

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

मार्च - 2021

March-2021



14, गोल्फ क्लब रोड, टोलीगंज

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Highlights of Eastern Regional Power System for March - 2021

- The **Maximum Net Demand** met of Eastern Region (ER) during the month of **Mar, 2021** was **24016 MW** which is 28.65% more than the **Mar,2020** (18668 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 **Mar, 2021** was **452.63 MU** excluding export, which is 33.76% more than the corresponding period of last year (338.38 MU).
- **The Average regional PLF of thermal units during the month is 79.23 %**, which is 20.33% more than the corresponding period of the last year (**58.90%**).
 WBPDC (Bakreswar TPP) registered the highest **PLF** of 102.23%, followed by WBPDC (Santalidih TPS) 100.83% and DVC BTPS (A) 97.60% during the month of **Mar, 2021**.
- **Maximum Net generation** was **27540 MW** against total **Effective Capacity of 39691.26 MW** (including import from Bhutan). At the time of Regional peak (**24016 MW** on 23.03.2021 at 21.00 hrs.) the generation was **24744 MW** and import from CPP was 1180 MW, Net export was 1908 MW.
- The system frequency in the IEGC recommended band (49.9 Hz to 50.05 Hz) remained for 72.81% of time during the month. **Average frequency** for the month was **50.00 Hz**. The instantaneous maximum and the minimum frequency touched were 50.32 Hz and 49.66 Hz respectively. The integrated (Fifteen minutes time block average) maximum and minimum frequency were **50.17 Hz** and **49.78 Hz** respectively (**refer Annexure-I**).
- The **Maximum Voltage** recorded **424 KV** at Jeypore 400 KV S/s whereas the minimum voltage recorded 383 KV at Maithon 400 KV S/s of Power grid.
- **The Maximum Export from ER to outside region was 10330 MW (including Nepal and Bangladesh) on 14th Mar, 2021 at 10:00 hrs. Total net energy export during the month was 4546.55 MU (Inc.Transmission loss) MU which is corresponds to 25.63 % of ex-bus total generation 17735.76 MU of Eastern Region.**
- **The import from CPPs was 842.24 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	4827	1091	2004.45
WR	2450	3829	-314.65
SR	4384	0	2303.22
NER	587	1108	-277.57
BANGLADESH	878	0	577.41
NEPAL (via-CTU)	380	0	239.46
Kuru.HEP(Bhutan)	51	35	14.23
Total(Inc.Kuru.HEP Im)	10330	3829	4546.55
NEPAL by Bihar(NBPDCL)			163.56

SALIENT FEATURES

(YEAR TO YEAR COMPARISION)

		Mar-21	MARCH-2020	CHANGE	% CHANGE
1)	Effective Capacity (end of the Month)				
	THERMAL (MW)	30130	30130	0	0.00
	HYDRO (MW)	5877	\$ 5877	0	0
	DIESEL (MW)	0	0	0	0
	RES (MW)	1489	1489	0	0
	TOTAL (MW)	37495	37496	-1	0.00
2)	Peak Demand (MW)	24016	18766	5250	27.98
3)	Peak Demand Met (MW)	24016	18668	5348	28.65
4)	Shortage (MW)	0	98	-98	0.00
5)	% Shortage	0.00	0.52	-0.52	0.00
6)	Average Energy Requirement Per Day (MU)	455.10	338.49	116.61	34.45
7)	Average Energy Availability Per Day (MU)	452.63	338.38	114.25	33.76
8)	Average Shortage Per Day (MU)	2.48	0.10	2.38	2376.58
9)	% Shortage	0.54	0.03	0.51	1741.39
10)	Net Generation for the Month				
	Thermal (MU)	16598.16	12196.98	4401.18	36.08
	Hydro (MU)	1026.20	* 969.60	56.60	5.84
	RES (MU)	111.41	101.50	0.00	-
	Total (MU)	17735.76	13268.08	4467.68	33.67
11)	Generation at the Time of Max. Regional Demand Met (23-03-21 at 21.00 Hrs.)				
	Thermal (MW)	21168	19780	1388	7.02
	Hydro (MW)	3555	* 2492	1063	42.65
	RES (MW)	22	19	3	13.26
	Total (MW)	24744	22290	2454	11.01
12)	Inter-Regional Energy Transfer				
	Export (MU)	5138.77	4717.42	421.35	8.93
	Import (MU)	592.22	1056.15	-463.93	-43.93
	Net Exp.(+)/Net Imp.(-) (MU)	4546.55	3661.27	885.28	24.18
13)	Import From Captive(MU)	842.24	883.04	-40.80	-4.62
14)	Peak Inter Regional Power Transfer				
	Max Export (MW) on 14-03-21 at 10.00Hrs	10330	9549	781	8.18
	Max Import (MW) on 23-03-21 at 21.00Hrs	3829	3879	-50	-1.28
	Max Net Export(+)/Import (-) (MW)	9955	9378	577	6.16
15)	Maximum voltage recorded	424	JEYPORE	400 kv s/s	
16)	Minimum voltage recorded	383	MAITHON	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 MARCH'2021

A) Net Average Energy Per Day

System	Demand Met (MU/Day)	Requirement (MU/Day)	Shortage (MU/Day)	% Shortage
BSPHCL	95.10	95.79	0.69	0.72
JUVNL	28.36	30.11	1.75	5.82
DVC	66.42	66.43	0.02	0.03
ODISHA	95.58	95.61	0.03	0.03
WBSEDCL	135.00	135.15	0.15	0.11
CESC	30.29	30.30	0.01	0.03
SIKKIM	1.72	1.72	0.00	0.03
REGION	452.63	455.10	2.48	0.54

B) Peak Demand in MW:

System	Demand Met (MW)	Requirement (MW)	Shortage (MW)	% Shortage
BSPHCL	5452	5679	227	3.99
JUVNL	1527	1639	112	6.82
DVC	3129	3129	0	0.00
ODISHA	4984	4984	0	0.00
WBSEDCL	7291	7291	0	0.00
CESC	1853	1856	3	0.2
SIKKIM	120	120	0	0.00
REGION	24016	24016	0	0.00

➤ **DIVERSITY FACTOR** **1.01**

➤ **Regional Peak Demand Met on 23-3-2021 at 21.00 hrs. at 50.02 Hz.**

CONSTITUENT-WISE PERFORMANCE DATA MARCH-2021

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	322.40	30.73	353.13	0.00	33.84	0.00	33.84	0.00	288.55	30.73	319.28	0.00	2628.79	2948.07	95.1	5397	5430
JUVNL	0.00	203.72	0.00	203.72	0.00	19.67	0.00	19.67	0.00	184.05	0.00	184.05	50.50	644.47	879.02	28.4	1527	1554
DVC	17.05	3971.22	0.00	3988.27	0.11	255.27	0.00	255.39	16.94	3715.95	0.00	3732.89	7.88	-1681.90	2058.87	66.4	3129	3473
ODISHA(OPGC+OHPC+TTFS)	416.09	1075.75	64.43	1556.27	4.12	90.82	0.00	94.94	411.97	984.93	64.43	1461.33	596.33	905.34	2963.00	95.6	4984	5084
WBPDCL+WBSEDCL+DPL	95.10	3199.45	14.07	3308.62	0.00	266.57	0.00	266.57	95.10	2932.88	14.07	3042.05	187.53	955.36	4184.94	135.0	7291	7696
CESC	0.00	563.43	0.00	563.43	0.00	41.02	0.00	41.02	0.00	522.41	0.00	522.41	0.00	416.57	938.98	30.3	1853	1926
HEL	0.00	430.07	0.00	430.07	0.00	31.38	0.00	31.38	0.00	398.69	0.00	398.69	0.00	-398.69				
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	52.38	53.38	1.7	120	120
NTPC	0.00	5827.71	1.17	5828.88	0.00	412.56	0.00	412.56	0.00	5415.15	1.17	5416.32	0.00	-5416.32				
MPL	0.00	724.79	0.00	724.79	0.00	39.63	0.00	39.63	0.00	685.17	0.00	685.17	0.00	-685.17				
APNRL	0.00	374.75	0.00	374.75	0.00	31.37	0.00	31.37	0.00	343.38	0.00	343.38	0.00	-343.38				
GMR	0.00	505.19	0.00	505.19	0.00	30.65	0.00	30.65	0.00	474.55	0.00	474.55	0.00	-474.55				
JITPL	0.00	694.82	0.00	694.82	0.00	42.29	0.00	42.29	0.00	652.54	0.00	652.54	0.00	-652.54				
NHPC (Inc TLDP= 37.4MU)	158.32	0.00	0.00	158.32	0.00	0.00	0.00	0.00	158.32	0.00	0.00	158.32	0.00	-158.32				
CHUZACHEN HPS	12.43	0.00	0.00	12.43	0.00	0.00	0.00	0.00	12.43	0.00	0.00	12.43	0.00	-12.43				
DIKCHU HPS	13.77	0.00	0.00	13.77	0.00	0.00	0.00	0.00	13.77	0.00	0.00	13.77	0.00	-13.77				
JORHANG HPS	12.21	0.00	0.00	12.21	0.00	0.00	0.00	0.00	12.21	0.00	0.00	12.21	0.00	-12.21				
TASHIDING HPS	10.36	0.00	0.00	10.36	0.00	0.00	0.00	0.00	10.36	0.00	0.00	10.36	0.00	-10.36				
TEESTA-III HPS	162.05	0.00	0.00	162.05	0.00	0.00	0.00	0.00	162.05	0.00	0.00	162.05	0.00	-162.05				
CHPC(Birpara Receipt)	19.37	0.00	0.00	19.37	0.00	0.00	0.00	0.00	19.37	0.00	0.00	19.37	0.00	-19.37				
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	0.00				
THPS	12.52	0.00	0.00	12.52	0.00	0.00	0.00	0.00	12.52	0.00	0.00	12.52	0.00	-12.52				
DAGACHU HPS	12.58	0.00	0.00	12.58	0.00	0.00	0.00	0.00	12.58	0.00	0.00	12.58	0.00	-12.58				
Mangdechhu HEP	88.59	0.00	0.00	88.59	0.00	0.00	0.00	0.00	88.59	0.00	0.00	88.59	0.00	-88.59				
Total Drawal by HVDC Sahsaram,Alipurduar														5.27	5.27			
Total	1030.43	17893.29	111.41	19035.13	4.23	1295.06	0.00	1299.29	1026.20	16598.24	111.41	17735.84	842.24	-4546.55	14031.53	452.63	24016	25453

