



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

दिसंबर - 2020

December-2020



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Highlights of Eastern Regional Power System for December-2020

- The **Maximum Net Demand** met of **Eastern Region (ER)** during the month of **Dec, 2020** was **19546 MW** which is 8.18% more than the **Dec, 2019** (18068 MW). Individual **Peak Demand (MW)** of all the constituents **increased** compared to the corresponding period of last year.
- The **Average Net Energy Consumption** per day in ER for the month of **Dec,2020** was **361.2 MU** excluding export, which is 6.58% more than the corresponding period of last year (338.90 MU).
- The **Average regional PLF of thermal units during the month is 63.73%**, which is 3.28% more than the corresponding period of the last year (**60.45%**).

GMR (IPP) registered the highest **PLF** of 96.92%, followed by WBPDC (Bakreswar TPP) 94.63% and WBPDC (Santalidih TPS) 92.26% during the month of **Dec, 2020**.

- **Maximum Net generation** was **24713 MW** against total **Effective Capacity of 39691.26 MW** (including import from Bhutan). At the time of Regional peak (**19546 MW** on 31.12.2020 at 19.00 hrs.) the generation was **22784 MW** and import from CPP was 1556 MW, Net export was 4794 MW.
- The system frequency in the IEGC recommended band (49.9 Hz to 50.05 Hz) remained for 75.75% of time during the month. **Average frequency** for the month was **50.00 Hz**. The instantaneous maximum and the minimum frequency touched were 50.26 Hz and 49.66 Hz respectively. The integrated (Fifteen minutes time block average) maximum and minimum frequency were **50.15 Hz** and **49.76 Hz** respectively (**refer Annexure-I**).
- The **Maximum Voltage** recorded **425 KV** at Jeerat 400 KV S/s whereas the minimum voltage recorded 389 KV at Muzaffarpur 400 KV S/s of Power grid.
- The **Maximum Export from ER to outside region** was **10645 MW (including Nepal and Bangladesh)** on **2nd Dec, 2020** at 11:00 hrs. Total net energy export during the month was **4356.43 MU (Inc. Transmission loss)** MU which corresponds to **30.15 %** of ex-bus total generation **14447.33 MU** of Eastern Region.
- The import from CPPs was **1106.05 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	5751	0	2238.44
WR	2176	2400	-158.12
SR	4107	194	1991.10
NER	739	858	-257.83
BANGLADESH	829	0	383.58
NEPAL (via-CTU)	286	0	159.24
Total	10645	2780	4356.43
NEPAL by Bihar(NBPDCL)	58.36	0.000483	58.36

SALIENT FEATURES

(YEAR TO YEAR COMPARISION)

		Dec-20	DECEMBER-2019	CHANGE	% CHANGE
1)	Effective Capacity (end of the Month)				
	THERMAL (MW)	30130	29320	810	2.76
	HYDRO (MW)	5877	\$ 5877	0	0
	DIESEL (MW)	0	0	0	0
	RES (MW)	1489	1489	0	0
	TOTAL (MW)	37495	36686	809	2.21
2)	Peak Demand (MW)	19697	18068	1629	9.02
3)	Peak Demand Met (MW)	19546	18068	1478	8.18
4)	Shortage (MW)	151	0	151	0.00
5)	% Shortage	0.77	0.00	0.77	0.00
6)	Average Energy Requirement Per Day (MU)	361.95	339.25	22.70	6.69
7)	Average Energy Availability Per Day (MU)	361.19	338.90	22.29	6.58
8)	Average Shortage Per Day (MU)	0.76	0.35	0.41	115.85
9)	% Shortage	0.21	0.10	0.11	108.72
10)	Net Generation for the Month				
	Thermal (MU)	13241.05	12310.70	930.35	7.56
	Hydro (MU)	1100.14	* 1090.67	9.47	0.87
	RES (MU)	106.14	79.21	0.00	-
	Total (MU)	14447.33	13480.58	966.75	7.17
11)	Generation at the Time of Max. Regional Demand Met (31-12-20 at 19.00 Hrs.)				
	Thermal (MW)	19285	19306	-21	-0.11
	Hydro (MW)	3481	* 3587	-106	-2.94
	RES(MW)	18	28	-10	-37.32
	Total (MW)	22784	22921	-137	-0.60
12)	Inter-Regional Energy Transfer				
	Export (MU)	4772.37	4346.33	426.04	9.80
	Import (MU)	415.95	676.14	-260.19	-38.48
	Net Exp.(+)/Net Imp.(-) (MU)	4356.43	3670.19	686.24	18.70
13)	Import From Captive(MU)	1106.05	695.58	410.47	59.01
14)	Peak Inter Regional Power Transfer				
	Max Export (MW) on 02-12-20 at 11.00Hrs	10645	8712	1933	22.19
	Max Import (MW) on 31-12-20 at 05.00Hrs	2780	2982	-202	-6.78
	Max Net Export(+)/Import (-) (MW)	10176	8268	1908	23.07
15)	Maximum voltage recorded	425	JEERAT	400 kv s/s	
16)	Minimum voltage recorded	389	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 DECEMBER'2020

A) Net Average Energy Per Day

System	Demand Met (MU/Day)	Requirement (MU/Day)	Shortage (MU/Day)	% Shortage
BSPHCL	80.95	81.11	0.16	0.20
JUVNL	27.48	28.74	1.25	4.36
DVC	62.84	62.85	0.01	0.02
ODISHA	72.65	72.66	0.01	0.02
WBSEDCL	93.37	93.44	0.06	0.07
CESC	21.30	21.30	0.00	0.02
SIKKIM	1.86	1.86	0.00	0.02
REGION	361.19	361.95	0.76	0.21

B) Peak Demand in MW:

System	Demand Met (MW)	Requirement (MW)	Shortage (MW)	% Shortage
BSPHCL	4856	5060	204	4.03
JUVNL	1500	1595	95	5.94
DVC	2925	2925	0	0.00
ODISHA	4224	4226	2	0.05
WBSEDCL	5140	5147	7	0.13
CESC	1481	1481	0	0.0
SIKKIM	115	115	0	0.00
REGION	19546	19697	151	0.77

➤ **DIVERSITY FACTOR** **1.04**

➤ **Regional Peak Demand Met on 31-12-2020 at 19.00 hrs. at 50 Hz.**

CONSTITUENT-WISE PERFORMANCE DATA DECEMBER-2020

SYSTEM	Gross Generation(MU)				Auxiliary power Consumption(MU)				Net Generation (MU)				Import from	Exchange	Energy	Per Day	Net Peak	Gross Peak
	HYDRO	Thermal	RES (Hy+Solar)	Total	HYDRO	Thermal	Solar	Total	HYDRO	Thermal	Solar	Total	Captive (MU)	Net Import(+) Net Export(-)	Consumption(MU)	Cons.(MU)	Demand	Demand
BSPHCL	0.00	0.00	41.68	41.68	0.00	5.66	0.00	5.66	0.00	-5.66	41.68	36.02	0.00	2473.40	2509.42	80.9	4856	4856
JUVNL	0.00	148.62	0.00	148.62	0.00	17.23	0.00	17.23	0.00	131.39	0.00	131.39	33.87	686.81	852.06	27.5	1500	1531
DVC	8.47	3383.65	0.00	3392.12	0.07	234.08	0.00	234.15	8.40	3149.57	0.00	3157.97	19.15	-1229.25	1947.87	62.8	2925	3252
ODISHA(OPGC+OHPC+TTPS)	243.59	1092.37	60.97	1396.94	1.71	100.23	0.00	101.94	241.88	992.14	60.97	1295.00	828.26	128.90	2252.16	72.7	4224	4378
WBPDC+WBSEDC+DPL	185.41	2371.73	1.28	2558.42	0.00	195.91	0.00	195.91	185.41	2175.83	1.28	2362.51	224.78	307.28	2894.57	93.4	5140	5456
CESC	0.00	305.83	0.00	305.83	0.00	26.75	0.00	26.75	0.00	279.08	0.00	279.08	0.00	381.17	660.26	21.3	1481	1544
HEL	0.00	361.49	0.00	361.49	0.00	26.18	0.00	26.18	0.00	335.31	0.00	335.31	0.00	-335.31				
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	56.52	57.52	1.9	115	115
NTPC	0.00	4781.90	1.21	4783.11	0.00	329.64	0.00	329.64	0.00	4452.26	1.21	4453.47	0.00	-4453.47				
MPL	0.00	632.65	0.00	632.65	0.00	36.80	0.00	36.80	0.00	595.85	0.00	595.85	0.00	-595.85				
APNRL	0.00	265.18	0.00	265.18	0.00	18.73	0.00	18.73	0.00	246.45	0.00	246.45	0.00	-246.45				
GMR	0.00	504.76	0.00	504.76	0.00	28.98	0.00	28.98	0.00	475.78	0.00	475.78	0.00	-475.78				
JITPL	0.00	438.71	0.00	438.71	0.00	25.75	0.00	25.75	0.00	412.97	0.00	412.97	0.00	-412.97				
NHPC (Inc TLDP= 42.77MU)	161.87	0.00	0.00	161.87	0.00	0.00	0.00	0.00	161.87	0.00	0.00	161.87	0.00	-161.87				
CHUZACHEN HPS	11.69	0.00	0.00	11.69	0.00	0.00	0.00	0.00	11.69	0.00	0.00	11.69	0.00	-11.69				
DIKCHU HPS	10.32	0.00	0.00	10.32	0.00	0.00	0.00	0.00	10.32	0.00	0.00	10.32	0.00	-10.32				
JORHANG HPS	15.24	0.00	0.00	15.24	0.00	0.00	0.00	0.00	15.24	0.00	0.00	15.24	0.00	-15.24				
TASHIDING HPS	12.45	0.00	0.00	12.45	0.00	0.00	0.00	0.00	12.45	0.00	0.00	12.45	0.00	-12.45				
TEESTA-III HPS	208.62	0.00	0.00	208.62	0.00	0.00	0.00	0.00	208.62	0.00	0.00	208.62	0.00	-208.62				
CHPC(Birpara Receipt)	83.44	0.00	0.00	83.44	0.00	0.00	0.00	0.00	83.44	0.00	0.00	83.44	0.00	-83.44				
KHPS	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	4.71	4.71			
THPS	37.06	0.00	0.00	37.06	0.00	0.00	0.00	0.00	37.06	0.00	0.00	37.06	0.00	-37.06				
DAGACHU HPS	21.61	0.00	0.00	21.61	0.00	0.00	0.00	0.00	21.61	0.00	0.00	21.61	0.00	-21.61				
Mangdechhu HEP	102.16	0.00	0.00	102.16	0.00	0.00	0.00	0.00	102.16	0.00	0.00	102.16	0.00	-102.16				
Total Drawal by HVDC Sahsaram,Alipurduar														17.98	17.98			
Total	1101.91	14286.89	106.14	15494.95	1.78	1045.93	0.00	1047.70	1100.14	13240.97	106.14	14447.24	1106.05	-4356.75	11196.54	361.2	19546	20944

