



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

जनवरी- 2020

January-2020



14, गोल्फ क्लब रोड, टोलीगंज

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INDEX

Sl. No.	Contents	Page No.
1	Highlights & Salient Features	1-2
2.	Power Supply Position of Eastern Region and Constituents wise performance	3-3A
5.	Comparative study of power supply position with previous year	4
7.	Performance vis-à-vis Energy Generation from Power Stations	5-6
8.	Plant Load Factor(PLF) of Thermal Power Stations	7-8
9.	Power Scenario at the time of Regional Peak	9
10.	Hourly Load/Generation Data of region for Peak day & Lean day	10
11	Notified Power Cut, Restriction & Power Supply to Agriculture Sector	11
ANNEXURES		
I	Frequency Analysis	12
II	Voltage Analysis	13
III	Reservoir level of major hydro stations and Import from IPPs/CPPs by Constituents	14
IV	Different Types of work performed by ERPC in Jan'20 & List of Various Meeting held in Jan'20	15
EXHIBITS		
I	Chart: Effective Capacity & Generation Corresponding to Peak Demand Met	16
II	Chart: Net Energy Generation & Reservoir Levels recorded	17
III	Chart: Capacity & Generation pattern of the Peak Day	18
IV	Daily Regional Peak Demand Met & Shortage	19
V	Hourly Load/generation Pattern of Peak Day	20
VI	Hourly Load/generation Pattern of Lean Day	21
VII	Monthly Load Duration Curve	22
VIII	Reservoir Levels	23

Highlights of Eastern Regional Power System for January-2020

- The **Maximum Net Demand** met of **Eastern Region (ER)** during the month of **Jan, 2020** was **18714 MW** which is marginally more than the **Jan, 2019** (18702 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 **Jan, 2020** was **349.04 MU** excluding export, which is marginally less than the corresponding period of last year (355.14 MU).
- **The Average regional PLF of thermal units during the month is 61.55%**, which is 3.81% less than the corresponding period of the last year (**65.36%**).

NTPC (TTPS) registered the highest **PLF** of 97.43%, followed by WBPDC (Bakreswar TPP) 89.21% and CESC (**Budge-Budge**) 88.47% during the month of **Jan, 2020**.

- **Maximum Net generation** was **22739 MW** against total **Effective Capacity of 38881.26 MW** (including import from Bhutan). At the time of Regional peak (18714 MW on 28.01.2020 at 19.00 hrs.) the generation was 22327 MW and import from CPP was 914 MW, Net export was 4537 MW.
- The system frequency in the IEGC recommended band (49.9 Hz to 50.05 Hz) remained for 75.01% of time during the month. **Average frequency** for the month was **49.99 Hz**. The instantaneous maximum and the minimum frequency touched were 50.47 Hz and 49.69 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 **428 KV** at Binaguri 400 KV S/s whereas the minimum voltage recorded 388 KV at Jeerat 400 KV S/s of Power grid.
- **The Maximum Export from ER to outside region was 8090 MW (including Nepal and Bangladesh) on 18thJan, 2020 at 10:00 hrs. Total net energy export during the month was 3233.34 MU (Inc. Transmission loss) MU which is corresponds to 24.02 % of ex-bus total generation 13458.48 MU of Eastern Region.**
- **The import from CPPs was 595.23 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	4895	0	1924.205
WR	1364	3305	-789.31
SR	3787	0	1764.05
NER	539	663	-83.73
BANGLADESH	751		233.91
NEPAL (via-CTU)	277		184.20
Total	8090	3305	3233.34
NEPAL by Bihar(NBPDCL)			75.36

SALIENT FEATURES

(YEAR TO YEAR COMPARISION)

		Jan-20	JAN-2019	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)		18758	18783	-25	-0.13
3) Peak Demand Met (MW)		18714	18702	12	0.06
4) Shortage (MW)		44	81	-37	-45.42
5) % Shortage		0.24	0.43	-0.19	-45.19
6) Average Energy Requirement Per Day (MU)		349.39	357.42	-8.03	-2.25
7) Average Energy Availability Per Day (MU)		349.04	355.14	-6.10	-1.72
8) Average Shortage Per Day (MU)		0.34	2.29	-1.95	-85.09
9) % Shortage		0.10	0.64	-0.54	-84.73
10) Net Generation for the Month					
Thermal (MU)		12421.84	12203.65	218.19	1.79
Hydro (MU)		956.39	* 769.94	186.45	24.22
RES (MU)		80.24	0.00	0.00	-
Total (MU)		13458.48	13043.54	414.94	3.18
11) Generation at the Time of Max. Regional Demand Met (28-01-20 at 19.00 Hrs.)					
Thermal (MW)		19561	17245	2316	13.43
Hydro (MW)		2754	* 3305	-551	-16.67
RES (MW)		22	14	8	54.22
Total (MW)		22337	20564	1773	8.62
12) Inter-Regional Energy Transfer					
Export (MU)		4106.38	3945.01	161.37	4.09
Import (MU)		873.04	1147.84	-274.80	-23.94
Net Exp.(+)/Net Imp.(-) (MU)		3233.34	2797.16	436.18	15.59
13) Import From Captive(MU)		595.23	762.96	-167.73	-21.98
14) Peak Inter Regional Power Transfer					
Max Export (MW) on 18-01-20 at 10.00Hrs		8090	7044	1046	14.84
Max Import (MW) on 01-01-20 at 22.00Hrs		3305	2928	377	12.88
Max Net Export(+)/Import (-) (MW)		7688	6374	1314	20.62
15) Maximum voltage recorded		428	BINAGURI	400 kv s/s	
16) Minimum voltage recorded		388	JEERAT	400 kv s/s	

\$ Excludes 2196 MW contribution from HEPs of Bhutan

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

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 JAN'2020

A) Net Average Energy Per Day

System	Demand Met (MU/Day)	Requirement (MU/Day)	Shortage (MU/Day)	% Shortage
BSPHCL	80.45	80.57	0.11	0.14
JUVNL	25.42	25.63	0.21	0.82
DVC	62.36	62.39	0.02	0.04
ODISHA	65.98	66.00	0.02	0.04
WBSIEDCL	91.04	91.17	0.13	0.14
CESC	21.76	21.77	0.01	0.04
SIKKIM	1.86	1.86	0.00	0.04
REGION	349.0	349.39	0.34	0.10

B) Peak Demand in MW:

System	Demand Met (MW)	Requirement (MW)	Shortage (MW)	% Shortage
BSPHCL	4571	4571	0	0.00
JUVNL	1373	1373	0	0.00
DVC	2988	2988	0	0.00
ODISHA	3604	3615	11	0.31
WBSIEDCL	5064	5076	12	0.24
CESC	1266	1266	0	0.0
SIKKIM	115	115	0	0.00
REGION	18714	18758	44	0.24

➤ **DIVERSITY FACTOR** **1.01**

➤ **Regional Peak Demand Met on 28-1-2020 at 19.00 hrs. at 49.93 Hz.**

CONSTITUENT-WISE PERFORMANCE DATA JANUARY-2020

SYSTEM	Gross Generation(MU)				Auxiliary power Consumption(MU)				Net Generation (MU)				Import from Captive (MU)	Exchange Net Import(+) Net Export(-)	Energy Consumption(MU)	Per Day Cons.(MU)	Net Peak Demand Met (MW)	Gross Peak Demand Met (MW)
	HYDRO	Thermal	RES (Hy+Solar)	Total	HYDRO	Thermal	Solar	Total	HYDRO	Thermal	Solar	Total						
BSPHCL	0.00	0.00	43.30	43.30	0.00	0.00	0.00	0.00	0.00	0.00	43.30	43.30	0.00	2450.79	2494.09	80.5	4571	4571
JUVNL	2.03	214.72	0.00	216.75	0.00	26.22	0.00	26.22	2.03	188.50	0.00	190.53	48.46	549.13	788.13	25.4	1373	1412
DVC	8.19	3163.84	0.00	3172.03	0.08	213.62	0.00	213.69	8.11	2950.22	0.00	2958.33	12.13	-1037.17	1933.30	62.4	2988	3303
ODISHA(OPGC+OHPC+TTPS)	417.78	1092.96	27.93	1538.67	4.49	94.44	0.00	98.93	413.29	998.52	27.93	1439.74	449.29	156.20	2045.23	65.98	3605	3750
WBPDC+WBSEDCL+DPL	98.67	1951.51	6.91	2057.08	0.00	180.08	0.00	180.08	98.67	1771.42	6.91	1877.00	85.36	859.85	2822.21	91.0	5064	5363
CESC	0.00	504.70	0.00	504.70	0.00	36.92	0.00	36.92	0.00	467.78	0.00	467.78	0.00	206.92	674.70	21.8	1266	1328
HEL	0.00	278.83	0.00	278.83	0.00	21.12	0.00	21.12	0.00	257.71	0.00	257.71	0.00	-257.71				
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	56.60	57.60	1.9	115	115
NTPC	0.00	4492.88	0.00	4492.88	0.00	340.63	0.00	340.63	0.00	4152.25	0.00	4152.25	0.00	-4152.25				
MPL	0.00	628.48	0.00	628.48	0.00	35.22	0.00	35.22	0.00	593.26	0.00	593.26	0.00	-593.26				
APNRL	0.00	289.42	0.00	289.42	0.00	20.48	0.00	20.48	0.00	268.94	0.00	268.94	0.00	-268.94				
GMR	0.00	327.55	0.00	327.55	0.00	22.37	0.00	22.37	0.00	305.18	0.00	305.18	0.00	-305.18				
JITPL	0.00	498.88	0.00	498.88	0.00	30.81	0.00	30.81	0.00	468.07	0.00	468.07	0.00	-468.07				
NHPC (Inc TLDP= 35.45 MU)	139.29	0.00	0.00	139.29	0.00	0.00	0.00	0.00	139.29	0.00	0.00	139.29	0.00	-139.29	0.00			
CHPC(Birpara Receipt)	16.54	0.00	0.00	16.54	0.00	0.00	0.00	0.00	16.54	0.00	0.00	16.54	0.00	-16.54	0.00			
KHPS	-13.28	0.00	0.00	-13.28	0.00	0.00	0.00	0.00	-13.28	0.00	0.00	-13.28	0.00	13.28	0.00			
THPS	9.24	0.00	0.00	9.24	0.00	0.00	0.00	0.00	9.24	0.00	0.00	9.24	0.00	-9.24	0.00			
DAGACHU HPS	14.86	0.00	0.00	14.86	0.00	0.00	0.00	0.00	14.86	0.00	0.00	14.86	0.00	-14.86	0.00			
Mangdechhu HEP	75.46	0.00	0.00	75.46	0.00	0.00	0.00	0.00	75.46	0.00	0.00	75.46	0.00	-75.46	0.00			
CHUZACHEN HPS	9.22	0.00	0.00	9.22	0.00	0.00	0.00	0.00	9.22	0.00	0.00	9.22	0.00	-9.22	0.00			
JORHANG HPS	11.36	0.00	0.00	11.36	0.00	0.00	0.00	0.00	11.36	0.00	0.00	11.36	0.00	-11.36	0.00			
TEESTA-III HPS	154.71	0.00	0.00	154.71	0.00	0.00	0.00	0.00	154.71	0.00	0.00	154.71	0.00	-154.71	0.00			
DIKCHU HPS	7.17	0.00	0.00	7.17	0.00	0.00	0.00	0.00	7.17	0.00	0.00	7.17	0.00	-7.17	0.00			
TASHIDING HPS	9.74	0.00	0.00	9.74	0.00	0.00	0.00	0.00	9.74	0.00	0.00	9.74	0.00	-9.74	0.00			
Total Drawal by HVDC Sahsaram,Alipurduar														5.03	5.03			
Total	960.96	13443.76	79.15	14483.86	4.57	1021.92	0.00	1026.48	956.39	12421.84	79.15	13457.38	595.24	-3232.34	10820.28	349.0	18714	20481