3A

17735.84

4538.70

14031.53

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

A) Net Average Energy

Month	2019-20					2020-21				
	Demand Met (MU/Day)	Requirement (MU/Day)	Shortage (MU/Day)	Shortage (%)	Avg. Freq. (HZ)	Demand Met (MU/Day)	Requirement (MU/Day)	Shortage (MU/Day)	Shortage (%)	Avg. Freq. (HZ)
APRIL	428.71	429.56	0.85	0.20	50.00	323.3	324.2	0.93	0.29	50.00
MAY	451.15	452.79	1.64	0.36	49.99	357.93	360.37	2.45	0.68	50.00
JUNE	461.72	462.87	1.15	0.25	49.99	425.23	425.91	0.69	0.16	50.00
JULY	450.73	451.52	0.79	0.17	50.00	447.56	448.25	0.70	0.16	49.99
AUGUST	460.87	462.13	1.26	0.27	49.99	447.7	449.62	1.93	0.43	49.99
SEPTEMBER	445.43	446.55	1.12	0.25	50.00	465.31	465.52	0.20	0.04	49.99
OCTOBER	391.21	391.95	0.12	0.03	50.00	448.87	448.96	0.09	0.02	50.00
NOVEMBER	344.02	344.15	0.12	0.04	50.00	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	385.74	386.81	1.07	0.28	49.99
FEBRUARY	358.72	359.75	1.03	0.29	49.99	395.83	397.69	1.86	0.47	49.99
MARCH	338.29	338.62	0.33	0.10	50.00	452.63	455.10	2.48	0.54	49.99

B) Peak in MW:

Month	2019-20					2020-21				
	Demand Met (MW)	Requirement (MW)	Shortage (MW)	Shortage (%)	Avg. Freq. (HZ)	Demand Met (MW)	Requirement (MW)	Shortage (MW)	Shortage (%)	Avg. Freq. (HZ)
APRIL	22378	22415	37	0.17	50.00	18093	18302	209	1.14	50.00
MAY	22781	22830	49	0.22	49.99	20166	20306	140	0.69	50.00
JUNE	22808	22867	59	0.26	49.99	21832	21989	156	0.71	50.00
JULY	23154	23246	92	0.40	50.00	22643	22735	92	0.40	49.99
AUGUST	23398	23421	22	0.10	49.99	22192	22399	207	0.92	49.99
SEPTEMBER	23126	23276	150	0.64	50.00	23563	23619	56	0.24	49.99
OCTOBER	21706	21726	20	0.09	50.00	23374	23374	0.00	0.00	50.00
NOVEMBER	19212	19291	79	0.41	50.00	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	20496	20703	207	1.00	49.99
FEBRUARY	18962	18968	7	0.03	49.99	20643	20854	211	1.01	49.99
MARCH	18670	18767	98	0.52	50.00	24016	24016	0	0.00	49.99

PERFORMANCE OF GENERATING STATIONS IN THE EASTERN REGION DURING THE MONTH OF MARCH -2021

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	30.89	27.49	60.90	39.79	
	Thermal	Barauni (U# 8)	250.00	250.00	152.66	137.39	1261.77	1115.22	
		Barauni (U# 9)	0.00	0.00	17.17	15.45	79.28	71.35	
		Muzaffarpur Stg-I	220.00	220.00	121.68	108.21	224.27	186.95	
		Thermal Total	690.00	680.00	322.40	288.55	1626.21	1413.32	
	RES		341.25	341.25	30.73	30.73	334.87	334.87	
	Total BIHAR		1031.25	1021.25	353.13	319.29	1961.08	1748.18	
JHARKHAND									
TVNL	Thermal	TVNL	420.00	420.00	203.72	184.05	2237.96	1972.91	
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	-0.92	18.59	9.45	
		Chandrapura(U7 # 8)	500.00	500.00	185.46	167.23	3268.57	2950.95	
		Durgapur(4)	210.00	210.00	0.00	-0.49	135.82	112.19	
		Mezia(1,2,3,4,5,6)	1340.00	1340.00	714.43	640.64	7009.59	6287.58	
		Mezia(U # 7,8)	1000.00	1000.00	665.50	631.41	5819.21	5506.70	
		Bokaro-A(1)	500.00	500.00	363.09	345.49	3271.48	3094.77	
		Durgapur STPS (U#1,2)	1000.00	1000.00	699.94	663.12	5780.97	5442.18	
		Raghunathpur TPS (U#1,2)	1200.00	1200.00	648.36	610.79	5225.68	4899.87	
	Koderma STPS (U#1,2)	1000.00	1000.00	694.44	658.69	7508.96	7116.93		
	Total Thermal		6960.00	6960.00	3971.22	3715.95	38038.86	35418.24	
	Hydro	Maithon (U#1,2,3)	63.20	63.20	14.38	14.35	194.03	193.63	
		Panchet (U#1,2)	80.00	80.00	2.40	2.33	173.09	172.16	
		Tilaya (U#1,2)	4.00	4.00	0.27	0.3	9.69	9.6	
		Hydro Total		147.20	147.20	17.05	16.94	376.81	375.36
Total DVC		7107.20	7107.20	3988.27	3732.89	38415.67	35793.60		
WEST BENGAL									
WBPDCCL	Thermal	Bandel TPS	380.00	335.00	155.75	141.20	1170.81	1051.81	
		Santalidih TPS(U#5&6)	500.00	500.00	375.07	345.50	3442.94	3153.44	
		Kolaghat TPS	1260.00	1260.00	427.01	381.99	1769.36	1534.91	
		Bakreswar TPP	1050.00	1050.00	798.60	733.56	7896.54	7208.03	
		Sagardighi TPP	1600.00	1600.00	1110.86	1030.00	9596.13	8897.13	
		DPPS (300+250 *)	550.00	550.00	332.17	300.64	2789.51	2510.04	
		Thermal Total		5340.00	5295.00	3199.45	2932.88	26665.29	24355.35
WBSEDCL	Hydro	Jaldhaka (3x9+2x4)	35.00	35.00	8.76	8.76	201.48	201.48	
		Ramam (4x12.73)	51.00	51.00	6.88	6.88	254.70	254.70	
		Teesta C.F. (3x3x7.5)	67.50	67.50	0.00	0.00	31.08	31.08	
		Purulia PSS (4x225)	900.00	900.00	79.47	79.47	1306.44	1306.44	
		Total Hydro		1053.50	1053.50	95.10	95.10	1793.71	1793.71
		RES		527.29	527.29	14.07	14.07	155.70	155.70

- 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 MARCH -2021

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
CESC	Thermal	Titagarh (4x60)	240.00	240.00	0.00	0.00	0.00	0.00
		Southern (2x67.5)	135.00	135.00	30.98	28.36	89.89	81.68
		Budge-Budge (3x250)	750.00	750.00	532.45	494.05	5422.68	5002.98
		Total CESC	1125.00	1125.00	563.43	522.41	5512.57	5084.66
HEL	Thermal	HEL	600.00	600.00	430.07	398.69	4224.93	3904.19
		Total West Bengal	8645.79	8600.79	4302.12	3963.15	38352.19	35293.61
ODISHA (NTPC)	Thermal	Talcher-I	250.00	240.00	129.69	113.33	1824.51	1615.08
		Talcher-II	220.00	220.00	53.25	46.53	1580.98	1400.06
		Total Thermal	470.00	460.00	182.94	159.86	3405.48	3015.14
OPGC	Thermal	IB TPS	420.00	420.00	237.46	210.16	2609.84	2304.10
		IB TPS U#3(660 MW)	660.00	660.00	284.12	266.56	2401.88	2244.83
		IB TPS U#4(660 MW)	660.00	660.00	371.23	348.28	3620.49	3370.46
OHPC	Hydro	Hirakud-I (Burla)	275.50	275.50	28.89	28.72	628.17	625.54
		Hirakud-II (Chiplima)	72.00	72.00	19.27	19.18	324.74	321.83
		Balimela (6x60+2x75)	510.00	510.00	97.77	96.88	1656.09	1649.48
		Rengali (5x50)	250.00	250.00	26.40	26.30	1013.72	1009.88
		Upper Kolab (4x80)	320.00	320.00	60.85	60.49	812.82	809.87
		Indravati HPS (4x150)	600.00	600.00	157.11	154.61	1757.40	1720.22
		Mckd.(Odisha drawal)	57.38	57.38	25.80	25.80	303.26	303.26
		Total Hydro	2084.88	2084.88	416.09	411.97	6496.20	6440.07
		RES	511.21	511.21	64.43	64.43	601.42	601.42
		Total Odisha	4806.09	4796.09	1556.27	1461.26	19135.31	17976.03
(**) SIKKIM	Hydro	RES	52.18	52.18	1.00	1.00	16.00	16.00
NTPC		MTPS Stg-II	390.00	390.00	275.11413	249.59	2244.68	2009.22
		FSTPP# I&II (3x200+2x500)	1600.00	1600.00	985.76	913.97	8754.84	8053.21
		FSTPP (U# 6)	500.00	500.00	345.72	322.53	3173.74	2930.19
		KhSTPP (4x210+3x500)	2340.00	2340.00	1472.64	1374.88	13231.21	12207.73
		TSTPP (2x500)	1000.00	1000.00	347.99	319.39	7369.73	6800.29
		BARH STPS II (2X660)	1320.00	1320.00	914.81	868.09	7803.81	7332.56
		BARH STPS I (1X660)			19.38	8.43	29.32	12.33
		BRBCL # 1,2,3(3X250 MW)	750	750	515.06	477.59	4264.44	3912.09
		NSTPS U#I	660.00	660.00	343.25	323.10	4639.74	4397.69
		NSTPS U#II			95.11	76.20	95.11	76.20
		DSTPP	800.00	800.00	512.88	481.37	4775.88	4457.78
		Total NTPC	9360.00	9360.00	5827.72	5415.15	56382.49	52189.28
		NHPC	HYDRO	Rangit (3x20)	60.00	60.00	15.44	15.44
Teesta (3x170)	510.00			510.00	105.48	105.48	2807.81	2807.81
TLDP -(4x33+4x40)	292.00			292.00	37.40	37.40	1241.00	1241.00
Total NHPC	862.00			862.00	158.32	158.32	4332.01	4332.01
MPL (U#1&2)	1050.00			1050.00	724.79	685.16	6383.23	5991.27
APNRL (U#1,2)	540.00			540.00	374.75	343.38	3034.34	2806.25
GMR (2x350)	700.00			700.00	505.19	474.55	4819.75	4507.02
JITPL (2X600)	1200.00			1200.00	694.82	652.54	5936.33	5570.11
CHUZACHEN** (2x55)	110.00			110.00	12.43	12.43	482.67	482.67
JORETHANG (2x48)	96.00			96.00	12.21	12.21	397.61	397.61
TEESTA URJA St III (6x200)	1200.00			1200.00	162.04	162.04	5997.87	5997.87
Tashilding (2x48.5)	97.00			97.00	10.36	10.36	368.50	368.50
DICKCHU (2x48)	96.00			96.00	13.77	13.77	464.84	464.84
TALCHER SOLAR	10.00			10.00	1.17	1.17	13.44	13.44
Total Thermal (E.R)	30195.00	30130.00	17893.30	16598.16	166899.65	154147.14		
Total Hydro (E.R)	5876.58	5876.58	897.37	893.14	20760.25	20702.68		
Total RES	1488.68	1488.68	111.41	111.41	1121.42	1121.42		
EASTERN REGIONAL		TOTAL (E.R)	37560.26	37495.26	18902.08	17602.70	188781.33	175971.24
BHUTAN	Hydro	CHPC(4x90)	360.00	270.00	19.37	19.37	1979.25	1979.25
		Kurichu (4x15)	60.00	60.00	0.00	0.00	402.88	402.88
		TALA (6x170)	1020.00	1020.00	12.52	12.52	3182.69	3182.69
		DAGACHU (2x63)	126.00	126.00	12.58	12.58	502.10	502.10
		MANGDECHU(4x180)	720.00	720.00	88.59	88.59	3184.79	3184.79
		Grand Total	39846.26	39691.26	19035.14	17735.76	198033.04	185222.96

