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

फ़रवरी - 2021

February-2021

14, गोल्फ क्लब रोड, टोलीगंज

14, Golf Club Road, Tollygunge

कोलकाता **-700033**

Kolkata: 700 033

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Highlights of Eastern Regional Power System for February - 2021

- The **Maximum Net Demand** met of **Eastern Region (ER)** during the month of **Feb, 2021** was **20643 MW** which is 8.86% more than the **Feb,2020** (18962 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 **Feb, 2021** was **395.83 MU** excluding export, which is 10.17% more than the corresponding period of last year (359.29 MU).
- **The Average regional PLF of thermal units during the month is 73.30 %,** which is 9.30% more than the corresponding period of the last year (**64.00**%).

  WBPDCL (Bakreswar TPP) registered the highest **PLF** of 97.54%, followed by DVC (Koderma STPS) 97.50% and WBPDCL (Santaldih TPS) 95.49% during the month of **Feb, 2021.**
- **Maximum Net generation** was **26648 MW** against total **Effective Capacity of 39691.26 MW** (including import from Bhutan). At the time of Regional peak (**20643** MW on 09.02.2021 at 19.00 hrs.) the generation was **24741** MW and import from CPP was 1462 MW, Net export was 5560 MW.
- The system frequency in the IEGC recommended band (49.9 Hz to 50.05 Hz) remained for 76.26% of time during the month. **Average frequency** for the month was **50.00 Hz.** The instantaneous maximum and the minimum frequency touched were 50.31 Hz and 49.60 Hz respectively. The integrated (Fifteen minutes time block average) maximum and minimum frequency were **50.13 Hz** and **49.72 Hz** respectively **(refer Annexure-I)**.
- The **Maximum Voltage** recorded **425 KV** at Jeerat 400 **KV S/s** whereas the minimum voltage recorded 396 KV at Jeerat 400 KV S/s of Power grid.
- **The Maximum Export from ER to outside region was 10256 MW (including Nepal and Bangladesh) on 26th Feb, 2021 at 10:00 hrs. Total net energy export during the month was 4538.71 MU (Inc.Transmission loss) MU which is corresponds to 30.67 % of ex-bus total generation 14798.77 MU of Eastern Region.**
- **The import from CPPs** was **823.23 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	4978	0	2053.96
WR	2612	2049	82.16
SR	4327	0	1970.19
NER	199	875	-245.30
BANGLADESH	930	0	465.81
NEPAL (via-CTU)	362	0	193.97
Kuru.HEP(Bhutan)	55	0	17.91
Total(Inc.Kuru.HEP Im)	10256	2644	4538.71
NEPAL by Bihar(NBPDCL)			148.023

SALIENT FEATURES

(YEAR TO YEAR COMPARISION)

			Feb-21		FEBRUARY-2020	CHANGE	% CHANGE
1)	Effective Capacity (end of the Month)						
	THERMAL	(MW)	30130		29320	810	2.76
	HYDRO	(MW)	5877	$	5877	0	0
	DIESEL	(MW)	0		0	0	0
	RES	(MW)	1489		1489	0	0
	TOTAL	(MW)	37495		36686	809	2.21
2)	Peak Demand (MW)		20854		18968	1886	9.94
3)	Peak Demand Met (MW)		20643		18962	1681	8.86
4)	Shortage (MW)		211		7	204	0.00
5)	% Shortage		1.01		0.03	0.98	0.00
6)	Average Energy Requirement Per Day (MU)		397.69		359.79	37.90	10.54
7)	Average Energy Availability Per Day (MU)		395.83		359.29	36.54	10.17
8)	Average Shortage Per Day (MU)		1.86		0.50	1.36	272.61
9)	% Shortage		0.47		0.14	0.33	236.62
10)	Net Generation for the Month						
	Thermal (MU)		13801.19		12089.64	1711.55	14.16
	Hydro (MU)		879.94	*	847.84	32.10	3.79
	RES (MU)		117.65		92.94	0.00	-
	Total (MU)		14798.77		13030.42	1768.35	13.57
11)	Generation at the Time of Max. Regional Demand Met (09-02-21 at 19.00 Hrs.)						
	Thermal (MW)		21609		18826	2783	14.78
	Hydro (MW)		3114	*	2251	863	38.32
	RES(MW)		19		28	-9	-33.76
	Total (MW)		24741		21105	3636	17.23
12)	Inter-Regional Energy Transfer						
	Export (MU)		4784.01		4531.96	252.05	5.56
	Import (MU)		245.30		1088.50	-843.20	-77.46
	Net Exp.(+)/Net Imp.(-) (MU)		4538.71		3443.45	1095.26	31.81
13)	Import From Captive(MU)		823.23		832.43	-9.20	-1.11
14)	Peak Inter Regional Power Transfer						
	Max Export (MW) on 26-02-21 at 10.00Hrs		10256		9571	685	7.16
	Max Import (MW) on 19-02-21 at 05.00Hrs		2644		3821	-1177	-30.80
	Max Net Export(+)/Import (-) (MW)		9903		8187	1716	20.96
15)	Maximum voltage recorded		425		JEERAT	400 kv s/s	
16)	Minimum voltage recorded		396		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)

POWER SUPPLY POSITION FOR THE MONTH OF FEBRUARY'2021

A) Net Average Energy Per Day

System	Demand Met (MU/Day)	Requirement (MU/Day)	Shortage (MU/Day)	% Shortage
BSPHCL	87.81	88.29	0.48	0.55
JUVNL	27.13	28.86	1.73	5.98
DVC	65.38	65.41	0.03	0.05
ODISHA	81.79	81.83	0.04	0.05
WBSEDCL	108.81	108.92	0.11	0.10
CESC	22.51	22.52	0.01	0.05
SIKKIM	1.86	1.86	0.00	0.05
REGION	**395.83**	**397.69**	**1.86**	**0.47**

B) Peak Demand in MW:

System	Demand Met (MW)	Requirement (MW)	Shortage (MW)	% Shortage
BSPHCL	5009	5009	0	0.00
JUVNL	1416	1632	215	13.20
DVC	3084	3084	0	0.00
ODISHA	4803	4819	16	0.33
WBSEDCL	5781	5782	1	0.02
CESC	1377	1380	3	0.2
SIKKIM	117	117	0	0.00
REGION	20643	20854	211	1.01

- **DIVERSITY FACTOR 1.05**
- **Regional Peak Demand Met on 9-2-2021 at 19.00 hrs. at 49.98 Hz.**