3A

14447.24

3790.70

11196.54

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	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	358.25	358.45	0.20	0.06	49.99
DECEMBER	338.90	339.25	0.35	0.10	49.99	361.19	361.95	0.76	0.21	50.00
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	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	20406	20465	59	0.29	49.99
DECEMBER	18068	18068	0	0.00	49.99	19546	19697	151	0.77	50.00
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 DECEMBER -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	0.00	-2.14	24.82	8.34
		Thermal	Barauni (U# 8)	250.00	250.00	0.00	-2.94	850.60
		Muzaffarpur Stg-I	220.00	220.00	0.00	-0.58	38.58	22.89
		Thermal Total	690.00	680.00	0.00	-5.66	914.00	776.40
	RES		341.25	341.25	41.68	41.68	208.13	208.13
		Total BIHAR	1031.25	1021.25	41.68	36.02	1122.13	984.53
JHARKHAND								
TVNL	Thermal	TVNL	420.00	420.00	148.62	131.39	1673.04	1464.01
JSEB	Hydro	Subarnrekha (U#1,2)	130.00	130.00	0.00	0.00	50.03	50.03
	RES		46.75	46.75	0.00	0.00	0.00	0.00
		Total	176.75	176.75	0.00	0.00	50.03	50.03
DVC	Thermal	Bokaro-B(3)	210.00	210.00	0.00	-0.56	18.59	11.74
		Chandrapura(U7 # 8)	500.00	500.00	260.12	233.87	2524.81	2279.23
		Durgapur(4)	210.00	210.00	74.74	65.51	135.82	114.00
		Mezia(1,2,3,4,5,6)	1340.00	1340.00	735.08	662.02	4788.95	4292.93
		Mezia(U # 7,8)	1000.00	1000.00	594.76	566.15	4337.54	4101.87
		Bokaro-A(1)	500.00	500.00	178.72	167.22	2297.99	2167.97
		Durgapur STPS (U#1,2)	1000.00	1000.00	298.38	279.74	3925.44	3682.16
		Raghunathpur TPS (U#1,2)	1200.00	1200.00	573.73	540.06	3623.88	3392.11
		Koderma STPS (U#1,2)	1000.00	1000.00	668.20	635.63	5485.01	5193.75
		Total Thermal	6960.00	6960.00	3383.73	3149.65	27138.03	25233.39
	Hydro	Maithon (U#1,2,3)	63.20	63.20	4.34	4.32	170.57	170.26
		Panchet (U#1,2)	80.00	80.00	1.54	1.51	154.52	153.79
		Tilaya (U#1,2)	4.00	4.00	2.59	2.6	8.57	8.5
		Hydro Total	147.20	147.20	8.47	8.40	333.66	332.53
			Total DVC	7107.20	7107.20	3392.20	3158.05	27471.69
WEST BENGAL								
WBPDCCL	Thermal	Bandel TPS	380.00	335.00	63.59	56.34	777.97	695.53
		Santalidih TPS(U#5&6)	500.00	500.00	343.22	315.51	2378.38	2172.98
		Kolaghat TPS	1260.00	1260.00	127.04	110.29	1081.32	925.49
		Bakreswar TPP	1050.00	1050.00	739.28	675.64	5641.67	5138.43
		Sagardighi TPP	1600.00	1600.00	868.81	809.87	6507.30	6028.16
		DPPS (300+250 *)	550.00	550.00	229.80	208.18	1843.21	1652.37
		Thermal Total	5340.00	5295.00	2371.73	2175.83	18229.84	16612.96
WBSEDCL	Hydro	Jaldhaka (3x9+2x4)	35.00	35.00	13.66	13.66	179.26	179.26
		Ramam (4x12.73)	51.00	51.00	13.26	13.26	230.70	230.70
		Teesta C.F. (3x3x7.5)	67.50	67.50	0.00	0.00	31.08	31.08
		Purulia PSS (4x225)	900.00	900.00	158.49	158.49	947.37	947.37
		Total Hydro	1053.50	1053.50	185.41	185.41	1388.41	1388.41
		RES	527.29	527.29	1.28	1.28	73.17	73.17
	➤	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 DECEMBER -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	13.58	12.30	43.63	39.40
		Budge-Budge (3x250)	750.00	750.00	292.25	266.78	4034.93	3718.59
		Total CESC	1125.00	1125.00	305.83	279.08	4078.56	3757.99
HEL	Thermal	HEL	600.00	600.00	361.49	335.31	3323.04	3069.38
		Total West Bengal	8645.79	8600.79	3225.74	2976.91	27093.02	24901.91
ODISHA (NTPC)	Thermal	Talcher-I	250.00	240.00	168.69	149.64	1384.25	1227.96
		Talcher-II	220.00	220.00	140.51	124.65	1298.18	1151.22
		Total Thermal	470.00	460.00	309.20	274.29	2682.44	2379.18
OPGC	Thermal	IB TPS	420.00	420.00	239.05	211.89	2023.22	1786.32
		IB TPS U#3(660 MW)	660.00	660.00	248.01	230.62	1573.41	1467.41
		IB TPS U#4(660 MW)	660.00	660.00	296.12	275.35	2538.92	2355.53
OHPC	Hydro	Hirakud-I (Burla)	275.50	275.50	31.51	31.32	539.81	537.70
		Hirakud-II (Chiplima)	72.00	72.00	16.13	16.04	268.56	265.90
		Balimela (6x60+2x75)	510.00	510.00	94.90	94.36	1376.29	1371.54
		Rengali (5x50)	250.00	250.00	31.58	31.47	933.21	930.47
		Upper Kolab (4x80)	320.00	320.00	33.76	33.48	639.06	637.14
		Indravati HPS (4x150)	600.00	600.00	10.45	9.93	1376.39	1345.57
		Mckd.(Odisha drawal)	57.38	57.38	25.28	25.28	223.41	223.41
		Total Hydro	2084.88	2084.88	243.59	241.88	5356.71	5311.72
		RES	511.21	511.21	60.97	60.97	427.61	427.61
		Total Odisha	4806.09	4796.09	1396.94	1295.00	14602.31	13727.77
(**) SIKKIM	Hydro	RES	52.18	52.18	1.00	1.00	15.00	15.00
NTPC		MTPS Stg-II	390.00	390.00	223.6453	201.28	1547.55	1379.89
		FSTPP# I&II (3x200+2x500)	1600.00	1600.00	661.81	612.68	5959.01	5461.39
		FSTPP (U# 6)	500.00	500.00	296.16	273.56	2345.94	2158.79
		KhSTPP (4x210+3x500)	2340.00	2340.00	903.54	840.54	9380.74	8621.20
		TSTPP (2x500)	1000.00	1000.00	671.29	620.10	5818.93	5370.82
		BARH STPS II (2X660)	1320.00	1320.00	729.21	687.79	5387.97	5048.84
		BRBCL # I,2,3(3X250 MW)	750	750	318.72	292.57	2848.71	2601.49
		NSTPS	660.00	660.00	421.94	399.71	3573.27	3380.18
		DSTPP	800.00	800.00	555.60	524.03	3380.47	3148.90
		Total NTPC	9360.00	9360.00	4781.91	4452.26	40242.59	37171.51
NHPC	HYDRO	Rangit (3x20)	60.00	60.00	12.66	12.66	244.57	244.57
		Teesta (3x170)	510.00	510.00	106.44	106.44	2550.65	2550.65
		TLDP -(4x33+4x40)	292.00	292.00	42.77	42.77	1148.48	1148.48
		Total NHPC	862.00	862.00	161.87	161.87	3943.69	3943.69
1731.04		MPL (U#1&2)	1050.00	1050.00	632.65	595.85	4891.99	4586.84
		APNRL (U#1,2)	540.00	540.00	265.18	246.45	2136.70	1976.39
		GMR (2x350)	700.00	700.00	504.76	475.78	3657.10	3417.94
		JITPL (2X600)	1200.00	1200.00	438.71	412.96	4044.04	3791.19
		CHUZACHEN** (2x55)	110.00	110.00	11.69	11.69	461.03	461.03
		JOETHANG (2x48)	96.00	96.00	15.24	15.24	365.79	365.79
		TEESTA URJA St III (6x200)	1200.00	1200.00	208.62	208.62	5543.24	5543.24
		Tashilding (2x48.5)	97.00	97.00	12.45	12.45	338.50	338.50
		DICKCHU (2x48)	96.00	96.00	10.32	10.32	438.99	438.99
		TALCHER SOLAR	10.00	10.00	1.21	1.21	9.89	9.89
		Total Thermal (E.R)	30195.00	30130.00	14286.98	13241.05	119146.91	109846.43
EASTERN REGIONAL		Total Hydro (E.R)	5876.58	5876.58	857.65	855.87	18220.05	18173.94
		Total RES	1488.68	1488.68	106.14	106.14	733.79	733.79
		TOTAL (E.R)	37560.26	37495.26	15250.77	14203.07	138100.76	128754.16
BHUTAN	Hydro	CHPC(4x90)	360.00	270.00	83.44	83.44	1909.83	1909.83
	Hydro	Kurichu (4x15)	60.00	60.00	0.00	0.00	402.88	402.88
	Hydro	TALA (6x170)	1020.00	1020.00	37.06	37.06	3139.82	3139.82
	Hydro	DAGACHU (2x63)	126.00	126.00	21.61	21.61	460.92	460.92
		MANGDECHU(4x180)	720.00	720.00	102.16	102.16	2948.31	2948.31
		Grand Total	39846.26	39691.26	15495.04	14447.33	146962.53	137615.93