3A

13457.38

10820.28

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	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	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	349.04	349.39	0.34	0.10	49.99
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	Requirement	Shortage	Shortage	Avg. Freq.	Demand Met	Requirement	Shortage	Shortage	Avg. Freq.
	(MW)	(MW)	(MW)	(%)	(HZ)	(MW)	(MW)	(MW)	(%)	(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	18714	18758	44	0.24	49.99
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 JANUARY-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	
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	0.00	0.00	587.75	511.20	
		Thermal Total	440.00	430.00	0.00	0.00	712.76	618.78	
	RES	Total BIHAR	781.25	771.25	43.30	43.30	979.60	885.62	
JHARKHAND									
TVNL	Thermal	TVNL	420.00	420.00	214.72	188.50	2070.25	1815.28	
JSEB	Hydro	Subarnrekha (U#1,2)	130.00	130.00	2.03	2.03	36.12	36.12	
	RES		46.75	46.75	0.00	0.00	0.00	0.00	
	Total		176.75	176.75	2.03	2.03	36.12	36.12	
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	319.34	289.18	2853.86	2575.11	
		Durgapur(4)	210.00	210.00	0.00	-0.77	341.03	288.22	
		Mezia(1,2,3,4,5,6)	1340.00	1340.00	584.52	523.99	6267.83	5621.77	
		Mezia(U # 7,8)	1000.00	1000.00	586.76	558.38	4303.98	4065.28	
		Bokaro-A(1)	500.00	500.00	181.08	169.55	2182.89	2056.97	
		Durgapur STPS (U#1,2)	1000.00	1000.00	521.06	493.13	5196.55	4901.73	
		Raghunathpur TPS (U#1,2)	1200.00	1200.00	344.54	322.38	4426.21	4151.47	
	Koderma STPS (U#1,2)	1000.00	1000.00	626.53	594.61	5459.10	5152.36		
	Total Thermal		7100.00	7090.00	3163.84	2950.22	31125.48	28880.37	
	Hydro	Maithon (U#1,2,3)	63.20	63.20	3.91	3.87	68.60	68.29	
		Panchet (U#1,2)	80.00	80.00	2.98	2.95	98.23	97.57	
		Tilaya (U#1,2)	4.00	4.00	1.30	1.3	1.58	1.5	
Hydro Total			147.20	147.20	8.19	8.11	168.41	167.35	
Total DVC		7247.20	7237.20	3172.03	2958.33	31293.89	29047.71		
WEST BENGAL									
WBPDCL	Thermal	Bandel TPS	380.00	335.00	22.29	17.73	805.99	708.77	
		Santalalih TPS(U#5&6)	500.00	500.00	291.23	267.34	2973.38	2727.84	
		Kolaghat TPS	1260.00	1260.00	122.76	104.55	2640.74	2323.52	
		Bakreswar TPP	1050.00	1050.00	696.88	638.09	5603.74	5085.94	
		Sagardighi TPP	1600.00	1600.00	685.73	625.82	5588.85	5081.62	
		DPPS (110+300+250 *)	660.00	660.00	132.63	117.91	1932.48	1729.16	
		Thermal Total		5450.00	5405.00	1951.51	1771.42	19545.18	17656.84
WBSEDCL	Hydro	Jaldhaka (3x9+2x4)	35.00	35.00	0.27	0.27	174.23	174.23	
		Ramam (4x12.73)	51.00	51.00	10.45	10.45	229.78	229.78	
		Teesta C.F. (3x3x7.5)	67.50	67.50	0.00	0.00	43.75	43.75	
		Purulia PSS (4x225)	900.00	900.00	87.95	87.95	985.70	985.70	
		Total Hydro		1053.50	1053.50	98.67	98.67	1433.46	1433.46
		RES		527.29	527.29	6.91	6.91	160.47	160.47

- 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 JANUARY-2020

ORGANI- SATION	TYPE	POWER STATION	INSTALLED CAPACITY	EFFECTIVE CAPACITY	Gross Energy Generation	Net Energy Generation	Cummulative Gross Energy Generation upto Current Month	Cummulative Net Energy Generation upto Current Month	
			(in MW)	(in MW)	in MU	in MU	(2019-20) in MU	(2019-20) in MU	
CESC	Thermal	Titagarh (4x60)	240.00	240.00	0.00	0.00	0.00	0.00	
		Southern (2x67.5)	135.00	135.00	11.04	10.09	339.26	307.20	
		Budge-Budge (3x250)	750.00	750.00	493.66	457.68	4819.96	4446.12	
		Total CESC	1125.00	1125.00	504.70	467.78	5159.22	4753.32	
HEL	Thermal	HEL	600.00	600.00	278.83	257.71	3835.26	3546.56	
		Total West Bengal	8755.79	8710.79	2840.61	2602.49	30133.60	27550.65	
ODISHA (NTPC)	Thermal	Talcher-I	250.00	240.00	180.53	161.37	1520.57	1349.41	
		Talcher-II	220.00	220.00	152.92	136.70	1279.86	1135.58	
		Total Thermal	470.00	460.00	333.45	298.06	2800.43	2484.99	
OPGC	Thermal	IB TPS	420.00	420.00	207.11	181.71	2228.51	1974.90	
		IB TPS U#3(660 MW)	660.00	660.00	279.05	262.02	1786.04	1671.88	
		IB TPS U#4(660 MW)	660.00	660.00	273.36	256.72	1561.67	1439.50	
OHPC	Hydro	Hirakud-I (Burla)	275.50	275.50	26.97	26.83	505.96	503.50	
		Hirakud-II (Chiplima)	72.00	72.00	16.27	16.19	218.81	217.69	
		Balimela (6x60+2x75)	510.00	510.00	104.28	102.87	1360.15	1351.26	
		Rengali (5x50)	250.00	250.00	30.61	29.69	567.57	565.10	
		Upper Kolab (4x80)	320.00	320.00	71.59	71.27	671.82	668.11	
		Indravati HPS (4x150)	600.00	600.00	140.91	139.30	1908.78	1887.89	
		Mckd.(Odisha drawal)	57.38	57.38	27.16	27.16	257.01	257.01	
		Total Hydro	2084.88	2084.88	417.78	413.29	5490.11	5450.55	
		RES	511.21	511.21	27.93	27.93	250.50	250.50	
		Total Odisha	4806.09	4796.09	1538.67	1439.74	13379.16	12599.86	
(**) SIKKIM	Hydro	RES	52.18	52.18	1.00	1.00	24.00	24.00	
NTPC		MTPS Stg-II	390.00	390.00	229.915	207.37	1944.86	1742.97	
		FSTPP# I&II (3x200+2x500)	1600.00	1600.00	844.24	785.67	8597.10	7923.66	
		FSTPP (U# 6)	500.00	500.00	285.07	266.03	2243.02	2092.86	
		KhSTPP (4x210+3x500)	2340.00	2340.00	1377.26	1275.03	13678.65	12665.00	
		TSTPP (2x500)	1000.00	1000.00	466.43	427.84	5125.59	4687.65	
		BARH STPS II (2X660)	1320.00	1320.00	387.22	355.77	7258.60	6838.63	
		BRBCL # 1,2,3(3X250 MW)	750	750	483.83	448.81	4013.69	3712.06	
		NSTPS	660.00	660.00	402.13	381.03	2037.50	1909.31	
		DSTPP			16.78	4.69	234.43	187.68	
		Total NTPC	8560.00	8560.00	4492.87	4152.25	45133.44	41759.83	
		NHPC	HYDRO	Rangit (3x20)	60.00	60.00	14.93	14.93	323.48
Teesta (3x170)	510.00			510.00	88.90	88.90	2623.86	2623.86	
TLDP -(4x33+4x40)	292.00			292.00	35.45	35.45	1229.78	1229.78	
Total NHPC	862.00			862.00	139.29	139.29	4177.12	4177.12	
1635.45	MPL (U#1&2)			1050.00	1050.00	628.48	593.26	5447.39	5123.40
APNRL (U#1,2)	540.00			540.00	289.42	268.94	2493.40	2281.88	
GMR (2x350)	700.00			700.00	327.55	305.18	3126.53	2901.21	
JITPL (2X600)	1200.00			1200.00	498.88	468.07	4105.90	3841.12	
CHUZACHEN** (2x55)	110.00			110.00	9.22	9.22	452.30	452.30	
JORETHANG (2x48)	96.00			96.00	11.36	11.36	385.37	385.37	
TEESTA URJA St III (6x200)	1200.00			1200.00	154.71	154.71	5684.25	5684.25	
Tashilding (2x48.5)	97.00			97.00	9.74	9.74	416.17	416.17	
DICKCHU (2x48)	96.00			96.00	7.17	7.17	457.87	457.87	
TALCHER SOLAR	10.00			10.00	1.10	1.10	11.04	11.04	
Total Thermal (E.R)	29395.00			29320.00	13443.75	12421.84	131131.48	120749.86	
EASTERN REGIONAL		Total Hydro (E.R)	5876.58	5876.58	858.14	853.58	18701.16	18660.55	
		Total RES	1488.68	1488.68	80.24	80.24	712.85	712.85	
		TOTAL (E.R)	36760.26	36685.26	14382.13	13355.66	150545.49	140123.26	
BHUTAN	Hydro	CHPC(4x90)	360.00	270.00	16.54	16.54	1591.46	1591.46	
		Kurichu (4x15)	60.00	60.00	-13.28	-13.28	260.70	260.70	
		TALA (6x170)	1020.00	1020.00	9.24	9.24	2558.45	2558.45	
		DAGACHU (2x63)	126.00	126.00	14.86	14.86	367.20	367.20	
		MANGDECHU(4x180)	720.00	720.00	75.46	75.46	1432.81	1432.81	
		Grand Total	39046.26	38881.26	14484.95	13458.48	156756.12	146333.88	