PLANT LOAD FACTOR (PLF) OF THERMAL POWER STATIONS IN EASTERN REGION DURING THE MONTH OF MARCH' 2021

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 (2020-21) in MU	Cummulative PLF upto Current Month (%)	
BIHAR	NTPC	Barauni (U# 6,7)	220.00	210.00	30.89	19.77	60.90	3.31	
		Thermal	Barauni (U# 8)	250.00	250.00	152.66	82.08	1261.77	57.62
		Barauni (U# 9)	0.00	0.00	17.17	0.00	79.28	0.00	
		Muzaffarpur Stg-I	220.00	220.00	121.68	74.34	224.27	11.64	
		Thermal Total	690.00	680.00	322.40	60.33	1626.21	25.97	
	RES		341.25	341.25	30.73		334.87		
	Total BIHAR		1031.25	1021.25	353.13		1961.08		
JHARKHAND									
TVNL	Thermal	TVNL	420.00	420.00	203.72	65.19	2237.96	60.83	
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	1.01	
		Chandrapura(U7 # 8)	500.00	500.00	185.46	49.85	3268.57	74.62	
		Durgapur(4)	210.00	210.00	0.00	0.00	135.82	7.38	
		Mezia(1,2,3,4,5,6)	1340.00	1340.00	714.43	71.66	7009.59	59.72	
		Mezia(U # 7,8)	1000.00	1000.00	665.50	89.45	5819.21	66.43	
		Bokaro-A(1)	500.00	500.00	363.09	97.60	3271.48	74.69	
		Durgapur STPS (U#1,2)	1000.00	1000.00	699.94	94.08	5780.97	65.99	
		Raghunathpur TPS (U#1,2)	1200.00	1200.00	648.36	72.62	5225.68	49.71	
		Koderma STPS (U#1,2)	1000.00	1000.00	694.44	93.34	7508.96	85.72	
	Total Thermal		6960.00	6960.00	3971.22	76.69	38038.86	62.39	
	Hydro	Maithon (U#1,2,3)	63.20	63.20	14.38		194.03		
		Panchet (U#1,2)	80.00	80.00	2.40		173.09		
		Tilaya (U#1,2)	4.00	4.00	0.27		9.69		
		Hydro Total	147.20	147.20	17.05		376.81		
Total DVC			7107.20	7107.20	3988.27		38415.67		
WEST BENGAL									
WBPDC	Thermal	Bandel TPS	380.00	335.00	155.75	62.49	1170.81	39.90	
		Santalidih TPS(U#5&6)	500.00	500.00	375.07	100.83	3442.94	78.61	
		Kolaghat TPS	1260.00	1260.00	427.01	45.55	1769.36	16.03	
		Bakreswar TPP	1050.00	1050.00	798.60	102.23	7896.54	85.85	
		Sagardighi TPP	1600.00	1600.00	1110.86	93.32	9596.13	68.47	
		DPPS (300+250 *)	550.00	550.00	332.17	81.17	2789.51	57.90	
		Thermal Total	5340.00	5295.00	3199.45	81.21	26665.29	57.49	
WBSEDCL	Hydro	Jaldhaka (3x9+2x4)	35.00	35.00	8.76		201.48		
		Ramam (4x12.73)	51.00	51.00	6.88		254.70		
		Teesta C.F. (3x3x7.5)	67.50	67.50	0.00		31.08		
		Purulia PSS (4x225)	900.00	900.00	79.47		1306.44		
		Total Hydro	1053.50	1053.50	95.10		1793.71		
		RES		527.29	527.29	14.07		155.70	
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 MARCH' 2021

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)
CESC	Thermal	Titagarh (4x60)	240.00	240.00	0.00	0.00	0.00	0.00		
		Southern (2x67.5)	135.00	135.00	30.98	30.85	89.89	7.60		
		Budge-Budge (3x250)	750.00	750.00	532.45	95.42	5422.68	82.54		
		Total CESC	1125.00	1125.00	563.43	67.32	5512.57	55.94		
HEL	Thermal	Total West Bengal	600.00	600.00	430.07	96.34	4224.93	80.38		
		Total West Bengal	8645.79	8600.79	4302.12		38352.19			
ODISHA (NTPC)	Thermal	Talcher-I	250.00	240.00	129.69	72.63	1824.51	86.78		
		Talcher-II	220.00	220.00	53.25	32.53	1580.98	82.04		
		Total Thermal	470.00	460.00	182.94	53.45	3405.48	84.51		
OPGC	Thermal	IB TPS	420.00	420.00	237.46	75.99	2609.84	70.93		
		IB TPS U#3(660 MW)	660.00	660.00	284.12	57.86	2401.88	41.54		
		IB TPS U#4(660 MW)	660.00	660.00	371.23	75.60	3620.49	62.62		
OHPC	Hydro	Hirakud-I (Burla)	275.50	275.50	28.89		628.17			
		Hirakud-II (Chiplima)	72.00	72.00	19.27		324.74			
		Balimela (6x60+2x75)	510.00	510.00	97.77		1656.09			
		Rengali (5x50)	250.00	250.00	26.40		1013.72			
		Upper Kolab (4x80)	320.00	320.00	60.85		812.82			
		Indravati HPS (4x150)	600.00	600.00	157.11		1757.40			
		Mckd.(Odisha drawal)	57.38	57.38	25.80		303.26			
		Total Hydro	2084.88	2084.88	416.09		6496.20			
		RES	511.21	511.21	64.43		601.42			
		Total Odisha	4806.09	4796.09	1556.27		19135.31			
(**) SIKKIM	Hydro	RES	52.18	52.18	1.00		16.00			
NTPC		MTPS Stg-II	390	390	275.11413	94.81	2244.68	65.70		
		FSTPP# I&II (3x200+2x500)	1600.00	1600.00	985.76	82.81	8754.84	62.46		
		FSTPP (U# 6)	500.00	500.00	345.72	92.94	3173.74	72.46		
		KhSTPP (4x210+3x500)	2340.00	2340.00	1472.64	84.59	13231.21	64.55		
		TSTPP (2x500)	1000.00	1000.00	347.99	46.77	7369.73	84.13		
		BARH STPS II (2X660)	1320.00	1320.00	914.81	93.15	7803.81	67.49		
		BARH STPS I (1X660)			19.38		29.32			
		BRBCL # 1,2,3(3X250 MW)	750.00	750.00	515.06	92.31	4264.44	64.91		
		NSTPS U#I	660.00	660.00	343.25	69.90	4639.74	80.25		
		NSTPS U#II			95.11		95.11			
		DSTPP	800.00	800.00	512.88	86.17	4775.88	68.15		
		Total NTPC	9360.00	9360.00	5827.72	82.04	56382.49	68.61		
		NHPC	HYDRO	Rangit (3x20)	60.00	60.00	15.44		283.20	
				Teesta (3x170)	510.00	510.00	105.48		2807.81	
TLDP -(4x33+4x40)	292.00			292.00	37.40		1241.00			
Total NHPC	862.00			862.00	158.32		4332.01			
Thermal	MPL (U#1&2)		1050.00	1050.00	724.79	92.78	6383.23	69.40		
	APNRL (U#1,2)		540.00	540.00	374.75	93.28	3034.34	64.15		
	GMR (2x350)		700.00	700.00	505.19	97.00	4819.75	78.60		
	JITPL (2X600)		1200.00	1200.00	694.82	77.82	5936.33	56.47		
	CHUZACHEN** (2x55)		110.00	110.00	12.43		482.67			
	JORETHANG (2x48)		96.00	96.00	12.21		397.61			
	TEESTA URJA St III (6x200)		1200.00	1200.00	162.04		5997.87			
	Tashilding (2x48.5)		97.00	97.00	10.36		368.50			
	DICKCHU (2x48)		96.00	96.00	13.77		464.84			
	TALCHER SOLAR		10.00	10.00	1.17		13.44			
Total Thermal (E.R)	30195.00	30130.00	17893.30	79.23	166899.65	63.16				
EASTERN REGIONAL		Total Hydro (E.R)	5876.58	5876.58	897.37		20760.25			
		Total RES	1488.68	1488.68	111.41		1121.42			
		TOTAL (E.R)	37560.26	37495.26	18902.08		188781.33			
BHUTAN	Hydro	CHPC(4x90)	360.00	270.00	19.37		1979.25			
		Kurichu (4x15)	60.00	60.00	0.00		402.88			
	Hydro	TALA (6x170)	1020.00	1020.00	12.52		3182.69			
		DAGACHU (2x63)	126.00	126.00	12.58		502.10			
	Hydro	MANGDECHU(4x180)	720.00	720.00	88.59		3184.79			
		Grand Total	39846.26	39691.26	19035.14		198033.04			

CONTRIBUTIONS OF DIFFERENT CONSTITUENTS AT THE TIME OF REGIONAL PEAK
DURING THE MONTH OF MARCH'2021 (23-3-2021)

Date **23-Mar-21**
Time **21.00** Hrs.
Frequency **50.02** Hz.

