



सत्यमेव जयते

Government of India

विद्युत मंत्रालय

Ministry of Power

पूर्वी क्षेत्रीय विद्युत समिति

EASTERN REGIONAL POWER COMMITTEE

मासिक प्रगति रिपोर्ट

PROGRESS REPORT FOR THE MONTH OF

दिसंबर- 2019

December-2019



14, गोल्फ क्लब रोड, टोलीगंज

14, Golf Club Road, Tollygunge

कोलकाता -700033

Kolkata: 700 033

Highlights of Eastern Regional Power System for December-2019

- The **Maximum Net Demand** met of **Eastern Region (ER)** during the month of **Dec, 2019** was **18068 MW** which is marginally more than the **Dec, 2018** (18023 MW). Individual **Peak Demand (MW)** of most of constituents **increased** compared to the corresponding period of last year.
- The **Average Net Energy Consumption** per day in ER for the month of **Dec, 2019** was **338.9 MU** excluding export, which is marginally less than the corresponding period of last year (340.51 MU).
- The **Average regional PLF of thermal units during the month is 60.45%**, which is 1.85% less than the corresponding period of the last year (62.30%).

NTPC (TTPS) registered the highest **PLF** of 94.54%, followed by NTPC (FSTPP III) 88.91% and NTPC (TSTPP) 86.12% during the month of **Dec, 2019**.
- **Maximum Net generation** was **22991 MW** against total **Effective Capacity of 38881.26 MW** (including import from Bhutan). At the time of Regional peak (18068 MW on 27.12.2019 at 19.00 hrs.) the generation was 22921 MW and import from CPP was 805 MW, Net export was 5657 MW.
- The system frequency in the IEGC recommended band (49.9 Hz to 50.05 Hz) remained for 71.68% of time during the month. **Average frequency** for the month was **49.99 Hz**. The instantaneous maximum and the minimum frequency touched were 50.34 Hz and 49.65 Hz respectively. The integrated (Fifteen minutes time block average) maximum and minimum frequency were **50.19 Hz** and **49.76 Hz** respectively (**refer Annexure-I**).
- The **Maximum Voltage** recorded **430 KV** at Muzaffarpur 400 KV S/s whereas the minimum voltage recorded 374 KV at Biharsharif 400 KV S/s of Power grid.
- The **Maximum Export from ER to outside region** was **8712 MW** (including Nepal and Bangladesh) on **7th Dec, 2019** at 10:00 hrs. Total net energy export during the month was 3670.19 MU (Inc. Transmission loss) MU which corresponds to 27.23 % of ex-bus total generation 13480.58 MU of Eastern Region.
- The import from CPPs was 695.58 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	5416	0	2329.12
WR	1944	2503	0.00
SR	3424	0	1645.34
NER	222	816	0.00
BANGLADESH	741	0	218.39
NEPAL (via-CTU)	270		153.48
Total	8712		3670.19
NEPAL by Bihar(NBPDCL)			27.10

SALIENT FEATURES

(YEAR TO YEAR COMPARISION)

		Dec-19		DEC-2018	CHANGE	% CHANGE
1)	Effective Capacity (end of the Month)					
	THERMAL (MW)	29320		27090	2230	8.23
	HYDRO (MW)	5877	\$	5876	1	0
	DIESEL (MW)	0		0	0	0
	RES (MW)	1489		886	0	0
	TOTAL (MW)	36685		33852	2833	8.37
2)	Peak Demand (MW)	18068		18049	19	0.11
3)	Peak Demand Met (MW)	18068		18023	45	0.25
4)	Shortage (MW)	0		25	-25	-100.00
5)	% Shortage	0.00		0.14	-0.14	-100.00
6)	Average Energy Requirement Per Day (MU)	339.25		342.17	-2.92	-0.85
7)	Average Energy Availability Per Day (MU)	338.90		340.51	-1.61	-0.47
8)	Average Shortage Per Day (MU)	0.35		1.66	-1.31	-78.80
9)	% Shortage	0.10		0.49	-0.39	-78.83
10)	Net Generation for the Month					
	Thermal (MU)	12310.70		11600.13	710.57	6.13
	Hydro (MU)	1090.67	*	943.93	146.74	15.55
	RES (MU)	79.21		0.00	0.00	-
	Total (MU)	13480.58		12606.73	873.85	6.93
11)	Generation at the Time of Max. Regional Demand Met (27-12-19 at 19.00 Hrs.)					
	Thermal (MW)	19306		16335	2971	18.19
	Hydro (MW)	3587	*	3194	393	12.29
	RES(MW)	28		20	8	41.37
	Total (MW)	22921		19549	3372	17.25
12)	Inter-Regional Energy Transfer					
	Export (MU)	4346.33		3430.83	915.50	26.68
	Import (MU)	676.14		752.82	-76.68	-10.19
	Net Exp.(+)/Net Imp.(-) (MU)	3670.19		2678.02	992.17	37.05
13)	Import From Captive(MU)	695.58		626.96	68.62	10.94
14)	Peak Inter Regional Power Transfer					
	Max Export (MW) on 07-12-19 at 10.00Hrs	8712		6608	2104	31.84
	Max Import (MW) on 24-12-19 at 20.00Hrs	2982		2809	173	6.17
	Max Net Export(+)/Import (-) (MW)	8268		5915	2353	39.78
15)	Maximum voltage recorded	430		MUZAFFARPUR 400 kv s/s		
16)	Minimum voltage recorded	374		BIHARSHARIFF 400 kv s/s		

\$ Excludes 2196 MW contribution from HEPs of Bhutan

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

1.Regional Consumption as well as individual consumption except Jharkhand (in MU) is less compared to same month of last last year due to unseasonal rain (Bulbul Cyclone) in Eastern Region

POWER SUPPLY POSITION FOR THE MONTH OF DEC'2019

A) Net Average Energy Per Day

System	Demand Met (MU/Day)	Requirement (MU/Day)	Shortage (MU/Day)	% Shortage
BSPHCL	70.81	71.11	0.30	0.42
JUVNL	24.74	24.81	0.07	0.29
DVC	60.39	60.41	0.01	0.02
ODISHA	71.13	71.15	0.02	0.02
WBSIEDCL	87.69	87.80	0.11	0.13
CESC	22.13	22.13	0.00	0.02
SIKKIM	1.85	1.85	0.00	0.02
REGION	338.9	339.25	0.35	0.10

B) Peak Demand in MW:

System	Demand Met (MW)	Requirement (MW)	Shortage (MW)	% Shortage
BSPHCL	4614	4617	3	0.07
JUVNL	1356	1356	0	0.00
DVC	2848	2850	2	0.07
ODISHA	4198	4198	0	0.00
WBSIEDCL	4754	4759	5	0.11
CESC	1359	1359	0	0.0
SIKKIM	111	111	0	0.00
REGION	18068	18068	0	0.00

➤ **DIVERSITY FACTOR** **1.06**

➤ **Regional Peak Demand Met on 27-12-2019 at 19.00 hrs. at 50.02 Hz.**

CONSTITUENT-WISE PERFORMANCE DATA DECEMBER-19

SYSTEM	Gross Generation(MU)				Auxiliary power Consumption(MU)				Net Generation (MU)				Import from Captive (MU)	Exchange	Energy	Per Day	Net Peak	Gross Peak
	HYDRO	Thermal	RES (Hy+Solar)	Total	HYDRO	Thermal	Solar	Total	HYDRO	Thermal	Solar	Total		Net Import(+) Net Export(-)	Consumption(MU)	Cons.(MU)	Demand	Demand
BSPHCL	0.00	3.32	40.42	43.73	0.00	1.36	0.00	1.36	0.00	1.96	40.42	42.38	0.00	2152.73	2195.11	70.8	4614	4614
JUVNL	5.71	220.67	0.00	226.38	0.00	26.88	0.00	26.88	5.71	193.79	0.00	199.50	45.18	522.15	766.83	24.7	1356	1394
DVC	7.00	3042.32	0.00	3049.32	0.07	210.88	0.00	210.96	6.93	2831.44	0.00	2838.37	6.63	-972.83	1872.16	60.4	2848	3156
ODISHA(OPGC+OHPC+TTPS)	376.63	968.86	26.83	1372.32	2.97	95.11	0.00	98.08	373.66	873.75	26.83	1274.24	566.22	364.68	2205.13	71.1	4198	4337
WBPDC+WBSEDCL+DPL	137.11	1810.67	8.92	1956.69	0.00	167.21	0.00	167.21	137.11	1643.46	8.92	1789.49	77.55	851.33	2718.37	87.7	4754	5016
CESC	0.00	352.95	0.00	352.95	0.00	29.37	0.00	29.37	0.00	323.58	0.00	323.58	0.00	362.32	685.90	22.1	1359	1405
HEL	0.00	382.73	0.00	382.73	0.00	27.03	0.00	27.03	0.00	355.70	0.00	355.70	0.00	-355.70				
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	55.29	57.29	1.8	111	111
NTPC	0.00	4879.09	1.04	4880.13	0.00	361.01	0.00	361.01	0.00	4518.08	1.04	4519.12	0.00	-4519.12				
MPL	0.00	592.46	0.00	592.46	0.00	34.07	0.00	34.07	0.00	558.39	0.00	558.39	0.00	-558.39				
APNRL	0.00	270.26	0.00	270.26	0.00	20.16	0.00	20.16	0.00	250.10	0.00	250.10	0.00	-250.10				
GMR	0.00	401.42	0.00	401.42	0.00	26.15	0.00	26.15	0.00	375.27	0.00	375.27	0.00	-375.27				
JITPL	0.00	411.25	0.00	411.25	0.00	26.05	0.00	26.05	0.00	385.20	0.00	385.20	0.00	-385.20				
NHPC (Inc TLDP= 41.37 MU)	158.09	0.00	0.00	158.09	0.00	0.00	0.00	0.00	158.09	0.00	0.00	158.09	0.00	-158.09	0.00			
CHPC(Birpara Receipt)	37.48	0.00	0.00	37.48	0.00	0.00	0.00	0.00	37.48	0.00	0.00	37.48	0.00	-37.48	0.00			
KHPS	-15.37	0.00	0.00	-15.37	0.00	0.00	0.00	0.00	-15.37	0.00	0.00	-15.37	0.00	15.37	0.00			
THPS	32.14	0.00	0.00	32.14	0.00	0.00	0.00	0.00	32.14	0.00	0.00	32.14	0.00	-32.14	0.00			
DAGACHU HPS	18.47	0.00	0.00	18.47	0.00	0.00	0.00	0.00	18.47	0.00	0.00	18.47	0.00	-18.47	0.00			
Mangdechhu HEP	95.71	0.00	0.00	95.71	0.00	0.00	0.00	0.00	95.71	0.00	0.00	95.71	0.00	-95.71	0.00			
CHUZACHEN HPS	11.76	0.00	0.00	11.76	0.00	0.00	0.00	0.00	11.76	0.00	0.00	11.76	0.00	-11.76	0.00			
JORHANG HPS	15.78	0.00	0.00	15.78	0.00	0.00	0.00	0.00	15.78	0.00	0.00	15.78	0.00	-15.78	0.00			
TEESTA-III HPS	188.03	0.00	0.00	188.03	0.00	0.00	0.00	0.00	188.03	0.00	0.00	188.03	0.00	-188.03	0.00			
DIKCHU HPS	10.52	0.00	0.00	10.52	0.00	0.00	0.00	0.00	10.52	0.00	0.00	10.52	0.00	-10.52	0.00			
TASHIDING HPS	14.65	0.00	0.00	14.65	0.00	0.00	0.00	0.00	14.65	0.00	0.00	14.65	0.00	-14.65	0.00			
Total Drawal by HVDC Sahsaram,Alipurduar														5.14	5.14			
Total	1093.71	13335.99	79.21	14508.91	3.04	1025.28	0.00	1028.32	1090.67	12310.71	79.21	13480.59	695.58	-3670.25	10505.93	338.9	18068	19564