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

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	8.11	
		Muzaffarpur Stg-I	220.00	220.00	0.00	0.00	587.75	36.38	
		Thermal Total	440.00	430.00	0.00	0.00	712.76	22.57	
	RES		341.25	341.25	43.30		266.84		
	Total BIHAR		781.25	771.25	43.30		979.60		
JHARKHAND									
TVNL	Thermal	TVNL	420.00	420.00	214.72	68.71	2070.25	67.12	
JSEB	Hydro	Subarnrekha (U#1,2)	130.00	130.00	2.03		36.12		
	RES		46.75	46.75	0.00		0.00		
	Total		176.75	176.75	2.03		36.12		
DVC	Thermal	Bokaro-B(3)	210.00	210.00	0.00	0.00	94.03	6.10	
		Chandrapura (3)	140.00	130.00	0.00	0.00	0.00	0.00	
		Chandrapura(U7 # 8)	500.00	500.00	319.34	85.85	2853.86	77.72	
		Durgapur(4)	210.00	210.00	0.00	0.00	341.03	22.11	
		Mezia(1,2,3,4,5,6)	1340.00	1340.00	584.52	58.63	6267.83	63.69	
		Mezia(U # 7,8)	1000.00	1000.00	586.76	78.87	4303.98	58.61	
		Bokaro-A(1)	500.00	500.00	181.08	48.68	2182.89	59.45	
		Durgapur STPS (U#1,2)	1000.00	1000.00	521.06	70.04	5196.55	70.76	
		Raghunathpur TPS (U#1,2)	1200.00	1200.00	344.54	38.59	4426.21	50.22	
	Koderma STPS (U#1,2)	1000.00	1000.00	626.53	84.21	5459.10	74.33		
	Total Thermal		7100.00	7090.00	3163.84	59.98	31125.48	59.78	
	Hydro	Maithon (U#1,2,3)	63.20	63.20	3.91		68.60		
		Panchet (U#1,2)	80.00	80.00	2.98		98.23		
Tilaya (U#1,2)		4.00	4.00	1.30		1.58			
Hydro Total			147.20	147.20	8.19		168.41		
Total DVC		7247.20	7237.20	3172.03		31293.89			
WEST BENGAL									
WBPDCCL	Thermal	Bandel TPS	380.00	335.00	22.29	8.94	805.99	32.76	
		Santalalih TPS(U#5&6)	500.00	500.00	291.23	78.29	2973.38	80.97	
		Kolaghat TPS	1260.00	1260.00	122.76	13.09	2640.74	28.54	
		Bakreswar TPP	1050.00	1050.00	696.88	89.21	5603.74	72.67	
		Sagardighi TPP	1600.00	1600.00	685.73	57.60	5588.85	47.56	
		DPPS (110+300+250 *)	660.00	660.00	132.63	27.01	1932.48	39.87	
		Thermal Total		5450.00	5405.00	1951.51	48.53	19545.18	49.24
WBSEDCL	Hydro	Jaldhaka (3x9+2x4)	35.00	35.00	0.27		174.23		
		Ramam (4x12.73)	51.00	51.00	10.45		229.78		
		Teesta C.F. (3x3x7.5)	67.50	67.50	0.00		43.75		
		Purulia PSS (4x225)	900.00	900.00	87.95		985.70		
		Total Hydro		1053.50	1053.50	98.67		1433.46	
		RES		527.29	527.29	6.91		160.47	

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

PLANT LOAD FACTOR (PLF) OF THERMAL POWER STATIONS IN EASTERN REGION DURING THE MONTH OF JANUARY' 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 (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	11.04	10.99	339.26	34.22
		Budge-Budge (3x250)	750.00	750.00	493.66	88.47	4819.96	87.51
		Total CESC	1125.00	1125.00	504.70	60.30	5159.22	62.45
HEL	Thermal		600.00	600.00	278.83	62.46	3835.26	87.04
		Total West Bengal	8755.79	8710.79	2840.61		30133.60	
ODISHA (NTPC)	Thermal	Talcher-I	250.00	240.00	180.53	101.10	1520.57	86.27
		Talcher-II	220.00	220.00	152.92	93.43	1279.86	79.22
		Total Thermal	470.00	460.00	333.45	97.43	2800.43	82.90
OPGC	Thermal	IB TPS	420.00	420.00	207.11	66.28	2228.51	72.25
		IB TPS U#3(660 MW)	660.00	660.00	279.05	56.83	1786.04	46.80
		IB TPS U#4(660 MW)	660.00	660.00	273.36	55.67	1561.67	49.74
OHPC	Hydro	Hirakud-I (Burla)	275.50	275.50	26.97		505.96	
		Hirakud-II (Chiplima)	72.00	72.00	16.27		218.81	
		Balimela (6x60+2x75)	510.00	510.00	104.28		1360.15	
		Rengali (5x50)	250.00	250.00	30.61		567.57	
		Upper Kolab (4x80)	320.00	320.00	71.59		671.82	
		Indravati HPS (4x150)	600.00	600.00	140.91		1908.78	
		Mckd.(Odisha drawal)	57.38	57.38	27.16		257.01	
		Total Hydro	2084.88	2084.88	417.78		5490.11	
		RES	511.21	511.21	27.93		250.50	
		Total Odisha	4806.09	4796.09	1538.67		13379.16	
(**) SIKKIM	Hydro	RES	52.18	52.18	1.00		24.00	
NTPC		MTPS Stg-II	390	390	229.915	79.24	1944.86	67.90
		FSTPP# I&II (3x200+2x500)	1600.00	1600.00	844.24	70.92	8597.10	73.16
		FSTPP (U# 6)	500.00	500.00	285.07	76.63	2243.02	61.08
		KhSTPP (4x210+3x500)	2340.00	2340.00	1377.26	79.11	13678.65	79.60
		TSTPP (2x500)	1000.00	1000.00	466.43	62.69	5125.59	69.79
		BARH STPS II (2X660)	1320.00	1320.00	387.22	39.43	7258.60	74.88
		BRBCL # 1,2,3(3X250 MW)	750.00	750.00	483.83	86.71	4013.69	72.87
		NSTPS	660.00	660.00	402.13	81.89	2037.50	77.58
		DSTPP			16.78		234.43	
		Total NTPC	8560.00	8560.00	4492.87	70.28	45133.44	74.02
NHPC	HYDRO	Rangit (3x20)	60.00	60.00	14.93		323.48	
		Teesta (3x170)	510.00	510.00	88.90		2623.86	
		TLDP -(4x33+4x40)	292.00	292.00	35.45		1229.78	
		Total NHPC	862.00	862.00	139.29		4177.12	
	Thermal	MPL (U#1&2)	1050.00	1050.00	628.48	80.45	5447.39	70.64
		APNRL (U#1,2)	540.00	540.00	289.42	72.04	2493.40	62.87
		GMR (2x350)	700.00	700.00	327.55	62.89	3126.53	60.82
		JITPL (2X600)	1200.00	1200.00	498.88	55.88	4105.90	46.59
		CHUZACHEN** (2x55)	110.00	110.00	9.22		452.30	
		JORETHANG (2x48)	96.00	96.00	11.36		385.37	
		TEESTA URJA St III (6x200)	1200.00	1200.00	154.71		5684.25	
		Tashilding (2x48.5)	97.00	97.00	9.74		416.17	
		DICKCHU (2x48)	96.00	96.00	7.17		457.87	
		TALCHER SOLAR	10.00	10.00	1.10		11.04	
Total Thermal (E.R)	29395.00	29320.00	13443.75	61.55	131131.48	62.26		
EASTERN REGIONAL		Total Hydro (E.R)	5876.58	5876.58	858.14		18701.16	
		Total RES	1488.68	1488.68	80.24		712.85	
		TOTAL (E.R)	36760.26	36685.26	14382.13		150545.49	
BHUTAN	Hydro	CHPC(4x90)	360.00	270.00	16.54		1591.46	
		Kurichu (4x15)	60.00	60.00	-13.28		260.70	
		TALA (6x170)	1020.00	1020.00	9.24		2558.45	
		DAGACHU (2x63)	126.00	126.00	14.86		367.20	
		MANGDECHU(4x180)	720.00	720.00	75.46		1432.81	
		Grand Total	39046.26	38881.26	14484.95		156756.12	

CONTRIBUTIONS OF DIFFERENT CONSTITUENTS AT THE TIME OF REGIONAL PEAK
DURING THE MONTH OF JAN'2020 (28-1-2020)

Date 28-Jan-20
Time 19.00 Hrs.
Frequency 49.93 Hz.

(All Fig. in MW)

System/State	Installed Capacity	Effective Capacity	Hydro	Thermal	RES	Total
BSPHCL	781	771	0	0	0	0
JUVNL	597	597	0	209	0	209
DVC	7247	7237	17	4954	0	4971
ODISHA	4806	4796	1160	1218	22	2399
WBSEDCL	6371	6326	458	2481	0	2939
TLDP	292	292	210	0	0	210
HEL HALDIA	600	600	0	547	0	547
CESC	1125	1125	0	711	0	711
DPL	660	660	0	0	0	0
SIKKIM	52	52	0	0	0	0
NTPC	8560	8560	0	6609	0	6609
NHPC	570	570	394	0	0	394
CHUKHA	360	270	36	0	0	36
KURICHU	60	60	-47	0	0	-47
TALA	1020	1020	20	0	0	20
MPL	1050	1050	0	984	0	984
OPGC (660 MW)	0	0	0	0	0	0
APNRL	540	540	0	372	0	372
Kamalganga (GMR)	700	700	0	571	0	571
JITPL	1200	1200	0	905	0	905
Chuzachen	110	110	107	0	0	107
Jorethang	96	96	0	0	0	0
TEESTA URJA St III	1200	1200	266	0	0	266
Tashilding	97	97	48	0	0	48
DICKCHU	96	96	0	0	0	0
<u>Daghachu</u>	126	126	18	0	0	18
<u>Solar</u>	10	10	0	0	0	0
<u>Mangdechu</u>	720	720	69	0	0	69
Total	39046	38881	2754	19561	22	22337
Import From Captive:						914
Export To:						
NER						-107
SR						2643
WR						-1319
NR						2319
Bangladesh						743
Nepal						258
Total						4537
➤ I Net Peak Demand Met (MW) :						18714

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

Hourly Load Generation Data OF ER On Regional Peak Day During The Month of JAN'2020 (28-1-2020)

