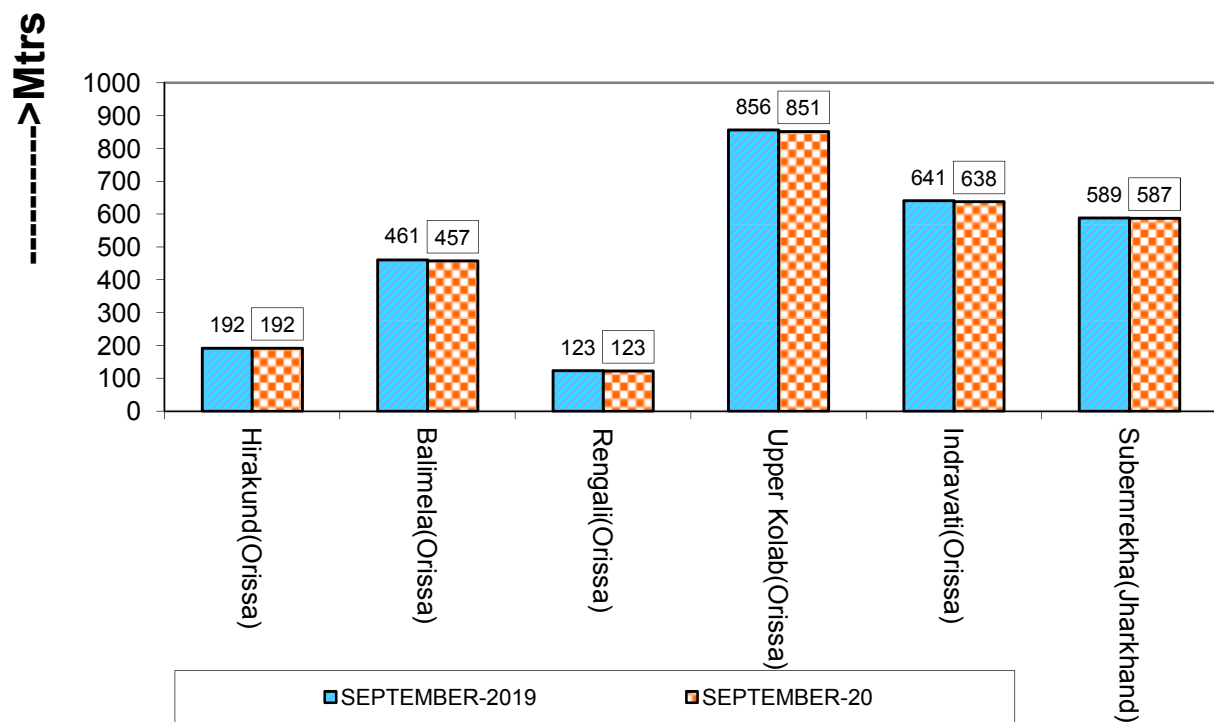


*Includes contribution from HEP of Bhutan

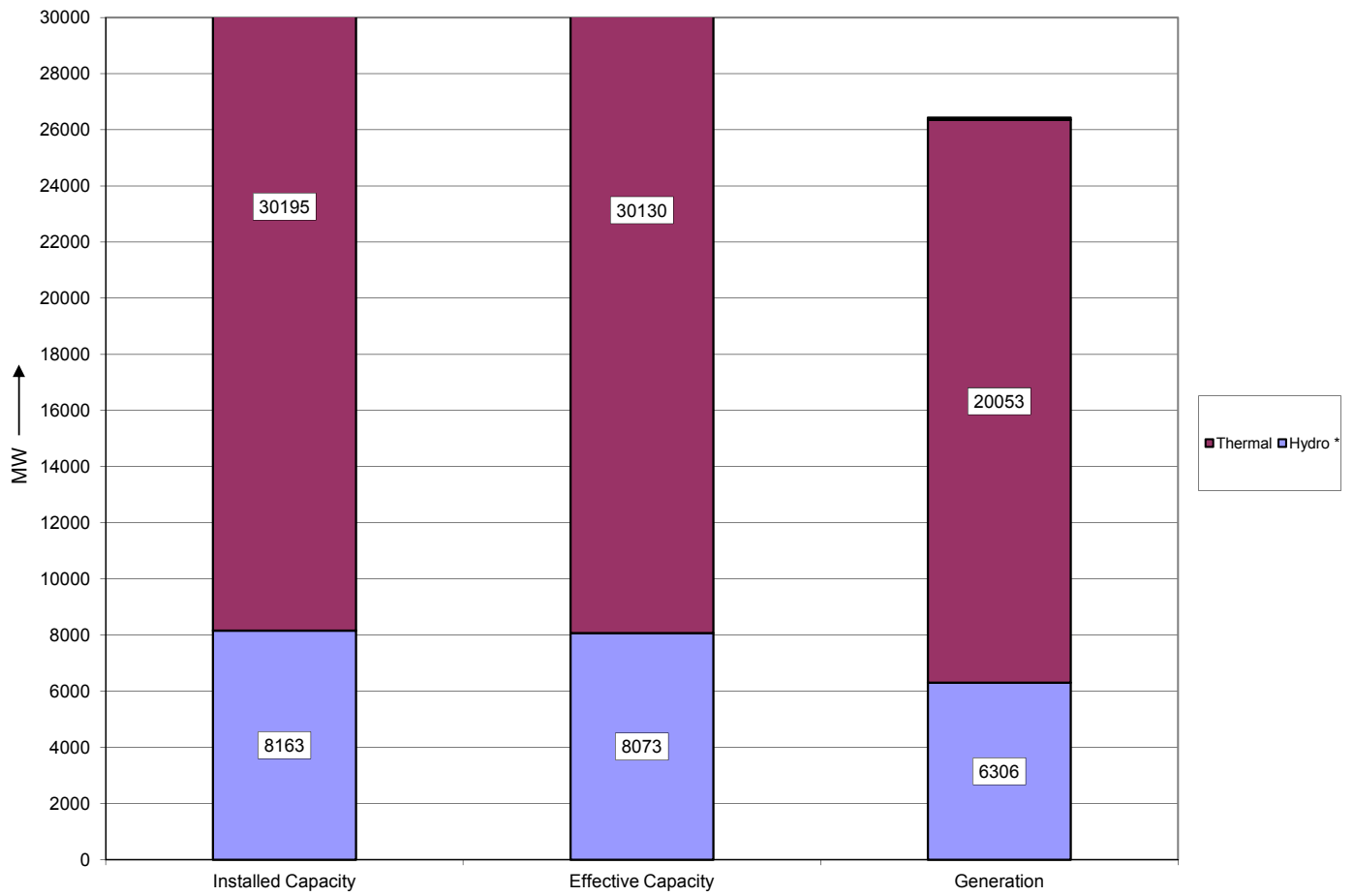