3A

13480.59

10505.93

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

A) Net Average Energy

Month	2018-19					2019-20				
	Demand Met (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	393.59	396.98	3.39	0.85	49.96	428.71	429.56	0.85	0.20	50.00
MAY	420.52	425.36	4.84	1.14	49.94	451.15	452.79	1.64	0.36	49.99
JUNE	437.39	441.13	3.74	0.85	49.97	461.72	462.87	1.15	0.25	49.99
JULY	425.68	427.31	1.63	0.38	49.97	450.73	451.52	0.79	0.17	50.00
AUGUST	446.36	449.17	2.81	0.63	49.97	460.9	462.13	1.26	0.27	49.99
SEPTEMBER	440.53	448.47	7.94	1.77	49.96	445.43	446.55	1.12	0.25	50.00
OCTOBER	419.33	423.20	3.87	0.91	49.96	391.21	391.33	0.12	0.03	50.00
NOVEMBER	368.99	371.76	2.77	0.75	49.97	344.02	344.15	0.12	0.04	50.00
DECEMBER	340.51	342.17	1.66	0.49	49.96	338.90	339.25	0.35	0.10	49.99
JANUARY	355.14	357.42	2.29	0.64	49.98	-	-	-	-	-
FEBRUARY	356.66	357.25	0.59	0.17	49.99	-	-	-	-	-
MARCH	384.42	385.48	1.06	0.27	49.99	-	-	-	-	-

B) Peak in MW:

Month	2018-19					2019-20				
	Demand Met (MW)	Requirement (MW)	Shortage (MW)	Shortage (%)	Avg. Freq. (HZ)	Demand Met (MW)	Requirement (MW)	Shortage (MW)	Shortage (%)	Avg. Freq. (HZ)
APRIL	21058	21128	70	0.33	49.96	22378	22415	37	0.17	50.00
MAY	21902	22012	111	0.50	49.94	22781	22830	49	0.22	49.99
JUNE	22080	22964	884	3.85	49.97	22808	22867	59	0.26	49.99
JULY	21790	21849	59	0.27	49.97	23154	23246	92	0.40	50.00
AUGUST	22580	22794	215	0.94	49.97	23398	23421	22	0.10	49.99
SEPTEMBER	22286	22815	529	2.32	49.96	23126	23276	150	0.64	50.00
OCTOBER	22733	23093	360	1.56	49.96	21706	21726	20	0.09	50.00
NOVEMBER	20322	20512	190	0.93	49.97	19212	19291	79	0.41	50.00
DECEMBER	18023	18049	25	0.14	49.96	18068	18068	0	0.00	49.99
JANUARY	18702	18783	81	0.43	49.98	-	-	-	-	-
FEBRUARY	18921	18923	2	0.01	49.99	-	-	-	-	-
MARCH	21221	21416	195	0.91	49.99	-	-	-	-	-

PERFORMANCE OF GENERATING STATIONS IN THE EASTERN REGION DURING THE MONTH OF DECEMBER-2019

ORGANI- SATION	TYPE	POWER STATION	INSTALLED CAPACITY (in MW)	EFFECTIVE CAPACITY (in MW)	Gross Energy Generation in MU	Net Energy Generation in MU	Cummulative Gross Energy Generation upto Current Month (2019-20) in MU	Cummulative Net Energy Generation upto Current Month (2019-20) in MU
BIHAR	Thermal	Barauni (U# 6&7)	220.00	210.00	0.00	0.00	125.01	107.59
		Muzaffarpur Stg-I	220.00	220.00	3.32	1.96	587.75	511.20
		Thermal Total	440.00	430.00	3.32	1.96	712.76	618.78
	RES		341.25	341.25	40.42	40.42	223.53	223.53
		Total BIHAR	781.25	771.25	43.73	42.38	936.29	842.32
JHARKHAND								
TVNL	Thermal	TVNL	420.00	420.00	220.67	193.79	1855.53	1626.78
JSEB	Hydro	Subarnrekha (U#1,2)	130.00	130.00	5.71	5.71	34.08	34.08
	RES		46.75	46.75	0.00	0.00	0.00	0.00
	Total	176.75	176.75	5.71	5.71	34.08	34.08	
DVC	Thermal	Bokaro-B(3)	210.00	210.00	0.00	0.00	94.03	68.54
		Chandrapura (3)	140.00	130.00	0.00	0.00	0.00	0.00
		Chandrapura(U7 # 8)	500.00	500.00	291.94	263.88	2534.52	2285.93
		Durgapur(4)	210.00	210.00	67.79	59.29	341.03	288.99
		Mezia(1,2,3,4,5,6)	1340.00	1340.00	523.87	469.71	5683.31	5097.79
		Mezia(U # 7,8)	1000.00	1000.00	364.11	343.95	3717.22	3506.90
		Bokaro-A(1)	500.00	500.00	289.08	274.05	2001.81	1887.42
		Durgapur STPS (U#1,2)	1000.00	1000.00	526.14	498.29	4675.49	4408.60
		Raghunathpur TPS (U#1,2)	1200.00	1200.00	419.38	392.52	4081.67	3829.09
		Koderma STPS (U#1,2)	1000.00	1000.00	560.01	530.40	4832.57	4557.75
	Total Thermal	7100.00	7090.00	3042.32	2831.44	27961.64	25930.15	
	Hydro	Maithon (U#1,2,3)	63.20	63.20	4.32	4.29	64.69	64.41
		Panchet (U#1,2)	80.00	80.00	2.68	2.65	95.26	94.63
		Tilaya (U#1,2)	4.00	4.00	0.00	0.0	0.27	0.2
		Hydro Total	147.20	147.20	7.00	6.93	160.22	159.24
	Total DVC	7247.20	7237.20	3049.32	2838.37	28121.86	26089.38	
WEST BENGAL								
WBPCL	Thermal	Bandel TPS	380.00	335.00	22.25	17.44	783.70	691.05
		Santalidih TPS(U#5&6)	500.00	500.00	199.25	181.21	2682.15	2460.50
		Kolaghat TPS	1260.00	1260.00	96.31	81.45	2517.99	2218.97
		Bakreswar TPP	1050.00	1050.00	658.53	600.48	4906.86	4447.85
		Sagardighi TPP	1600.00	1600.00	666.27	612.63	4903.12	4455.80
		DPPS (110+300+250 *)	660.00	660.00	168.06	150.25	1799.86	1611.26
		Thermal Total	5450.00	5405.00	1810.67	1643.46	17593.68	15885.42
WBSEDCL	Hydro	Jaldhaka (3x9+2x4)	35.00	35.00	8.69	8.69	173.97	173.97
		Ramam (4x12.73)	51.00	51.00	13.62	13.62	219.33	219.33
		Teesta C.F. (3x3x7.5)	67.50	67.50	0.00	0.00	43.75	43.75
		Purulia PSS (4x225)	900.00	900.00	114.80	114.80	897.75	897.75
		Total Hydro	1053.50	1053.50	137.11	137.11	1334.79	1334.79
		RES	527.29	527.29	8.92	8.92	153.56	153.56
➤ 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-2019