(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	412	14840	15252	816	113	2479	13702	18	0	13720
2	350	14184	14533	802	115	2126	13324	16	0	13341
3	370	13365	13735	814	125	1588	13086	17	0	13103
4	288	13329	13618	827	120	1540	13025	-1	0	13025
5	188	14070	14258	814	123	1633	13561	-21	1	13562
6	533	15627	16160	813	121	2725	14369	1	1	14371
7	1844	17580	19425	863	87	4592	15783	23	1	15807
8	2767	19259	22026	896	59	6207	16774	47	66	16887
9	3044	19543	22587	879	53	6729	16790	6	74	16871
10	3096	19314	22410	788	61	6926	16333	-4	41	16370
11	2614	19067	21680	794	48	6695	15827	-7	39	15859
12	1913	18779	20691	817	28	6146	15390	-15	12	15402
13	1306	18241	19547	696	28	5611	14661	30	16	14706
14	670	18026	18696	679	35	5153	14257	-4	14	14267
15	540	18246	18786	711	39	5889	13647	20	14	13680
16	516	18418	18935	719	21	5792	13883	21	14	13917
17	1049	18781	19830	776	11	5881	14735	15	6	14756
18	1589	19264	20853	773	35	4858	16803	10	1	16814
19	2680	19561	22241	914	96	4537	18714	44	0	18758
20	2349	19685	22033	871	135	4551	18488	2	0	18490
21	1648	19364	21012	778	170	4207	17753	16	0	17768
22	1185	18819	20004	793	182	4359	16620	-1	1	16621
23	371	17926	18297	783	129	4234	14975	12	1	14987
24	284	16880	17164	750	120	4034	14000	-7	3	14003

Hourly Load Generation Data of ER On Regional Lean Day During The Month of JAN'2020 (9-1-2020)

(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	283	13166	13450	819	216	2849	11635	-6	1	11635
2	181	12768	12949	830	210	2873	11117	7	1	11125
3	164	12653	12818	730	179	2680	11047	0	19	11066
4	188	12646	12835	812	174	2807	11013	-1	25	11037
5	160	12762	12922	850	169	3002	10939	-6	27	10961
6	465	13341	13806	874	161	3104	11738	10	27	11775
7	1142	14936	16078	880	141	4021	13077	1	32	13111
8	2185	16740	18925	866	117	5348	14561	5	30	14596
9	2522	17227	19750	846	103	5659	15040	-24	29	15045
10	2730	17511	20241	824	108	6029	15143	-7	24	15161
11	2486	17429	19914	747	119	6223	14558	-14	12	14570
12	2404	17405	19810	720	116	6321	14325	3	9	14337
13	1370	17341	18711	697	120	5629	13899	0	9	13909
14	1060	16927	17987	734	129	5424	13427	-8	12	13431
15	1166	17003	18170	708	137	5821	13195	0	16	13211
16	1245	17196	18441	748	150	5892	13446	1	7	13455
17	1550	17285	18834	825	138	5288	14510	4	3	14517
18	2205	17683	19889	783	181	4230	16623	10	1	16634
19	2664	17567	20231	771	220	3646	17575	23	1	17599
20	2024	17526	19549	816	237	3254	17349	-11	1	17350
21	1473	17499	18971	818	239	3243	16785	7	1	16793
22	1277	16725	18001	794	239	3263	15772	-12	1	15773
23	950	15463	16413	743	216	3317	14055	2	1	14058
24	722	14015	14737	756	237	2510	13220	-19	1	13221

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

FOR THE MONTH OF JAN'2020

POWER CUT / RESTRICTIONS

BSPHCL	NO NOTIFIED CUTS/RESTRICTIONS However there was loadshedding of 2.610 MU
JUVNL	NO NOTIFIED CUTS/RESTRICTIONS However there was loadshedding of 6.221 MU
DVC	NO NOTIFIED CUTS/RESTRICTIONS. However there was loadshedding of 0.00 MU
ODISHA	NO NOTIFIED CUTS/RESTRICTIONS However there was loadshedding of 0.00 MU
WEST BENGAL	NO NOTIFIED CUTS/RESTRICTIONS. However there was loadshedding of 3.07 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 Jan-20

D A T E	H O U R S										INST. FREQ.				15 MIN. INTEGRATED			
	00 TO 05	05 TO 10	10 TO 17	17 TO 22	22 TO 24	00 TO 24	<49.9 TO 50.1	49.9 TO 50.05	>50.05 TO 50.9	49.9 TO 50.05	MAX HZ	HRS.	MIN HZ	HRS.	MAX HZ	HRS.	MIN HZ	HRS.
	01-Jan	50.01	49.98	49.99	50.00	50.03	50.00	6.40	68.10	25.50	68.10	50.27	17.03.00	49.78	04.48.0	50.13	0:00	49.86
02-Jan	50.04	49.95	49.96	49.99	50.00	49.98	11.00	67.70	21.30	67.70	50.22	00.00.20	49.76	16.18.30	50.13	0:00	49.81	0:00
03-Jan	49.99	49.95	49.98	49.98	50.00	49.98	10.30	74.20	15.50	74.20	50.17	10.00.50	49.70	12.19.20	50.07	0:00	49.79	0:00
04-Jan	49.95	49.97	50.00	49.99	49.99	49.98	7.20	78.40	14.40	78.40	50.21	12.01.20	49.75	01.17.40	50.06	0:00	49.81	0:00
05-Jan	49.98	49.97	49.96	50.00	50.03	49.98	5.80	78.90	15.20	78.90	50.23	23.54.00	49.79	13.11.50	50.14	0:00	49.85	0:00
06-Jan	50.01	49.93	49.94	49.99	49.99	49.97	13.80	72.90	13.30	72.90	50.18	00.02.10	49.69	14.27.10	50.12	0:00	49.76	0:00
07-Jan	50.00	49.95	49.96	49.98	50.01	49.97	10.70	76.70	12.70	76.70	50.15	00.01.40	49.76	07.23.20	50.06	0:00	49.80	0:00
08-Jan	50.00	49.95	49.99	50.00	50.02	49.99	6.80	74.50	18.60	74.50	50.47	18.00.20	49.75	16.42.50	50.12	0:00	49.80	0:00
09-Jan	50.00	50.00	50.00	49.99	50.02	50.00	2.60	74.20	23.20	74.20	50.21	12.01.50	49.84	06.12.40	50.08	0:00	49.90	0:00
10-Jan	50.00	49.98	50.00	50.00	50.03	50.00	5.00	73.50	21.50	73.50	50.21	12.02.10	49.76	16.40.00	50.13	0:00	49.83	0:00
11-Jan	50.03	49.96	50.01	50.01	49.98	50.00	5.20	70.20	24.60	70.20	50.19	10.49.10	49.78	09.10.50	50.15	0:00	49.88	0:00
12-Jan	50.00	50.00	49.98	50.00	49.98	49.99	5.10	79.20	15.70	79.20	50.23	06.02.50	49.78	11.33.40	50.10	0:00	49.88	0:00
13-Jan	50.00	49.99	49.98	49.99	50.01	49.99	5.80	75.20	19.00	75.20	50.19	18.03.30	49.75	07.14.50	50.09	0:00	49.86	0:00
14-Jan	50.00	49.97	50.00	49.99	50.01	49.99	6.50	77.20	16.30	77.20	50.17	14.02.50	49.76	18.15.30	50.07	0:00	49.84	0:00
15-Jan	50.00	49.99	50.02	50.01	50.01	50.01	2.00	76.20	21.80	76.20	50.23	12.03.10	49.78	22.08.10	50.09	0:00	49.94	0:00
16-Jan	50.01	49.99	49.96	50.00	50.01	49.99	8.40	72.10	19.60	72.10	50.26	22.00.50	49.73	16.43.10	50.09	0:00	49.86	0:00
17-Jan	50.00	49.92	49.99	49.98	49.97	49.97	10.30	76.50	13.20	76.50	50.15	14.02.30	49.85	07.21.50	50.08	0:00	49.81	0:00
18-Jan	49.98	50.00	49.99	50.01	50.02	50.00	2.70	77.90	19.50	77.90	50.22	06.03.20	49.81	00.10.10	50.09	0:00	49.93	0:00
19-Jan	50.00	49.98	50.00	50.00	50.03	50.00	4.20	74.40	21.30	74.40	50.20	06.02.20	49.77	16.54.40	50.10	0:00	49.90	0:00
20-Jan	49.98	49.97	50.00	50.02	49.98	49.99	6.20	75.50	18.20	75.50	50.21	17:04:50	49.75	06:44:10	50.07	0:00	49.90	0:00
21-Jan	50.00	49.98	50.01	50.03	50.01	50.01	4.10	69.90	26.00	69.90	50.21	15:03:10	49.88	07:20:30	50.11	0:00	49.83	0:00
22-Jan	50.03	50.01	50.01	50.02	50.04	50.02	0.30	69.10	30.60	69.10	50.19	23:58:20	49.75	14:12:10	50.08	0:00	49.96	0:00
23-Jan	49.99	50.00	50.00	49.99	50.00	49.99	6.00	72.50	21.50	72.50	50.19	14:01:30	49.75	06:11:40	50.08	0:00	49.90	0:00
24-Jan	49.99	50.00	49.98	49.98	49.97	49.98	7.50	79.50	13.00	79.50	50.24	06:00:50	49.80	06:57:20	50.06	0:00	49.89	0:00
25-Jan	49.98	49.99	49.97	49.98	49.98	49.98	10.00	76.50	13.60	76.50	50.16	06:02:30	49.76	16:58:20	50.06	0:00	49.84	0:00
26-Jan	49.98	49.99	50.00	49.98	49.98	49.99	6.30	75.80	17.90	75.80	50.24	18:04:10	49.69	22:09:00	50.15	0:00	49.84	0:00
27-Jan	50.02	49.98	49.98	49.98	50.01	49.99	7.60	73.50	18.90	73.50	50.18	13:01:20	49.76	14:13:20	50.09	0:00	49.85	0:00
28-Jan	49.99	49.97	49.98	49.98	50.00	49.98	7.80	76.70	15.60	76.70	50.17	10:00:20	49.79	22:10:00	50.08	0:00	49.88	0:00
29-Jan	50.01	49.99	49.97	50.00	49.97	49.99	5.30	77.10	17.60	77.10	50.16	12:01:40	49.80	07:25:40	50.08	0:00	49.85	0:00
30-Jan	49.98	49.97	50.00	49.98	49.97	49.98	5.60	81.80	12.60	81.80	50.19	12:00:50	49.79	06:44:10	50.05	0:00	49.86	0:00
31-Jan	50.00	49.99	49.99	49.99	50.02	49.99	4.40	79.40	16.20	79.40	50.24	06:02:40	49.82	21:07:20	50.08	0:00	49.89	0:00
MAX	50.04	50.01	50.02	50.03	50.04	50.02	13.80	81.80	30.60	81.80	50.47		49.88		50.15		49.96	
MIN	49.95	49.92	49.94	49.98	49.97	49.97	0.30	67.70	12.60	67.70	50.15		49.69		50.05		49.76	
AVG	50.00	49.98	49.99	49.99	50.00	49.99	6.48	75.01	18.51	75.01	50.21		49.77		50.09		49.86	

SUMMARY:

Avg. Frequency : 50.0 Hz.