CONSTITUENT-WISE PERFORMANCE DATA FEBRUARY-2021

SYSTEM	Gross Generation(MU)				Auxiliary power Consumption(MU)				Net Generation (MU)				Import from	Exchange	Energy	Per Day	Net Peak	Gross Peak
	HYDRO	Thermal	RES (Hy+Solar)	Total	HYDRO	Thermal	Solar	Total	HYDRO	Thermal	Solar	Total	Captive (MU)	Net Import(+) Net Export(-)	Consumption(MU	Cons.(MU)	Demand Met (MW)	Demand Met (MW)
BSPHCL	0.00	216.42	43.21	259.63	0.00	23.40	0.00	23.40	0.00	193.02	43.21	236.23	0.00	2222.37	2458.60	87.8	5009	5034
JUVNL	0.00	178.12	0.00	178.12	0.00	17.95	0.00	17.95	0.00	160.17	0.00	160.17	46.80	552.74	759.71	27.1	1416	1444
DVC	15.94	3443.57	0.00	3459.51	0.12	224.72	0.00	224.85	15.82	3218.85	0.00	3234.66	6.00	-1410.03	1830.63	65.4	3084	3424
ODISHA(OPGC+OHPC+TTPS)	375.21	1031.07	58.36	1464.64	3.91	89.35	0.00	93.27	371.30	941.72	58.36	1371.38	619.23	299.55	2290.15	81.8	4803	4962
WBPDCL+WBSEDCL+DPL	137.69	2470.39	13.81	2621.89	0.00	204.87	0.00	204.87	137.69	2265.53	13.81	2417.02	151.20	478.57	3046.79	108.8	5781	6138
CESC	0.00	406.22	0.00	406.22	0.00	30.98	0.00	30.98	0.00	375.24	0.00	375.24	0.00	255.13	630.37	22.5	1377	1438
HEL	0.00	278.57	0.00	278.57	0.00	20.96	0.00	20.96	0.00	257.61	0.00	257.61	0.00	-257.61				
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	50.98	51.98	1.9	117	117
NTPC	0.00	5097.40	1.26	5098.66	0.00	352.46	0.00	352.46	0.00	4744.94	1.26	4746.20	0.00	-4746.20				
MPL	0.00	394.34	0.00	394.34	0.00	23.63	0.00	23.63	0.00	370.71	0.00	370.71	0.00	-370.71				
APNRL	0.00	309.59	0.00	309.59	0.00	20.46	0.00	20.46	0.00	289.13	0.00	289.13	0.00	-289.13				
GMR	0.00	310.14	0.00	310.14	0.00	21.58	0.00	21.58	0.00	288.56	0.00	288.56	0.00	-288.56				
JITPL	0.00	737.86	0.00	737.86	0.00	42.14	0.00	42.14	0.00	695.72	0.00	695.72	0.00	-695.72				
NHPC (Inc TLDP= 22.79MU)	101.59	0.00	0.00	101.59	0.00	0.00	0.00	0.00	101.59	0.00	0.00	101.59	0.00	-101.59				
CHUZACHEN HPS	0.75	0.00	0.00	0.75	0.00	0.00	0.00	0.00	0.75	0.00	0.00	0.75	0.00	-0.75				
DIKCHU HPS	4.67	0.00	0.00	4.67	0.00	0.00	0.00	0.00	4.67	0.00	0.00	4.67	0.00	-4.67				
JORHANG HPS	8.24	0.00	0.00	8.24	0.00	0.00	0.00	0.00	8.24	0.00	0.00	8.24	0.00	-8.24				
TASHIDING HPS	7.97	0.00	0.00	7.97	0.00	0.00	0.00	0.00	7.97	0.00	0.00	7.97	0.00	-7.97				
TEESTA-III HPS	126.34	0.00	0.00	126.34	0.00	0.00	0.00	0.00	126.34	0.00	0.00	126.34	0.00	-126.34				
CHPC(Birpara Receipt)	16.99	0.00	0.00	16.99	0.00	0.00	0.00	0.00	16.99	0.00	0.00	16.99	0.00	-16.99				
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	11.90	0.00	0.00	11.90	0.00	0.00	0.00	0.00	11.90	0.00	0.00	11.90	0.00	-11.90				
DAGACHU HPS	12.14	0.00	0.00	12.14	0.00	0.00	0.00	0.00	12.14	0.00	0.00	12.14	0.00	-12.14				
Mangdechhu HEP	64.55	0.00	0.00	64.55	0.00	0.00	0.00	0.00	64.55	0.00	0.00	64.55	0.00	-64.55				
Total Drawal by HVDC Sahsaram,Alipurduar														15.06	15.06			
Total	883.97	14873.70	117.65	15875.31	4.04	1072.51	0.00	1076.54	879.94	13801.19	117.65	14798.77	823.23	-4538.70	11083.30	395.83	20643	22168

3A 14798.77 4538.70 11083.30

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	**-**	**-**	**-**	**-**	**-**

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	**-**	**-**	**-**	**-**	**-**

PERFORMANCE OF GENERATING STATIONS IN THE EASTERN REGION DURING THE MONTH OF FEBRUARY -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	5.19	4.67	30.01	12.30
	Thermal	**Barauni (U# 8)**	250.00	250.00	124.12	111.71	1109.11	977.82
		Barauni (U# 9)	0.00	0.00	23.10	20.79	62.11	55.90
		Muzaffarpur Stg-I	220.00	220.00	64.01	55.85	102.59	78.74
		Thermal Total	690.00	680.00	216.42	193.02	1303.82	1124.76
	RES		341.25	341.25	43.21	43.21	304.13	304.13
		Total BIHAR	**1031.25**	**1021.25**	**259.63**	**236.23**	**1607.95**	**1428.90**
JHARKHAND								
TVNL	**Thermal**	**TVNL**	420.00	420.00	178.12	160.17	2034.24	1788.86
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	-0.44	18.59	10.37
		Chandrapura(U7 # 8)	500.00	500.00	281.55	255.13	3083.11	2783.71
		Durgapur(4)	210.00	210.00	0.00	-0.47	135.82	112.69
		Mezia(1,2,3,4,5,6)	1340.00	1340.00	704.65	632.55	6295.15	5646.94
		Mezia(U # 7,8)	1000.00	1000.00	316.32	298.42	5153.71	4875.29
		Bokaro-A(1)	500.00	500.00	320.48	306.10	2908.39	2749.28
		Durgapur STPS (U#1,2)	1000.00	1000.00	595.66	566.31	5081.04	4779.06
		Raghunathpur TPS (U#1,2)	1200.00	1200.00	569.72	538.07	4577.32	4289.08
		Koderma STPS (U#1,2)	1000.00	1000.00	655.19	623.18	6814.52	6458.24
		Total Thermal	6960.00	6960.00	3443.57	3218.85	34067.64	31702.29
	Hydro	**Maithon (U#1,2,3)**	63.20	63.20	5.29	5.27	179.65	179.28
		Panchet (U#1,2)	80.00	80.00	10.38	10.29	170.70	169.84
		Tilaya (U#1,2)	4.00	4.00	0.27	0.3	9.41	9.3
		Hydro Total	**147.20**	**147.20**	15.94	15.82	359.75	358.42
		Total DVC	**7107.20**	**7107.20**	**3459.51**	**3234.66**	**34427.39**	**32060.72**
WEST BENGAL								
WBPDCL	**Thermal**	**Bandel TPS**	380.00	335.00	119.19	108.38	1015.07	910.61
		Santaldih TPS(U#5&6)	500.00	500.00	320.85	295.19	3067.87	2807.94
		Kolaghat TPS	1260.00	1260.00	130.56	114.10	1342.34	1152.92
		Bakreswar TPP	1050.00	1050.00	688.26	631.54	7097.95	6474.46
		Sagardighi TPP	1600.00	1600.00	903.31	837.01	8485.28	7867.13
		DPPS (300+250 *)	**550.00**	**550.00**	**308.22**	**279.30**	**2457.34**	**2209.40**
		Thermal Total	**5340.00**	**5295.00**	**2470.39**	**2265.53**	**23465.84**	**21422.47**
WBSEDCL	**Hydro**	**Jaldhaka (3x9+2x4)**	35.00	35.00	5.91	5.91	192.73	192.73
		Ramam (4x12.73)	51.00	51.00	7.48	7.48	247.83	247.83
		Teesta C.F. (3x3x7.5)	67.50	67.50	0.00	0.00	31.08	31.08
		Purulia PSS (4x225)	900.00	900.00	124.29	124.29	1226.97	1226.97
		Total Hydro	1053.50	1053.50	137.69	137.69	1698.61	1698.61
		RES	527.29	527.29	13.81	13.81	141.63	141.63