(All Fig. in MW)

System/State	Installed	Effective	Hydro	Thermal	RES	Net Gen
	Capacity	Capacity				Total
BSPHCL	1031	1021	0	343	0	343
JUVNL	597	597	0	249	0	249
DVC	7107	7107	22	4955	0	4977
ODISHA	4806	4796	846	1011	22	1879
WBSEDCL	6371	6326	739	4076	0	4815
TLDP	292	292	183	0	0	183
HEL HALDIA	600	600	0	540	0	540
CESC	1125	1125	0	829	0	829
DPL	550	550	0	0	0	0
SIKKIM	52	52	0	0	0	0
NTPC	9360	9360	0	6729	0	6729
NHPC	570	570	567	0	0	567
CHUKHA	360	270	21	0	0	21
KURICHU	60	60	-18	0	0	-18
TALA	1020	1020	14	0	0	14
MPL	1050	1050	0	989	0	989
OPGC (660 MW)	0	0	0	0	0	0
APNRL	540	540	0	233	0	233
Kamalganga (GMR)	700	700	0	652	0	652
JITPL	1200	1200	0	562	0	562
Chuzachen	110	110	3	0	0	3
Jorethang	96	96	2	0	0	2
TEESTA URJA St III	1200	1200	903	0	0	903
Tashilding	97	97	18	0	0	18
DICKCHU	96	96	98	0	0	98
<u>Daghachu</u>	126	126	15	0	0	15
<u>Solar</u>	10	10	0	0	0	0
<u>Mangdechu</u>	720	720	142	0	0	142
<u>Total</u>	39846	39691	3555	21168	22	24744
Import From Captive:						1180
Export To:						
NER						218
SR						2673
WR						-3829
NR						1805
Bangladesh						728
Nepal						313
Total						1908
➤ Net Peak Demand Met (MW) :						24016

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

Hourly Load Generation Data OF ER On Regional Peak Day During The Month of MARCH'2021 (23-3-2021)

(All Figures in MW)

Hrs.	Generation			Import from Captive	Net		Demand Met	Freq. Correction	Load Shed	Requirement
	Hydro	Thermal	Total		Import From Hydro of Bhutan	Net Export to other region				
1	869	22007	22876	1202	59	3183	20955	9	445	21409
2	772	21907	22679	1197	165	3260	20782	-2	123	20903
3	773	21816	22589	1183	201	3499	20475	-21	123	20576
4	928	21710	22638	1212	205	3419	20637	-20	123	20740
5	902	21771	22673	1173	190	3542	20494	-11	123	20606
6	1018	21536	22554	1195	160	3510	20399	-37	123	20485
7	1484	21566	23050	1201	125	4230	20146	-9	217	20354
8	1900	21371	23271	1151	140	4517	20045	-25	219	20240
9	2176	21418	23593	1083	129	4934	19871	-5	223	20089
10	1999	21685	23684	979	126	4879	19910	-19	200	20091
11	1360	21784	23143	971	122	4358	19878	-23	201	20057
12	1284	21998	23282	925	124	4562	19769	-19	413	20163
13	1101	21991	23092	930	124	4196	19949	-10	178	20117
14	883	21747	22631	933	124	3884	19804	-26	394	20172
15	769	21919	22688	997	129	3620	20194	-12	226	20408
16	1084	21901	22985	1060	143	3796	20391	-21	891	21260
17	713	21455	22167	1113	147	3491	19937	21	227	20185
18	893	21127	22020	1202	113	2939	20396	11	44	20451
19	2555	21126	23681	1126	131	1794	23145	-22	2	23147
20	3357	21194	24550	1208	148	2400	23506	-23	2	23507
21	3402	21168	24571	1180	174	1908	24016	-19	0	24016
22	2599	21067	23666	1262	188	1764	23353	-8	0	23353
23	1580	21123	22704	1189	228	1668	22453	-4	55	22504
24	793	21158	21950	1222	249	1678	21744	21	148	21913

Hourly Load Generation Data of ER On Regional Lean Day During The Month of MARCH'2021 (13-3-2021)

(All Figures in MW)

Hrs.	Generation			Import from Captive	Net		Demand Met	Freq. Correction	Load Shed	Requirement
	Hydro	Thermal	Total		Import From Hydro of Bhutan	Net Export to other region				
1	487	21586	22073	871	244	5001	18187	22	26	18236
2	414	20867	21281	902	252	4628	17806	41	27	17874
3	321	20595	20916	922	246	4384	17700	22	26	17748
4	370	20885	21255	892	233	4785	17595	38	26	17660
5	301	21244	21545	908	186	5238	17401	-17	26	17410
6	416	21848	22263	915	166	6265	17080	-25	1	17081
7	817	21944	22761	842	119	7225	16497	-3	2	16499
8	1754	21880	23634	840	95	7975	16593	1	6	16601
9	1759	22133	23892	738	42	8134	16538	-25	12	16550
10	2015	22165	24180	704	83	8611	16356	-21	20	16377
11	1021	22034	23055	645	85	7929	15856	-19	45	15882
12	767	21249	22016	666	82	7590	15176	23	54	15252
13	746	20392	21138	544	85	7150	14618	4	100	14722
14	745	19774	20519	557	100	7488	13688	18	126	13832
15	1591	19490	21080	590	89	7894	13865	76	125	14066
16	880	20284	21164	738	65	8103	13865	52	94	14011
17	981	22370	23351	844	91	8808	15478	9	51	15539
18	1325	22369	23694	906	34	8226	16409	-6	24	16426
19	3237	22626	25864	942	72	7179	19698	19	84	19800
20	3036	22914	25951	956	122	7289	19738	-3	83	19818
21	2450	22763	25213	941	166	7215	19106	-15	80	19170
22	1652	22737	24389	961	226	7075	18502	-13	0	18502
23	1553	22408	23961	927	275	7659	17504	5	1	17510
24	1306	22251	23557	935	289	7999	16781	-10	0	16781

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

FOR THE MONTH OF MARCH'2021

POWER CUT / RESTRICTIONS

BSPHCL	NO NOTIFIED CUTS/RESTRICTIONS However there was loadshedding of 20.59 MU
JUVNL	NO NOTIFIED CUTS/RESTRICTIONS However there was loadshedding of 54.07 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 3.45 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 Mar-21