Instantaneous Frequency :

Maximum Frequency : 50.47 Hz at 18.00.20 Hrs.

Minimum Frequency : 49.69 Hz at 14.27.10 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	6.48	75.01	18.51

VOLTAGE ANALYSIS

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

(All figs. in kV)

PGCIL	BINAGURI		MAITHON		JEERAT		BIHARSHARIFF	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	428	405	424	401	420	388	423	400

PGCIL	MUZAFFARPUR		JAMSHEDPUR		ROURKELA		JEYPORE	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	417	394	418	402	423	398	421	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
Jan-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	
			(31-01-20)	(31-01-19)		
Hirakud	192	180	190.94	189.81	191.63	01.01.20
Balimela	462	439	458.05	458.24	459.49	01.01.20
Rengali	123	109	122.47	117.22	122.87	01.01.20
Upperkolab	858	844	855.72	854.24	856.58	01.01.20
Indravati	642	625	639.19	638.03	641.15	01.01.20
Subernrekha	590	580	586.04	585.95	586.71	01.01.20

B.

CPP/IPP IMPORT by Eastern Region Constituents during
Jan-20

(All figs. are in MU)

System	Tata Power	Crescent Power	JSPL, Angul	Sterlite	Jindal	NALCO	TISCO	Others	Total
JUVNL	0	0	0	0	0	0	0	0	48.46
West Bengal	54.62	0.00	0	0	0	0	0	30.73	85.36
ODISHA	0	0	32.31	16.65	5.72	8.33	0	386.28	449.29
DVC	0	0	0	0	0	0	12.13	0	12.13
TOTAL	54.62	0.00	32.31	16.65	5.72	8.33	12.13	417.01	595.23

C.

Distribution of Schedule Supply among Key Customers by IPPs during
Jan-20

(All figs. are in MU)

IPP	TPDDL	WBSEDCL/ WBPDCL	DVC	Sale at IEX/NPCL	ODISHA	JSEB	CTU/Others	Total (Excl. Tr. Loss)
MPL	169.02	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

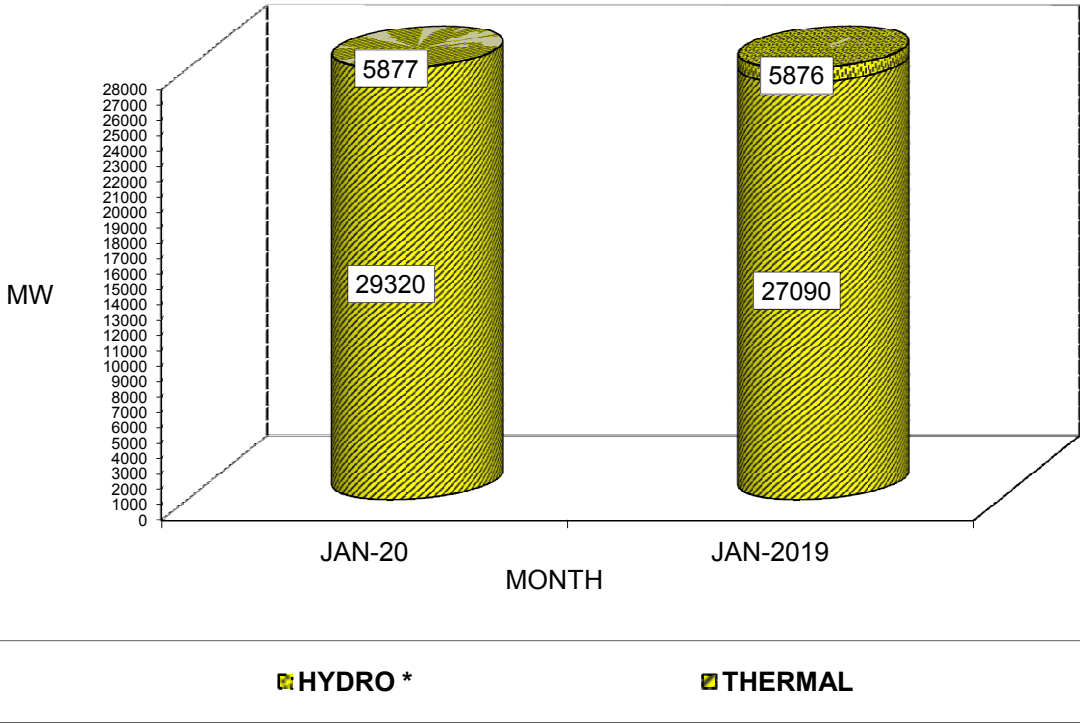
Task/ Works performed by ERPC during JANUARY, 2020

Sl. No.	Period	Date of Report
1	Progress Report: November 2019	02.01.2020
2	URS November-19	02.01.2020
3	REA December 2019	03.01.2020
4	DC-MPL-December 2019	04.01.2020
5	DC- Teesta III – December 2019	06.01.2020
6	Bilateral REA for December -2019	06.01.2020
7	RTA for December'2019	07.01.2020
8	DSM & RRAS Account 021219-081219(Revision-I)	08.01.2020
9	DSM, RRAS, FRAS & AGC Account 161219-221219	08.01.2020
10	REA Bhutan December-19	08.01.2020
11	VAR Account 161219-221219	08.01.2020
12	Deviation Settlement of Mangdechhu HEP of Bhutan from 160619-160819 & 160819-310819	13.01.2020
13	Mangdechhu REA Account 16.06.2019-16.08.2019	13.01.2020
14	AS-3 Format 16.01.2020-15.02.2020	14.01.2020
15	DSM, RRAS, FRAS & AGC Accounts 231219-291219	16.01.2020
16	VAR Account 231219-291219	16.01.2020
17	Monthly SCED Account – December,2019	17.01.2020
18	DSM, RRAS, FRAS, AGC A/c 301219-050120 & Dev of Bhutan power of Dec-2019	21.01.2020
19	RRAS Account 091219-291219(MPL)	21.01.2020
20	Revised Deviation A/c of Bhutan Power for Septemebr-2019 & October-2019	21.01.2020
21	Compensation Statement for October-19	21.01.2020
22	VAR Account 301219-050120	21.01.2020
23	DSM 091219-151219(Revision-I)	28.01.2020
24	DSM RRAS FRAS AGC 060120-120120	28.01.2020
25	VARH Account 060120-120120	28.01.2020
26	Progress Report December 2019	31.01.2020
27	Provisional Monthly Power Supply position for December-19	07.01.2020
28	Revised Monthly Power Supply position for December-19	27.01.2020

List of Meetings / Workshops held during JANUARY, 2020

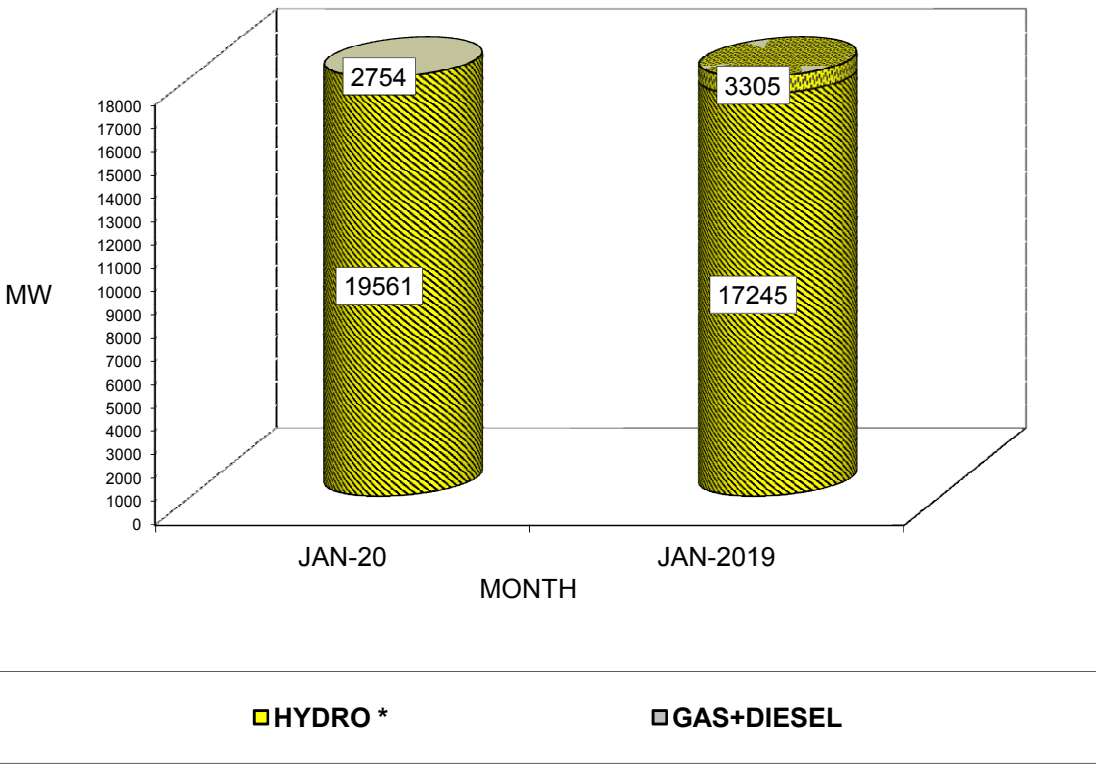
Sl. No.	Description	Date	Venue
1	Meeting with PWC	02.01.2020	ERPC, Kolkata
2	Hindi Kavi Sammelan	03.01.2020	ERPC, Kolkata
3	National Conference on Future Scenario and Challenges of Indian Power Sector	09.01.2020 to 10.01.2020	Hotel Vivanta, Kolkata
4	Training Programme for Power System Engineers of ER Constituents	13.01.2020 to 17.01.2020	AIPM, Kolkata
5	OCC Shutdown Meeting	20.01.2020	ERLDC, Kolkata
6	Meeting with AIPM	20.01.2020	ERPC, Kolkata
7	87 th PCC Meeting	21.01.2020	ERPC, Kolkata
8	Meeting with PTC	21.01.2020	ERPC, Kolkata
9	165 th OCC Meeting	22.01.2020	ERPC, Kolkata
10	Special Meeting on "Restoration of important transmission lines under long outage in ER"	24.01.2020	Powergrid ER – I, Patna
11	Meeting with DMTCL	27.01.2020	ERPC, Kolkata
12	Training on Disturbance Analysis using PSCT Software	27.01.2020 to 29.01.2020	ERPC, Kolkata
13	4 th TeST Meeting of ERPC	31.01.2020	ERPC, Kolkata
14	Meeting with CPWD	31.01.2020	ERPC, Kolkata