- 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 FEBRUARY -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	3.94	3.59	58.91	53.33
		Budge-Budge (3x250)	750.00	750.00	402.28	371.65	4890.23	4508.92
		Total CESC	1125.00	1125.00	406.22	375.24	4949.14	4562.25
HEL	**Thermal**	**HEL**	600.00	600.00	278.57	257.61	3794.86	3505.50
		Total West Bengal	8645.79	8600.79	3306.68	3049.87	34050.08	31330.47
ODISHA	**Thermal**	**Talcher-I**	250.00	240.00	139.05	121.79	1694.81	1501.75
(NTPC)		**Talcher-II**	220.00	220.00	118.75	104.01	1527.73	1353.53
		Total Thermal	470.00	460.00	257.81	225.80	3222.54	2855.28
OPGC	**Thermal**	**IB TPS**	420.00	420.00	174.27	153.70	2372.38	2093.95
		IB TPS U#3(660 MW)	660.00	660.00	249.36	234.05	2117.76	1978.27
		IB TPS U#4(660 MW)	660.00	660.00	349.64	328.17	3249.26	3022.18
OHPC	**Hydro**	**Hirakud-I (Burla)**	275.50	275.50	27.89	27.74	599.28	596.82
		Hirakud-II (Chiplima)	72.00	72.00	17.16	17.09	305.47	302.65
		Balimela (6x60+2x75)	510.00	510.00	90.27	89.79	1558.32	1552.60
		Rengali (5x50)	250.00	250.00	26.48	25.58	987.32	983.58
		Upper Kolab (4x80)	320.00	320.00	56.43	56.10	751.97	749.38
		Indravati HPS (4x150)	600.00	600.00	131.39	129.39	1600.29	1565.61
		Mckd.(Odisha drawal)	57.38	57.38	25.60	25.60	277.47	277.47
		Total Hydro	2084.88	2084.88	375.21	371.30	6080.11	6028.10
		RES	511.21	511.21	58.36	58.36	536.99	536.99
		Total Odisha	4806.09	4796.09	1464.64	1371.37	17579.04	16514.77
(**) SIKKIM	**Hydro**	**RES**	52.18	52.18	1.00	1.00	15.00	15.00
NTPC		**MTPS Stg-II**	390.00	390.00	208.771	188.05	1969.56	1759.63
		FSTPP# I&II (3x200+2x500)	1600.00	1600.00	886.93	820.66	7769.08	7139.24
		FSTPP (U# 6)	500.00	500.00	193.93	181.17	2828.02	2607.66
		KhSTPP (4x210+3x500)	2340.00	2340.00	1292.44	1205.99	11758.57	10832.85
		TSTPP (2x500)	1000.00	1000.00	575.15	531.15	7021.74	6480.90
		BARH STPS II (2X660)	1320.00	1320.00	725.57	682.13	6889.00	6464.47
		BARH STPS I (1X660)			9.94	3.90	9.94	3.90
		BRBCL # I,2,3(3X250 MW)	750	750	459.21	425.92	3749.38	3434.49
		NSTPS	660.00	660.00	283.39	271.21	4296.49	4074.59
		DSTPP	800.00	800.00	462.08	434.76	4263.00	3976.41
		Total NTPC	9360.00	9360.00	5097.41	4744.94	50554.78	46774.13
NHPC	**HYDRO**	**Rangit (3x20)**	60.00	60.00	10.41	10.41	267.76	267.76
		Teesta (3x170)	510.00	510.00	68.39	68.39	2702.34	2702.34
		TLDP -(4x33+4x40)	292.00	292.00	22.79	22.79	1203.60	1203.60
		Total NHPC	862.00	862.00	101.59	101.59	4173.69	4173.69
		MPL (U#1&2)	1050.00	1050.00	394.34	370.71	5658.44	5306.10
		APNRL (U#1,2)	540.00	540.00	309.59	289.13	2659.59	2462.86
		GMR (2x350)	700.00	700.00	310.14	288.56	4314.56	4032.48
		JITPL (2X600)	1200.00	1200.00	737.85	695.72	5241.51	4917.57
		CHUZACHEN (2x55)**	110.00	110.00	0.75	0.75	470.24	470.24
		JORETHANG (2x48)	96.00	96.00	8.24	8.24	385.40	385.40
		TEESTA URJA St III (6x200)	1200.00	1200.00	126.34	126.34	5835.83	5835.83
		Tashilding (2x48.5)	97.00	97.00	7.97	7.97	358.15	358.15
		DICKCHU (2x48)	96.00	96.00	4.67	4.67	451.07	451.07
		TALCHER SOLAR	10.00	10.00	1.26	1.26	12.26	12.26
		Total Thermal (E.R)	30195.00	30130.00	14873.69	13801.19	149006.35	137548.98
		Total Hydro (E.R)	5876.58	5876.58	778.39	774.36	19862.88	19809.54
		Total RES	1488.68	1488.68	117.65	117.65	1010.02	1010.02
EASTERN REGIONAL		**TOTAL (E.R)**	37560.26	37495.26	15769.73	14693.19	169879.25	158368.54
BHUTAN	**Hydro**	**CHPC(4x90)**	360.00	270.00	16.99	16.99	1959.88	1959.88
	Hydro	**Kurichu (4x15)**	60.00	60.00	0.00	0.00	402.88	402.88
	Hydro	**TALA (6x170)**	1020.00	1020.00	11.90	11.90	3170.17	3170.17
	Hydro	**DAGACHU (2x63)**	126.00	126.00	12.14	12.14	489.52	489.52
		MANGDECHU(4x180)	720.00	720.00	64.55	64.55	3096.19	3096.19
		Grand Total	39846.26	39691.26	15875.32	14798.77	178997.91	167487.19

PLANT LOAD FACTOR (PLF) OF THERMAL POWER STATIONS IN EASTERN REGION DURING THE MONTH OF FEBRUARY' 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	5.19	3.68	30.01	1.78
	Thermal	**Barauni (U# 8)**	250.00	250.00	124.12	73.88	1109.11	55.34
		Barauni (U# 9)	0.00	0.00	23.10	0.00	62.11	0.00
		Muzaffarpur Stg-I	220.00	220.00	64.01	43.30	102.59	5.82
		Thermal Total	690.00	680.00	216.42	42.31	1303.82	22.78
	RES		341.25	341.25	43.21		304.13	
		Total BIHAR	1031.25	1021.25	259.63		1607.95	
JHARKHAND								
TVNL	**Thermal**	**TVNL**	420.00	420.00	178.12	63.11	2034.24	60.42
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	1.10
		Chandrapura(U7 # 8)	500.00	500.00	281.55	83.79	3083.11	76.92
		Durgapur(4)	210.00	210.00	0.00	0.00	135.82	8.07
		Mezia(1,2,3,4,5,6)	1340.00	1340.00	704.65	78.25	6295.15	58.61
		Mezia(U # 7,8)	1000.00	1000.00	316.32	47.07	5153.71	64.29
		Bokaro-A(1)	500.00	500.00	320.48	95.38	2908.39	72.56
		Durgapur STPS (U#1,2)	1000.00	1000.00	595.66	88.64	5081.04	63.39
		Raghunathpur TPS (U#1,2)	1200.00	1200.00	569.72	70.65	4577.32	47.59
		Koderma STPS (U#1,2)	1000.00	1000.00	*655.19*	97.50	6814.52	85.01
		Total Thermal	**6960.00**	**6960.00**	**3443.57**	**73.63**	**34067.64**	61.06
	Hydro	**Maithon (U#1,2,3)**	63.20	63.20	5.29		179.65	
		Panchet (U#1,2)	80.00	80.00	10.38		170.70	
		Tilaya (U#1,2)	4.00	4.00	0.27		9.41	
		Hydro Total	147.20	147.20	15.94		359.75	
		Total DVC	7107.20	7107.20	3459.51		34427.39	
WEST BENGAL								
WBPDCL	**Thermal**	**Bandel TPS**	380.00	335.00	119.19	52.94	1015.07	37.80
		Santaldih TPS(U#5&6)	500.00	500.00	320.85	95.49	3067.87	76.54
		Kolaghat TPS	1260.00	1260.00	130.56	15.42	1342.34	13.29
		Bakreswar TPP	1050.00	1050.00	688.26	97.54	7097.95	84.33
		Sagardighi TPP	1600.00	1600.00	903.31	84.01	8485.28	66.16
		DPPS (300+250 *)	**550.00**	**550.00**	**308.22**	**83.39**	**2457.34**	**55.74**
		Thermal Total	**5340.00**	**5295.00**	**2470.39**	**69.43**	**23465.84**	**55.29**
WBSEDCL	**Hydro**	**Jaldhaka (3x9+2x4)**	35.00	35.00	5.91		192.73	
		Ramam (4x12.73)	51.00	51.00	7.48		247.83	
		Teesta C.F. (3x3x7.5)	67.50	67.50	0.00		31.08	
		Purulia PSS (4x225)	900.00	900.00	124.29		1226.97	
		Total Hydro	1053.50	1053.50	137.69		1698.61	
		RES	527.29	527.29	13.81		141.63	