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	24.27	22.03	328.23	297.11
		Budge-Budge (3x250)	750.00	750.00	328.69	301.55	4326.30	3988.43
		Total CESC	1125.00	1125.00	352.95	323.58	4654.52	4285.54
HEL	Thermal	HEL	600.00	600.00	382.73	355.70	3556.43	3288.85
		Total West Bengal	8755.79	8710.79	2692.38	2468.77	27292.98	24948.16
ODISHA (NTPC)	Thermal	Talcher-I	250.00	240.00	179.70	160.49	1340.04	1188.05
		Talcher-II	220.00	220.00	143.84	128.46	1126.94	998.88
		Total Thermal	470.00	460.00	323.54	288.96	2466.98	2186.93
OPGC	Thermal	IB TPS	420.00	420.00	233.07	206.19	2021.40	1793.19
		IB TPS U#3(660 MW)	660.00	660.00	212.41	199.13	1507.00	1409.86
		IB TPS U#4(660 MW)			199.84	179.46	1288.32	1182.77
OHPC	Hydro	Hirakud-I (Burla)	275.50	275.50	39.34	39.18	478.99	476.67
		Hirakud-II (Chiplima)	72.00	72.00	18.11	18.03	202.55	201.50
		Balimela (6x60+2x75)	510.00	510.00	103.25	102.70	1255.88	1248.39
		Rengali (5x50)	250.00	250.00	39.52	39.42	536.96	535.41
		Upper Kolab (4x80)	320.00	320.00	55.51	55.18	600.23	596.84
		Indravati HPS (4x150)	600.00	600.00	92.53	90.78	1767.88	1748.59
		Mckd.(Odisha drawal)	57.38	57.38	28.37	28.37	229.85	229.85
		Total Hydro	2084.88	2084.88	376.63	373.66	5072.33	5037.26
		RES	511.21	511.21	26.83	26.83	222.57	222.57
		Total Odisha	4806.09	4796.09	1372.32	1274.22	11840.49	11160.12
(**) SIKKIM	Hydro	RES	52.18	52.18	2.00	2.00	23.00	23.00
NTPC		MTPS Stg-II	390.00	390.00	226.721	204.40	1714.94	1535.59
		FSTPP# I&II (3x200+2x500)	1600.00	1600.00	893.19	830.18	7752.86	7137.99
		FSTPP (U# 6)	500.00	500.00	330.75	310.62	1957.95	1826.83
		KhSTPP (4x210+3x500)	2340.00	2340.00	1420.01	1317.90	12301.39	11389.97
		TSTPP (2x500)	1000.00	1000.00	640.77	590.99	4659.16	4259.81
		BARH STPS II (2X660)	1320.00	1320.00	421.45	387.94	6871.38	6482.86
		BRBCL # I,2,3(3X250 MW)	750	750	474.39	440.47	3529.86	3263.25
		NSTPS	660.00	660.00	323.44	306.25	1635.37	1528.28
		DSTPP			148.37	129.33	217.66	182.99
		Total NTPC	8560.00	8560.00	4879.09	4518.08	40640.57	37607.58
NHPC	HYDRO	Rangit (3x20)	60.00	60.00	18.98	18.98	308.54	308.54
		Teesta (3x170)	510.00	510.00	97.74	97.74	2534.96	2534.96
		TLDP - (4x33+4x40)	292.00	292.00	41.37	41.37	1194.33	1194.33
		Total NHPC	862.00	862.00	158.09	158.09	4037.83	4037.83
		MPL (U#1&2)	1050.00	1050.00	592.46	558.39	4818.91	4530.13
		APNRL (U#1,2)	540.00	540.00	270.26	250.10	2203.98	2012.94
		GMR (2x350)	700.00	700.00	401.42	375.27	2798.98	2596.03
		JITPL (2X600)	1200.00	1200.00	411.25	385.20	3607.02	3373.06
		CHUZACHEN** (2x55)	110.00	110.00	11.76	11.76	443.08	443.08
		JOETHANG (2x48)	96.00	96.00	15.78	15.78	374.01	374.01
		TEESTA URJA St III (6x200)	1200.00	1200.00	188.03	188.03	5529.54	5529.54
		Tashilding (2x48.5)	97.00	97.00	14.65	14.65	406.43	406.43
		DICKCHU (2x48)	96.00	96.00	10.52	10.52	450.70	450.70
		TALCHER SOLAR	10.00	10.00	1.04	1.04	9.94	9.94
		Total Thermal (E.R)	29395.00	29320.00	13335.99	12310.70	117687.73	108328.02
EASTERN REGIONAL		Total Hydro (E.R)	5876.58	5876.58	925.28	922.24	17843.02	17806.97
		Total RES	1488.68	1488.68	79.21	79.21	632.61	632.61
		TOTAL (E.R)	36760.26	36685.26	14340.48	13312.14	136163.36	126767.60
BHUTAN	Hydro	CHPC(4x90)	360.00	270.00	37.48	37.48	1574.92	1574.92
	Hydro	Kurichu (4x15)	60.00	60.00	-15.37	-15.37	273.98	273.98
	Hydro	TALA (6x170)	1020.00	1020.00	32.14	32.14	2549.22	2549.22
	Hydro	DAGACHU (2x63)	126.00	126.00	18.47	18.47	352.34	352.34
		MANGDECHU(4x180)	720.00	720.00	95.71	95.71	1357.34	1357.34
		Grand Total	39046.26	38881.26	14508.91	13480.58	142271.17	132875.41

PLANT LOAD FACTOR (PLF) OF THERMAL POWER STATIONS IN EASTERN REGION DURING THE MONTH OF DECEMBER' 2019

ORGANI- SATION	TYPE	POWER STATION	INSTALLED CAPACITY (in MW)	EFFECTIVE CAPACITY (in MW)	Gross Energy Generation in MU	PLF of Current Month (%)	Cummulative Gross Energy Generation upto Current Month (2019-20) in MU	Cummulative PLF upto Current Month (%)
BIHAR	Thermal	Barauni (U# 6&7)	220.00	210.00	0.00	0.00	125.01	9.02
		Muzaffarpur Stg-I	220.00	220.00	3.32	2.03	587.75	40.48
		Thermal Total	440.00	430.00	3.32	1.04	712.76	25.11
	RES		341.25	341.25	40.42		223.53	
	Total BIHAR		781.25	771.25	43.73		936.29	
JHARKHAND								
TVNL	Thermal	TVNL	420.00	420.00	220.67	70.62	1855.53	66.94
JSEB	Hydro	Subarnrekha (U#1,2)	130.00	130.00	5.71		34.08	
	RES		46.75	46.75	0.00		0.00	
	Total		176.75	176.75	5.71		34.08	
DVC	Thermal	Bokaro-B(3)	210.00	210.00	0.00	0.00	94.03	6.78
		Chandrapura (3)	140.00	130.00	0.00	0.00	0.00	0.00
		Chandrapura(U7 # 8)	500.00	500.00	291.94	78.48	2534.52	76.80
		Durgapur(4)	210.00	210.00	67.79	43.39	341.03	24.61
		Mezia(1,2,3,4,5,6)	1340.00	1340.00	523.87	52.55	5683.31	64.26
		Mezia(U # 7,8)	1000.00	1000.00	364.11	48.94	3717.22	56.32
		Bokaro-A(1)	500.00	500.00	289.08	77.71	2001.81	60.66
		Durgapur STPS (U#1,2)	1000.00	1000.00	526.14	70.72	4675.49	70.84
		Raghunathpur TPS (U#1,2)	1200.00	1200.00	419.38	46.97	4081.67	51.54
		Koderma STPS (U#1,2)	1000.00	1000.00	560.01	75.27	4832.57	73.22
	Total Thermal		7100.00	7090.00	3042.32	57.67	27961.64	59.75
	Hydro	Maithon (U#1,2,3)	63.20	63.20	4.32		64.69	
		Panchet (U#1,2)	80.00	80.00	2.68		95.26	
		Tilaya (U#1,2)	4.00	4.00	0.00		0.27	
		Hydro Total		147.20	147.20	7.00		160.22
Total DVC			7247.20	7237.20	3049.32		28121.86	
WEST BENGAL								
WBPDC	Thermal	Bandel TPS	380.00	335.00	22.25	8.93	783.70	35.45
		Santalidih TPS(U#5&6)	500.00	500.00	199.25	53.56	2682.15	81.28
		Kolaghat TPS	1260.00	1260.00	96.31	10.27	2517.99	30.28
		Bakreswar TPP	1050.00	1050.00	658.53	84.30	4906.86	70.81
		Sagardighi TPP	1600.00	1600.00	666.27	55.97	4903.12	46.43
		DPPS (110+300+250 *)	660.00	660.00	168.06	34.22	1799.86	41.32
		Thermal Total	5450.00	5405.00	1810.67	45.03	17593.68	49.32
WBSEDCL	Hydro	Jaldhaka (3x9+2x4)	35.00	35.00	8.69		173.97	
		Ramam (4x12.73)	51.00	51.00	13.62		219.33	
		Teesta C.F. (3x3x7.5)	67.50	67.50	0.00		43.75	
		Purulia PSS (4x225)	900.00	900.00	114.80		897.75	
		Total Hydro	1053.50	1053.50	137.11		1334.79	
		RES	527.29	527.29	8.92		153.56	

WBPDC, Bandel TPS Unit #3 & Unit #4 (IC=2X82.5 MW, EC=2X60 MW) decommissioned from 01.04.2018.

ORGANI- SATION	TYPE	POWER STATION	INSTALLED CAPACITY	EFFECTIVE CAPACITY	Gross Energy Generation in MU	PLF of Current Month (%)	Cummulative Gross Energy Generation upto Current Month (2019-20) in MU	Cummulative PLF upto Current Month (%)
			(in MW)	(in MW)				
CESC	Thermal	Titagarh (4x60)	240.00	240.00	0.00	0.00	0.00	0.00
		Southern (2x67.5)	135.00	135.00	24.27	24.16	328.23	36.84
		Budge-Budge (3x250)	750.00	750.00	328.69	58.90	4326.30	87.40
		Total CESC	1125.00	1125.00	352.95	42.17	4654.52	62.69
HEL	Thermal		600.00	600.00	382.73	85.74	3556.43	89.81
		Total West Bengal	8755.79	8710.79	2692.38		27292.98	
ODISHA (NTPC)	Thermal	Talcher-I	250.00	240.00	179.70	100.64	1340.04	84.60
		Talcher-II	220.00	220.00	143.84	87.88	1126.94	77.61
		Total Thermal	470.00	460.00	323.54	94.54	2466.98	81.26
OPGC	Thermal	IB TPS	420.00	420.00	233.07	74.59	2021.40	72.92
		IB TPS U#3(660 MW)	660.00	660.00	212.41	43.26	1507.00	45.08
		IB TPS U#4(660 MW)			199.84	40.70	1288.32	48.36
OHPC	Hydro	Hirakud-I (Burla)	275.50	275.50	39.34		478.99	
		Hirakud-II (Chiplima)	72.00	72.00	18.11		202.55	
		Balimela (6x60+2x75)	510.00	510.00	103.25		1255.88	
		Rengali (5x50)	250.00	250.00	39.52		536.96	
		Upper Kolab (4x80)	320.00	320.00	55.51		600.23	
		Indravati HPS (4x150)	600.00	600.00	92.53		1767.88	
		Mckd.(Odisha drawal)	57.38	57.38	28.37		229.85	
		Total Hydro	2084.88	2084.88	376.63		5072.33	
		RES	511.21	511.21	26.83		222.57	
		Total Odisha	4806.09	4796.09	1372.32		11840.49	
(**) SIKKIM	Hydro	RES	52.18	52.18	2.00		23.00	
NTPC		MTPS Stg-II	390	390	226.721	78.14	1714.94	66.63
		FSTPP# I&II (3x200+2x500)	1600.00	1600.00	893.19	75.03	7752.86	73.42
		FSTPP (U# 6)	500.00	500.00	330.75	88.91	1957.95	59.33
		KhSTPP (4x210+3x500)	2340.00	2340.00	1420.01	81.56	12301.39	79.65
		TSTPP (2x500)	1000.00	1000.00	640.77	86.13	4659.16	70.59
		BARH STPS II (2X660)	1320.00	1320.00	421.45	42.91	6871.38	78.87
		BRBCL # 1,2,3(3X250 MW)	750.00	750.00	474.39	85.02	3529.86	71.31
		NSTPS	660.00	660.00	323.44	65.87	1635.37	76.43
		DSTPP			148.37		217.66	
		Total NTPC	8560.00	8560.00	4879.09	74.28	40640.57	74.76
NHPC	HYDRO	Rangit (3x20)	60.00	60.00	18.98		308.54	
		Teesta (3x170)	510.00	510.00	97.74		2534.96	
		TLDP -(4x33+4x40)	292.00	292.00	41.37		1194.33	
		Total NHPC	862.00	862.00	158.09		4037.83	
	Thermal	MPL (U#1&2)	1050.00	1050.00	592.46	75.84	4818.91	69.54
		APNRL (U#1,2)	540.00	540.00	270.26	67.27	2203.98	61.84
		GMR (2x350)	700.00	700.00	401.42	77.08	2798.98	60.58
		JITPL (2X600)	1200.00	1200.00	411.25	46.06	3607.02	45.54
		CHUZACHEN** (2x55)	110.00	110.00	11.76		443.08	
		JORETHANG (2x48)	96.00	96.00	15.78		374.01	
		TEESTA URJA St III (6x200)	1200.00	1200.00	188.03		5529.54	
		Tashilding (2x48.5)	97.00	97.00	14.65		406.43	
		DICKCHU (2x48)	96.00	96.00	10.52		450.70	
		TALCHER SOLAR	10.00	10.00	1.04		9.94	
		Total Thermal (E.R)	29395.00	29320.00	13335.99	60.45	117687.73	62.35
EASTERN REGIONAL		Total Hydro (E.R)	5876.58	5876.58	925.28		17843.02	
		Total RES	1488.68	1488.68	79.21		632.61	
		TOTAL (E.R)	36760.26	36685.26	14340.48		136163.36	
BHUTAN	Hydro	CHPC(4x90)	360.00	270.00	37.48		1574.92	
	Hydro	Kurichu (4x15)	60.00	60.00	-15.37		273.98	
	Hydro	TALA (6x170)	1020.00	1020.00	32.14		2549.22	
	Hydro	DAGACHU (2x63)	126.00	126.00	18.47		352.34	
		MANGDECHU(4x180)	720.00	720.00	95.71		1357.34	
		Grand Total	39046.26	38881.26	14508.91		142271.17	

CONTRIBUTIONS OF DIFFERENT CONSTITUENTS AT THE TIME OF REGIONAL PEAK
DURING THE MONTH OF DEC'2019 (27-12-2019)

Date **27-Dec-19**
Time **19.00** Hrs.
Frequency **50.02** Hz.