EFFECTIVE CAPACITY OF EASTERN REGIONAL GRID



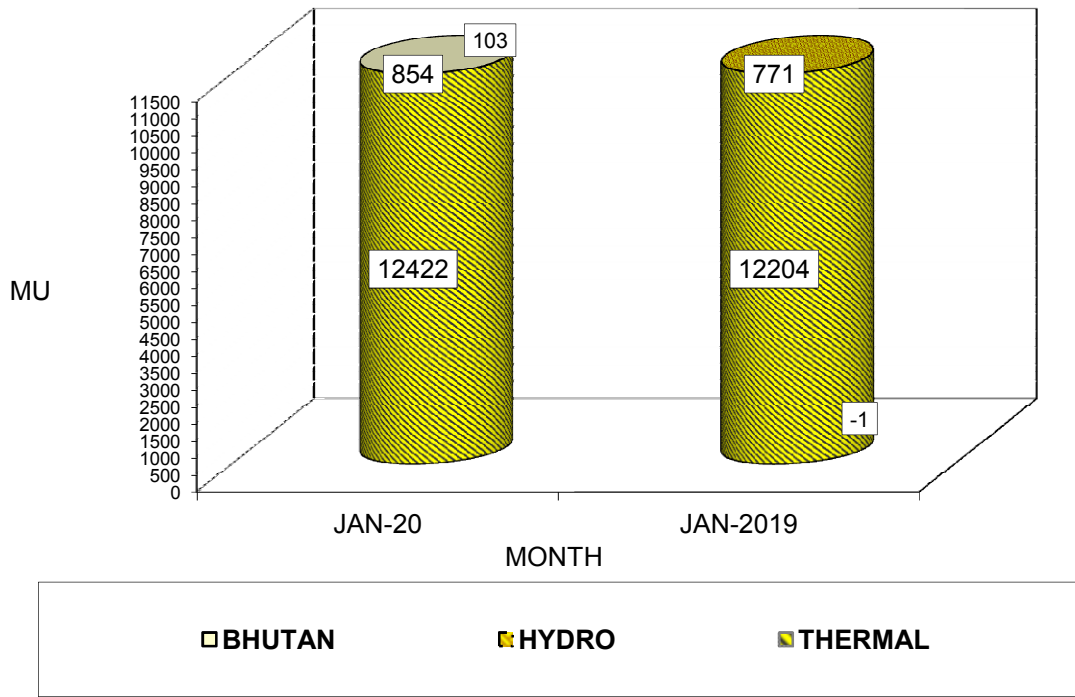
*Excludes 1350 MW contribution from HEPs of Bhutan