WBPDCL,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 FEBRUARY' 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 (%)
CESC	**Thermal**	**Titagarh (4x60)**	240.00	240.00	0.00	0.00	0.00	0.00
		Southern (2x67.5)	135.00	135.00	3.94	4.34	58.91	5.44
		Budge-Budge (3x250)	750.00	750.00	402.28	79.82	4890.23	81.34
		Total CESC	**1125.00**	**1125.00**	**406.22**	**53.73**	**4949.14**	**54.88**
HEL	**Thermal**		**600.00**	**600.00**	**278.57**	**69.09**	**3794.86**	**78.90**
		Total West Bengal	**8645.79**	**8600.79**	**3306.68**		**34050.08**	
ODISHA	**Thermal**	**Talcher-I**	250.00	240.00	139.05	86.22	1694.81	88.10
(NTPC)		**Talcher-II**	220.00	220.00	118.75	80.32	1527.73	86.63
		Total Thermal	**470.00**	**460.00**	**257.81**	**83.40**	**3222.54**	**87.39**
OPGC	**Thermal**	**IB TPS**	**420.00**	**420.00**	**174.27**	**61.75**	**2372.38**	**70.47**
		IB TPS U#3(660 MW)	**660.00**	**660.00**	**249.36**	**56.22**	**2117.76**	**40.03**
		IB TPS U#4(660 MW)	**660.00**	**660.00**	**349.64**	**78.83**	**3249.26**	**61.42**
OHPC	**Hydro**	**Hirakud-I (Burla)**	275.50	275.50	27.89		599.28	
		Hirakud-II (Chiplima)	72.00	72.00	17.16		305.47	
		Balimela (6x60+2x75)	510.00	510.00	90.27		1558.32	
		Rengali (5x50)	250.00	250.00	26.48		987.32	
		Upper Kolab (4x80)	320.00	320.00	56.43		751.97	
		Indravati HPS (4x150)	600.00	600.00	131.39		1600.29	
		Mckd.(Odisha drawal)	57.38	57.38	25.60		277.47	
		Total Hydro	2084.88	2084.88	375.21		6080.11	
		RES	511.21	511.21	58.36		536.99	
		Total Odisha	4806.09	4796.09	1464.64		17579.04	
(**) SIKKIM	**Hydro**	**RES**	52.18	52.18	1.00		15.00	
NTPC		**MTPS Stg-II**	390	390	208.771	79.66	1969.56	63.00
		FSTPP# I&II (3x200+2x500)	1600.00	1600.00	886.93	82.49	7769.08	60.57
		FSTPP (U# 6)	500.00	500.00	193.93	57.72	2828.02	70.56
		KhSTPP (4x210+3x500)	2340.00	2340.00	1292.44	82.19	11758.57	62.69
		TSTPP (2x500)	1000.00	1000.00	575.15	85.59	7021.74	87.60
		BARH STPS II (2X660)	1320.00	1320.00	725.57	81.80	6889.00	65.11
		BARH STPS I (1X660)			9.94		9.94	
		BRBCL # I,2,3(3X250 MW)	750.00	750.00	459.21	91.11	3749.38	62.36
		NSTPS	660.00	660.00	283.39	63.90	4296.49	81.21
		DSTPP	800.00	800.00	462.08	85.95	4263.00	66.48
		Total NTPC	9360.00	9360.00	5097.41	80.88	50554.78	67.37
NHPC	**HYDRO**	**Rangit (3x20)**	60.00	60.00	10.41		267.76	
		Teesta (3x170)	510.00	510.00	68.39		2702.34	
		TLDP -(4x33+4x40)	292.00	292.00	22.79		1203.60	
		Total NHPC	862.00	862.00	101.59		4173.69	
	Thermal	**MPL (U#1&2)**	1050.00	1050.00	394.34	55.89	5658.44	67.23
		APNRL (U#1,2)	540.00	540.00	309.59	85.31	2659.59	61.44
		GMR (2x350)	700.00	700.00	310.14	65.93	4314.56	76.89
		JITPL (2X600)	1200.00	1200.00	737.85	91.50	5241.51	54.49
		CHUZACHEN (2x55)**	110.00	110.00	0.75		470.24	
		JORETHANG (2x48)	96.00	96.00	8.24		385.40	
		TEESTA URJA St III (6x200)	1200.00	1200.00	126.34		5835.83	
		Tashilding (2x48.5)	97.00	97.00	7.97		358.15	
		DICKCHU (2x48)	96.00	96.00	4.67		451.07	
		TALCHER SOLAR	10.00	10.00	1.26		12.26	
		Total Thermal (E.R)	**30195.00**	**30130.00**	**14873.69**	**73.30**	**149006.35**	**61.66**
EASTERN REGIONAL		**Total Hydro (E.R)**	5876.58	5876.58	778.39		19862.88	
		Total RES	1488.68	1488.68	117.65		1010.02	
		TOTAL (E.R)	**37560.26**	**37495.26**	**15769.73**		**169879.25**	
BHUTAN	**Hydro**	**CHPC(4x90)**	**360.00**	270.00	16.99		1959.88	
	Hydro	**Kurichu (4x15)**	**60.00**	60.00	0.00		402.88	
	Hydro	**TALA (6x170)**	**1020.00**	1020.00	11.90		3170.17	
	Hydro	**DAGACHU (2x63)**	**126.00**	126.00	12.14		489.52	
		MANGDECHU(4x180)	**720.00**	**720.00**	**64.55**		3096.19	
		Grand Total	**39846.26**	**39691.26**	**15875.32**		**178997.91**	

CONTRIBUTIONS OF DIFFERENT CONSTITUENTS AT THE TIME OF REGIONAL PEAK
DURING THE MONTH OF FEBRUARY'2021 (9-2-2021)

Date	**9-Feb-21**	
Time	**19.00**	**Hrs.**
Frequency	**49.98**	**Hz.**

(All Fig. in MW)

System/State	Installed Capacity	Effective Capacity	Hydro	Thermal	RES	Net Gen Total
BSPHCL	1031	1021	0	159	0	159
JUVNL	597	597	0	248	0	248
DVC	7107	7107	40	5482	0	5522
ODISHA	4806	4796	950	1319	19	2287
WBSEDCL	6371	6326	689	3564	0	4253
TLDP	292	292	112	0	0	112
HEL HALDIA	600	600	0	273	0	273
CESC	1125	1125	0	773	0	773
DPL	550	550	0	0	0	0
SIKKIM	52	52	0	0	0	0
NTPC	9360	9360	0	7348	0	7348
NHPC	570	570	386	0	0	386
CHUKHA	360	270	-32	0	0	-32
KURICHU	60	60	-38	0	0	-38
TALA	1020	1020	-22	0	0	-22
MPL	1050	1050	0	493	0	493
OPGC (660 MW)	**0**	**0**	**0**	**0**	**0**	**0**
APNRL	540	540	0	501	0	501
Kamalganga (GMR)	700	700	0	333	0	333
JITPL	1200	1200	0	1116	0	1116
Chuzachen	110	110	0	0	0	0
Jorethang	**96**	**96**	**17**	**0**	0	**17**
TEESTA URJA St III	**1200**	**1200**	**838**	**0**	0	**838**
Tashilding	**97**	**97**	**22**	**0**	0	**22**
DICKCHU	**96**	**96**	**51**	**0**	0	**51**
Daghachu	126	126	19	0	0	**19**
Solar	10	10	0	0	0	**0**
Mangdechu	720	720	84	0	0	**84**
Total	39846	39691	3114	21609	19	24741
Import From Captive:						**1462**
Export To:						
NER						**-163**
SR						**3058**
WR						**-932**
NR						2515
Bangladesh						783
Nepal						299
Total						**5560**

- **I Net Peak Demand Met (MW) :** **20643**

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

Hourly Load Generation Data OF ER On Regional Peak Day During The Month of FEBRUARY'2021 (9-2-2021)