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	HRS.	MIN	HRS.	MAX	HRS.	MIN	HRS.
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	HZ		HZ		HZ		HZ	
01-Mar	50.01	50.03	49.99	50.01	49.94	50.00	3.90	74.90	21.20	74.90	50.20	13:02:20	49.75	15:51:50	50.10	0:00	49.81	0:00
02-Mar	49.99	50.04	50.00	50.01	50.00	50.01	2.60	71.30	26.10	71.30	50.19	18:02:40	49.83	12:12:10	50.10	0:00	49.90	0:00
03-Mar	50.00	50.02	49.99	50.00	50.01	50.00	2.85	71.25	25.90	71.25	50.19	19:43:00	49.82	19:21:30	50.10	0:00	49.90	0:00
04-Mar	49.99	50.02	49.97	49.99	49.95	49.99	6.50	76.40	17.10	76.40	50.20	18:02:40	49.80	22:11:20	50.09	0:00	49.87	0:00
05-Mar	49.93	50.01	49.98	49.98	49.97	49.97	8.90	79.40	11.80	79.40	50.15	18:02:19	49.83	02:18:10	50.06	0:00	49.86	0:00
06-Mar	49.97	50.02	49.97	49.96	49.96	49.98	10.40	73.20	16.40	73.20	50.16	18:02:30	49.78	22:08:20	50.10	0:00	49.86	0:00
07-Mar	50.02	50.02	50.01	50.02	49.99	50.01	1.10	72.90	26.00	72.90	50.23	18:02:00	49.85	23:11:10	50.12	0:00	49.94	0:00
08-Mar	49.99	49.97	49.94	49.98	49.99	49.97	10.20	79.10	10.70	79.10	50.14	18:03:10	49.74	05:44:20	50.07	0:00	49.82	0:00
09-Mar	49.98	49.96	49.98	49.98	49.98	49.98	11.50	74.90	13.60	74.90	50.14	13:01:19	49.76	0:19	50.08	0:00	49.78	0:00
10-Mar	50.00	49.99	49.95	49.97	49.99	49.97	12.80	75.30	11.90	75.30	50.17	18:01:39	49.77	19:04:29	50.08	0:00	49.85	0:00
11-Mar	50.02	50.00	50.02	50.02	49.94	50.01	2.60	71.80	25.60	71.80	50.17	12:01:19	49.82	22:45:59	50.12	0:00	49.90	0:00
12-Mar	50.00	50.02	50.00	50.02	50.01	50.01	2.20	72.30	25.50	72.30	50.22	18:01:50	49.85	00:10:30	50.11	0:00	49.88	0:00
13-Mar	49.97	50.03	49.95	50.01	50.01	49.99	9.00	70.90	20.10	70.90	50.18	18:02:19	49.70	15:25:19	50.09	0:00	49.78	0:00
14-Mar	49.96	50.03	49.99	49.98	49.98	49.99	6.10	76.80	17.10	76.80	50.26	18:01:19	49.77	21:07:39	50.09	0:00	49.87	0:00
15-Mar	50.01	50.02	49.97	50.00	49.94	49.99	7.40	71.30	21.30	71.30	50.20	06:01:40	49.78	18:53:00	50.09	0:00	49.78	0:00
16-Mar	50.02	49.96	49.98	49.96	49.93	49.97	10.60	76.59	12.85	76.59	50.13	13:01:00	49.66	22:09:00	50.06	0:00	49.84	0:00
17-Mar	49.96	49.94	49.94	49.91	49.92	49.94	27.31	65.21	7.48	65.21	50.14	18:03:10	49.70	22:09	50.07	0:00	49.78	0:00
18-Mar	50.01	49.95	49.97	50.00	50.01	49.98	9.40	79.70	10.90	79.70	50.25	18:02:10	49.76	21:08:00	50.06	0:00	49.82	0:00
19-Mar	50.03	49.99	49.97	49.99	50.00	49.99	7.40	69.10	23.40	69.10	50.20	06:01:20	49.77	10:10:20	50.07	0:00	49.85	0:00
20-Mar	50.03	50.04	49.98	49.97	50.01	50.00	5.10	66.00	28.90	66.00	50.22	13:01:10	49.77	18:43:50	50.13	0:00	49.85	0:00
21-Mar	50.02	50.00	49.99	49.99	49.94	49.99	6.70	71.80	21.50	71.80	50.32	18:02:50	49.75	21:09:30	50.11	0:00	49.86	0:00
22-Mar	49.99	50.01	49.95	49.97	49.91	49.97	14.20	72.60	13.20	72.60	50.18	07:00:30	49.84	12:14:10	50.10	0:00	49.84	0:00
23-Mar	50.01	50.03	50.02	50.01	49.99	50.02	1.30	71.10	27.70	71.10	50.22	13:01:50	49.84	16:50:10	50.10	0:00	49.89	0:00
24-Mar	49.99	50.03	49.98	50.00	49.91	49.99	6.20	74.00	19.80	74.00	50.21	18:00:30	49.76	23:08:40	50.09	0:00	49.84	0:00
25-Mar	50.01	50.00	50.00	50.00	49.99	50.00	3.00	72.20	24.80	72.20	50.17	18:32:10	49.73	15:55:10	50.09	0:00	49.82	0:00
26-Mar	49.97	49.97	49.99	49.97	49.97	49.98	16.40	72.40	11.20	72.40	50.18	13:01:20	49.74	04:12:30	50.08	0:00	49.83	0:00
27-Mar	50.02	50.01	50.00	50.01	50.02	50.01	2.60	72.60	24.80	72.60	50.26	18:03:20	49.79	14:54:20	50.10	0:00	49.84	0:00
28-Mar	50.02	50.01	50.01	50.03	50.00	50.02	0.80	76.20	23.00	76.20	50.29	18:02:40	49.87	10:18:40	50.12	0:00	49.93	0:00
29-Mar	49.98	50.04	49.97	50.01	50.00	50.00	5.30	73.00	21.70	73.00	50.28	06:02:10	49.82	20:24:30	50.13	0:00	49.88	0:00
30-Mar	50.01	50.05	50.00	50.00	49.99	50.01	5.00	64.50	30.50	64.50	50.27	18:02:10	49.78	14:44:50	50.13	0:00	49.81	0:00
31-Mar	49.99	50.02	50.02	50.05	50.05	50.02	1.65	68.25	30.10	68.25	50.22	13:23:20	49.82	21:12:50	50.17	0:00	49.90	0:00
MAX	50.03	50.05	50.02	50.05	50.05	50.02	27.31	79.70	30.50	79.70	50.32		49.87		50.17		49.94	
MIN	49.93	49.94	49.94	49.91	49.91	49.94	0.80	64.50	7.48	64.50	50.13		49.66		50.06		49.78	
AVG	50.00	50.01	49.98	49.99	49.98	49.99	7.13	72.81	20.07	72.81	50.20		49.78		50.10		49.85	

SUMMARY:

Avg. Frequency :

50.0 Hz.

Instantaneous Frequency :

Maximum Frequency : 50.32 Hz at 18:02 Hrs.

Minimum Frequency : 49.66 Hz at 22:09 Hrs.

15 Minutes Integrated Frequency :

Maximum Frequency : 50.17 Hz On 00/01/00 at 00:00 Hrs.

Minimum Frequency : 49.78 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	7.13	72.81	20.07

VOLTAGE ANALYSIS

MAXIMUM & MINIMUM VOLTAGES RECORDED AT IMPORTANT 400 kV S/S IN THE MONTH OF MARCH'2021

(All figs. in kV)

PGCIL	BINAGURI		MAITHON		JEERAT		BIHARSHARIFF	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	421	399	418	383	418	392	417	399

PGCIL	MUZAFFARPUR		JAMSHEDPUR		ROURKELA		JEYPORE	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	414	390	409	391	414	402	424	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
Mar-21**

(All figs.in mtrs.)

Name of the Reservoirs	FRL	MDDL	As on last day of the		As on first day of this month & date	
			(31-03-21)	(31-03-20)		
Hirakud	192	180	186.96	190.02	188.52	01.03.21
Balimela	462	439	449.21	453.73	452.38	01.03.21
Rengali	123	109	115.60	120.48	116.89	01.03.21
Upperkolab	858	844	847.94	853.18	849.65	01.03.21
Indravati	642	625	634.00	636.11	635.78	01.03.21
Subernrekha	590	580	584.70	585.12	585.00	01.03.21

B.

CPP/IPP IMPORT by Eastern Region Constituents during Mar-21

(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	50.50
West Bengal	69.92	20.63	0	0	0	0	0	96.98	187.53
ODISHA	0	0	18.84	144.50	5.20	19.18	0	408.61	596.33
DVC	0	0	0	0	0	0	7.88	0	7.88
TOTAL	69.92	20.63	18.84	144.50	5.20	19.18	7.88	505.59	842.24

C.

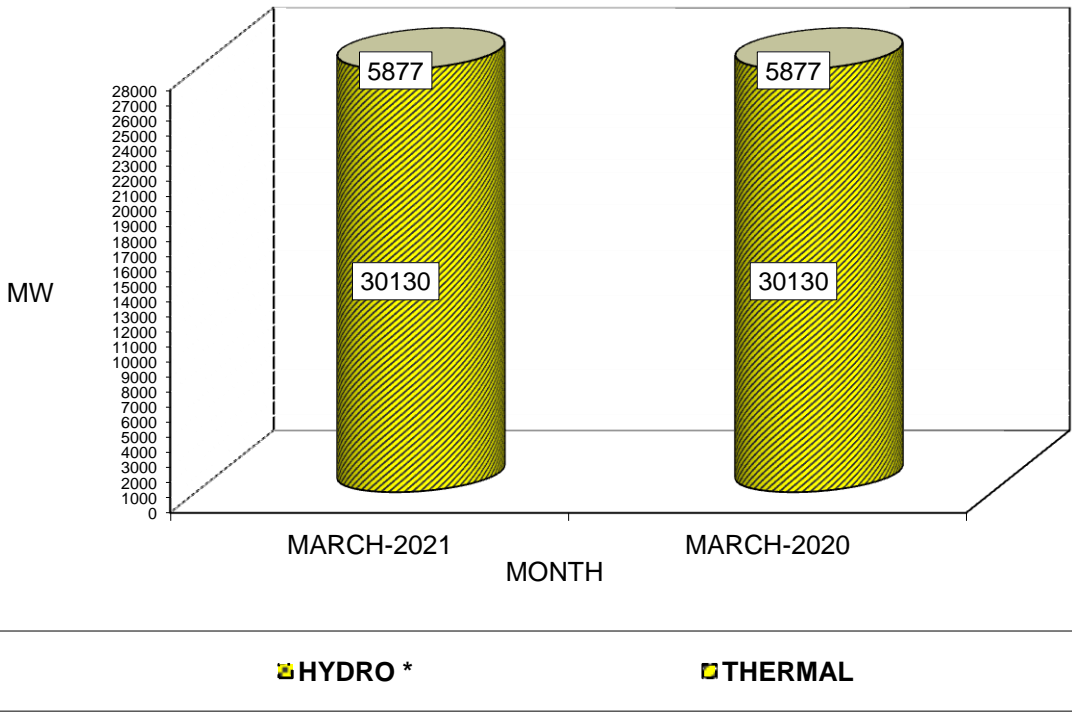
Distribution of Schedule Supply among Key Customers by IPPs during

Mar-21

(All figs. are in MU)

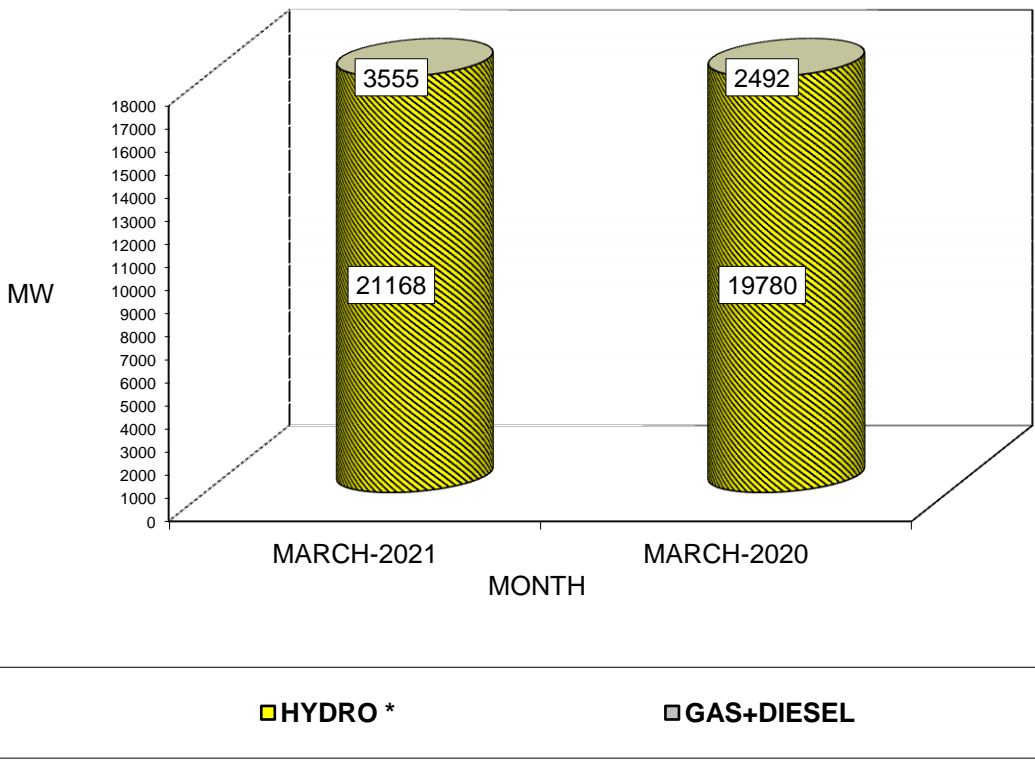
IPP	TPDDL	WBSEDCL/ WBPDCL	DVC	Sale at IEX/NPCL	ODISHA	JSEB	CTU/Others	Total (Excl. Tr. Loss)
MPL	198.22	197.15	89.86	0.00	0	0	199.99	685.22
Sterlite	0	0	0	0	0.00	0	0.00	0.00
APNRL	0	70.43	0	64.74	0.00	135.05	73.16	343.38
Total	198.22	267.58	89.86	64.74	0.00	135.05	273.15	1028.60