GENERATION CORRESPONDING TO PEAK DEMAND MET

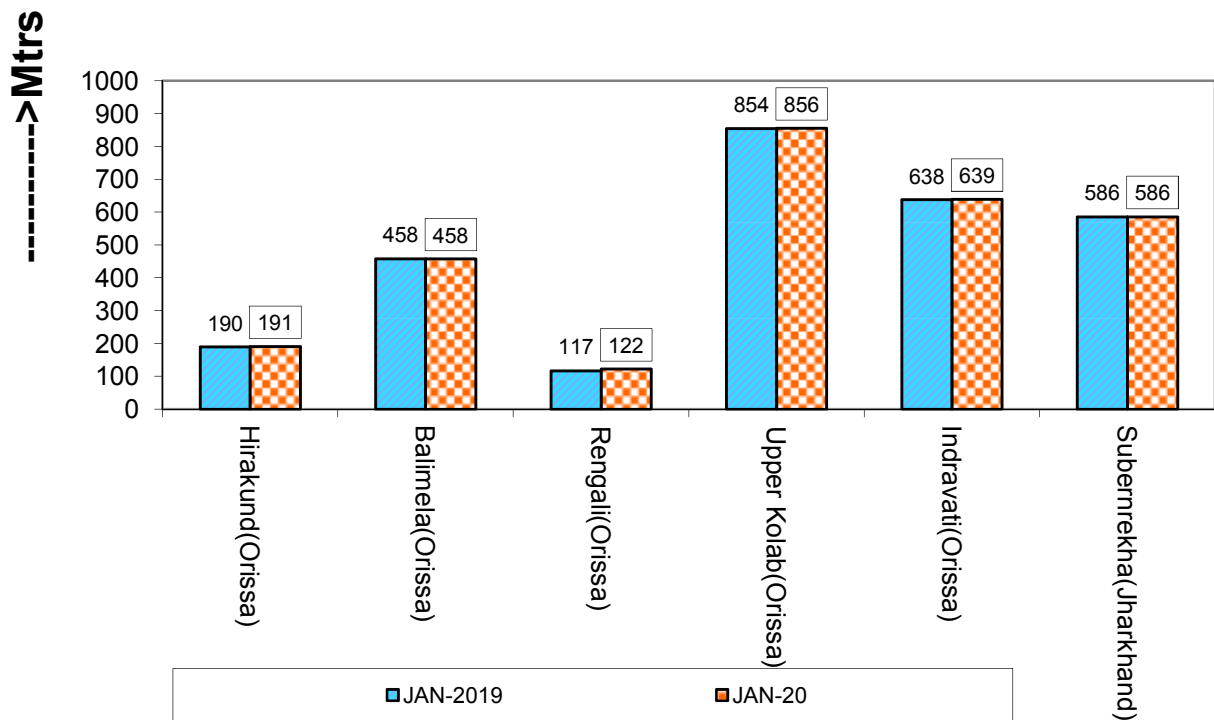


*Includes contribution from HEP of Bhutan

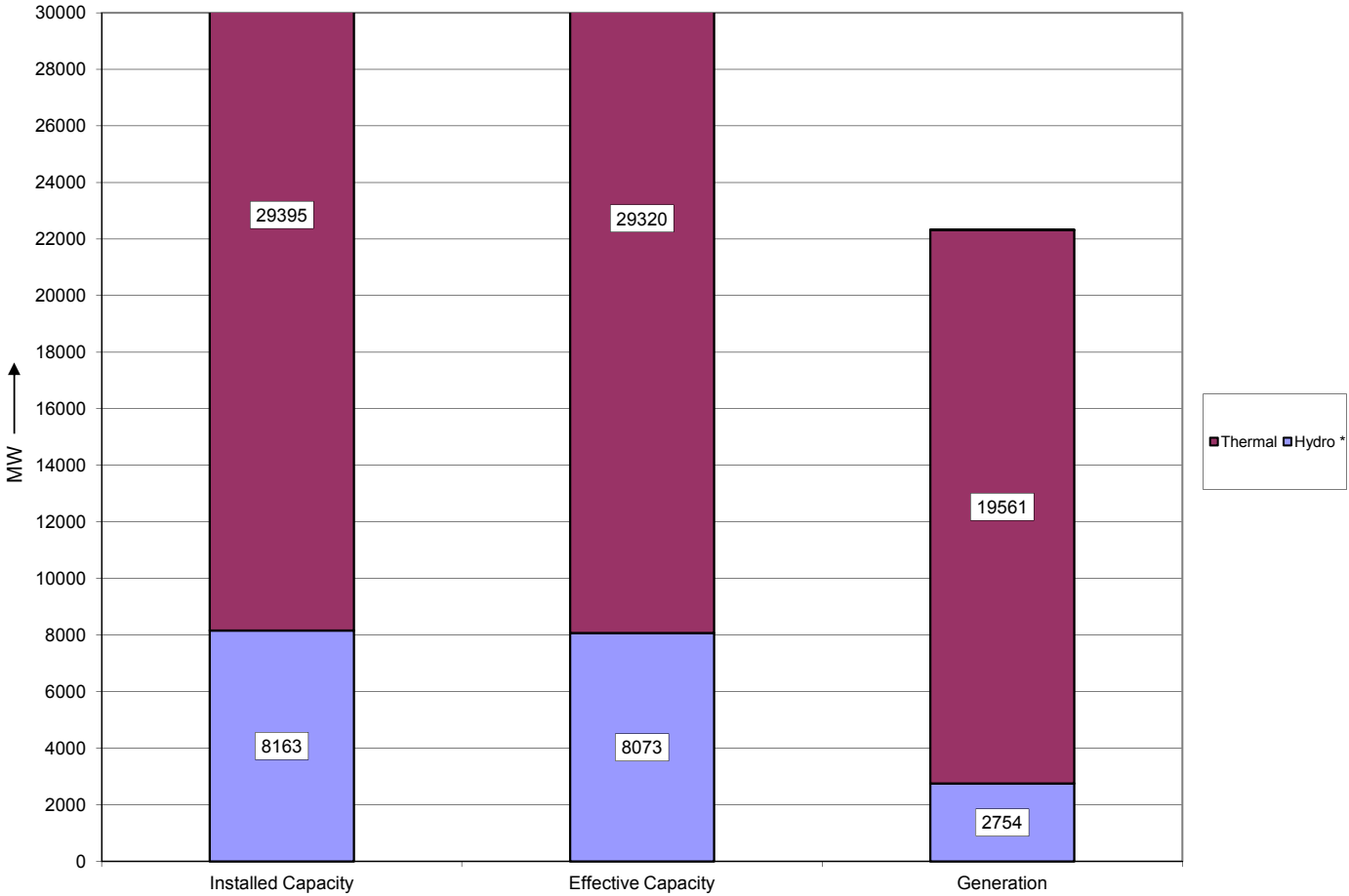
NET ENERGY GENERATION



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

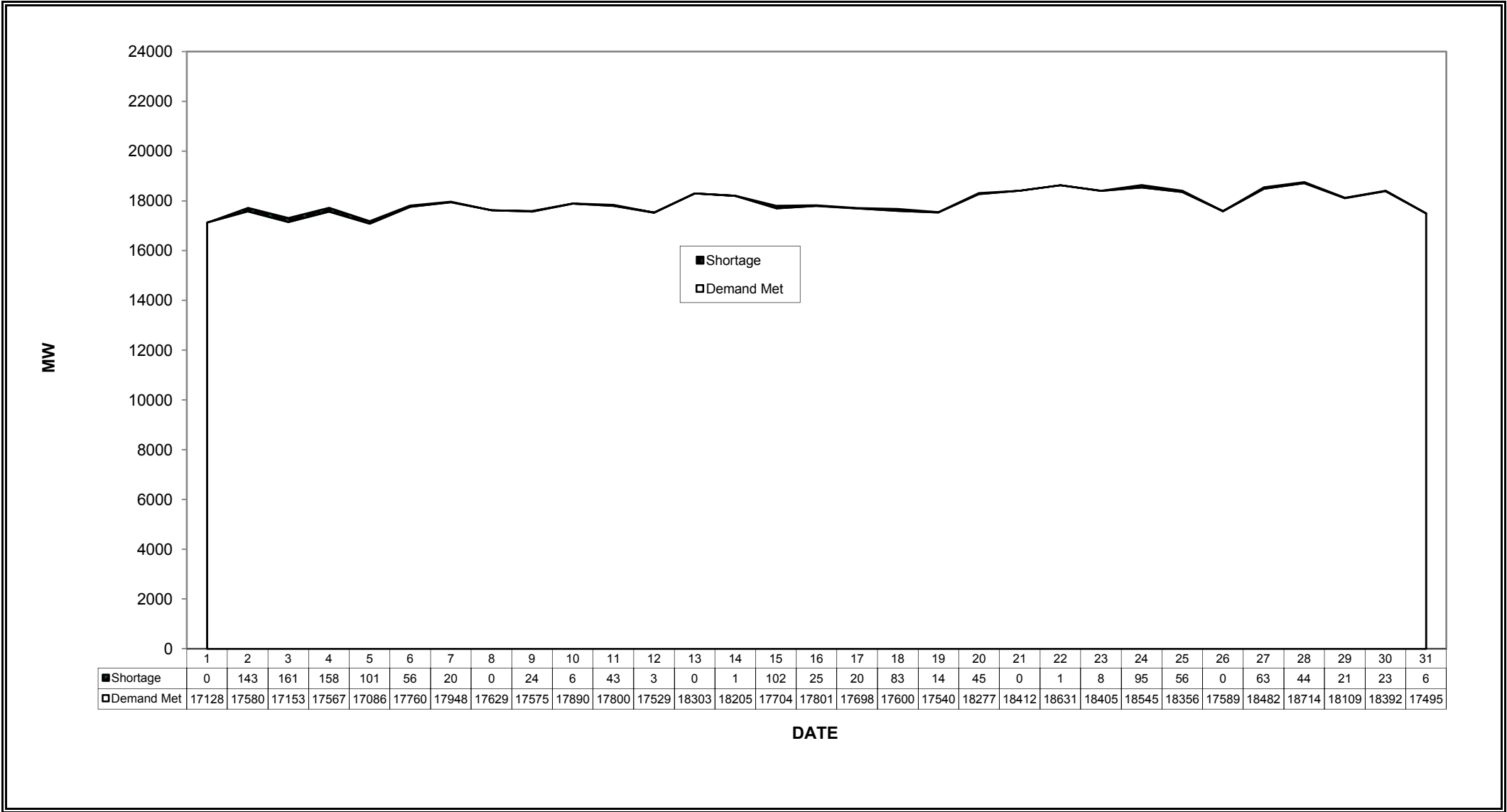


Capacity / Actual Generation Pattern of ER on Peak Day (28-1-2020) at 19.00 hrs.

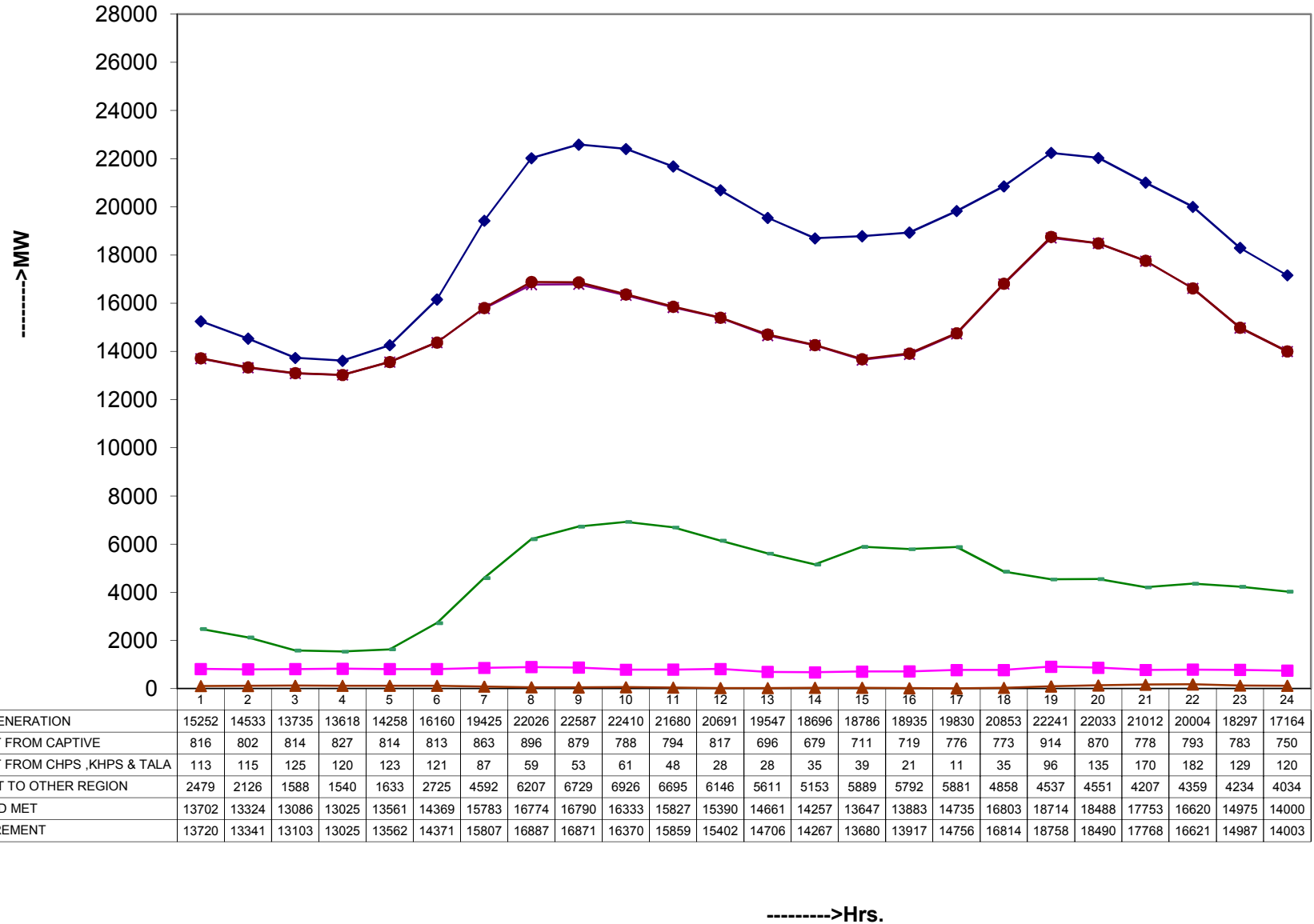


(*)--Includes contribution from HEP of Bhutan (Chukka, Kurichhu & Tala)

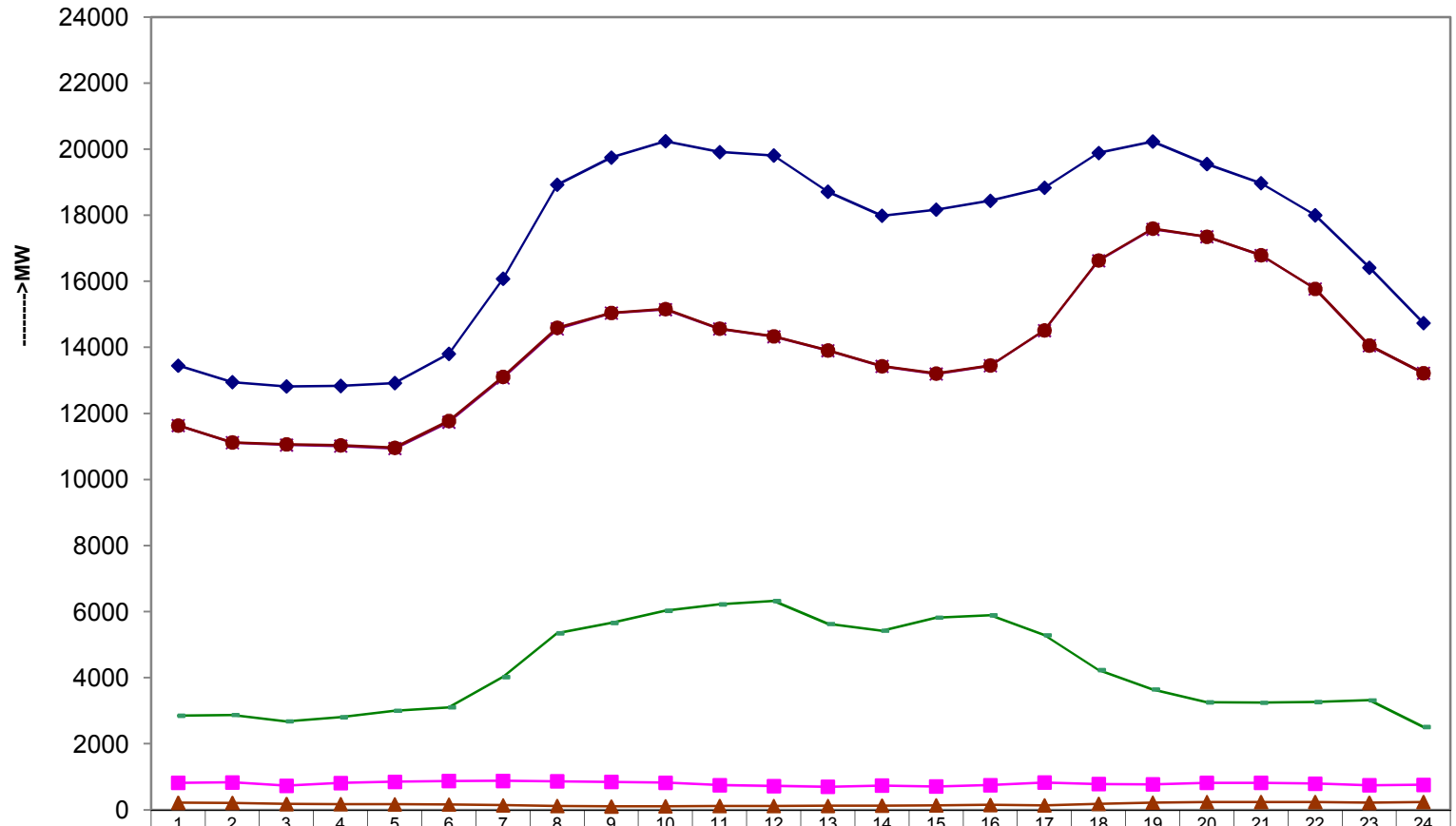
Peak Demand Met / Shortage of Eastern Region For The Month Of JAN'2020