PLANT LOAD FACTOR (PLF) OF THERMAL POWER STATIONS IN EASTERN REGION DURING THE MONTH OF DECEMBER' 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	Month	upto Current Month	upto Current
					in MU	(%)	(2020-21) in MU	Month
BIHAR	NTPC	Barauni (U# 6,7)	220.00	210.00	0.00	0.00	24.82	1.79
	Thermal	Barauni (U# 8)	250.00	250.00	0.00	0.00	850.60	51.55
		Muzaffarpur Stg-I	220.00	220.00	0.00	0.00	38.58	2.66
		Thermal Total	690.00	680.00	0.00	0.00	914.00	20.37
	RES		341.25	341.25	41.68		208.13	
		Total BIHAR	1031.25	1021.25	41.68		1122.13	
JHARKHAND								
TVNL	Thermal	TVNL	420.00	420.00	148.62	47.56	1673.04	60.35
JSEB	Hydro	Subarnrekha (U#1,2)	130.00	130.00	0.00		50.03	
	RES		46.75	46.75	0.00		0.00	
		Total	176.75	176.75	0.00		50.03	
DVC	Thermal	Bokaro-B(3)	210.00	210.00	0.00	0.00	18.59	1.34
		Chandrapura(U7 # 8)	500.00	500.00	260.12	69.92	2524.81	76.51
		Durgapur(4)	210.00	210.00	0.00	47.84	135.82	9.80
		Mezia(1,2,3,4,5,6)	1340.00	1340.00	735.08	73.73	4788.95	54.15
		Mezia(U # 7,8)	1000.00	1000.00	594.76	79.94	4337.54	65.72
		Bokaro-A(1)	500.00	500.00	178.72	48.04	2297.99	69.64
		Durgapur STPS (U#1,2)	1000.00	1000.00	298.38	40.10	3925.44	59.48
		Raghunathpur TPS (U#1,2)	1200.00	1200.00	573.73	64.26	3623.88	45.76
		Koderma STPS (U#1,2)	1000.00	1000.00	668.20	89.81	5485.01	83.11
		Total Thermal	6960.00	6960.00	3383.73	65.35	27138.03	59.08
	Hydro	Maithon (U#1,2,3)	63.20	63.20	4.34		170.57	
		Panchet (U#1,2)	80.00	80.00	1.54		154.52	
		Tilaya (U#1,2)	4.00	4.00	2.59		8.57	
		Hydro Total	147.20	147.20	8.47		333.66	
			Total DVC	7107.20	7107.20	3392.20		27471.69
WEST BENGAL								
WBPDC	Thermal	Bandel TPS	380.00	335.00	63.59	25.51	777.97	35.19
		Santalidih TPS(U#5&6)	500.00	500.00	343.22	92.26	2378.38	72.07
		Kolaghat TPS	1260.00	1260.00	127.04	13.55	1081.32	13.00
		Bakreswar TPP	1050.00	1050.00	739.28	94.63	5641.67	81.41
		Sagardighi TPP	1600.00	1600.00	868.81	72.98	6507.30	61.62
		DPPS (300+250 *)	550.00	550.00	229.80	56.16	1843.21	50.78
		Thermal Total	5340.00	5295.00	2371.73	60.20	18229.84	52.16
WBSEDCL	Hydro	Jaldhaka (3x9+2x4)	35.00	35.00	13.66		179.26	
		Ramam (4x12.73)	51.00	51.00	13.26		230.70	
		Teesta C.F. (3x3x7.5)	67.50	67.50	0.00		31.08	
		Purulia PSS (4x225)	900.00	900.00	158.49		947.37	
		Total Hydro	1053.50	1053.50	185.41		1388.41	
		RES	527.29	527.29	1.28		73.17	
		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 DECEMBER' 2020

ORGANI- SATION	TYPE	POWER STATION	INSTALLED CAPACITY	EFFECTIVE CAPACITY	Gross Energy Generation in MU	PLF of Current Month (%)	Cummulative Gross Energy Generation upto Current Month (2020-21) in MU	Cummulative PLF upto Current Month (%)
			(in MW)	(in MW)				
CESEC	Thermal	Titagarh (4x60)	240.00	240.00	0.00	0.00	0.00	0.00
		Southern (2x67.5)	135.00	135.00	13.58	13.52	43.63	4.90
		Budge-Budge (3x250)	750.00	750.00	292.25	52.37	4034.93	81.51
		Total CESC	1125.00	1125.00	305.83	36.54	4078.56	54.93
HEL	Thermal		600.00	600.00	361.49	80.98	3323.04	83.92
		Total West Bengal	8645.79	8600.79	3225.74		27093.02	
ODISHA	Thermal	Talcher-I	250.00	240.00	168.69	94.47	1384.25	87.39
(NTPC)		Talcher-II	220.00	220.00	140.51	85.84	1298.18	89.41
		Total Thermal	470.00	460.00	309.20	90.34	2682.44	88.35
OPGC	Thermal	IB TPS	420.00	420.00	239.05	76.50	2023.22	72.99
		IB TPS U#3(660 MW)	660.00	660.00	248.01	50.51	1573.41	36.12
		IB TPS U#4(660 MW)	660.00	660.00	296.12	64.46	2538.92	58.29
OHPC	Hydro	Hirakud-I (Burla)	275.50	275.50	31.51		539.81	
		Hirakud-II (Chiplima)	72.00	72.00	16.13		268.56	
		Balimela (6x60+2x75)	510.00	510.00	94.90		1376.29	
		Rengali (5x50)	250.00	250.00	31.58		933.21	
		Upper Kolab (4x80)	320.00	320.00	33.76		639.06	
		Indravati HPS (4x150)	600.00	600.00	10.45		1376.39	
		Mckd.(Odisha drawal)	57.38	57.38	25.28		223.41	
		Total Hydro	2084.88	2084.88	243.59		5356.71	
		RES	511.21	511.21	60.97		427.61	
		Total Odisha	4806.09	4796.09	1396.94		14602.31	
(**) SIKKIM	Hydro	RES	52.18	52.18	1.00		15.00	
NTPC		MTPS Stg-II	390	390	223.6453	77.08	1547.55	60.12
		FSTPP# I&II (3x200+2x500)	1600.00	1600.00	661.81	55.60	5959.01	56.43
		FSTPP (U# 6)	500.00	500.00	296.16	79.61	2345.94	71.09
		KhSTPP (4x210+3x500)	2340.00	2340.00	903.54	51.90	9380.74	60.74
		TSTPP (2x500)	1000.00	1000.00	671.29	90.23	5818.93	88.17
		BARH STPS II (2X660)	1320.00	1320.00	729.21	74.25	5387.97	61.85
		BRBCL # I,2,3(3X250 MW)	750.00	750.00	318.72	57.12	2848.71	57.55
		NSTPS	660.00	660.00	421.94	85.93	3573.27	82.03
		DSTPP	800.00	800.00	555.60	93.35	3380.47	64.02
		Total NTPC	9360.00	9360.00	4781.91	68.67	40242.59	65.14
NHPC	HYDRO	Rangit (3x20)	60.00	60.00	12.66		244.57	
		Teesta (3x170)	510.00	510.00	106.44		2550.65	
		TLDP -(4x33+4x40)	292.00	292.00	42.77		1148.48	
		Total NHPC	862.00	862.00	161.87		3943.69	
	Thermal	MPL (U#1&2)	1050.00	1050.00	632.65	80.98	4891.99	70.59
		APNRL (U#1,2)	540.00	540.00	265.18	66.00	2136.70	59.95
		GMR (2x350)	700.00	700.00	504.76	96.92	3657.10	79.16
		JITPL (2X600)	1200.00	1200.00	438.71	49.14	4044.04	51.06
		CHUZACHEN** (2x55)	110.00	110.00	11.69		461.03	
		JOZETHANG (2x48)	96.00	96.00	15.24		365.79	
		TEESTA URJA St III (6x200)	1200.00	1200.00	208.62		5543.24	
		Tashilding (2x48.5)	97.00	97.00	12.45		338.50	
		DICKCHU (2x48)	96.00	96.00	10.32		438.99	
		TALCHER SOLAR	10.00	10.00	1.21		9.89	
		Total Thermal (E.R)	30195.00	30130.00	14286.98	63.73	119146.91	59.92
EASTERN REGIONAL		Total Hydro (E.R)	5876.58	5876.58	857.65		18220.05	
		Total RES	1488.68	1488.68	106.14		733.79	
		TOTAL (E.R)	37560.26	37495.26	15250.77		138100.76	
BHUTAN	Hydro	CHPC(4x90)	360.00	270.00	83.44		1909.83	
	Hydro	Kurichu (4x15)	60.00	60.00	0.00		402.88	
	Hydro	TALA (6x170)	1020.00	1020.00	37.06		3139.82	
	Hydro	DAGACHU (2x63)	126.00	126.00	21.61		460.92	
		MANGDECHU(4x180)	720.00	720.00	102.16		2948.31	
		Grand Total	39846.26	39691.26	15495.04		146962.53	

CONTRIBUTIONS OF DIFFERENT CONSTITUENTS AT THE TIME OF REGIONAL PEAK
DURING THE MONTH OF DECEMBER'2020 (31-12-2020)

Date **31-Dec-20**
Time **19.00** Hrs.
Frequency **50.00** Hz.