NET ENERGY GENERATION



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

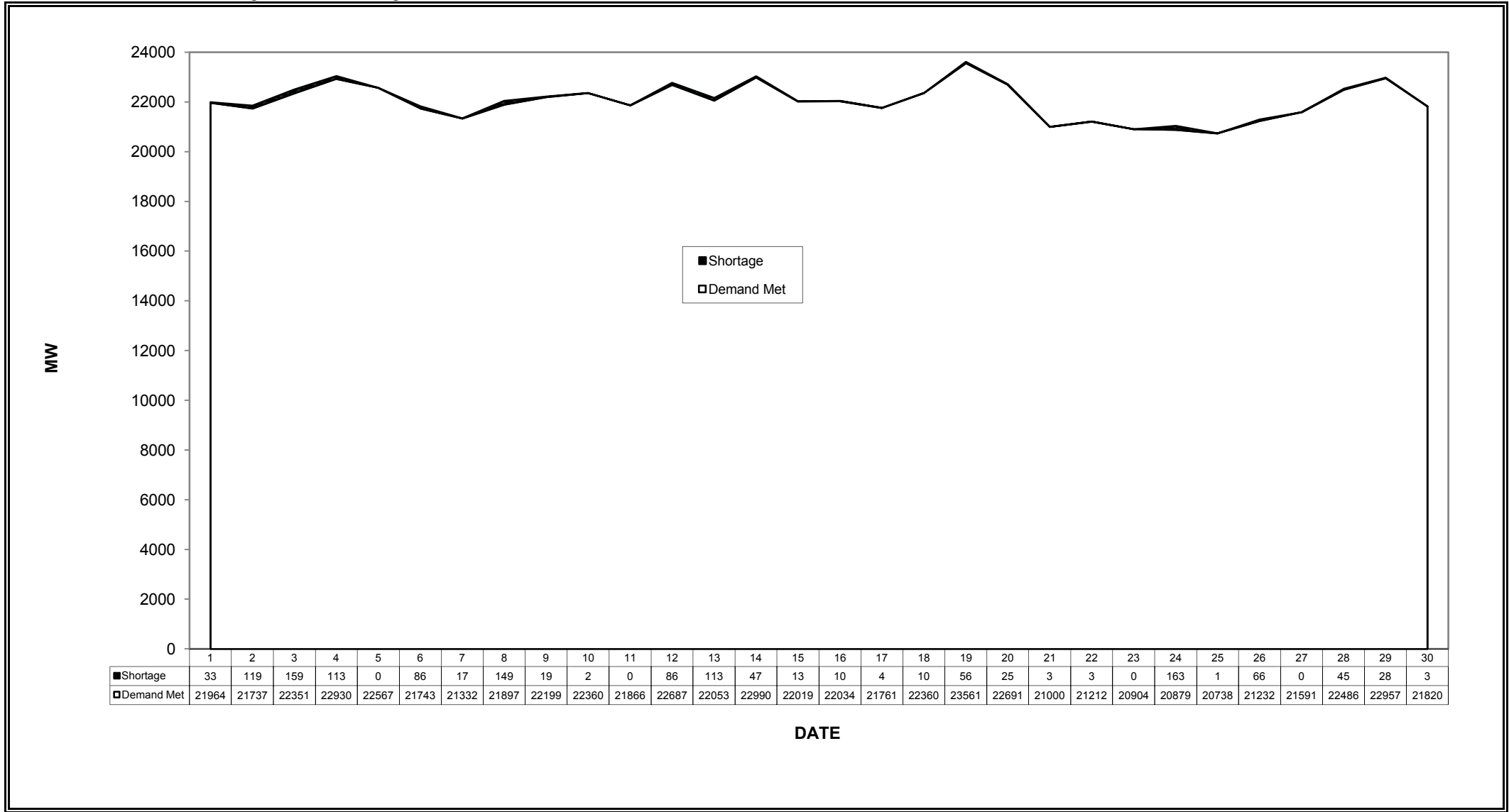


Capacity / Actual Generation Pattern of ER on Peak Day (19-9-2020) at 23.00 hrs.