(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	443	18021	18464	1345	124	4421	15512	20	0	15533
2	247	17749	17996	1358	125	4249	15230	31	0	15260
3	242	17488	17730	1369	128	4253	14975	28	0	15002
4	265	17590	17856	1373	126	4325	15030	12	0	15042
5	287	17993	18280	1400	125	4396	15409	8	0	15418
6	625	19279	19904	1427	103	5050	16384	37	0	16421
7	1599	21029	22628	1449	55	6241	17891	55	190	18136
8	2639	21634	24272	1425	47	7039	18706	43	292	19040
9	2896	21554	24450	1326	50	7057	18769	-13	296	19052
10	3036	21396	24432	1316	53	7235	18566	6	295	18867
11	2218	21456	23674	1294	48	7113	17903	13	301	18216
12	1604	21458	23062	1282	54	6979	17420	50	238	17709
13	1234	21371	22605	1311	64	6959	17021	6	115	17142
14	1025	20704	21730	1336	76	6860	16282	13	5	16300
15	884	20492	21376	1344	86	6843	15964	7	3	15974
16	874	20770	21644	1375	70	7073	16016	14	0	16030
17	1086	21126	22213	1475	60	7125	16622	1	1	16625
18	1805	21456	23262	1487	30	6438	18340	14	0	18355
19	3122	21609	24731	1462	10	5560	20643	18	193	20854
20	2569	21521	24090	1428	16	5363	20170	-16	236	20390
21	1199	21421	22619	1430	29	4822	19256	-10	205	19451
22	834	21111	21945	1471	52	5095	18372	-18	55	18410
23	378	20302	20680	1477	79	5102	17134	9	35	17178
24	358	19339	19697	1463	94	4948	16306	4	0	16310

Hourly Load Generation Data of ER On Regional Lean Day During The Month of FEBRUARY'2021 (7-2-2021)

(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	263	18450	18713	1194	68	5939	14037	-4	17	14050
2	286	17242	17528	1150	176	5209	13645	4	23	13672
3	254	16697	16951	1161	255	4811	13556	1	28	13586
4	256	16490	16746	1217	255	4755	13464	-2	29	13491
5	201	17230	17431	1160	242	4932	13901	-6	33	13928
6	497	18206	18703	1354	211	5405	14863	-5	33	14891
7	1286	19759	21045	1322	166	6184	16348	-11	26	16363
8	2685	20972	23657	1304	137	7470	17627	0	27	17654
9	2590	21095	23684	1273	137	7525	17570	-31	17	17587
10	2519	21167	23686	1273	141	7835	17265	-21	41	17285
11	2623	21011	23634	1161	138	8015	16918	3	8	16929
12	1872	20979	22851	1131	145	7417	16710	10	6	16727
13	1504	20610	22115	1162	167	7147	16296	10	7	16313
14	1222	19614	20836	1171	163	6353	15818	3	6	15827
15	595	19403	19998	1207	164	6174	15195	1	2	15198
16	501	19926	20428	1268	175	6649	15222	31	0	15253
17	1070	20600	21670	1358	162	7713	15477	-3	1	15478
18	1797	20817	22614	1396	148	6775	17383	23	0	17406
19	2923	21211	24134	1376	136	5879	19768	21	102	19891
20	2895	21396	24291	1394	147	6259	19573	22	188	19784
21	1555	20964	22519	1388	163	5538	18531	-6	188	18713
22	877	20509	21385	1418	182	5327	17659	0	93	17752
23	314	19563	19877	1381	206	4812	16652	-9	225	16868
24	201	18404	18605	1355	212	4291	15880	-18	317	16180

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

FOR THE MONTH OF FEBRUARY'2021

POWER CUT / RESTRICTIONS

BSPHCL	NO NOTIFIED CUTS/RESTRICTIONS However there was loadsheding of 12.35 MU
JUVNL	NO NOTIFIED CUTS/RESTRICTIONS However there was loadsheding of 47.98 MU
DVC	NO NOTIFIED CUTS/RESTRICTIONS. However there was loadsheding of 0.00 MU
ODISHA	NO NOTIFIED CUTS/RESTRICTIONS However there was loadsheding of 0.00 MU
WEST BENGAL	NO NOTIFIED CUTS/RESTRICTIONS. However there was loadsheding of 1.49 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.

ANNEXURE-I

FREQUENCY DETAILS FOR THE MONTH OF **Feb-21**

D	H O U R S										INST. FREQ.				15 MIN. INTEGRATED			
A	00	05	10	17	22	00		49.9	>50.05	49.9								
T	TO	TO	TO	TO	TO	TO	<49.9	TO		TO	MAX	HRS.	MIN	HRS.	MAX	HRS.	MIN	HRS.
E	05	10	17	22	24	24		50.1		50.05	HZ		HZ		HZ		HZ	
01-Feb	49.99	50.00	49.97	50.02	50.00	49.99	5.40	77.40	17.20	77.40	50.23	6:01	49.78	11:38	50.07	0:00	49.86	0:00
02-Feb	49.95	49.97	49.98	50.01	49.95	49.97	9.20	78.00	12.80	78.00	50.16	22:02	49.75	7:12	50.08	0:00	49.81	0:00
03-Feb	49.99	50.00	50.00	50.03	50.01	50.01	1.90	75.70	22.50	75.70	50.21	22:00:40	49.79	12:53:20	50.08	0:00	49.88	0:00
04-Feb	50.00	49.97	49.99	50.02	50.03	50.00	5.50	71.80	22.70	71.80	50.19	06:02:20	49.79	06:26:50	50.08	0:00	49.88	0:00
05-Feb	49.97	49.98	49.98	50.01	50.02	49.99	8.60	73.10	18.30	73.10	50.16	07:03:10	49.72	16:15:40	50.08	0:00	49.82	0:00
06-Feb	49.97	50.01	49.99	50.01	49.98	49.99	4.10	77.60	18.30	77.60	50.20	06:02:20	49.83	22:15:50	50.08	0:00	49.90	0:00
07-Feb	50.00	50.02	49.99	49.98	50.02	50.00	3.70	75.30	21.00	75.30	50.20	06:01:50	49.84	15:45:30	50.08	0:00	49.89	0:00
08-Feb	49.98	50.00	49.95	50.00	49.97	49.98	10.80	72.80	16.40	72.80	50.23	18:01:47	49.76	14:20:04	50.11	0:00	49.79	0:00
09-Feb	49.96	49.96	49.98	50.00	49.99	49.98	10.20	75.30	14.50	75.30	50.16	06:01:50	49.74	07:12:00	50.06	0:00	49.82	0:00
10-Feb	49.97	49.96	49.99	50.01	49.96	49.98	7.10	77.80	15.10	77.80	50.18	18:02:20	49.74	06:12:20	50.06	0:00	49.86	0:00
11-Feb	49.98	50.01	49.98	50.01	49.95	49.99	5.80	75.40	18.80	75.40	50.31	18:01:40	49.78	06:12:10	50.08	0:00	49.85	0:00
12-Feb	49.99	49.99	50.00	50.01	49.99	50.00	3.30	78.10	18.60	78.10	50.24	06:01:50	49.79	05:46:50	50.13	0:00	49.88	0:00
13-Feb	50.00	50.02	50.00	50.00	49.97	50.00	1.40	78.80	19.80	78.80	50.21	06:02:10	49.83	12:08:00	50.09	0:00	49.92	0:00
14-Feb	49.99	50.01	50.02	50.01	50.02	50.01	1.20	74.60	24.20	74.60	50.25	18:02:10	49.82	00:08:40	50.13	0:00	49.93	0:00
15-Feb	50.01	50.02	49.98	50.02	50.01	50.00	2.00	76.80	21.30	76.80	50.22	18:02:50	49.83	16:55:00	50.08	0:00	49.91	0:00
16-Feb	49.98	49.99	50.00	50.01	49.97	49.99	3.60	79.00	17.40	79.00	50.20	18:03:10	49.82	12:20:00	50.08	0:00	49.89	0:00
17-Feb	49.98	50.02	49.99	49.98	49.96	49.99	4.90	78.30	16.80	78.30	50.18	13:02:10	49.81	16:44:30	50.08	0:00	49.90	0:00
18-Feb	49.96	49.99	49.95	49.99	49.98	49.97	11.80	77.60	10.70	77.60	50.14	18:04:40	49.78	15:45:40	50.05	0:00	49.86	0:00
19-Feb	49.98	49.97	49.97	50.00	50.01	49.98	6.80	77.80	15.30	77.80	50.20	17:03:10	49.77	02:40:20	50.09	0:00	49.87	0:00
20-Feb	49.98	50.03	49.99	49.99	49.96	49.99	6.20	71.10	22.70	71.10	50.24	22:01:40	49.81	01:34:10	50.11	0:00	49.85	0:00
21-Feb	49.95	49.99	49.97	49.98	49.97	49.97	8.50	81.40	10.10	81.40	50.21	17:03:50	49.68	0:00	50.06	0:00	49.88	0:00
22-Feb	49.98	49.96	49.93	49.99	49.95	49.96	16.00	72.50	11.50	72.50	50.21	22:00:20	49.78	05:50:10	50.07	0:00	49.74	0:00
23-Feb	49.98	49.97	49.98	50.00	49.92	49.98	9.80	78.10	12.00	78.10	50.23	18:02:40	49.78	23:18:50	50.07	0:00	49.84	0:00
24-Feb	49.98	49.97	49.98	49.94	49.93	49.97	12.80	77.70	9.50	77.70	50.19	11:59:10	49.77	23:36:40	50.07	0:00	49.85	0:00
25-Feb	49.94	49.92	49.96	49.95	50.00	49.95	20.80	71.10	8.10	71.10	50.14	22:00:20	49.60	06:54:10	50.06	0:00	49.72	0:00
26-Feb	50.00	49.97	49.99	49.97	49.97	49.98	7.40	82.00	10.60	82.00	50.15	15:02:40	49.77	07:10:50	50.06	0:00	49.87	0:00
27-Feb	50.01	50.00	49.97	49.99	49.91	49.98	7.50	77.00	15.50	77.00	50.24	06:04:00	49.80	16:54:20	50.10	0:00	49.87	0:00
28-Feb	50.00	50.01	50.00	50.00	50.00	50.00	3.30	73.10	23.60	73.10	50.23	18:01:50	49.81	06:25:50	50.09	0:00	49.89	0:00
MAX	50.01	50.03	50.02	50.03	50.03	50.01	20.80	82.00	24.20	82.00	50.31		49.85		50.13		49.93	
MIN	49.94	49.92	49.93	49.94	49.91	49.95	1.20	71.10	8.10	71.10	50.14		49.60		50.05		49.72	
AVG	49.98	49.99	49.98	50.00	49.98	49.99	7.13	76.26	16.62	76.26	50.20		49.78		50.08		49.86	