(All Fig. in MW)

System/State	Installed Capacity	Effective Capacity	Hydro	Thermal	RES	Total
BSPHCL	781	771	0	42	0	42
JUVNL	597	597	54	263	0	317
DVC	7247	7237	36	4685	0	4722
ODISHA	4806	4796	1051	1385	28	2464
WBSEDCL	6371	6326	345	2296	0	2641
TLDP	292	292	247	0	0	247
HEL HALDIA	600	600	0	541	0	541
CESC	1125	1125	0	710	0	710
DPL	660	660	0	0	0	0
SIKKIM	52	52	0	0	0	0
NTPC	8560	8560	0	7189	0	7189
NHPC	570	570	571	0	0	571
CHUKHA	360	270	54	0	0	54
KURICHU	60	60	-27	0	0	-27
TALA	1020	1020	47	0	0	47
MPL	1050	1050	0	983	0	983
OPGC (660 MW)	0	0	0	0	0	0
APNRL	540	540	0	350	0	350
Kamalganga (GMR)	700	700	0	359	0	359
JITPL	1200	1200	0	504	0	504
Chuzachen	110	110	112	0	0	112
Jorethang	96	96	27	0	0	27
TEESTA URJA St III	1200	1200	839	0	0	839
Tashilding	97	97	41	0	0	41
DICKCHU	96	96	58	0	0	58
<u>Daghachu</u>	126	126	22	0	0	22
<u>Solar</u>	10	10	0	0	0	0
<u>Mangdechu</u>	720	720	109	0	0	109
<u>Total</u>	39046	38881	3587	19306	28	22921
Import From Captive:						805
Export To:						
NER						-451
SR						2639
WR						-600
NR						3379
Bangladesh						436
Nepal						255
Total						5657

➤ I Net Peak Demand Met (MW) :

18068

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

Hourly Load Generation Data OF ER On Regional Peak Day During The Month of DEC'2019 (27-12-2019)

(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	331	15007	15338	679	166	3784	12399	-9	17	12408
2	306	14060	14365	680	165	2937	12273	-18	18	12291
3	264	13918	14181	702	167	2891	12159	-10	16	12166
4	278	13943	14221	708	167	2907	12190	-11	20	12200
5	174	14628	14802	697	166	3583	12082	-22	22	12104
6	348	15773	16121	772	155	4293	12754	-18	24	12760
7	1150	17192	18342	753	122	5593	13623	-6	25	13642
8	1780	18289	20070	752	111	5962	14971	34	24	15029
9	2569	19009	21578	772	136	6714	15773	11	399	16183
10	2400	18967	21368	738	137	6611	15632	18	12	15661
11	2402	18851	21252	646	134	6578	15454	-11	6	15460
12	2065	18841	20906	619	141	6607	15058	11	5	15073
13	1197	18965	20162	624	147	6530	14404	11	5	14420
14	550	18723	19274	667	138	6685	13393	-15	4	13397
15	604	18528	19132	642	126	6956	12944	-1	6	12948
16	833	18623	19456	648	126	6958	13271	-2	3	13272
17	1632	18725	20358	667	111	6729	14406	6	2	14414
18	2716	19127	21843	749	138	5912	16818	-12	0	16818
19	3410	19306	22716	805	205	5657	18068	-11	0	18068
20	2287	19172	21459	784	206	4817	17631	-26	0	17631
21	1256	18966	20221	761	208	4488	16702	-13	0	16703
22	599	18568	19166	784	226	4488	15688	-30	0	15689
23	289	17500	17789	760	176	4512	14213	-19	0	14213
24	275	15579	15853	765	163	3294	13486	-7	0	13486

Hourly Load Generation Data of ER On Regional Lean Day During The Month of DEC'2019 (23-12-2019)

(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	454	12849	13303	840	205	2179	12168	-15	0	12168
2	455	12606	13061	854	205	2190	11930	-16	0	11930
3	279	12544	12823	819	211	2084	11770	-9	0	11770
4	199	12753	12952	810	214	2275	11700	14	0	11715
5	220	13332	13552	845	210	2603	12004	-8	0	12004
6	310	14250	14560	876	197	2750	12883	-6	0	12883
7	1231	16055	17286	844	165	4126	14169	-5	1	14170
8	2434	17427	19862	721	150	5381	15353	7	4	15364
9	3360	18222	21582	778	154	6637	15876	17	11	15904
10	3187	18125	21312	734	167	6768	15444	15	14	15473
11	2474	18070	20544	670	167	6224	15158	50	19	15227
12	1577	18151	19727	597	215	6028	14511	25	91	14627
13	1140	17997	19137	582	183	5740	14161	22	86	14269
14	621	17887	18509	591	202	5954	13346	13	57	13416
15	353	17660	18013	561	203	6060	12718	21	57	12796
16	806	17686	18492	565	196	6290	12963	2	5	12971
17	1662	18000	19662	644	179	6431	14053	36	1	14090
18	2674	18146	20820	782	214	5020	16797	6	0	16803
19	2930	18290	21219	725	229	4662	17511	8	0	17519
20	2808	18209	21017	733	236	4665	17321	0	1	17322
21	1859	17923	19782	696	234	4251	16462	49	274	16785
22	712	17185	17897	711	224	3718	15114	11	0	15125
23	452	16424	16876	769	177	3874	13948	9	0	13956
24	457	14795	15252	744	184	2893	13288	9	0	13297

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

FOR THE MONTH OF DEC'2019

POWER CUT / RESTRICTIONS

BSPHCL	NO NOTIFIED CUTS/RESTRICTIONS However there was loadshedding of 8.838 MU
JUVNL	NO NOTIFIED CUTS/RESTRICTIONS However there was loadshedding of 2.041 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 2.87 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

Dec-19

D A T E	H O U R S										INST. FREQ.				15 MIN. INTEGRATED			
	00	05	10	17	22	00												
	TO	TO	TO	TO	TO	TO	<49.9	49.9	>50.05	49.9	MAX	HRS.	MIN	HRS.	MAX	HRS.	MIN	HRS.
	05	10	17	22	24	24		TO	TO	TO	HZ		HZ		HZ		HZ	
01-Dec	49.96	49.99	50.01	50.01	50.02	49.99	4.70	76.90	18.40	76.90	50.22	06:02:30	49.79	16:42:50	50.10	0:00	49.88	0:00
02-Dec	50.00	49.97	49.99	50.01	50.01	49.99	3.10	79.40	17.60	79.40	50.17	05:02:10	49.82	19:34:00	50.06	0:00	49.88	0:00
03-Dec	49.97	49.98	49.99	50.04	50.04	50.00	4.90	71.70	23.40	71.70	50.22	13:03:20	49.78	06:45:30	50.13	0:00	49.89	0:00
04-Dec	50.03	50.02	49.98	50.01	50.07	50.01	3.10	65.30	31.60	65.30	50.21	22:00:20	49.85	17:38:20	50.15	0:00	49.93	0:00
05-Dec	50.03	50.01	49.97	50.01	50.00	50.00	5.30	70.10	24.60	70.10	50.25	06:02:10	49.78	15:19:40	50.13	0:00	49.88	0:00
06-Dec	49.98	49.97	49.99	50.02	50.01	49.99	4.00	77.90	18.10	77.90	50.16	22:00:50	49.83	06:43:40	50.06	0:00	49.89	0:00
07-Dec	50.03	50.03	49.97	50.00	49.97	50.00	4.60	71.80	23.70	71.80	50.24	06:03:10	49.76	12:12:20	50.10	0:00	49.88	0:00
08-Dec	50.00	50.00	50.01	50.02	50.02	50.01	3.90	66.30	29.80	66.30	50.23	06:02:50	49.73	12:15:30	50.12	0:00	49.83	0:00
09-Dec	50.00	49.96	49.92	49.97	50.00	49.96	15.30	73.40	11.30	73.40	50.19	21:59:50	49.71	14:19:00	50.12	0:00	49.77	0:00
10-Dec	49.97	49.95	49.97	49.99	49.98	49.97	8.60	80.80	10.60	80.80	50.18	22:01:30	49.75	06:45:00	50.06	0:00	49.82	0:00
11-Dec	49.98	49.95	49.92	50.02	49.99	49.97	15.90	69.60	14.50	69.60	50.19	06:01:10	49.65	16:17:40	50.13	0:00	49.76	0:00
12-Dec	49.99	49.96	49.99	50.02	50.02	49.99	7.20	69.20	23.60	69.20	50.25	06:02:10	49.74	12:39:30	50.08	0:00	49.84	0:00
13-Dec	50.08	49.97	49.98	50.02	49.99	50.01	6.20	65.20	28.60	65.20	50.29	04:01:40	49.83	07:12:10	50.16	0:00	49.87	0:00
14-Dec	50.00	50.01	50.00	50.01	50.02	50.01	1.40	75.30	23.30	75.30	50.25	06:01:40	49.85	07:47:30	50.09	0:00	49.93	0:00
15-Dec	50.02	49.95	50.02	50.02	50.14	50.02	5.30	60.80	33.90	60.80	50.34	23:59:30	49.66	09:16:20	50.18	0:00	49.81	0:00
16-Dec	50.10	49.93	49.98	50.02	50.01	50.00	8.80	55.40	35.80	55.40	50.32	00:00:00	49.73	07:14:50	50.19	0:00	49.77	0:00
17-Dec	49.99	50.01	50.00	49.99	50.02	50.00	3.90	75.40	20.70	75.40	50.23	06:02:30	49.71	20:33:20	50.07	0:00	49.90	0:00
18-Dec	50.01	49.99	50.00	50.01	50.01	50.00	4.90	73.60	21.50	73.60	50.18	06:02:30	49.79	10:14:30	50.08	0:00	49.84	0:00
19-Dec	50.03	50.00	49.98	50.00	50.01	50.00	6.50	67.60	25.90	67.60	50.22	06:03:20	49.76	20:33:40	50.09	0:00	49.87	0:00
20-Dec	50.00	49.95	49.96	49.98	50.00	49.97	14.80	69.60	15.60	69.60	50.21	06:01:50	49.82	16:44:00	50.10	0:00	49.81	0:00
21-Dec	49.99	49.99	50.00	50.00	49.98	50.00	3.00	79.40	17.60	79.40	50.20	06:01:40	49.83	19:17:10	50.10	0:00	49.92	0:00
22-Dec	49.97	49.98	50.00	50.00	50.01	49.99	4.90	78.40	16.70	78.40	50.20	13:03:20	49.75	05:11:10	50.08	0:00	49.89	0:00
23-Dec	50.02	49.99	49.95	49.97	49.98	49.98	10.20	74.10	15.60	74.10	50.17	06:01:40	49.75	10:50:00	50.08	0:00	49.81	0:00
24-Dec	49.96	49.98	49.98	50.00	49.99	49.98	6.70	80.50	12.80	80.50	50.20	06:02:20	49.67	22:12:30	50.06	0:00	49.83	0:00
25-Dec	49.99	49.96	49.99	49.99	50.00	49.98	7.30	76.80	15.90	76.80	50.19	06:01:40	49.73	19:21:10	50.07	0:00	49.84	0:00
26-Dec	50.02	50.05	50.01	50.03	50.04	50.03	1.10	61.10	37.80	61.10	50.26	22:01:20	49.69	11:10:00	50.19	0:00	49.80	0:00
27-Dec	50.03	49.99	50.00	50.03	50.03	50.01	2.00	67.80	30.20	67.80	50.24	22:02:10	49.81	12:10:10	50.13	0:00	49.87	0:00
28-Dec	50.02	50.00	49.99	50.00	50.01	50.00	2.10	71.70	26.20	71.70	50.18	18:02:20	49.82	21:00:40	50.11	0:00	49.91	0:00
29-Dec	50.03	49.96	50.01	50.02	50.01	50.00	3.40	70.40	26.20	70.40	50.21	17:02:30	49.77	09:16:10	50.11	0:00	49.84	0:00
30-Dec	49.98	49.94	49.96	49.95	50.02	49.96	14.70	73.50	11.80	73.50	50.17	00:02:10	49.72	09:48:20	50.08	0:00	49.79	0:00
MAX	50.10	50.05	50.02	50.04	50.14	50.03	15.90	80.80	37.80	80.80	50.34		49.85		50.19		49.93	
MIN	49.96	49.93	49.92	49.95	49.97	49.96	1.10	55.40	10.60	55.40	50.16		49.65		50.06		49.76	
AVG	50.00	49.98	49.98	50.01	50.01	49.99	6.47	71.68	21.85	71.68	50.22		49.76		50.11		49.85	