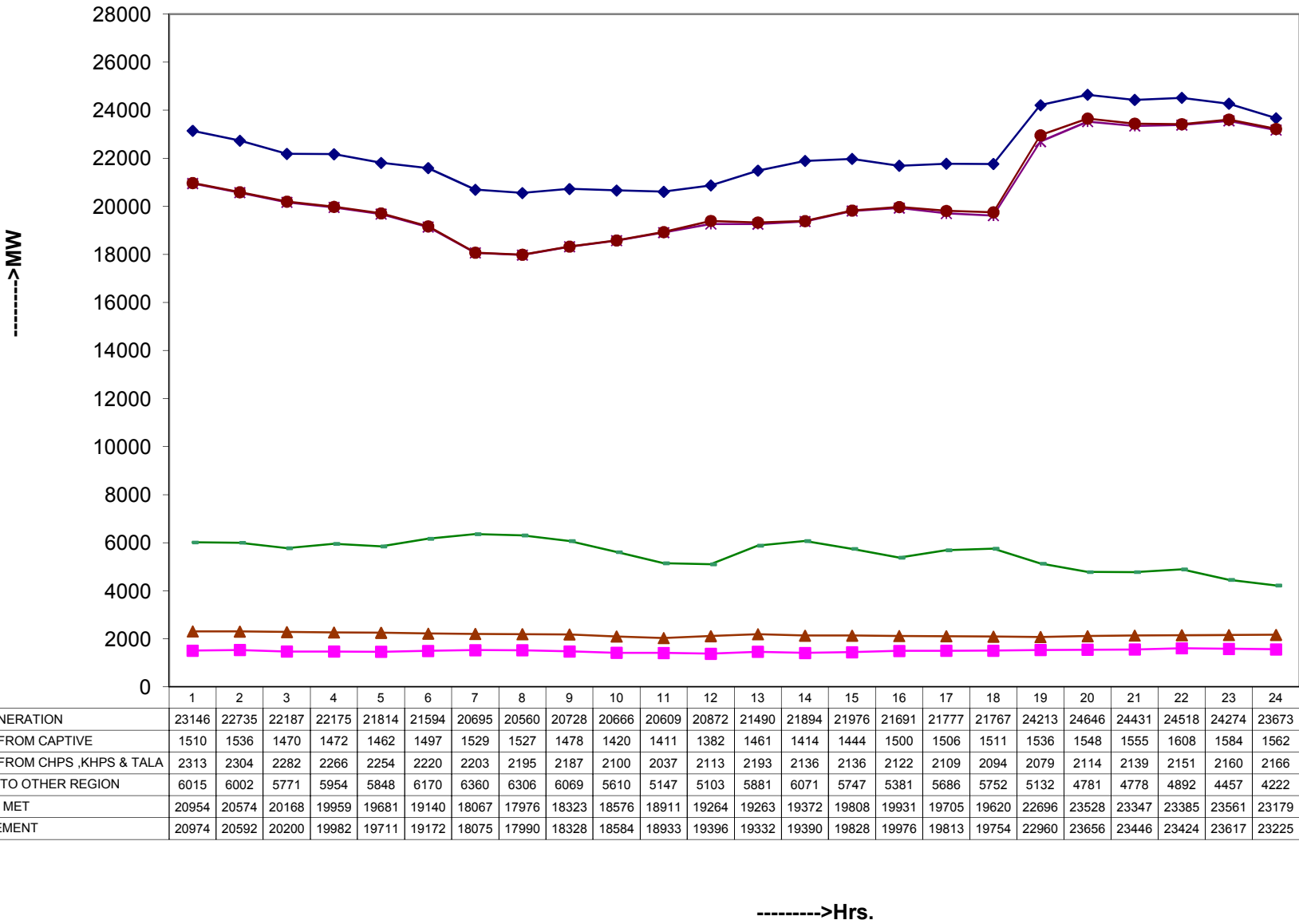


(*)--Includes contribution from HEP of Bhutan (Chukka, Kurichhu & Tala)