(All Fig. in MW)

System/State	Installed Capacity	Effective Capacity	Hydro	Thermal	RES	Net Gen Total
BSPHCL	1031	1021	0	0	0	0
JUVNL	597	597	0	237	0	237
DVC	7107	7107	24	4623	0	4647
ODISHA	4806	4796	790	1237	18	2044
WBSEDCL	6371	6326	819	2890	0	3709
TLDP	292	292	282	0	0	282
HEL HALDIA	600	600	0	274	0	274
CESC	1125	1125	0	768	0	768
DPL	550	550	0	0	0	0
SIKKIM	52	52	0	0	0	0
NTPC	9360	9360	0	6542	0	6542
NHPC	570	570	543	0	0	543
CHUKHA	360	270	37	0	0	37
KURICHU	60	60	-30	0	0	-30
TALA	1020	1020	17	0	0	17
MPL	1050	1050	0	988	0	988
OPGC (660 MW)	0	0	0	0	0	0
APNRL	540	540	0	496	0	496
Kamalganga (GMR)	700	700	0	666	0	666
JITPL	1200	1200	0	564	0	564
Chuzachen	110	110	55	0	0	55
Jorethang	96	96	47	0	0	47
TEESTA URJA St III	1200	1200	667	0	0	667
Tashilding	97	97	47	0	0	47
DICKCHU	96	96	46	0	0	46
<u>Daghachu</u>	126	126	25	0	0	25
<u>Solar</u>	10	10	0	0	0	0
<u>Mangdechhu</u>	720	720	111	0	0	111
<u>Total</u>	39846	39691	3481	19285	18	22784
Import From Captive:						1556
Export To:						
NER						-440
SR						2046
WR						-1169
NR						3270
Bangladesh						828
Nepal						259
Total						4794

➤ I Net Peak Demand Met (MW) :

19546

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

Hourly Load Generation Data OF ER On Regional Peak Day During The Month of DECEMBER'2020 (31-12-2020)

(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	291	14950	15241	1565	254	2624	14436	11	0	14448
2	287	14631	14918	1537	261	2595	14120	9	0	14129
3	260	14358	14618	1520	268	2490	13916	9	0	13925
4	253	14467	14720	1457	271	2471	13976	15	0	13991
5	357	14607	14964	1439	282	2511	14174	10	0	14184
6	411	15786	16197	1510	268	3185	14790	36	0	14827
7	943	17782	18725	1502	240	4563	15904	1	0	15906
8	2181	19143	21323	1566	214	5475	17628	22	4	17654
9	3285	19387	22671	1488	206	6446	17919	38	69	18026
10	3398	19354	22751	1427	215	6982	17411	69	159	17638
11	2835	19392	22227	1398	219	7269	16575	65	156	16796
12	1914	19389	21303	1389	232	6297	16627	32	157	16816
13	1196	19335	20531	1349	240	6021	16100	1	153	16254
14	752	19164	19916	1382	238	6267	15269	12	153	15434
15	605	18975	19581	1380	245	6332	14873	7	106	14985
16	605	18905	19510	1476	232	6043	15175	41	104	15320
17	764	19121	19885	1539	195	5475	16144	28	0	16172
18	2322	19219	21541	1557	160	4350	18908	-3	46	18951
19	3338	19285	22623	1556	161	4794	19546	2	149	19697
20	2849	19267	22116	1578	180	4991	18881	0	54	18935
21	1547	18913	20459	1540	193	4011	18181	27	31	18239
22	704	18332	19036	1555	224	3933	16881	30	118	17029
23	310	17331	17641	1523	240	3975	15429	26	66	15521
24	275	16586	16861	1507	260	3962	14666	4	0	14670

Hourly Load Generation Data of ER On Regional Lean Day During The Month of DECEMBER'2020 (6-12-2020)

(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	462	15478	15940	1382	460	4648	13134	21	1	13156
2	485	14882	15367	1436	467	4353	12917	9	1	12927
3	620	14312	14933	1427	463	4182	12642	-3	2	12644
4	530	14176	14706	1428	466	3966	12634	8	2	12644
5	641	14516	15157	1445	453	3994	13062	17	2	13081
6	505	15987	16492	1472	446	4659	13750	-1	2	13751
7	738	16851	17589	1435	421	4814	14631	-36	5	14636
8	1794	18382	20176	1534	408	6967	15151	-21	97	15227
9	2546	18883	21429	1598	404	8762	14668	1	93	14763
10	2815	18992	21807	1557	416	9250	14531	-5	91	14617
11	2435	18764	21199	1580	422	9170	14031	5	127	14163
12	1395	18016	19411	1483	420	7223	14090	-6	12	14096
13	952	17817	18769	1416	416	6628	13973	-1	0	13973
14	502	17317	17819	1351	414	6323	13261	-8	0	13261
15	542	16910	17452	1400	413	6925	12340	-4	0	12340
16	838	17168	18006	1428	410	7227	12617	1	0	12618
17	724	18299	19023	1494	393	7106	13804	-11	175	13967
18	2814	18781	21595	1499	362	6869	16587	-26	193	16754
19	3275	18764	22039	1497	363	6978	16921	-24	189	17086
20	2662	18382	21044	1477	379	6557	16342	26	169	16537
21	1516	17770	19285	1520	385	5653	15538	46	95	15679
22	1054	16562	17616	1478	407	4934	14567	1	0	14568
23	579	15582	16161	1451	432	4427	13618	23	64	13705
24	376	14906	15283	1434	460	4044	13133	14	64	13210

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

FOR THE MONTH OF DECEMBER'2020

POWER CUT / RESTRICTIONS

BSPHCL	NO NOTIFIED CUTS/RESTRICTIONS However there was loadshedding of 4.56 MU
JUVNL	NO NOTIFIED CUTS/RESTRICTIONS However there was loadshedding of 38.72 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 1.45 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

Dec-20

D A T E	H O U R S						INST. FREQ.				15 MIN. INTEGRATED			
	00	05	10	17	22	00	<49.9	49.9	>50.05	49.9	MAX HZ	HRS.	MIN HZ	HRS.
	TO	TO	TO	TO	TO	TO		TO	TO	TO				
	05	10	17	22	24	24		50.1		50.05				
01-Dec	49.99	50.02	50.01	50.00	50.02	50.01	1.60	74.00	24.40	74.00	50.19	10:01:00	49.85	04:19:10
02-Dec	49.98	50.00	49.99	50.01	50.02	50.00	2.20	80.50	17.30	80.50	50.16	13:02	49.81	12:19
03-Dec	49.99	49.97	49.98	49.96	50.01	49.98	7.60	79.40	13.00	79.40	50.20	13:01	49.76	19:05
04-Dec	50.00	49.95	49.95	50.00	50.00	49.98	11.10	74.30	14.70	74.30	50.18	14:02	49.70	16:42
05-Dec	50.00	49.97	50.03	49.98	49.97	49.99	3.70	78.60	17.70	78.60	50.16	14:04:30	49.80	09:11:50
06-Dec	49.98	50.02	50.01	49.99	49.96	50.00	3.30	77.60	19.10	77.60	50.23	6:18	49.80	20:38
07-Dec	50.00	49.94	49.99	50.03	50.01	49.99	8.50	72.60	18.90	72.60	50.18	21:49	49.71	15:44
08-Dec	50.01	50.02	50.00	50.02	50.02	50.01	0.90	75.80	23.30	75.80	50.20	6:03	49.85	14:15
09-Dec	50.01	50.01	49.99	50.02	49.98	50.00	2.80	75.10	22.10	75.10	50.18	17:01	49.80	22:10
10-Dec	50.00	50.01	50.04	50.02	50.00	50.02	0.60	68.70	30.70	68.70	50.17	16:02	49.86	22:06
11-Dec	49.98	49.97	49.99	49.99	49.98	49.98	6.90	78.90	14.20	78.90	50.16	18:01	49.77	9:14
12-Dec	50.03	50.01	50.00	49.98	49.99	50.00	3.00	76.90	20.10	76.90	50.19	4:31	49.80	18:09
13-Dec	49.98	50.01	50.03	50.02	50.03	50.01	1.00	72.40	26.50	72.40	50.21	14:03	49.83	5:15
14-Dec	50.00	49.97	50.01	50.01	50.01	50.00	4.50	74.20	21.20	74.20	50.21	22:00	49.80	7:26
15-Dec	49.96	49.97	50.01	50.00	50.02	49.99	6.10	76.40	17.50	76.40	50.23	5:02	49.66	7:18
16-Dec	49.96	49.94	50.01	50.00	50.02	49.98	8.10	74.50	17.40	74.50	50.19	22:01	49.80	9:57
17-Dec	49.99	49.96	49.99	49.99	50.01	49.99	8.40	73.00	18.60	73.00	50.17	14:01:50	49.72	19:40:00
18-Dec	50.00	50.00	49.98	49.99	50.01	49.99	7.70	70.90	21.30	70.90	50.16	21:40:00	49.85	11:36:40
19-Dec	50.00	50.01	49.99	50.03	50.02	50.01	0.80	78.00	21.20	78.00	50.22	06:03:20	49.80	14:15:20
20-Dec	50.00	50.01	50.00	50.03	50.05	50.01	1.80	69.90	28.30	69.90	50.22	14:02:50	49.79	15:41:30
21-Dec	50.02	49.99	50.00	49.99	50.01	50.00	3.70	72.20	24.10	72.20	50.23	14:02:30	49.80	16:25:40
22-Dec	49.99	49.94	50.00	50.00	50.02	49.99	6.60	76.90	16.50	76.90	50.21	06:01:40	49.79	09:42:59
23-Dec	49.98	50.00	49.99	50.01	50.01	50.00	2.70	78.00	19.30	78.00	50.16	07:55:50	49.79	13:59:30
24-Dec	49.97	50.02	49.99	50.00	49.99	49.99	4.34	75.23	20.43	75.23	50.17	11:01:20	49.72	03:40:40
25-Dec	50.00	50.00	49.97	50.01	50.02	49.99	4.80	76.80	18.40	76.80	50.26	14:02:00	49.77	09:52:10
26-Dec	50.00	49.99	50.00	50.00	50.01	50.00	1.70	81.20	17.20	81.20	50.18	13:03:30	49.84	06:12:30
27-Dec	50.01	50.01	49.99	50.01	49.99	50.00	1.10	82.60	16.30	82.60	50.19	22:01:40	49.85	17:39:30
28-Dec	50.01	50.02	49.99	50.01	49.99	50.01	2.90	74.10	23.00	74.10	50.17	06:18:20	49.84	14:41:50
29-Dec	49.99	50.00	49.96	50.02	50.00	49.99	7.30	75.20	17.50	75.20	50.20	06:02:20	49.75	16:42:00
30-Dec	49.93	49.96	50.00	49.99	50.00	49.97	10.00	77.20	12.80	77.20	50.18	14:02:30	49.78	05:15:10
31-Dec	50.00	49.98	49.97	49.94	49.92	49.96	12.60	77.10	10.30	77.10	50.17	23:59:50	49.74	09:04:10
MAX	50.03	50.02	50.04	50.03	50.05	50.02	12.60	82.60	30.70	82.60	50.26		49.86	
MIN	49.93	49.94	49.95	49.94	49.92	49.96	0.60	68.70	10.30	68.70	50.16		49.66	
AVG	49.99	49.99	50.00	50.00	50.00	50.00	4.79	75.75	19.46	75.75	50.19		49.79	