EFFECTIVE CAPACITY OF EASTERN REGIONAL GRID



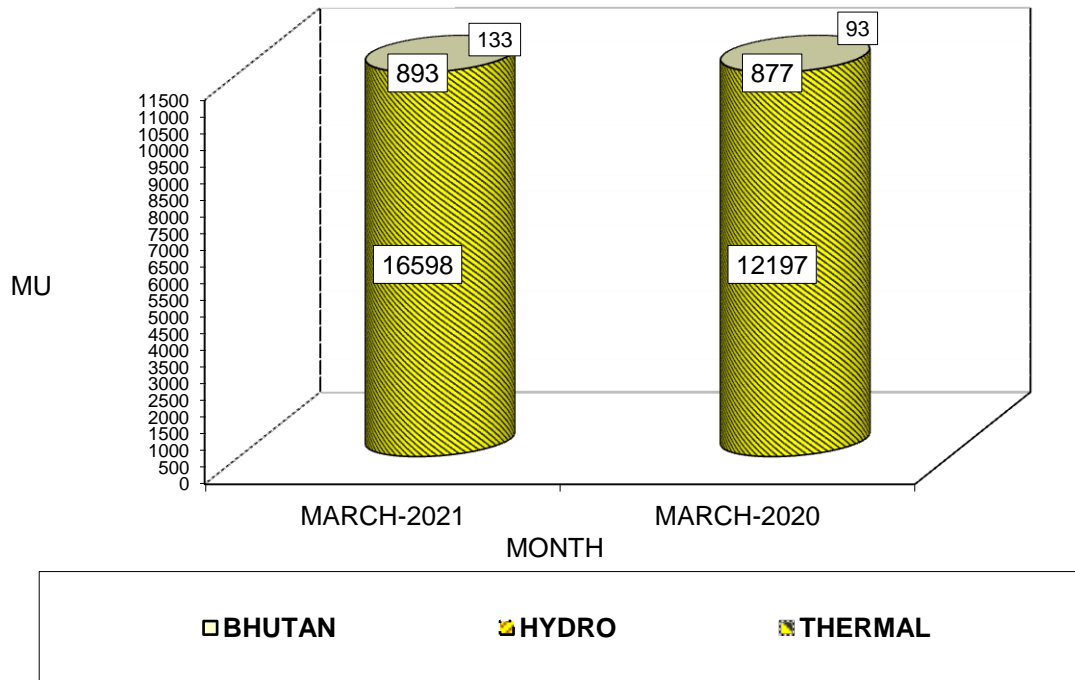
*Excludes contribution from HEPs of Bhutan