SUMMARY:

Avg. Frequency :

50.0 Hz.

Instantaneous Frequency :

Maximum Frequency : 50.34 Hz at 23:59 Hrs.

Minimum Frequency : 49.65 Hz at 16:17 Hrs.

15 Minutes Integrated Frequency :

Maximum Frequency : 50.19 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	6.47	71.68	21.85

VOLTAGE ANALYSIS

MAXIMUM & MINIMUM VOLTAGES RECORDED AT IMPORTANT 400 kV S/S IN THE MONTH OF DEC'2019

(All figs. in kV)

PGCIL	BINAGURI		MAITHON		JEERAT		BIHARSHARIFF	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	426	404	418	395	426	401	413	374

PGCIL	MUZAFFARPUR		JAMSHEDPUR		ROURKELA		JEYPORE	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	430	406	420	403	426	404	414	402

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

Expected Load Relief through UFRs by ER Constituent:

(All Fig. are in MW)

STATES/ UTILITIES	STAGE-I (49.2 Hz) (Inst.)	STAGE-II (49.0 Hz) (Inst.)	STAGE-III (48.8 Hz) (Inst.)	STAGE-IV 48.6 Hz (Inst.)	Total Load Relief by Control Area
BIHAR	98	99	99	101	397
JHARKHAND	61	62	61	62	246
DVC	134	135.5	136	137	542.5
ODISHA	181.5	183.5	184	186	735
WEST BENGAL (incl. CESC)	345.5	350	350	354	1399.5
TOTAL	820	830	830	840	3320

As decided in the National Power Committee (NPC) meeting held on 16.07.2013 and subsequently in the 89th OCC meeting of ERPC to implement the scheme w.e.f. 30.09.2013.

A.

WATER LEVEL OF MAJOR HYDEL RESERVOIRS OF THE REGION IN

Dec-19

(All figs.in mtrs.)

Name of the Reservoirs	FRL	MDDL	As on last day of the		As on first day of this month & date	
			(31-12-19)	(31-12-18)		
Hirakud	192	180	191.66	190.51	191.96	01.12.19
Balimela	462	439	459.55	459.61	460.55	01.12.19
Rengali	123	109	122.90	117.81	123.57	01.12.19
Upperkolab	858	844	856.60	855.11	857.11	01.12.19
Indravati	642	625	640.17	638.65	640.50	01.12.19
Subernrekha	590	580	586.71	585.98	585.98	01.12.19

B.

CPP/IPP IMPORT by Eastern Region Constituents during

Dec-19

(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	45.18
West Bengal	47.21	0.00	0	0	0	0	0	30.34	77.55
ODISHA	0	0	38.68	114.73	5.68	17.50	0	389.63	566.22
DVC	0	0	0	0	0	0	6.63	0	6.63
TOTAL	47.21	0.00	38.68	114.73	5.68	17.50	6.63	419.97	695.58

C.

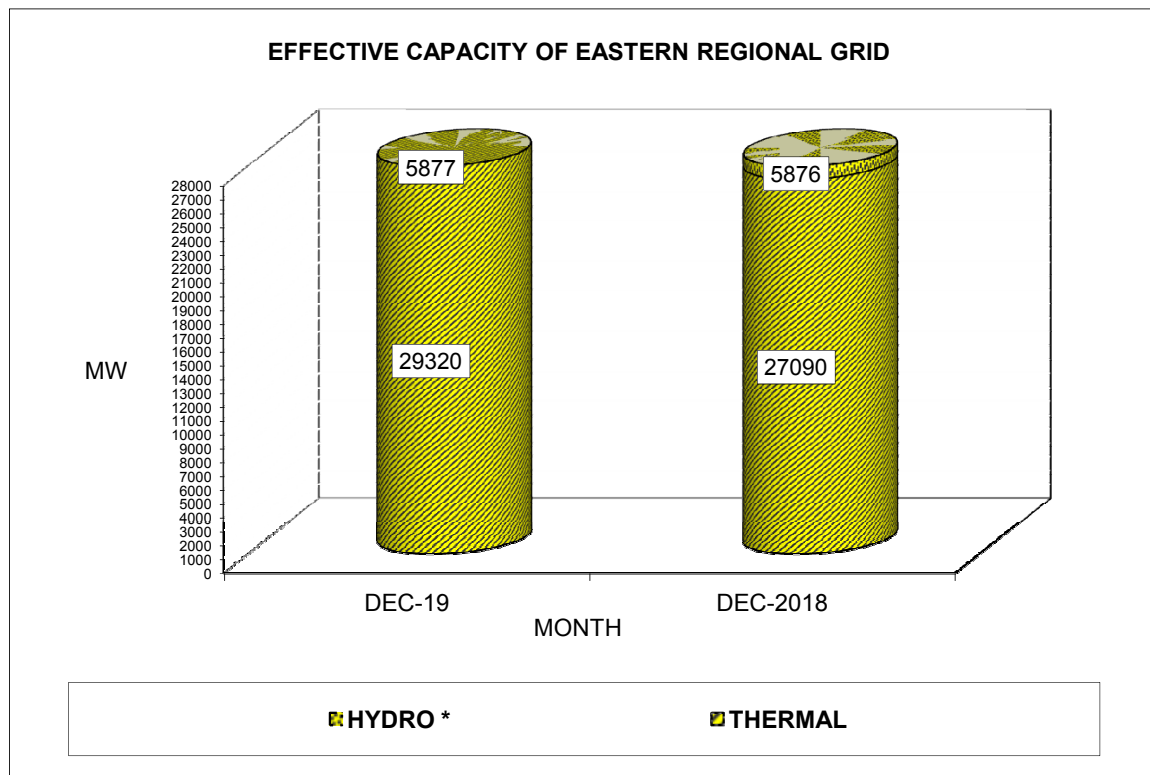
Distribution of Schedule Supply among Key Customers by IPPs during

Dec-19

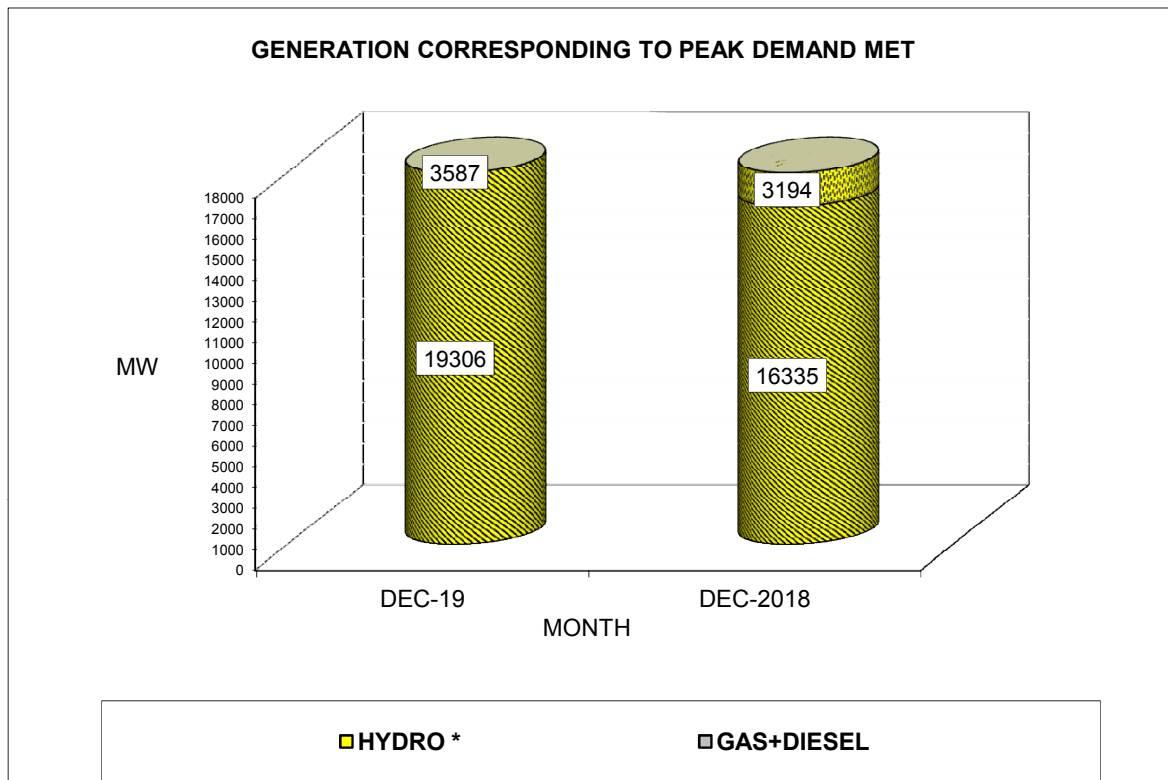
(All figs. are in MU)