SUMMARY:

Avg. Frquency : **50.0 Hz.**

Instantaneous Frequency :

Maximum Frequency : 50.31 Hz at 18:01 Hrs.

Minimum Frequency : 49.60 Hz at 06:54 Hrs.

15 Minutes Integrated Frequency :

Maximum Frequency : 50.13 Hz On 00/01/00 at 00:00 Hrs.

Minimum Frequency : 49.72 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	76.26	16.62

ANNEXURE-II

VOLTAGE ANALYSIS

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

(All figs. in kV)

PGCIL	**BINAGURI**		**MAITHON**		**JEERAT**		**BIHARSHARIFF**	
	MAX	**MIN**	**MAX**	**MIN**	**MAX**	**MIN**	**MAX**	**MIN**
	420	401	423	404	425	396	421	402

PGCIL	MUZAFFARPUR		JAMSHEDPUR		ROURKELA		JEYPORE	
	MAX	**MIN**	**MAX**	**MIN**	**MAX**	**MIN**	**MAX**	**MIN**
	415	396	418	396	418	406	425	405

ANNEXURE-III

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	345.5	350	350	354	1399.5
(incl. CESC)					
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 Feb-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	
			(28-02-21)	(29-02-20)		
Hirakud	192	180	188.56	190.35	189.72	01.02.21
Balimela	462	439	452.51	456.19	454.67	01.02.21
Rengali	123	109	116.93	121.47	118.00	01.02.21
Upperkolab	858	844	849.79	854.58	851.05	01.02.21
Indravati	642	625	635.82	637.66	637.09	01.02.21
Subernrekha	590	580	585.00	585.55	585.46	01.02.21

B. **CPP/IPP IMPORT by Eastern Region Constituents during Feb-21**

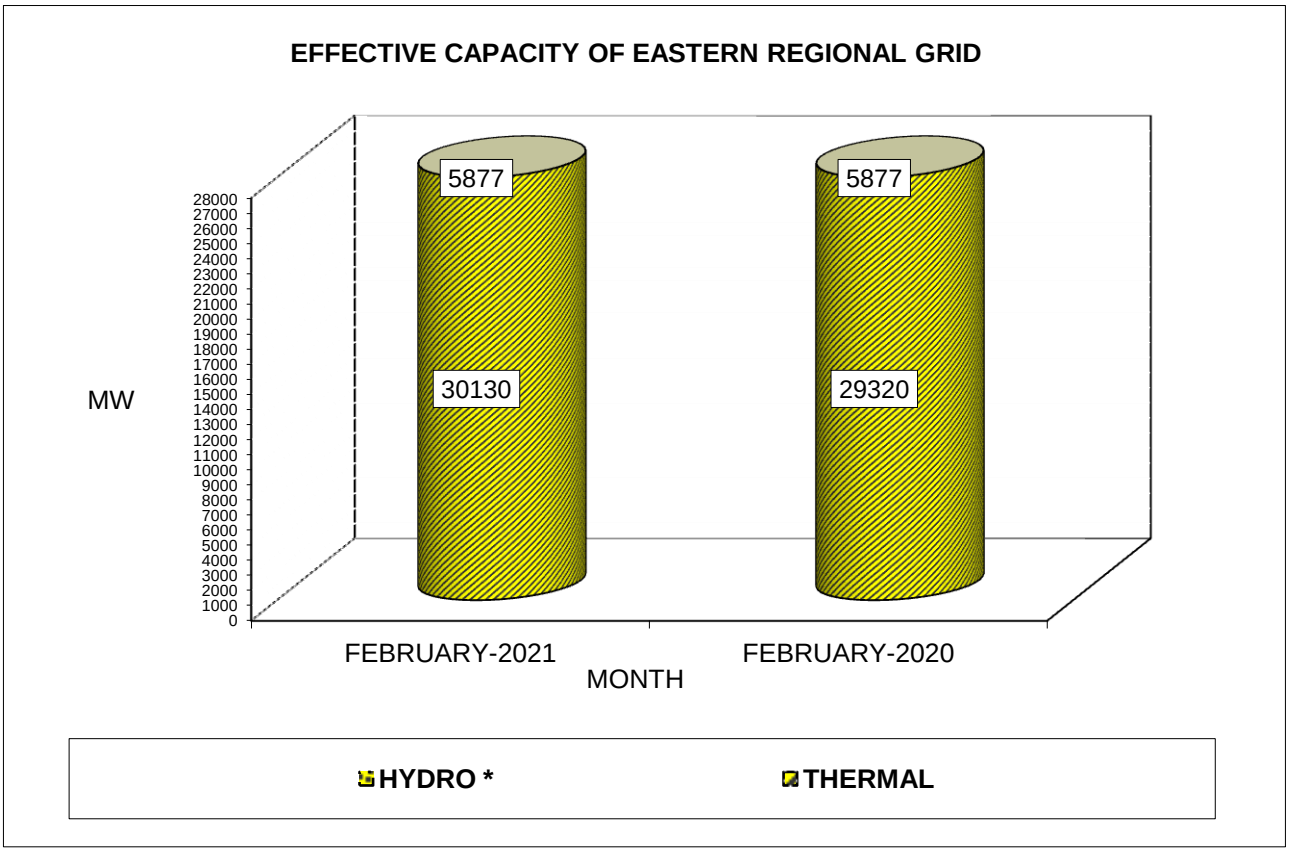
(All figs. are in MU)

System	Tata Power	Cresent Power	JSPL, Angul	Sterlite	Jindal	NALCO	TISCO	Others	Total
JUVNL	0	0	0	0	0	0	0	0	46.80
West Bengal	60.68	24.15	0	0	0	0	0	66.37	151.20
ODISHA	0	0	20.14	378.06	3.54	11.79	0	205.71	619.23
DVC	0	0	0	0	0	0	6.00	0	6.00
TOTAL	60.68	24.15	20.14	378.06	3.54	11.79	6.00	272.08	823.23