GENERATION CORRESPONDING TO PEAK DEMAND MET

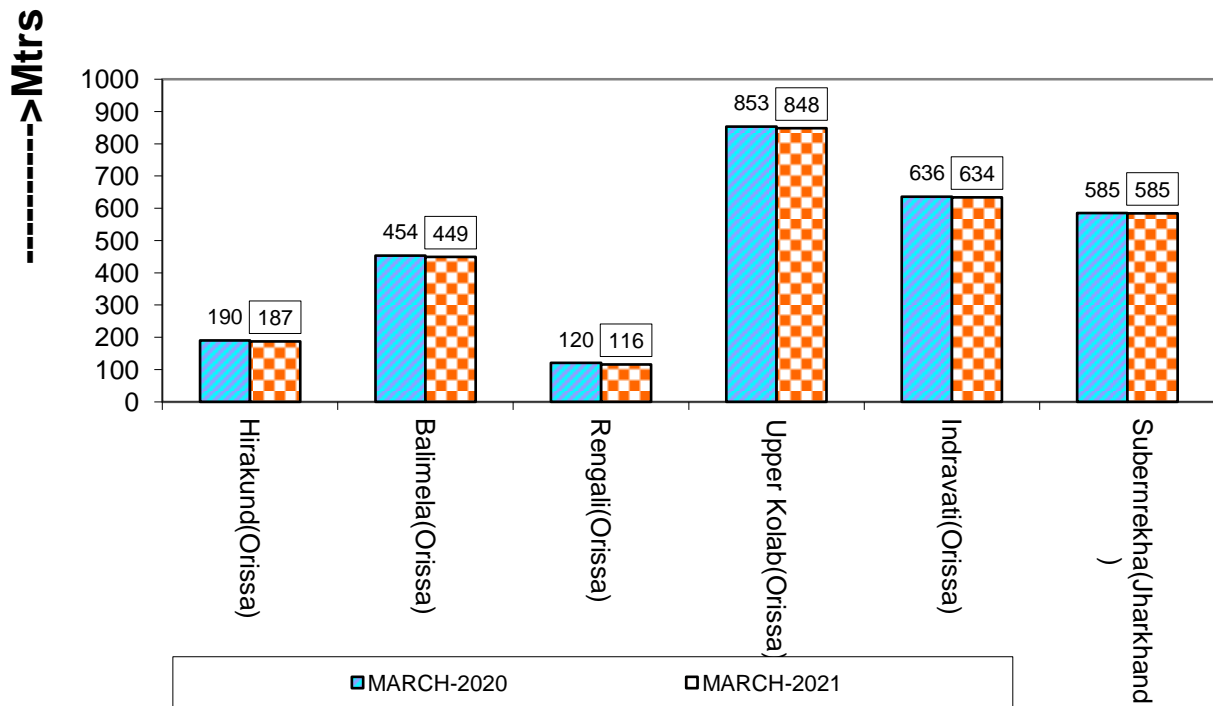


*Includes contribution from HEP of Bhutan

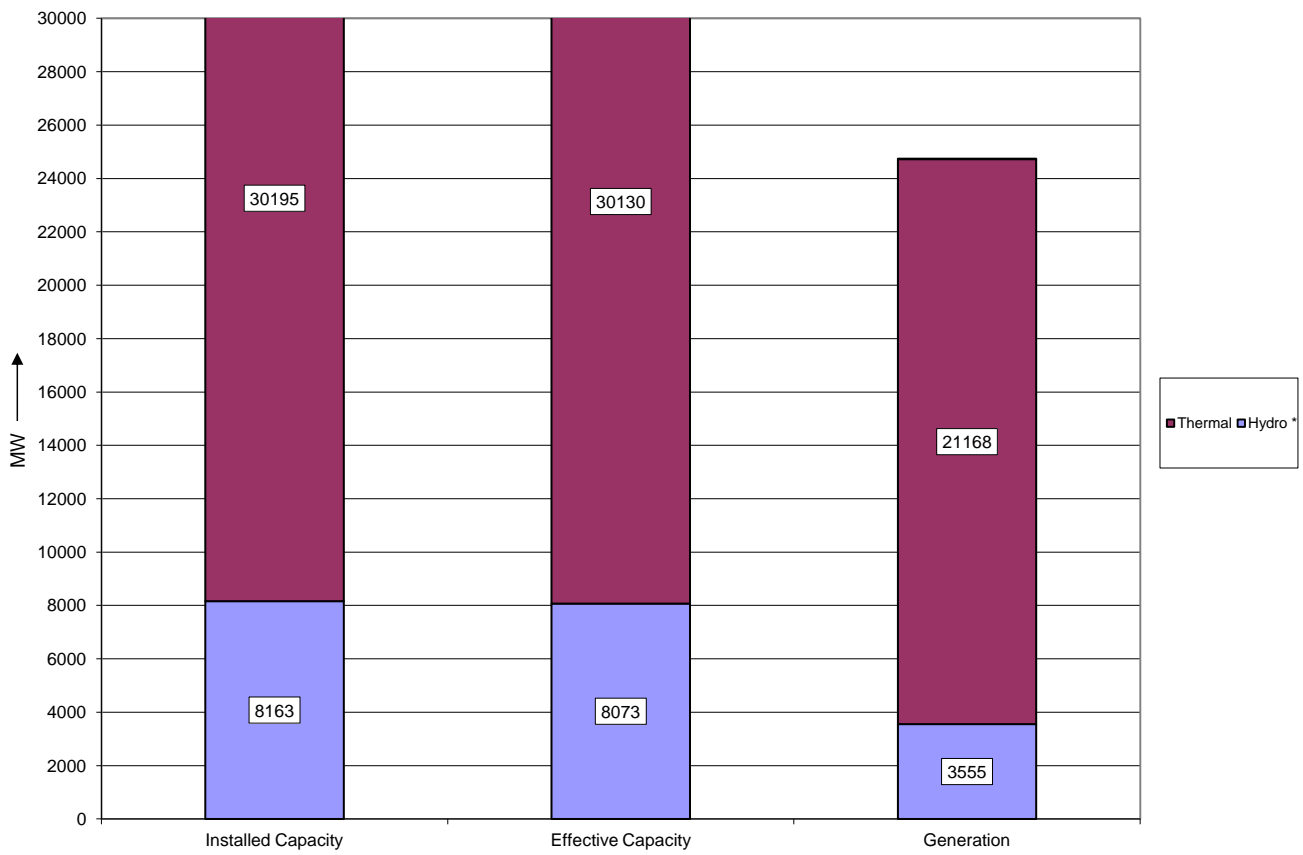
NET ENERGY GENERATION



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

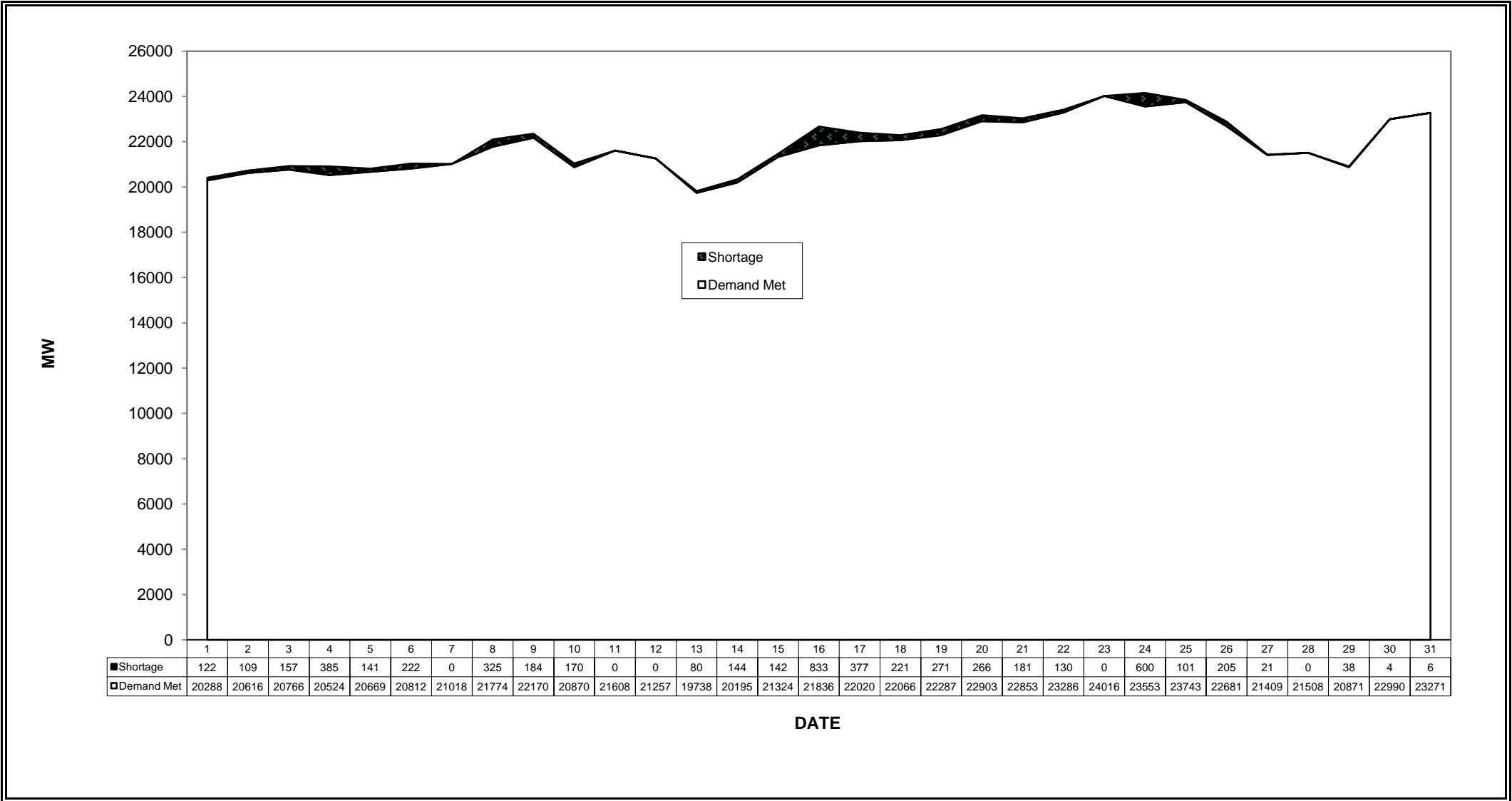


Capacity / Actual Generation Pattern of ER on Peak Day (23-3-2021) at 21.00 hrs.

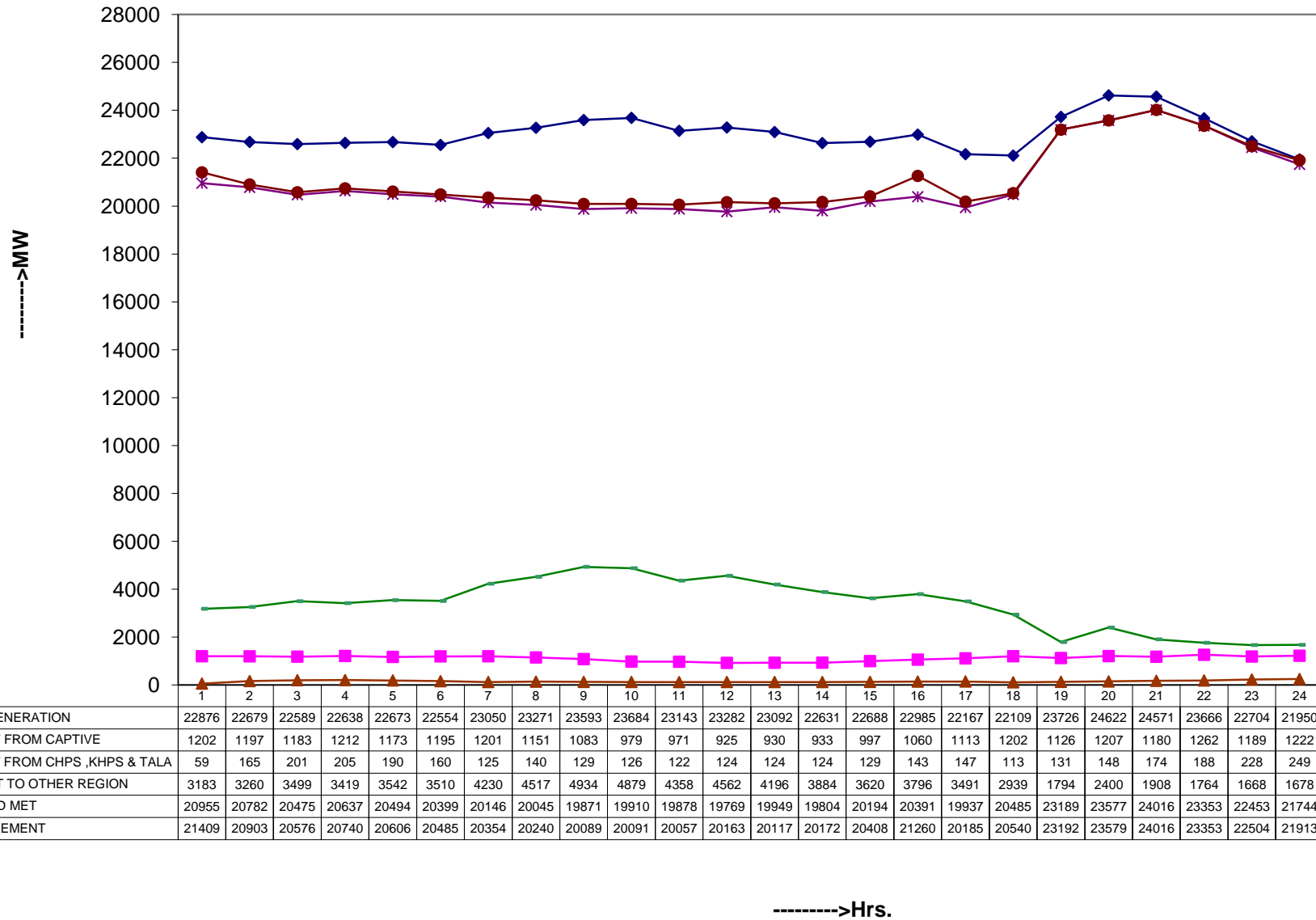


(*)--Includes contribution from HEP of Bhutan (Chukka, Kurichhu & Tala)

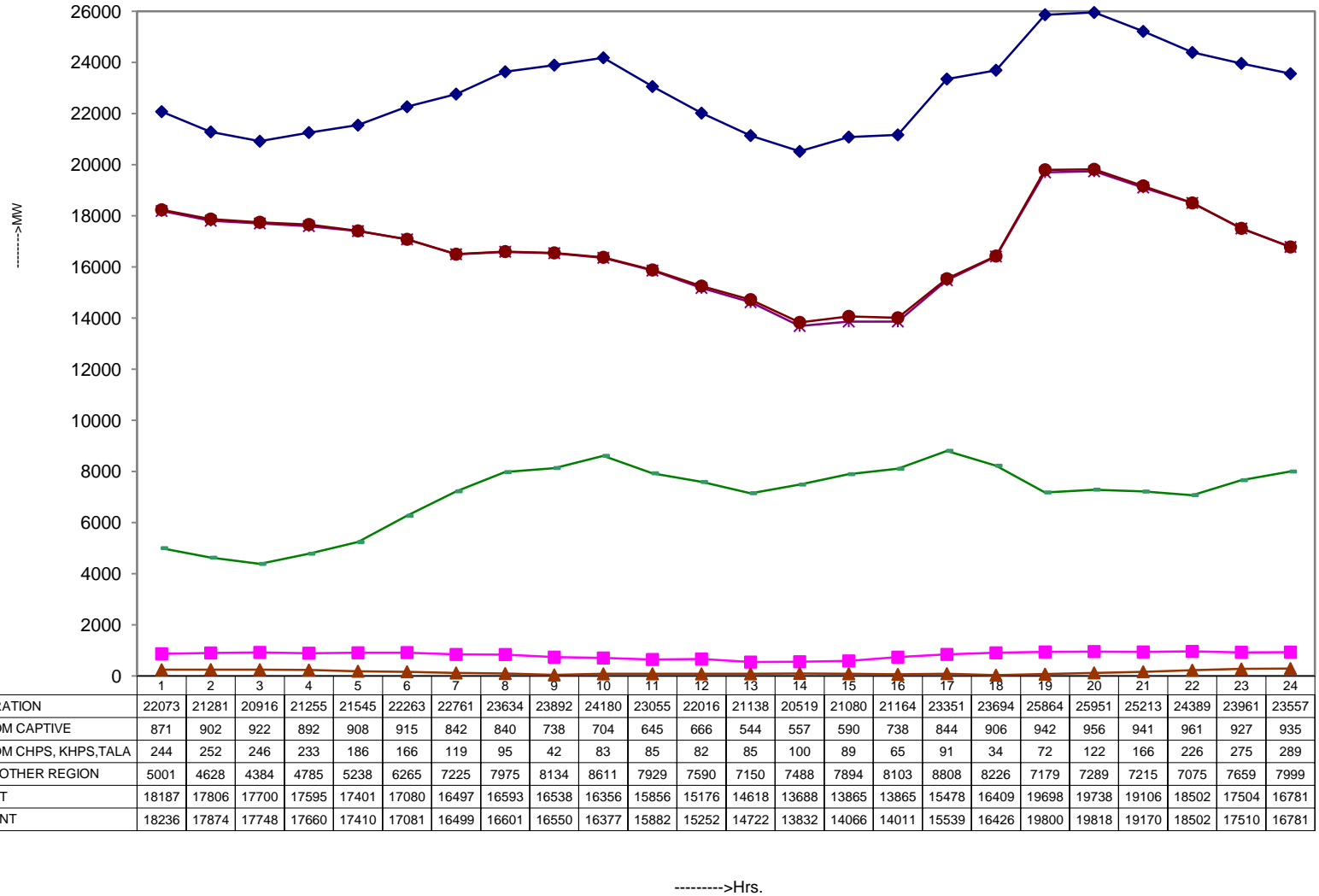
Peak Demand Met / Shortage of Eastern Region For The Month Of MARCH'2021