IPP	TPDDL	WBSEDCL/ WBPDCCL	DVC	Sale at IEX/NPCL	ODISHA	JSEB	CTU/Others	Total (Excl. Tr. Loss)
MPL	169.02	120.24	74.78	0.00	0	0	191.67	555.71
Sterlite	0	0	0	0	0.00	0	0.00	0.00
APNRL	0	48.36	0	0.00	0.00	131.46	70.43	250.25
Total	169.02	168.60	74.78	0.00	0.00	131.46	262.10	805.96

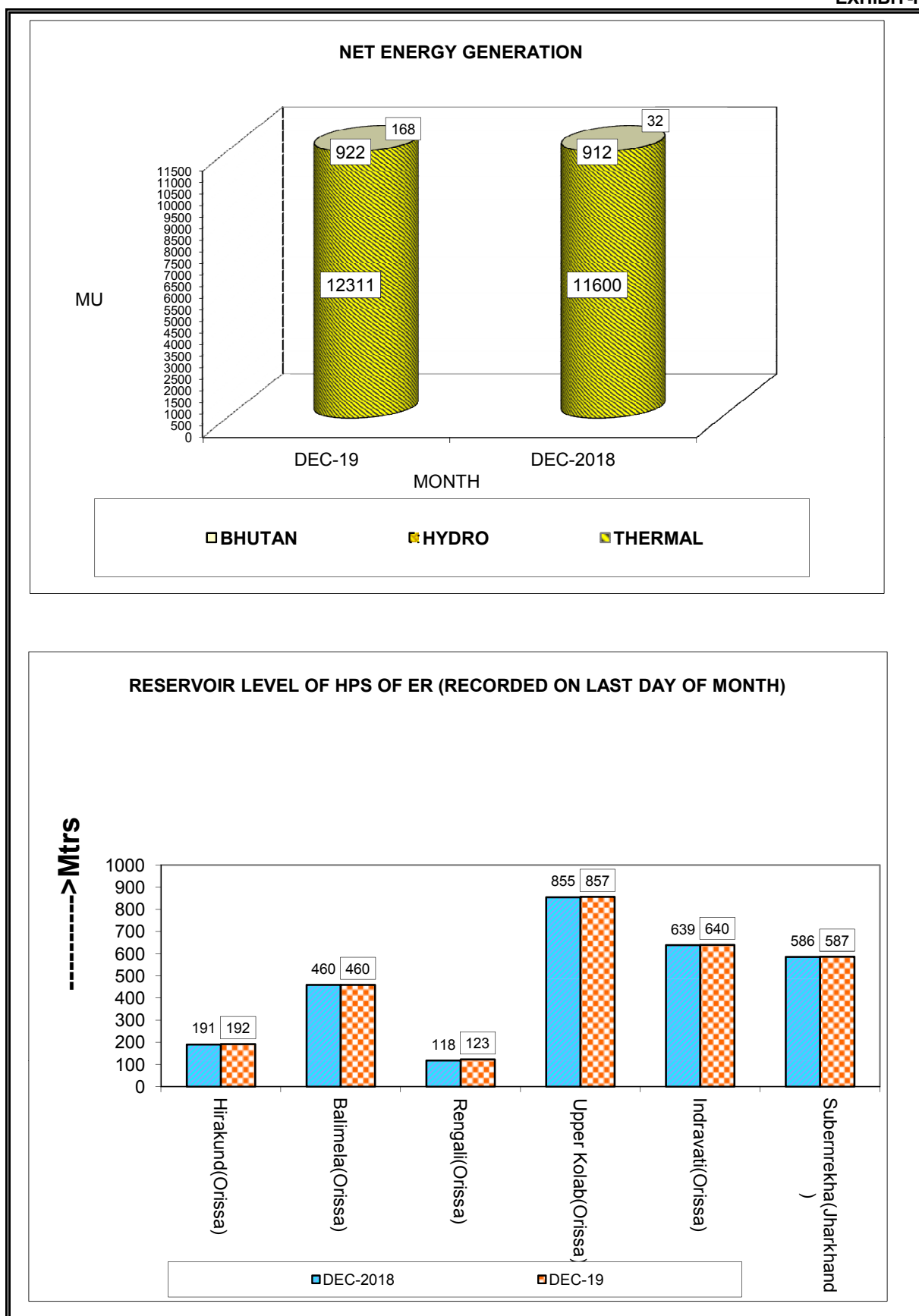
Task/ Works performed by ERPC during DECEMBER, 2019		
Sl. No.	Period	Date of Report
1	FARAKKA-III Re-allocation of share w.e.f 01.12.2019	01/12/2019
2	Compensation Statement for August-19 & September-19	02/12/2019
3	REA November 2019	04/12/2019
4	DC-MPL-November 2019	04/12/2019
5	VAR Account 111119-171119	04/12/2019
6	VAR Account 181119-241119	04/12/2019
7	DSM, RRAS, FRAS & AGC Account 111119-171119	04/12/2019
8	DSM, RRAS, FRAS & AGC Account 181119-241119	04/12/2019
9	Bilateral REA for November -2019	05.12.2019
10	DC- Teesta III – November 2019	05/12/2019
11	Revised RTA for the period January'19 to March'19(Rev-II)	06.12.2019
12	Revised RTA for October'19(Rev-II)	06.12.2019
13	RTA for November'2019	06.12.2019
14	REA Bhutan November-19	10/12/2019
15	Revised REA of Bhutan for Sept-19 & Oct-19	10/12/2019
16	DSM, RRAS, FRAS & AGC Account 251119-011219	10/12/2019
17	VAR Account 251119-011219	10/12/2019
18	AS-3 Format 16.12.19-15.01.20	13.12.2019
19	Monthly SCED Account – October,2019	17/12/2019
20	Monthly SCED Account – November,2019	17/12/2019
21	RTA July'2017(Revision-IV)	19.12.2019
22	Monthly SCED Account From April'2019 to September'2019	19/12/2019
23	DSM, RRAS, FRAS & AGC A/c 021219-081219 & Dev of Bhutan Power of Nov'19	20/12/2019
24	VAR Account 021219-081219	20/12/2019
25	RRAS Account 281019-081219(MPL)	26/12/2019
26	DSM, RRAS, FRAS & AGC Accounts 091219-151219 and Revised AGC A/c 021219-081219	30/12/2019
27	VAR Account 091219-151219	30/12/2019
28	Provisional Monthly power supply position for the month of November-19	04/12/2019
29	Revised Monthly power supply position for the month of November-19	30-12.2019
30	Monthly progress report of ERPC for the month of November-19	31/12/2019



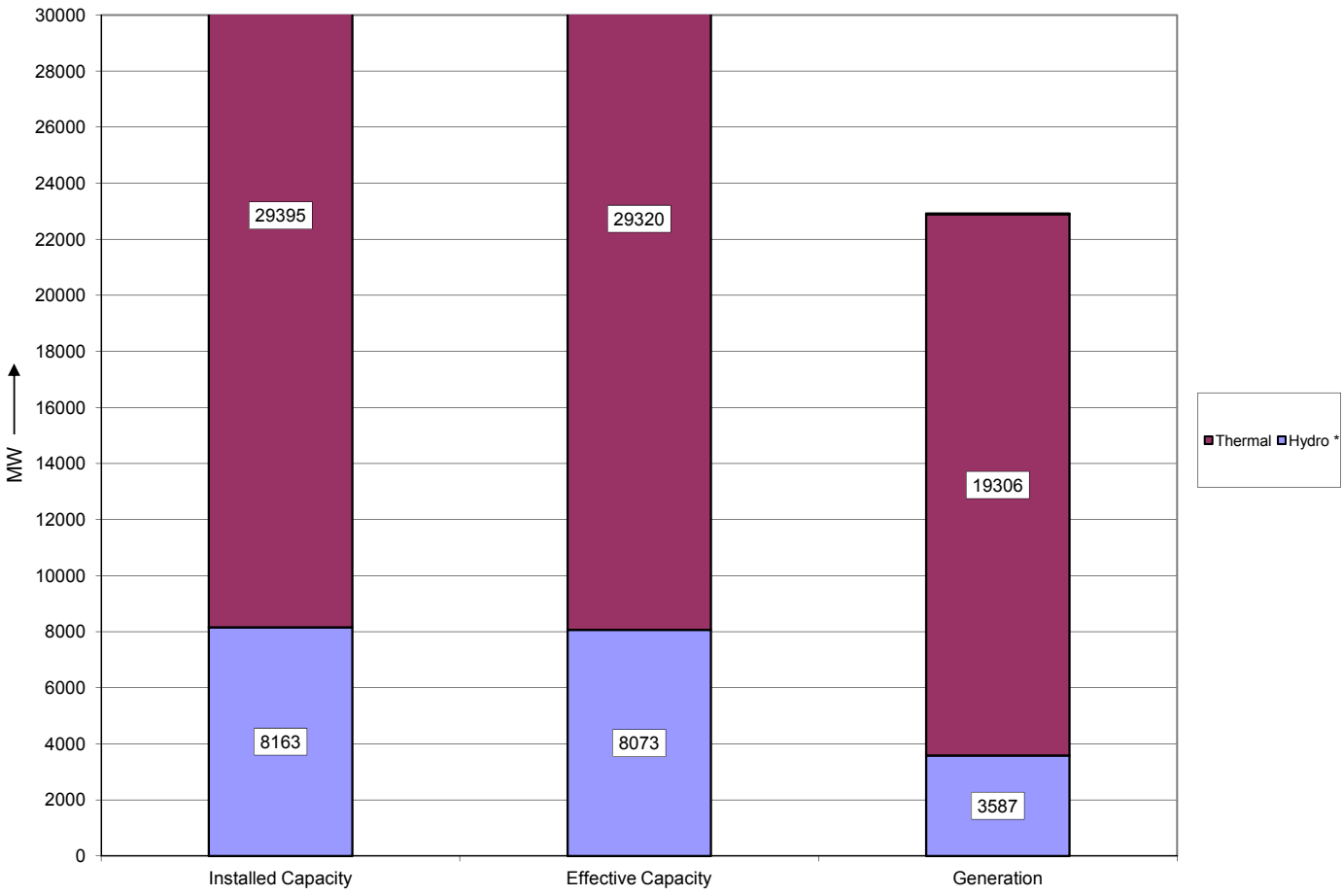
*Excludes 1350 MW contribution from HEPs of Bhutan