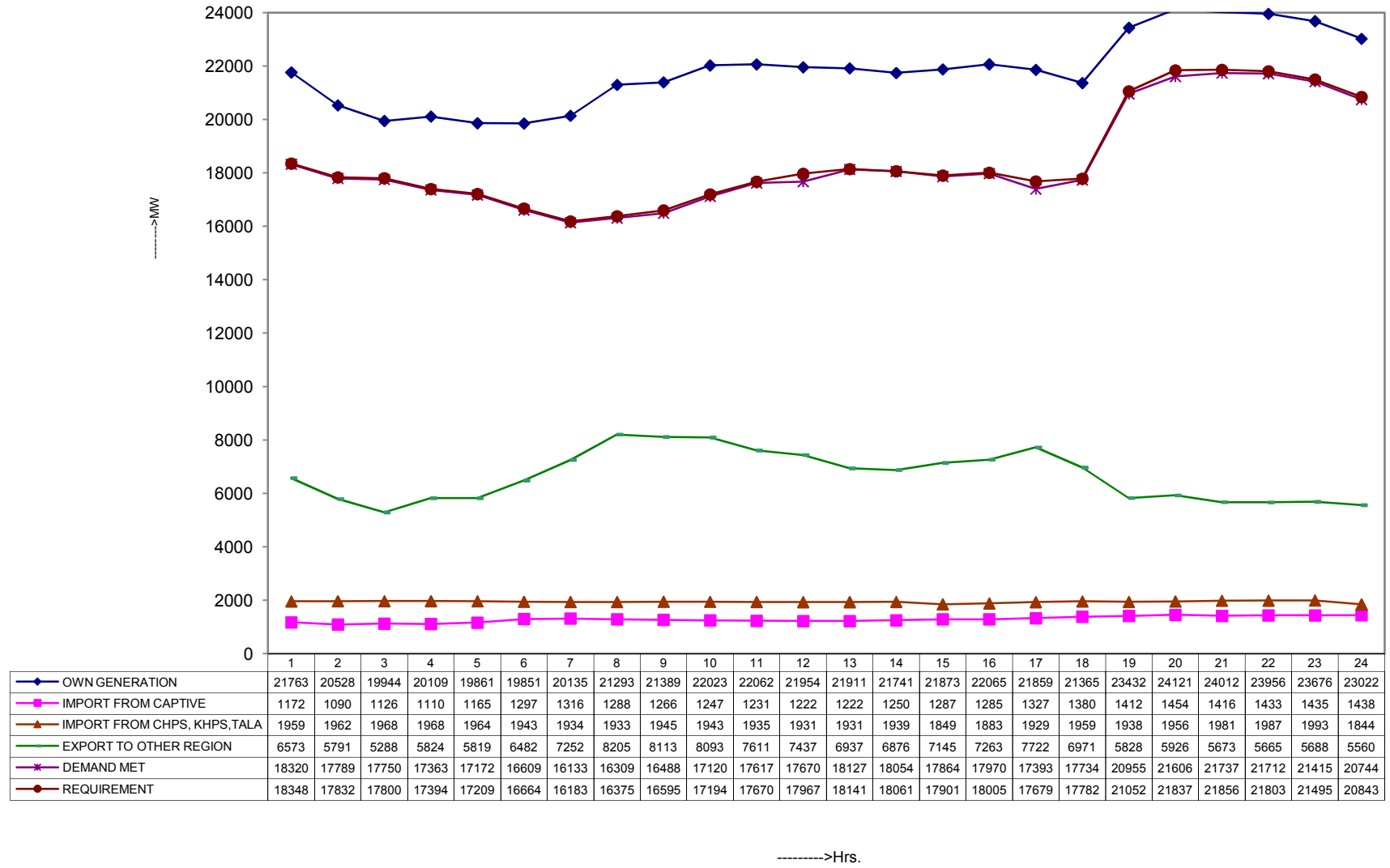
Peak Demand Met / Shortage of Eastern Region For The Month Of SEPTEMBER'2020