SUMMARY:

Avg. Frequency :

50.0 Hz.

Instantaneous Frequency :

Maximum Frequency : 50.26 Hz at 14:02 Hrs.

Minimum Frequency : 49.66 Hz at 09:57 Hrs.

15 Minutes Integrated Frequency :

Maximum Frequency : 50.15 Hz On 00/01/00 at 00:00 Hrs.

Minimum Frequency : 49.76 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	4.79	75.75	19.46

VOLTAGE ANALYSIS

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

(All figs. in kV)

PGCIL	BINAGURI		MAITHON		JEERAT		BIHARSHARIFF	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	420	401	424	405	425	390	422	398

PGCIL	MUZAFFARPUR		JAMSHEDPUR		ROURKELA		JEYPORE	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	417	389	417	401	418	407	422	405

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

Dec-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	
			(31-12-20)	(31-12-19)		
Hirakud	192	180	190.87	191.66	191.28	01.12.20
Balimela	462	439	456.01	459.55	457.20	01.12.20
Rengali	123	109	119.01	122.90	119.92	01.12.20
Upperkolab	858	844	852.22	856.60	852.64	01.12.20
Indravati	642	625	637.85	640.17	637.56	01.12.20
Subernrekha	590	580	585.92	586.71	586.34	01.12.20

B.

CPP/IPP IMPORT by Eastern Region Constituents during

Dec-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	33.87
West Bengal	67.98	26.92	0	0	0	0	0	129.88	224.78
ODISHA	0	0	22.89	381.14	4.65	38.72	0	380.85	828.26
DVC	0	0	0	0	0	0	19.15	0	19.15
TOTAL	67.98	26.92	22.89	381.14	4.65	38.72	19.15	510.72	1106.05

C.

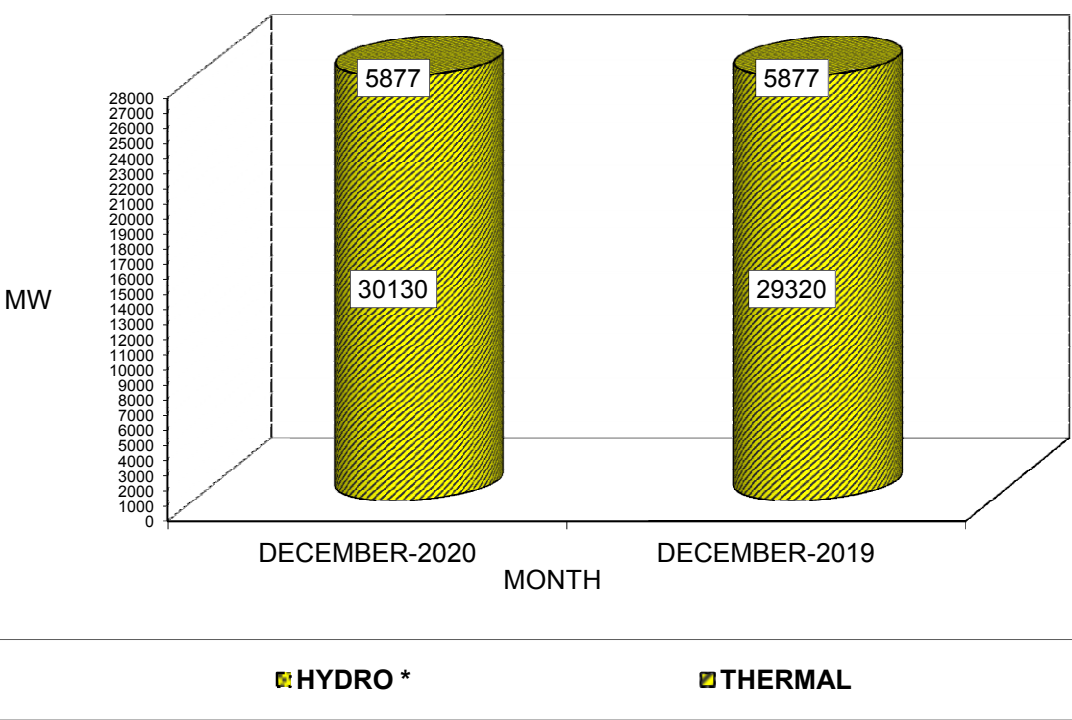
Distribution of Schedule Supply among Key Customers by IPPs during

Dec-20

(All figs. are in MU)

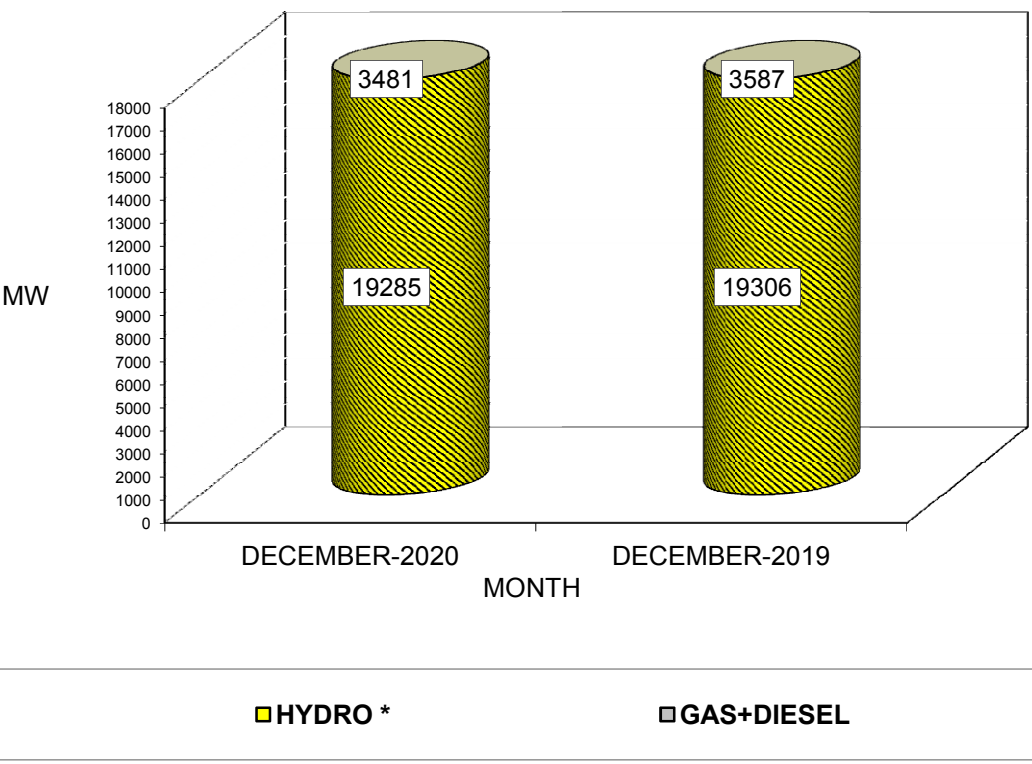
IPP	TPDDL	WBSEDCL/ WBPDCL	DVC	Sale at IEX/NPCL	ODISHA	JSEB	CTU/Others	Total (Excl. Tr. Loss)
MPL	169.33	136.85	56.14	0.00	0	0	232.46	594.78
Sterlite	0	0	0	0	0.00	0	0.00	0.00
APNRL	0	55.20	0	10.17	0.00	118.40	62.70	246.47
Total	169.33	192.05	56.14	10.17	0.00	118.40	295.16	841.25