*Includes contribution from HEP of Bhutan

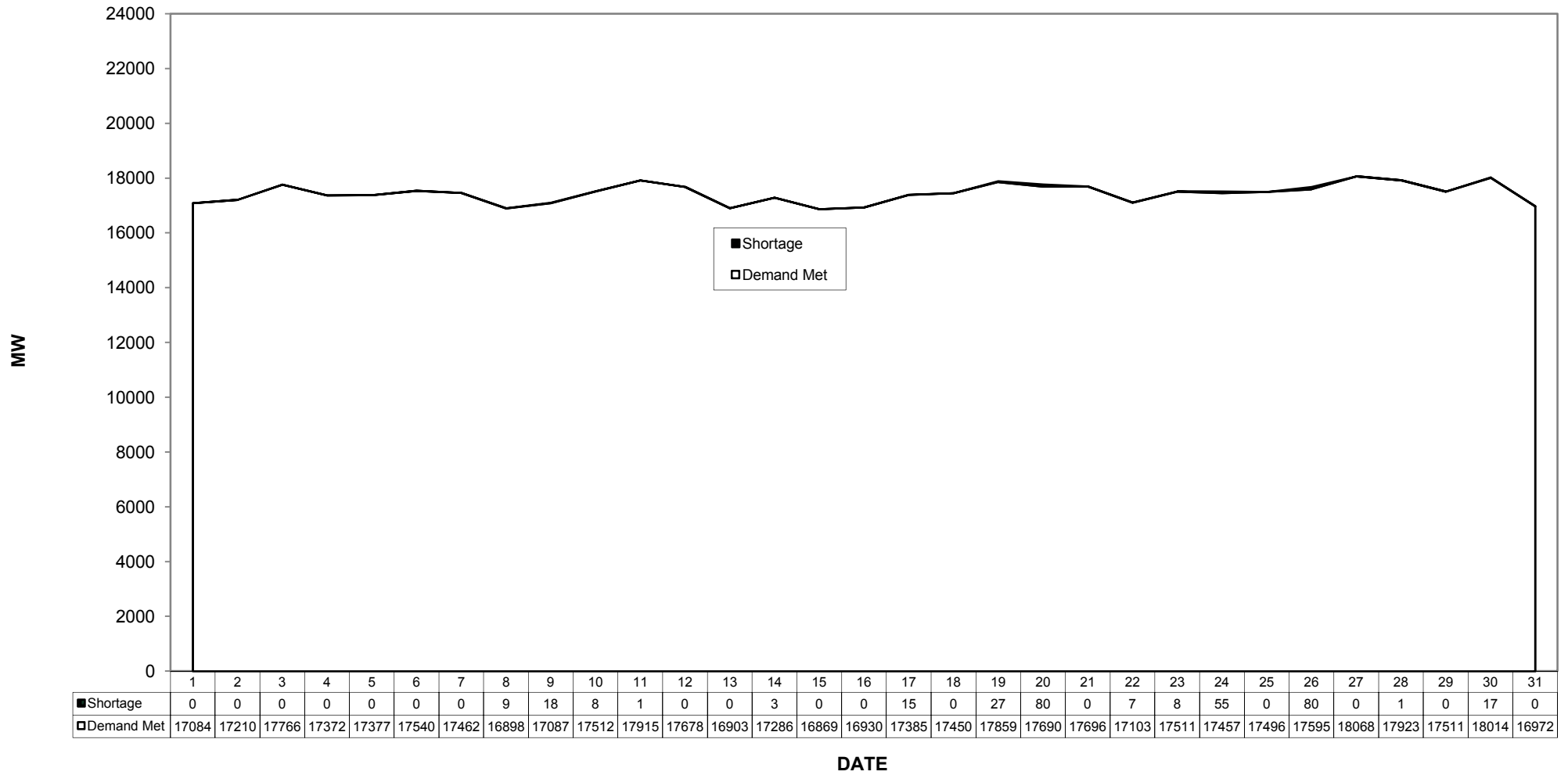


Capacity / Actual Generation Pattern of ER on Peak Day (27-12-2019) at 19.00 hrs.

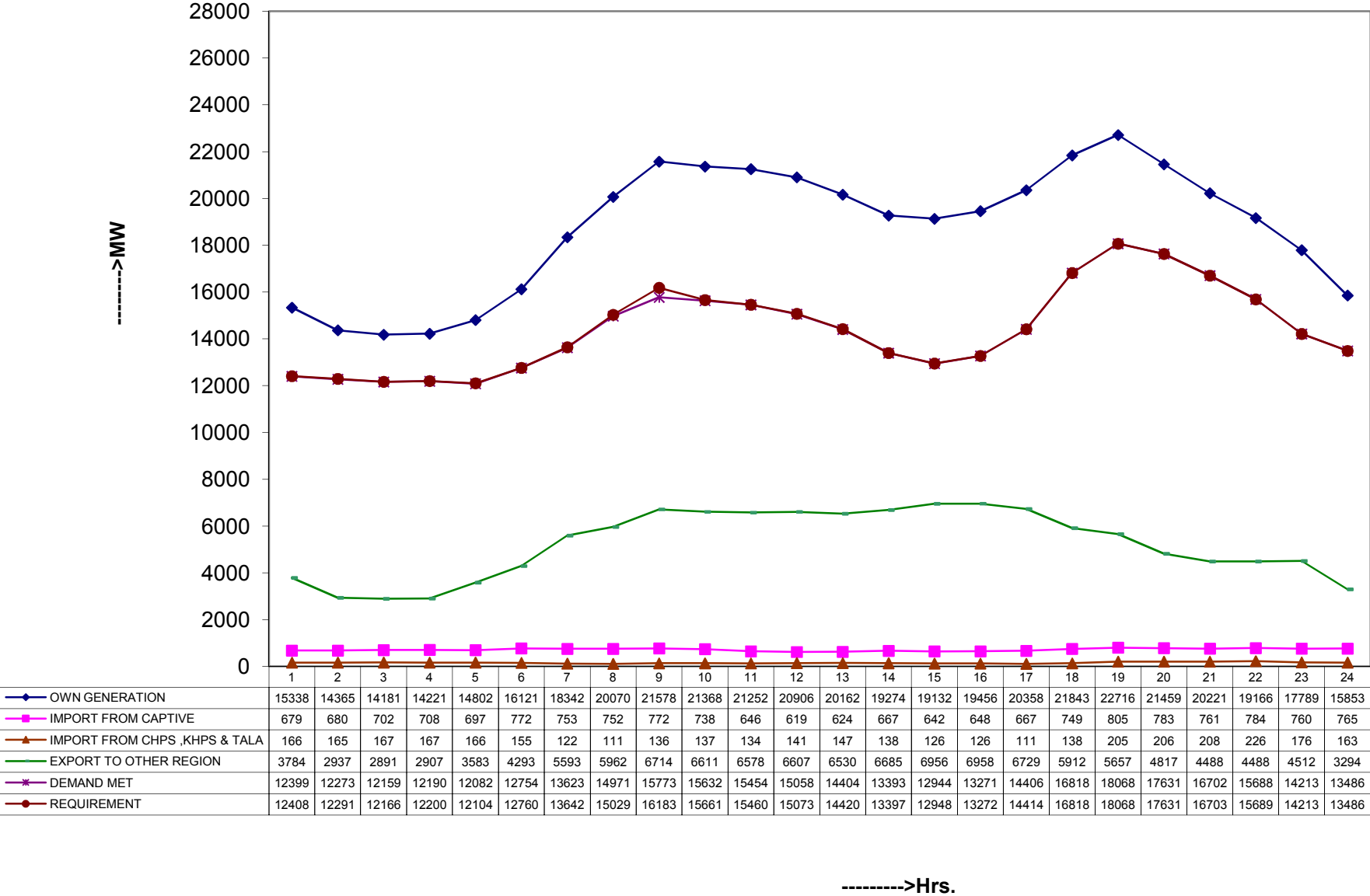


(*)--Includes contribution from HEP of Bhutan (Chukka, Kurichhu & Tala)

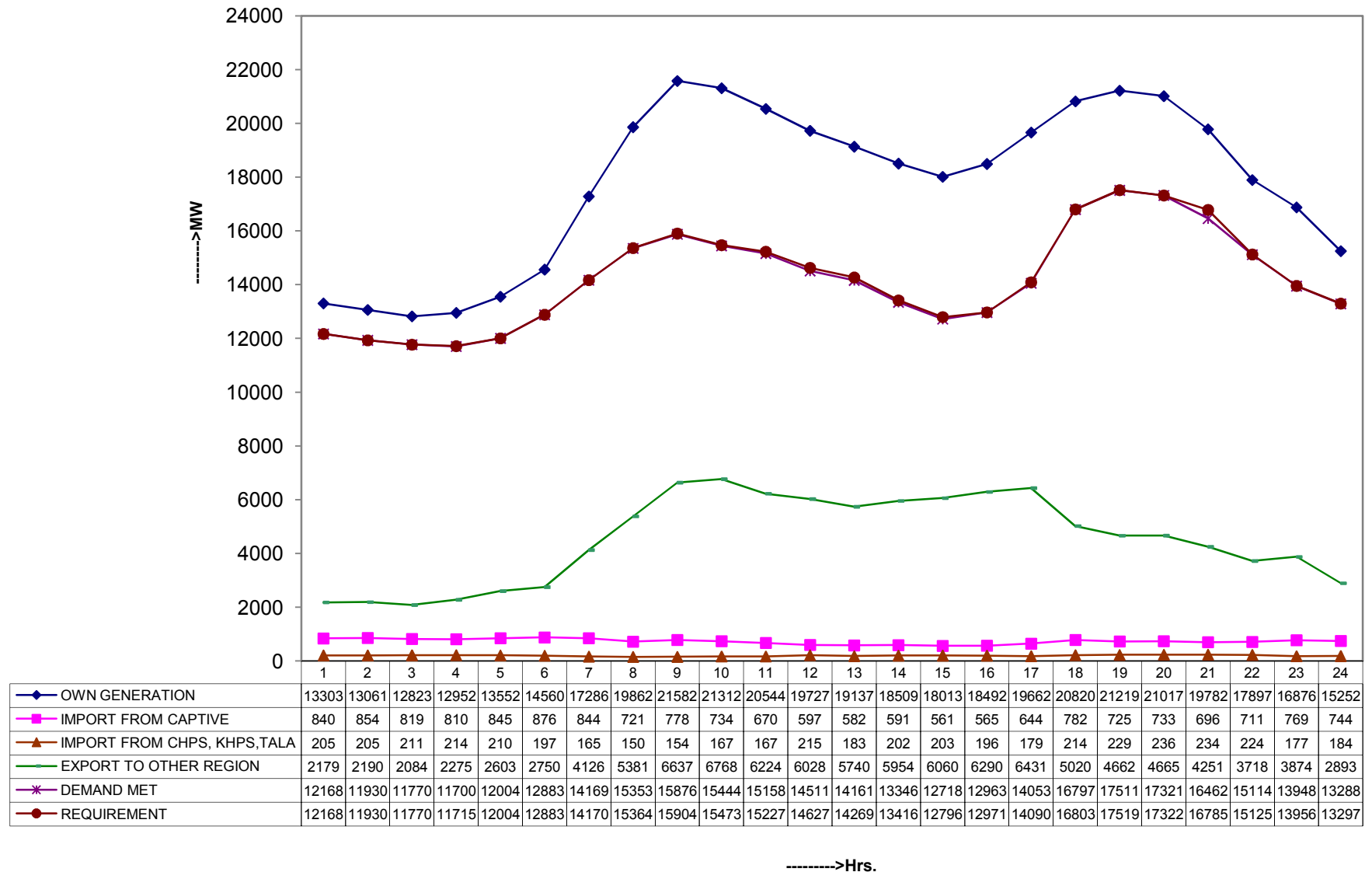
Peak Demand Met / Shortage of Eastern Region For The Month Of DEC'2019