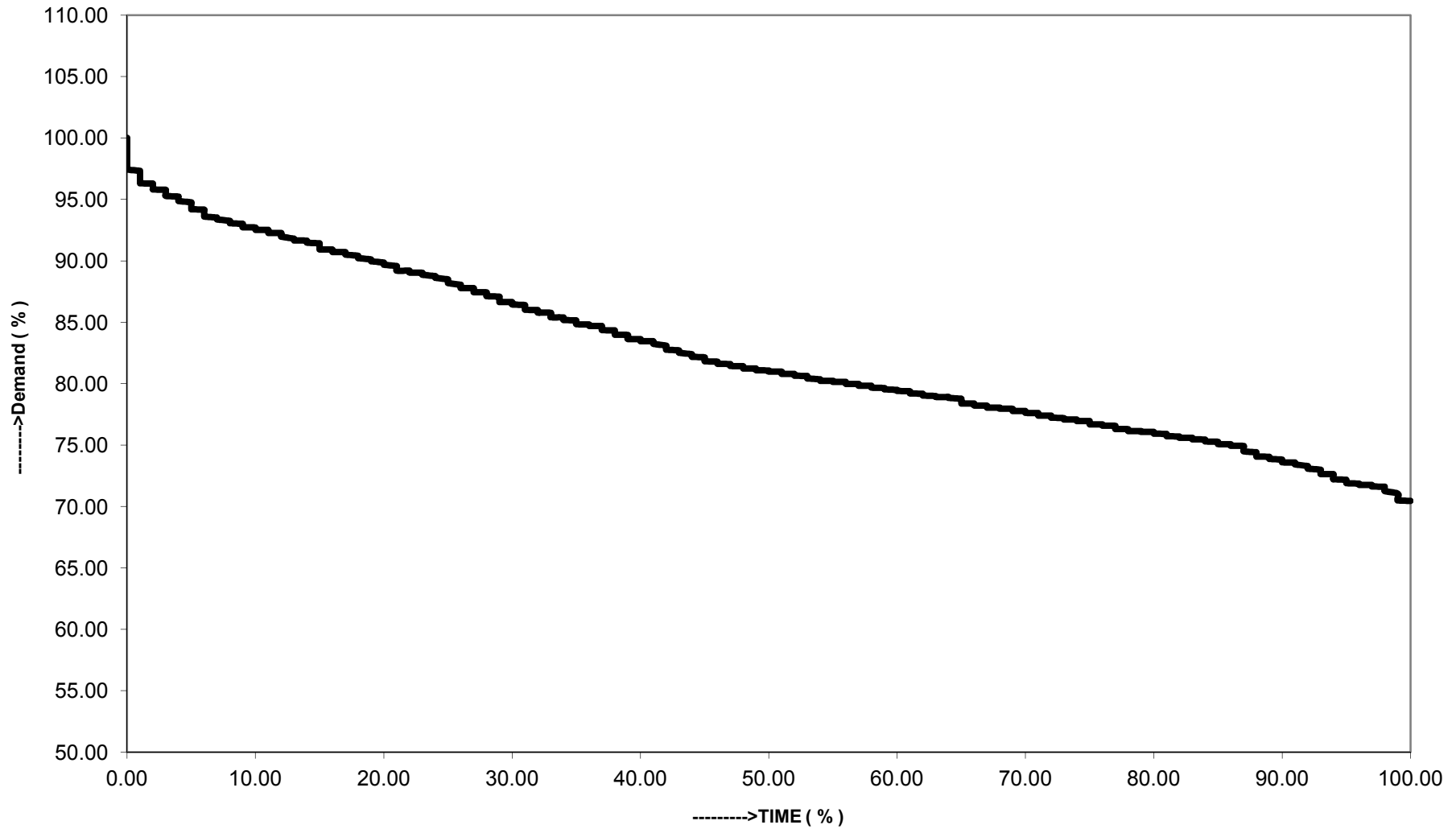
Hourly Load Generation Data OF ER On Regional Peak Day During The Month of SEPTEMBER'2020 (19-9-2020)