EFFECTIVE CAPACITY OF EASTERN REGIONAL GRID



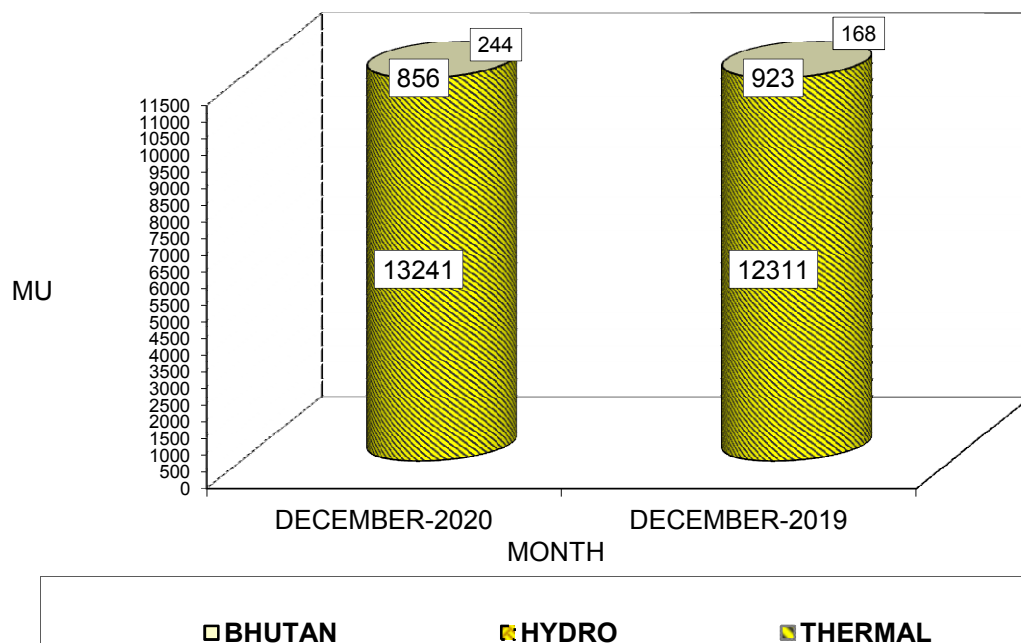
*Excludes contribution from HEPs of Bhutan