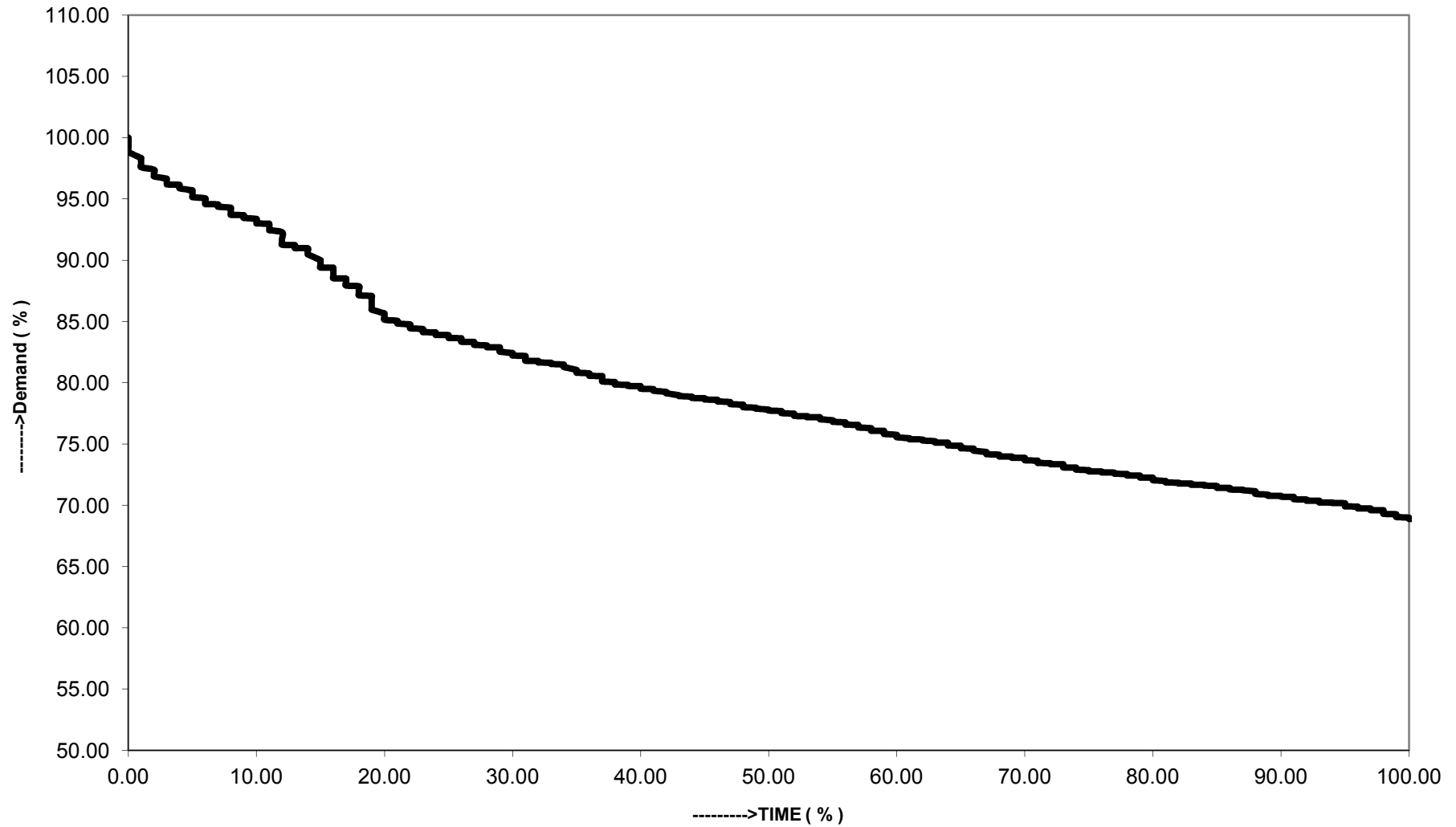
Hourly Load Generation Data OF ER On Regional Peak Day During The Month of DEC'2019 (27-12-2019)



Hourly Load Generation Data of ER On Regional Lean Day During The Month of DEC'2019 (23-12-2019)

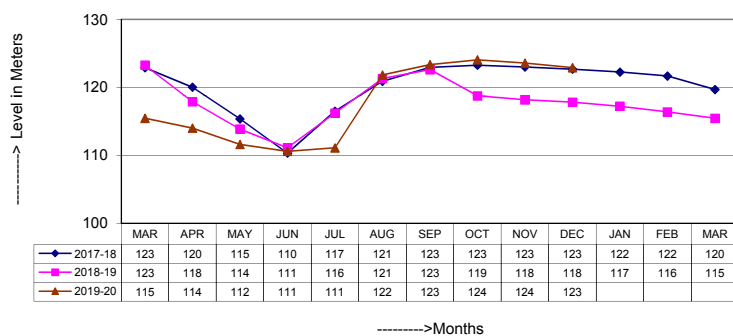


Monthly Load Duration Curve of Eastern Region for DEC-19

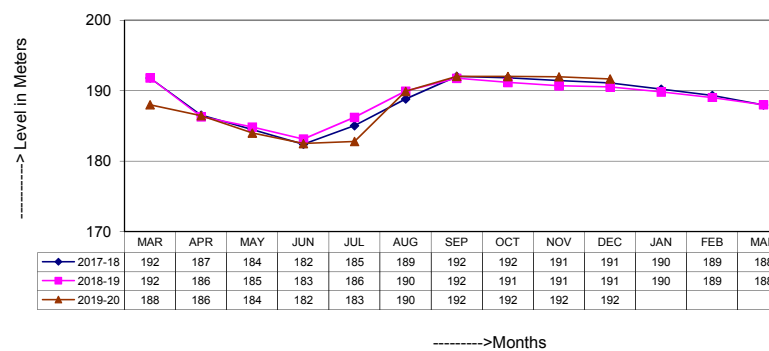
Maximum Demand met : 18068 MW**Minimum Demand met: 11700 MW**

WATER LEVEL IN MAJOR RESERVOIRS ON LAST DATE OF MONTH

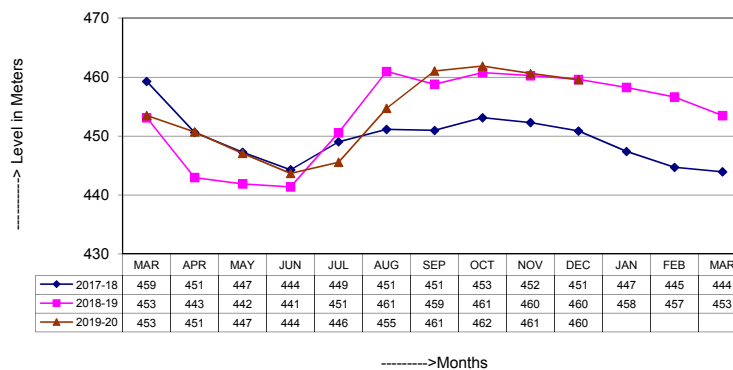
RENGALI RESERVOIR LEVEL



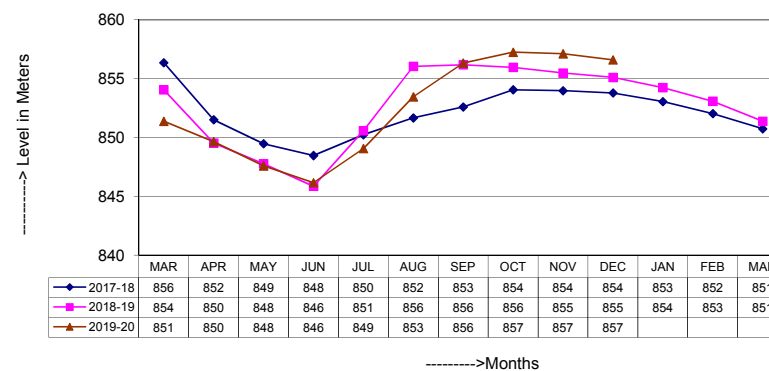
HIRAKUD RESERVOIR LEVEL



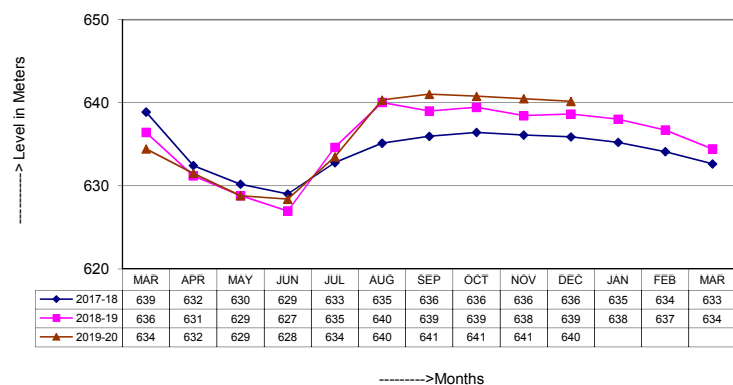
BALIMELA RESERVOIR LEVEL



UPPER KOLAB RESERVOIR LEVEL



INDRAVATI RESERVOIR LEVEL



SUBERNREKHA RESERVOIR LEVEL