Hourly Load Generation Data OF ER On Regional Peak Day During The Month of MARCH'2021 (23-3-2021)

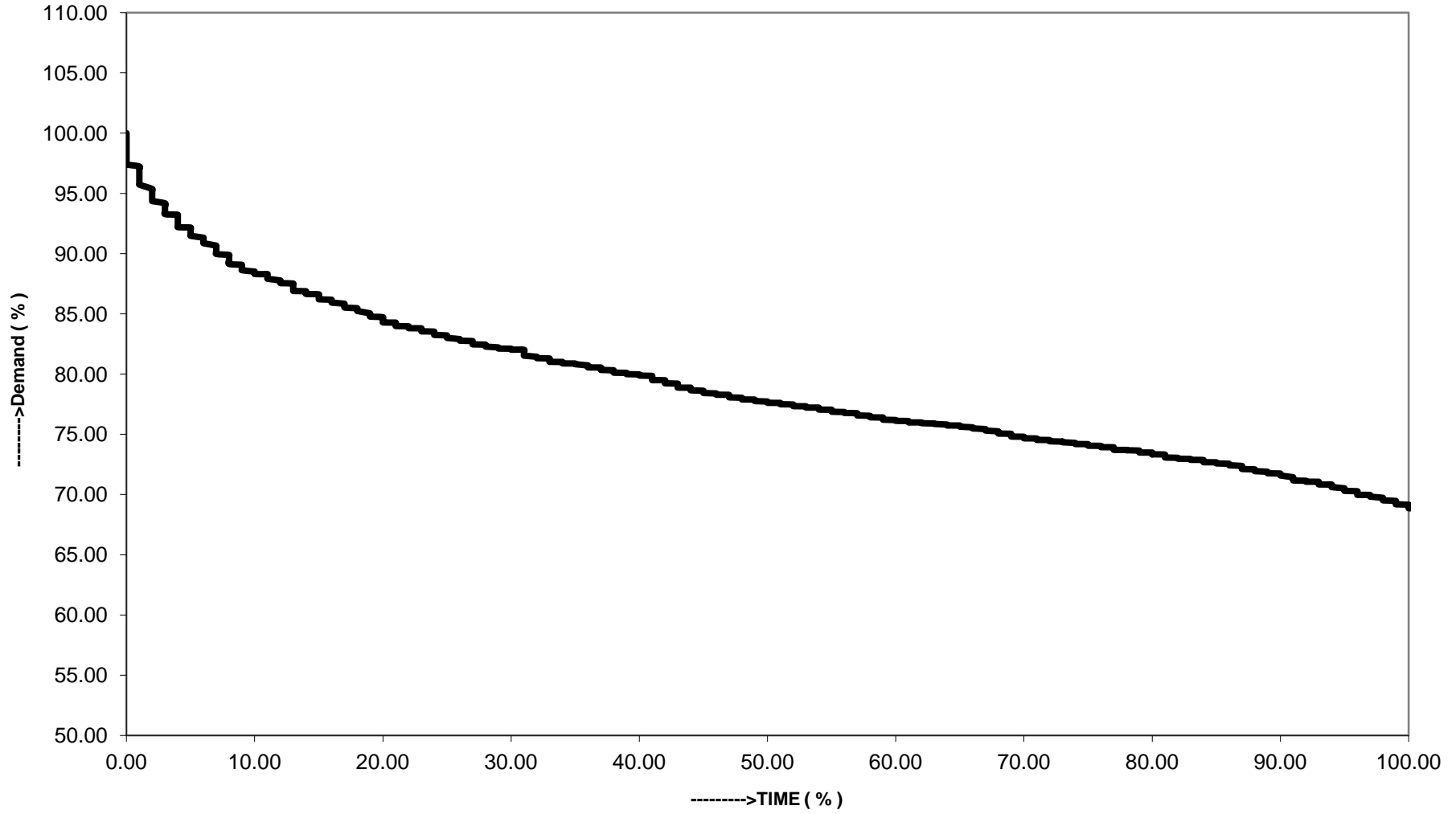


Hourly Load Generation Data of ER On Regional Lean Day During The Month of MARCH'2021 (13-3-2021)



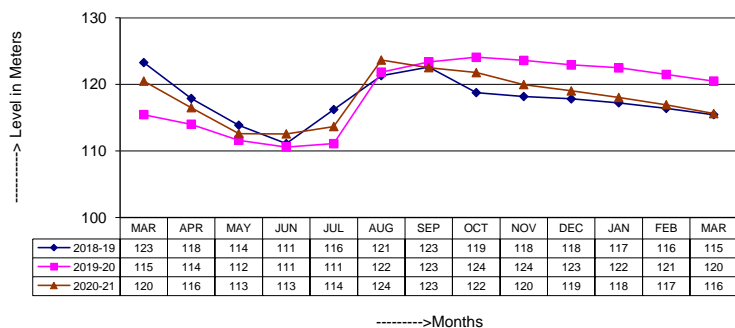
Monthly Load Duration Curve of Eastern Region for MARCH-2021

Maximum Demand met : 24016 MW
Minimum Demand met: 13688 MW

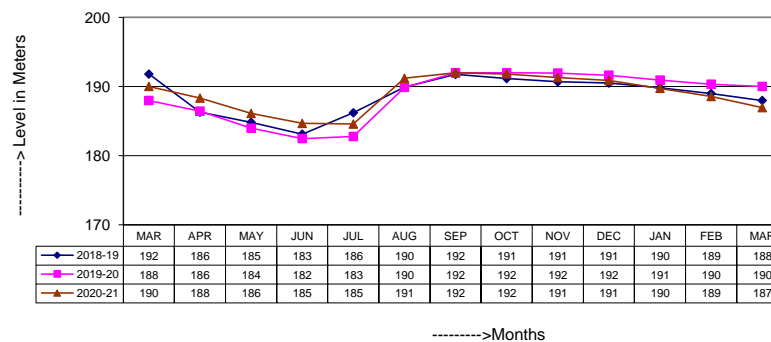


WATER LEVEL IN MAJOR RESERVOIRS ON LAST DATE OF MONTH

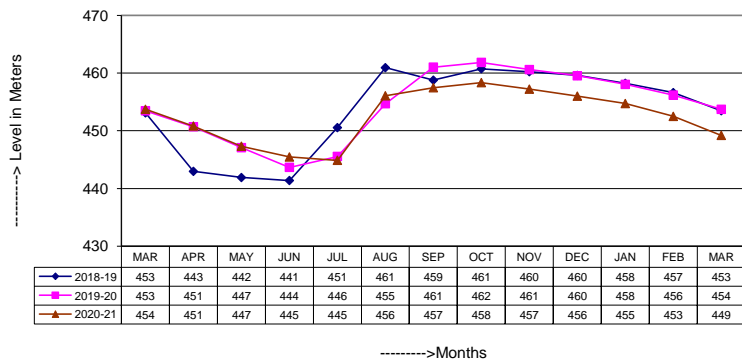
RENGALI RESERVOIR LEVEL



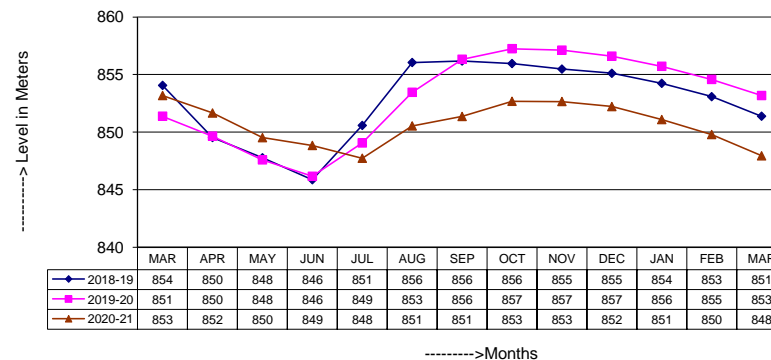
HIRAKUD RESERVOIR LEVEL



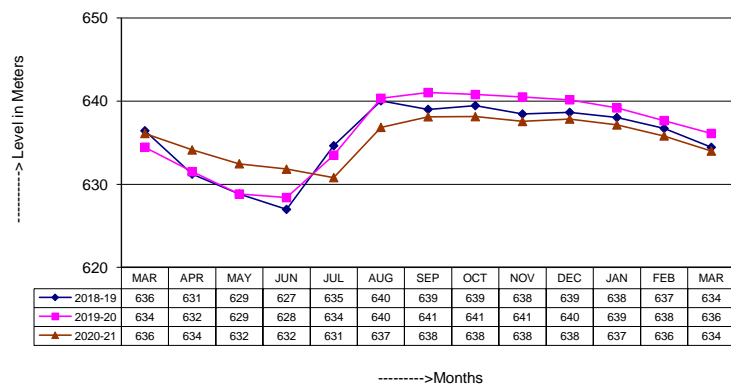
BALIMELA RESERVOIR LEVEL



UPPER KOLAB RESERVOIR LEVEL



INDRAVATI RESERVOIR LEVEL



SUBERNREKHA RESERVOIR LEVEL