GENERATION CORRESPONDING TO PEAK DEMAND MET

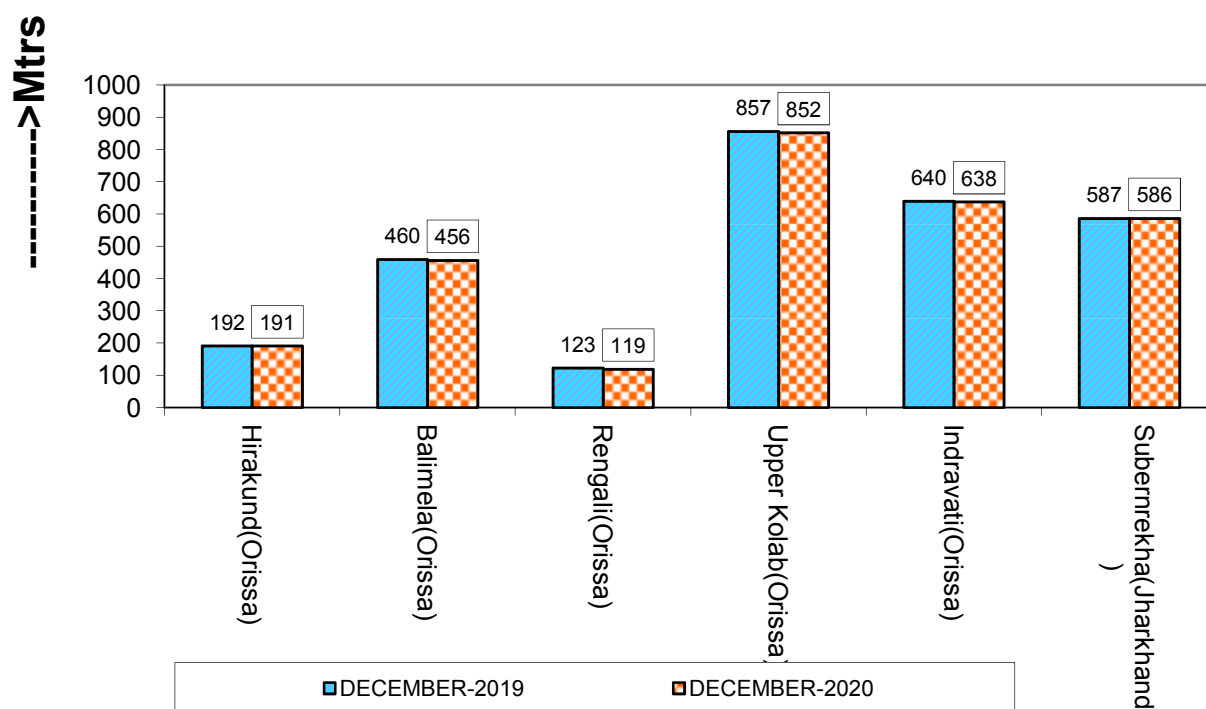


*Includes contribution from HEP of Bhutan

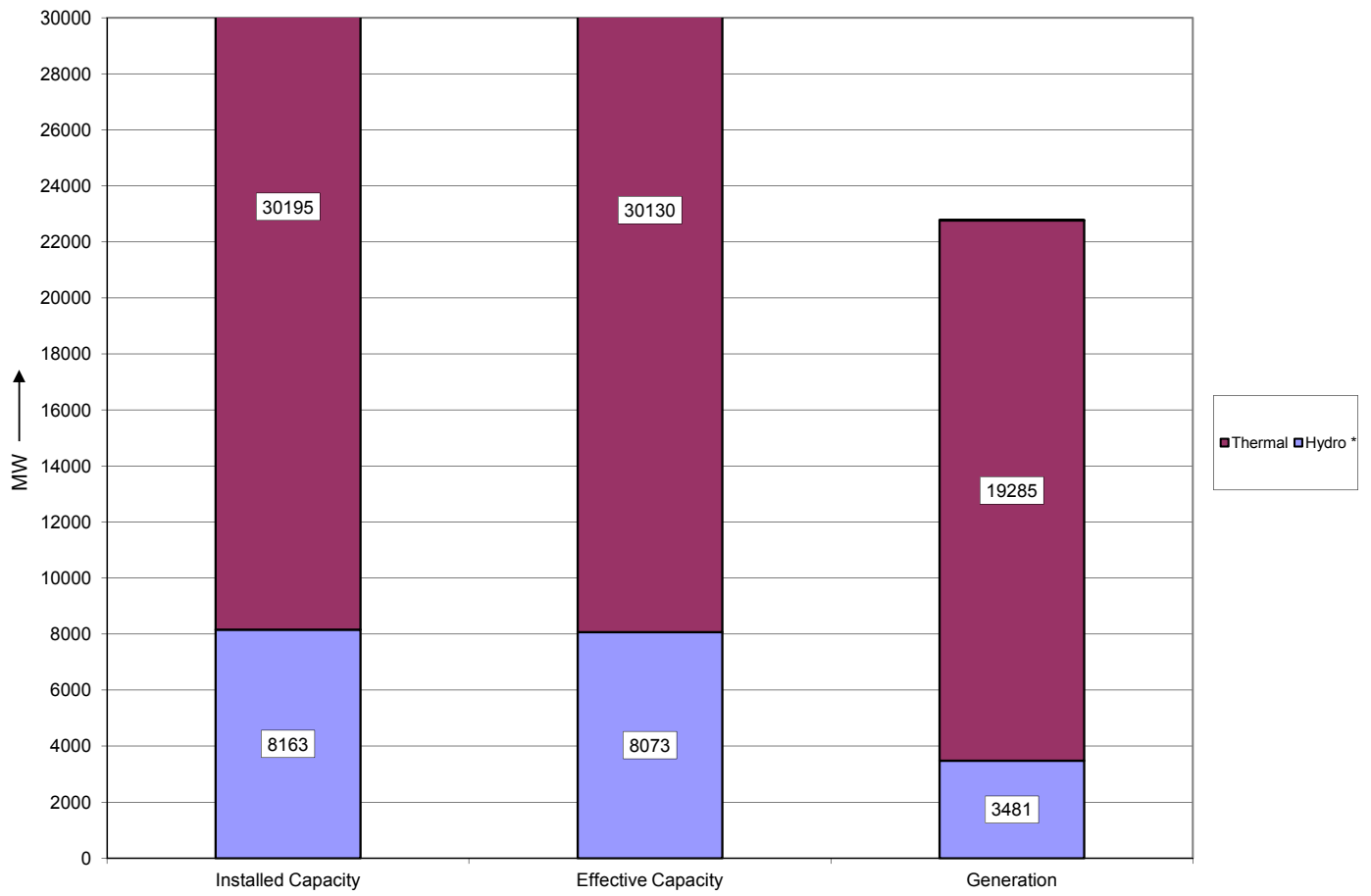
NET ENERGY GENERATION



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

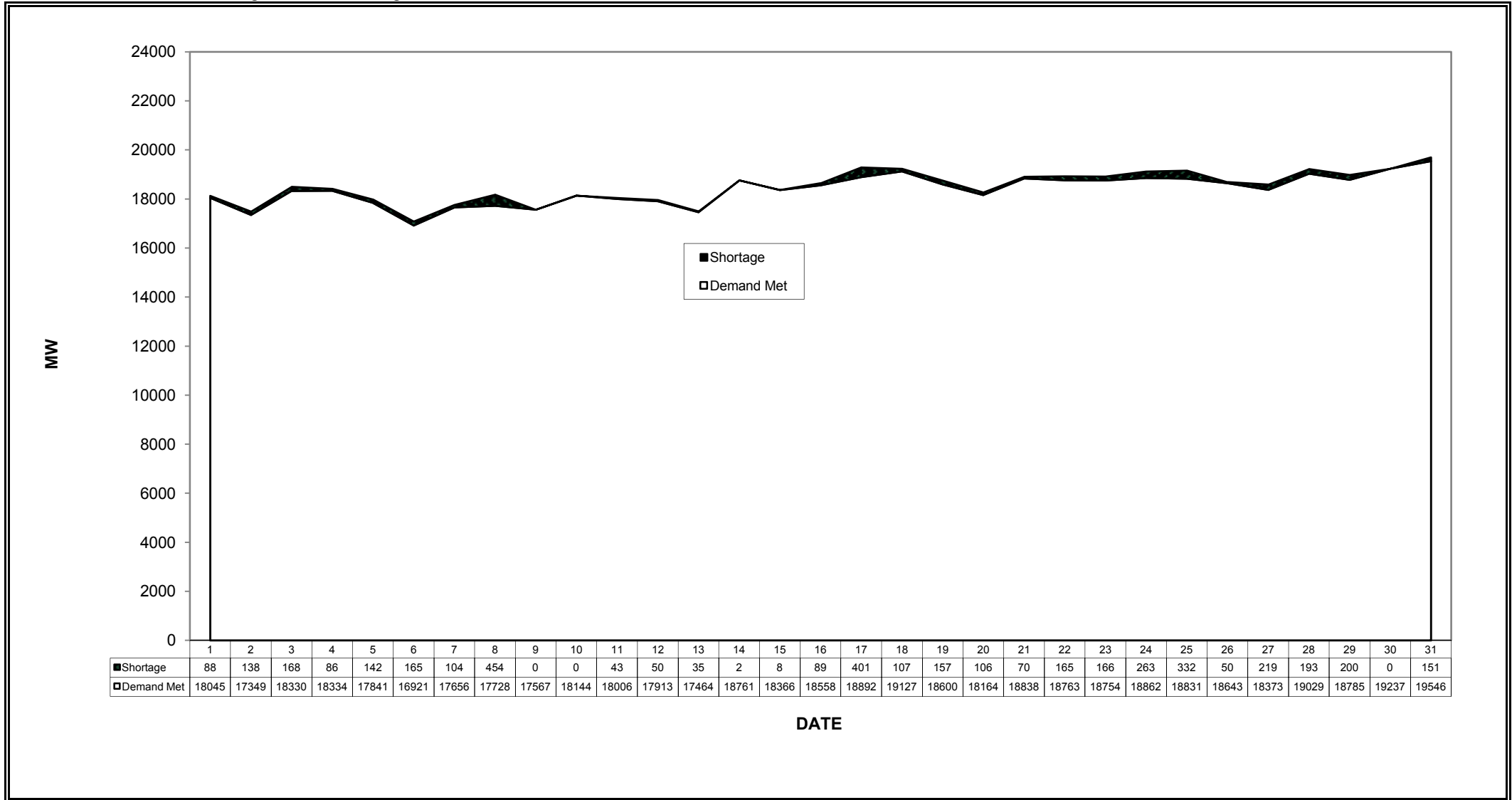


Capacity / Actual Generation Pattern of ER on Peak Day (31-12-2020) at 19.00 hrs.

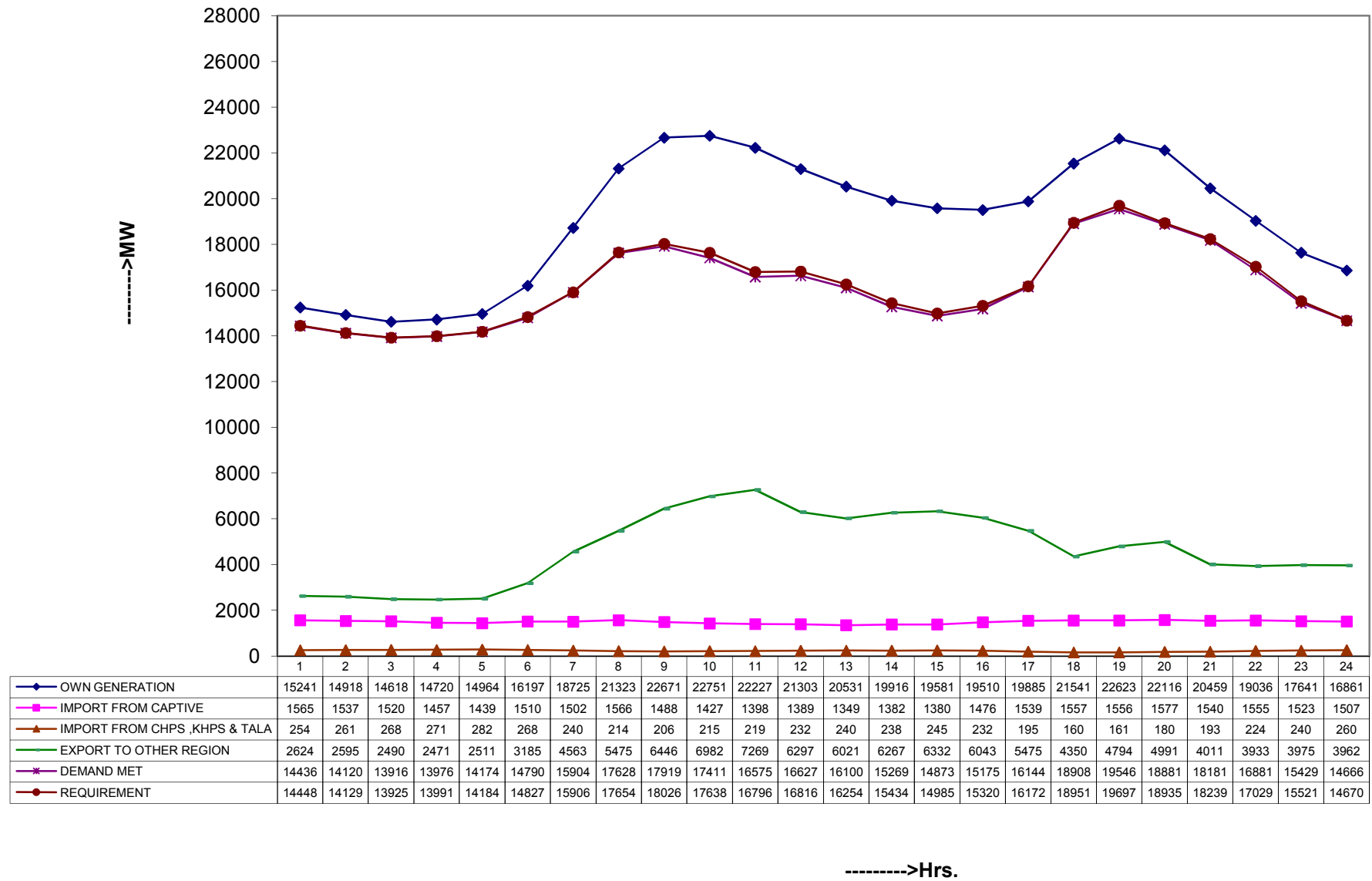


(*)--Includes contribution from HEP of Bhutan (Chukka, Kurichhu & Tala)

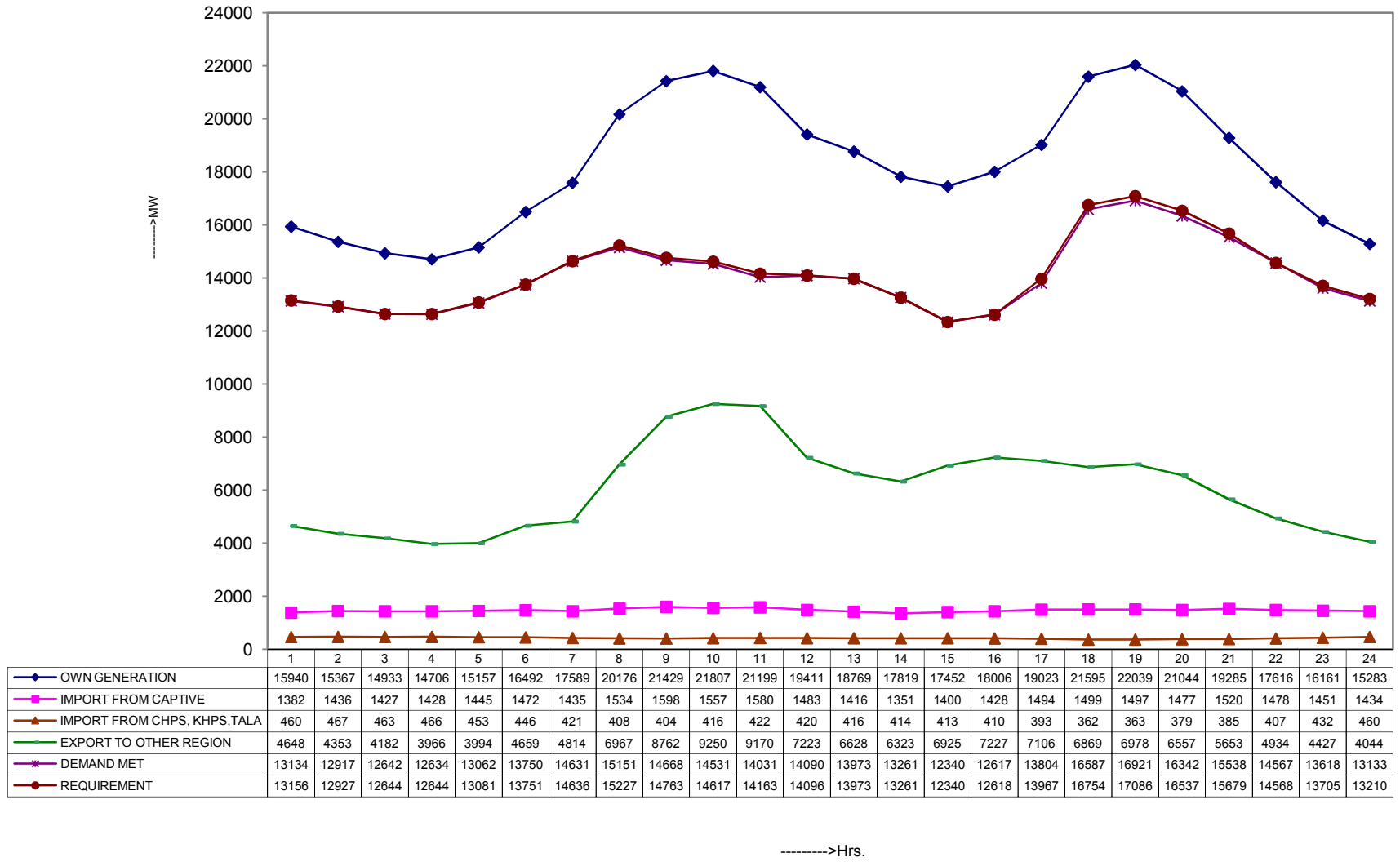
Peak Demand Met / Shortage of Eastern Region For The Month Of DECEMBER'2020