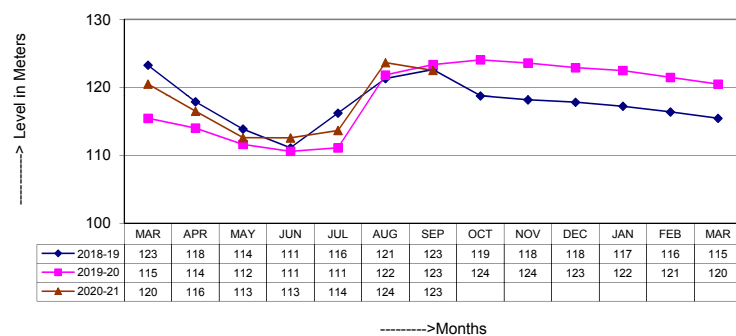
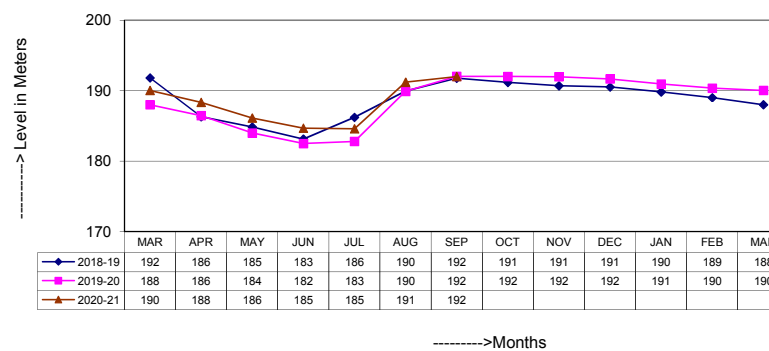
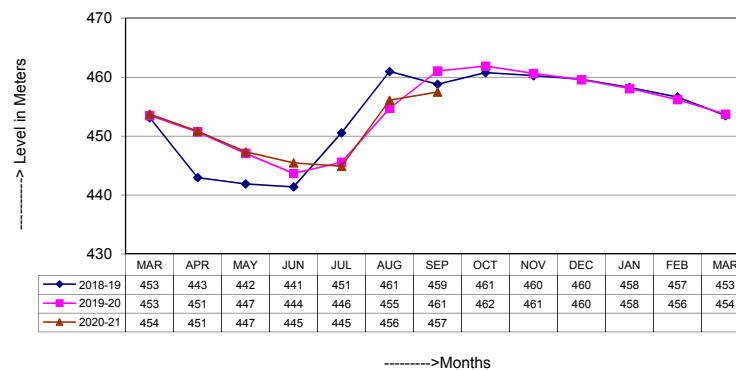
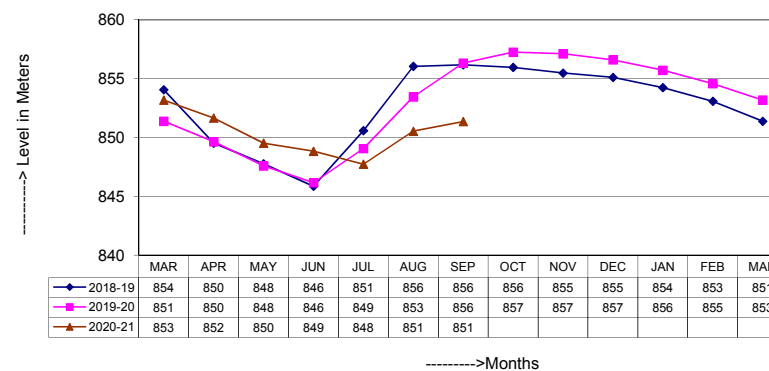
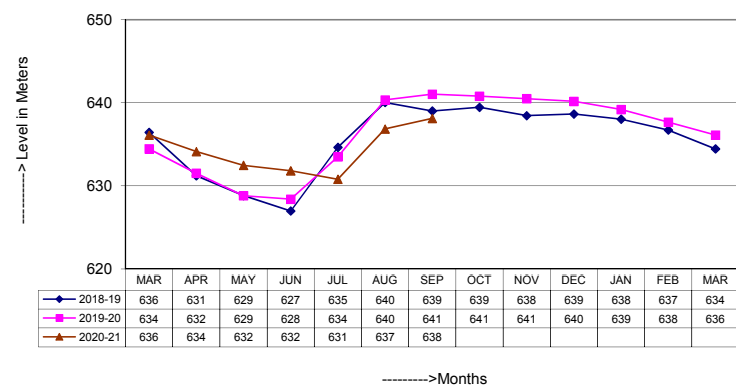


Hourly Load Generation Data of ER On Regional Lean Day During The Month of SEPTEMBER'2020 (2-9-2020)



Monthly Load Duration Curve of Eastern Region for SEPTEMBER-20

Maximum Demand met : 23561 MW**Minimum Demand met: 16133 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**