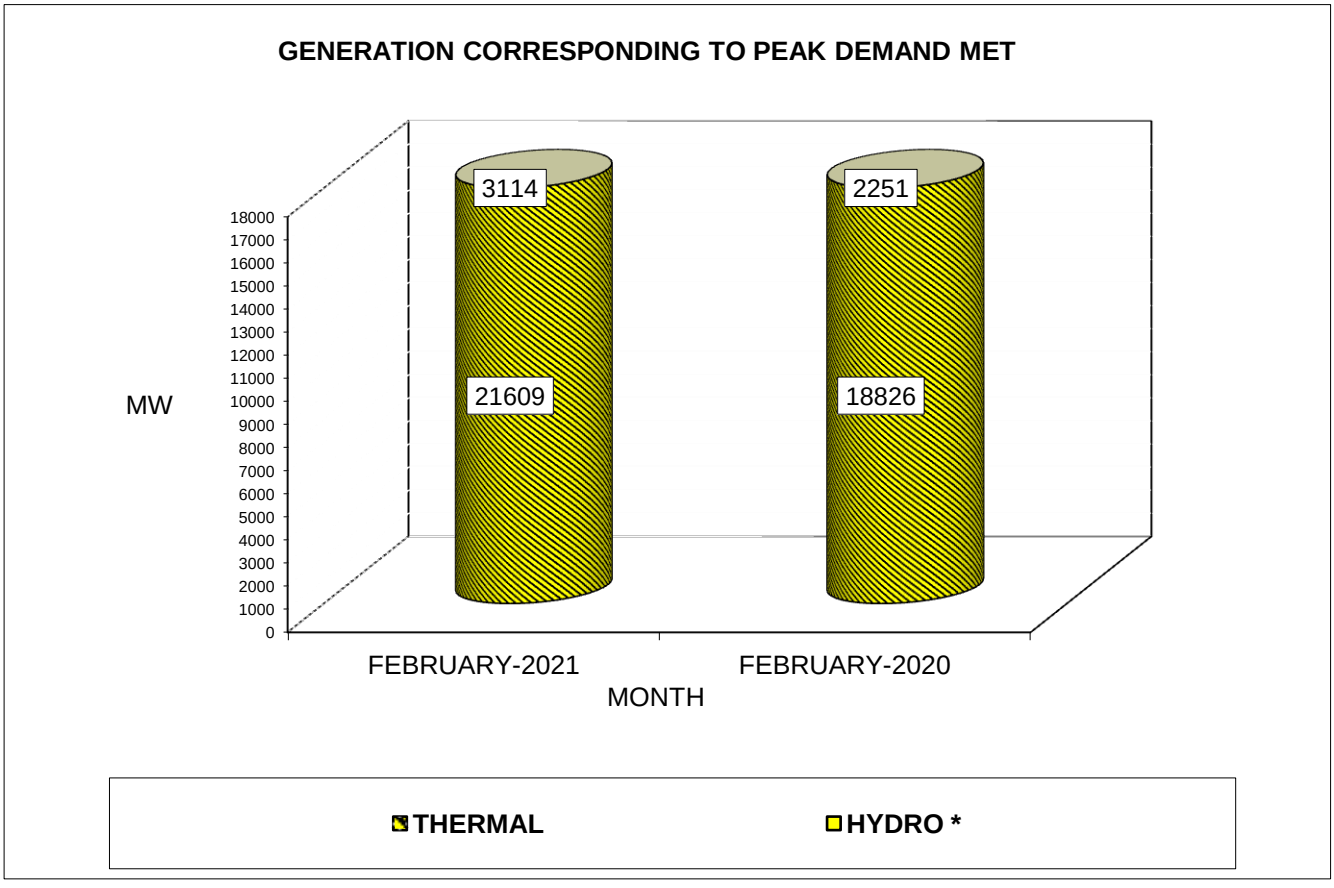
C. **Distribution of Schedule Supply among Key Customers by IPPs during Feb-21**

(All figs. are in MU)

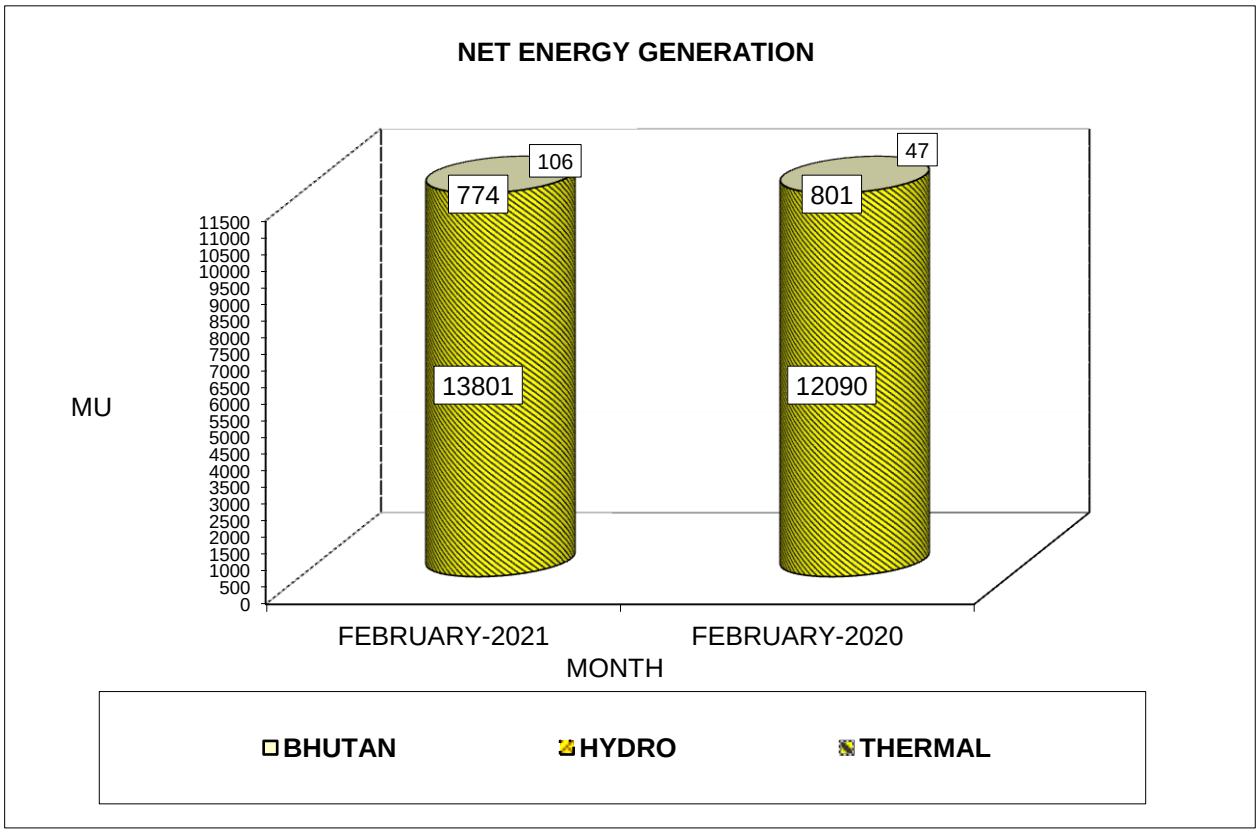
IPP	TPDDL	WBSEDCL/ WBPDCL	DVC	Sale at IEX/NPCL	ODISHA	JSEB	CTU/Others	Total (Excl. Tr. Loss)
MPL	101.27	101.74	46.39	0.00	0	0	122.34	371.74
Sterlite	0	0	0	0	0.00	0	0.00	0.00
APNRL	0	63.94	0	31.16	0.00	123.49	70.55	289.14
Total	101.27	165.68	46.39	31.16	0.00	123.49	192.89	660.88



*Excludes contribution from HEPs of Bhutan



*Includes contribution from HEP of Bhutan


NET ENERGY GENERATION
MU
11500
11000
10500
10000
9500
9000
8500
8000
7500
7000
6500
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
0
106
774
13801
47
801
12090
FEBRUARY-2021
FEBRUARY-2020
MONTH
BHUTAN
HYDRO
THERMAL