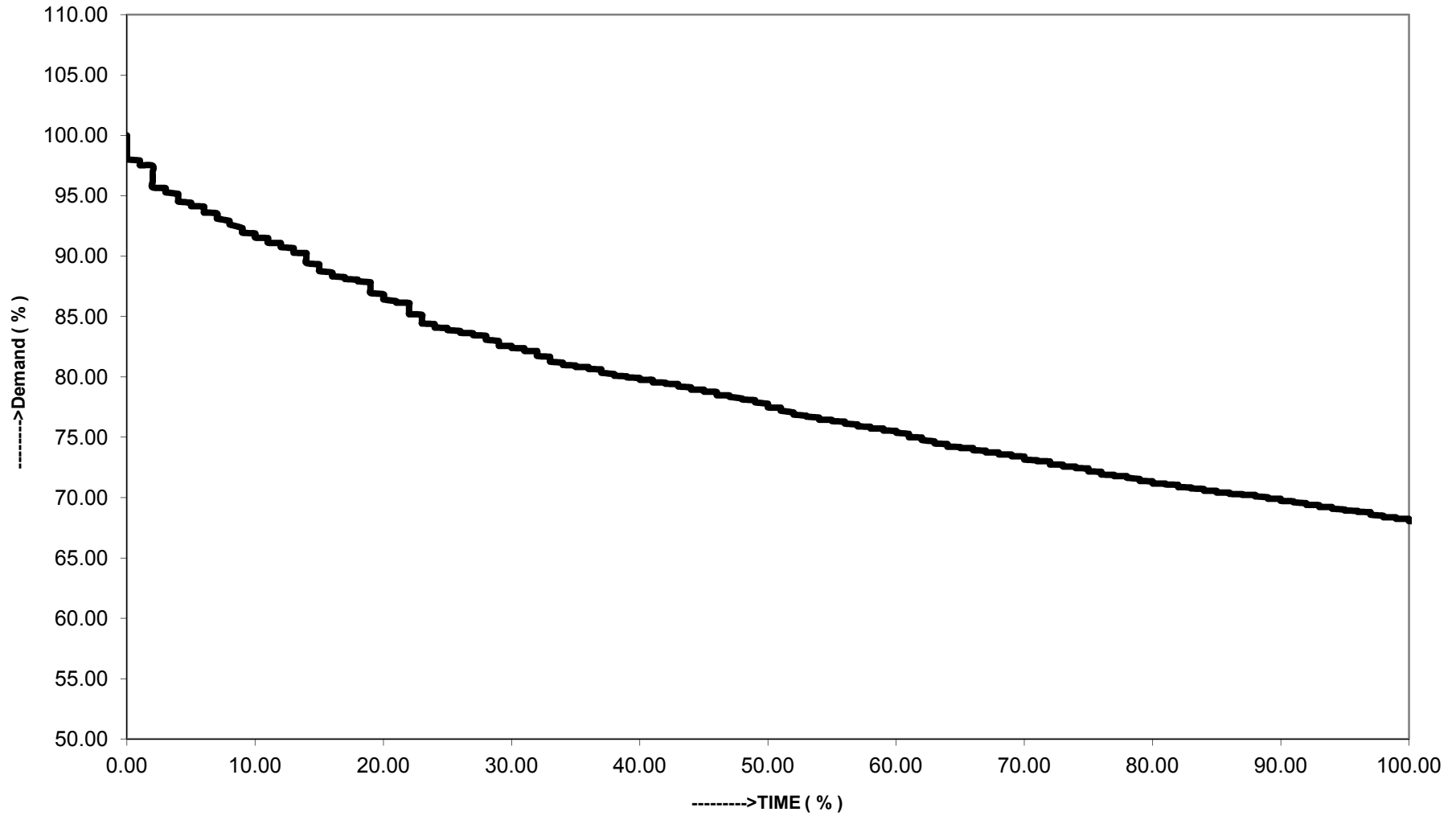
Hourly Load Generation Data OF ER On Regional Peak Day During The Month of DECEMBER'2020 (31-12-2020)



Hourly Load Generation Data of ER On Regional Lean Day During The Month of DECEMBER'2020 (6-12-2020)

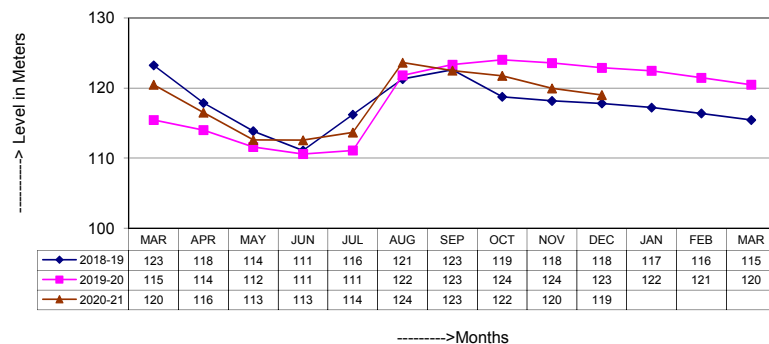


Monthly Load Duration Curve of Eastern Region for DECEMBER-2020

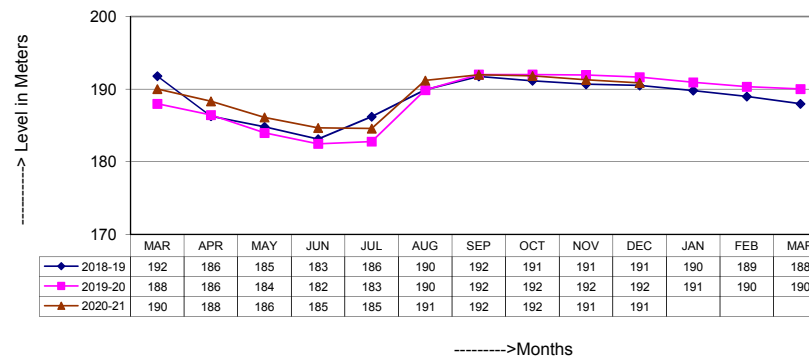
Maximum Demand met : 19546 MW**Minimum Demand met: 12340 MW**

WATER LEVEL IN MAJOR RESERVOIRS ON LAST DATE OF MONTH

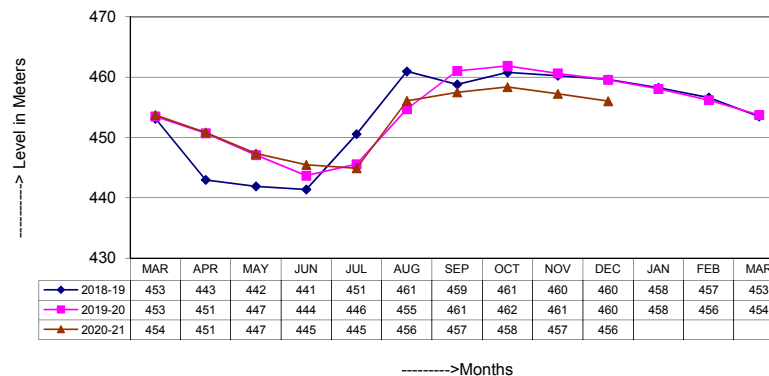
RENGALI RESERVOIR LEVEL



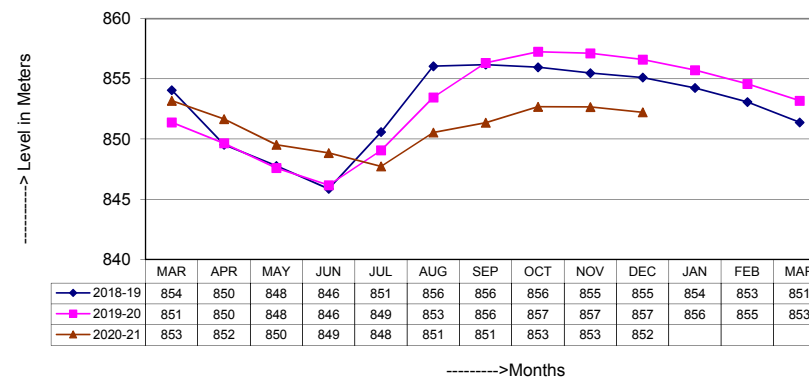
HIRAKUD RESERVOIR LEVEL



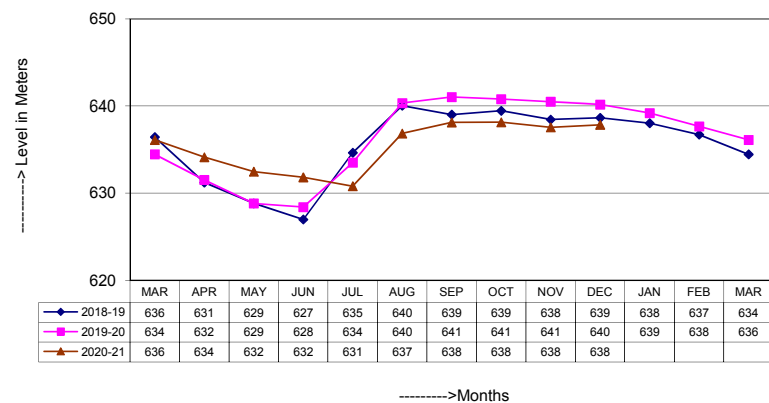
BALIMELA RESERVOIR LEVEL



UPPER KOLAB RESERVOIR LEVEL



INDRAVATI RESERVOIR LEVEL



SUBERNREKHA RESERVOIR LEVEL