Hourly Load Generation Data OF ER On Regional Peak Day During The Month of JAN'2020 (28-1-2020)



Hourly Load Generation Data of ER On Regional Lean Day During The Month of JAN'2020 (9-1-2020)

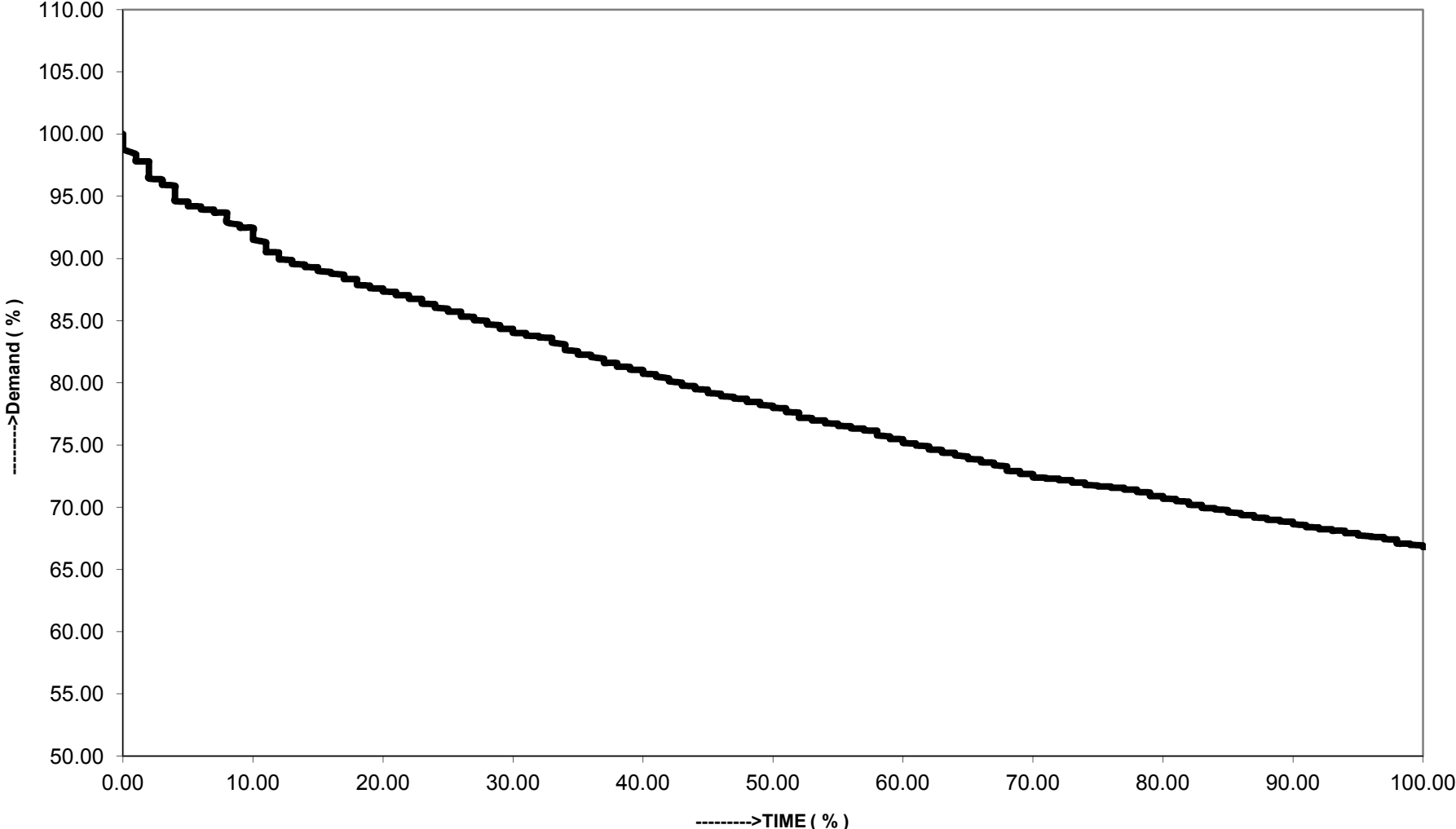


◆ OWN GENERATION	13450	12949	12818	12835	12922	13806	16078	18925	19750	20241	19914	19810	18711	17987	18170	18441	18834	19889	20231	19549	18971	18001	16413	14737
■ IMPORT FROM CAPTIVE	819	830	730	812	850	874	880	866	846	824	747	720	697	734	708	748	825	783	771	816	818	794	743	756
▲ IMPORT FROM CHPS, KHPS, TALA	216	210	179	174	169	161	141	117	103	108	119	116	120	129	137	150	138	181	220	237	239	239	216	237
— EXPORT TO OTHER REGION	2849	2873	2680	2807	3002	3104	4021	5348	5659	6029	6223	6321	5629	5424	5821	5892	5288	4230	3646	3254	3243	3263	3317	2510
* DEMAND MET	11635	11117	11047	11013	10939	11738	13077	14561	15040	15143	14558	14325	13899	13427	13195	13446	14510	16623	17575	17349	16785	15772	14055	13220
● REQUIREMENT	11635	11125	11066	11037	10961	11775	13111	14596	15045	15161	14570	14337	13909	13431	13211	13455	14517	16634	17599	17350	16793	15773	14058	13221

----->Hrs.

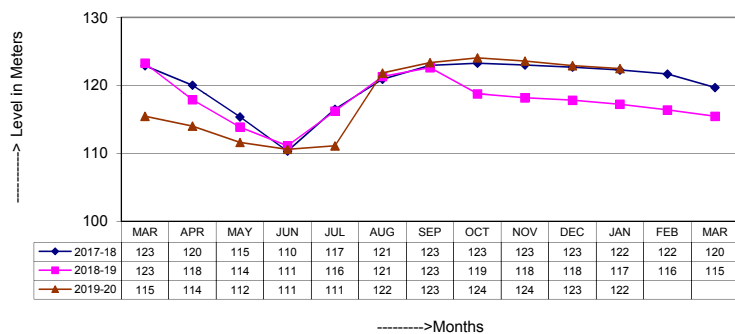
Monthly Load Duration Curve of Eastern Region for JAN-20

Maximum Demand met : 18714 MW
Minimum Demand met: 10939 MW

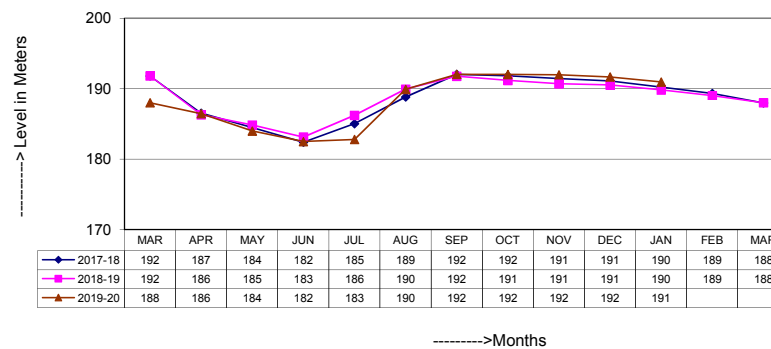


WATER LEVEL IN MAJOR RESERVOIRS ON LAST DATE OF MONTH

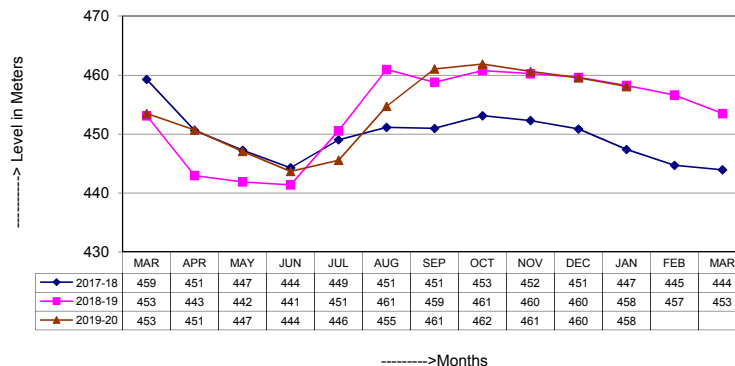
RENGALI RESERVOIR LEVEL



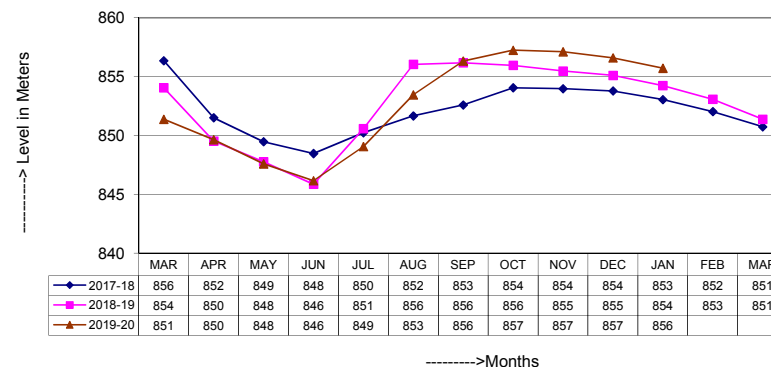
HIRAKUD RESERVOIR LEVEL



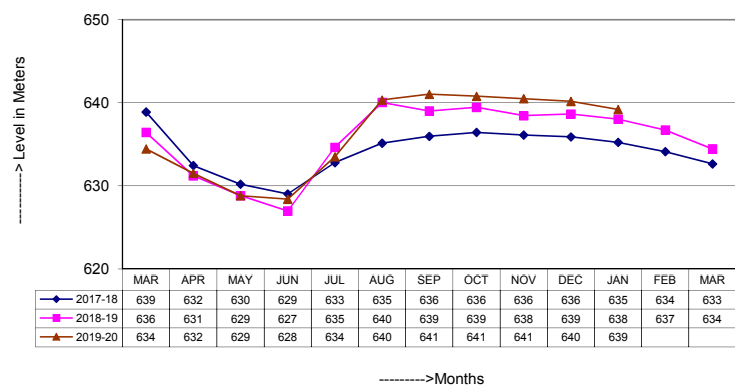
BALIMELA RESERVOIR LEVEL



UPPER KOLAB RESERVOIR LEVEL



INDRAVATI RESERVOIR LEVEL



SUBERNREKHA RESERVOIR LEVEL