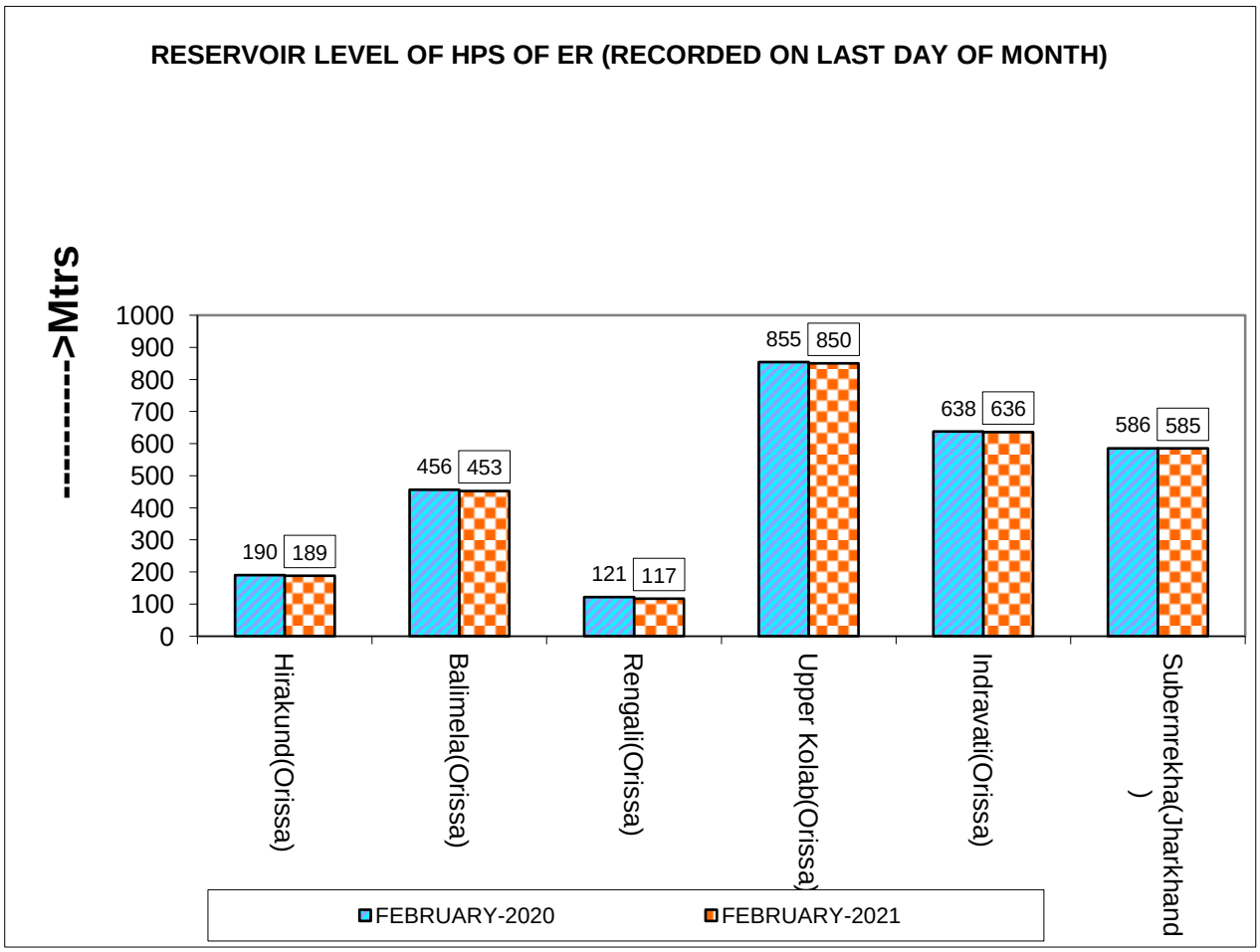
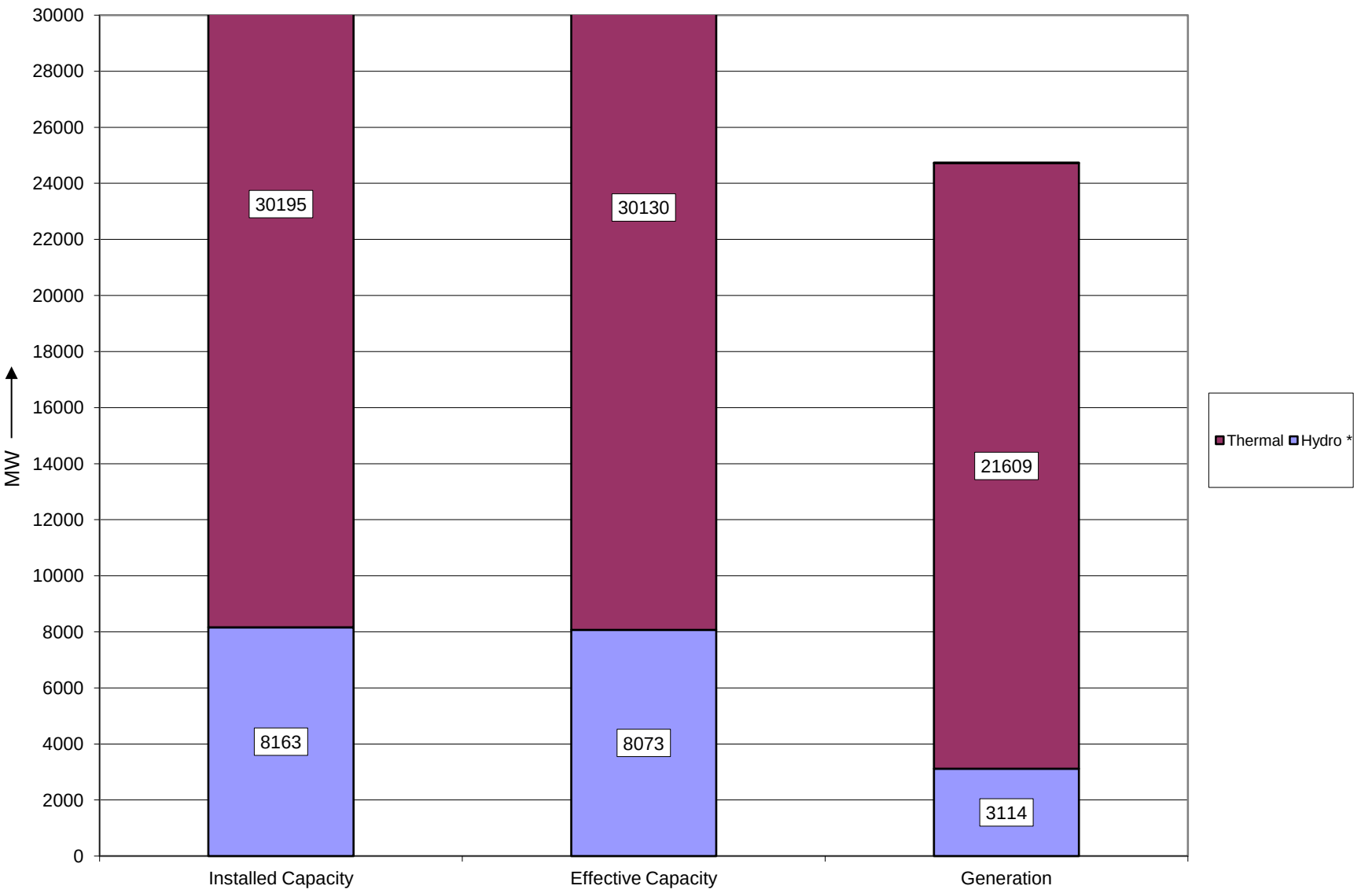

RESERVOIR LEVEL OF HPS OF ER (RECORDED ON LAST DAY OF MONTH)
---------->Mtrs
1000
900
800
700
600
500
400
300
200
100
0
190
189
456
453
121
117
855
850
638
636
586
585
Hirakund(Orissa)
Balimela(Orissa)
Rengali(Orissa)
Upper Kolab(Orissa)
Indravati(Orissa)
Subernrekha(Jharkhand)
FEBRUARY-2020
FEBRUARY-2021

EXHIBIT-III

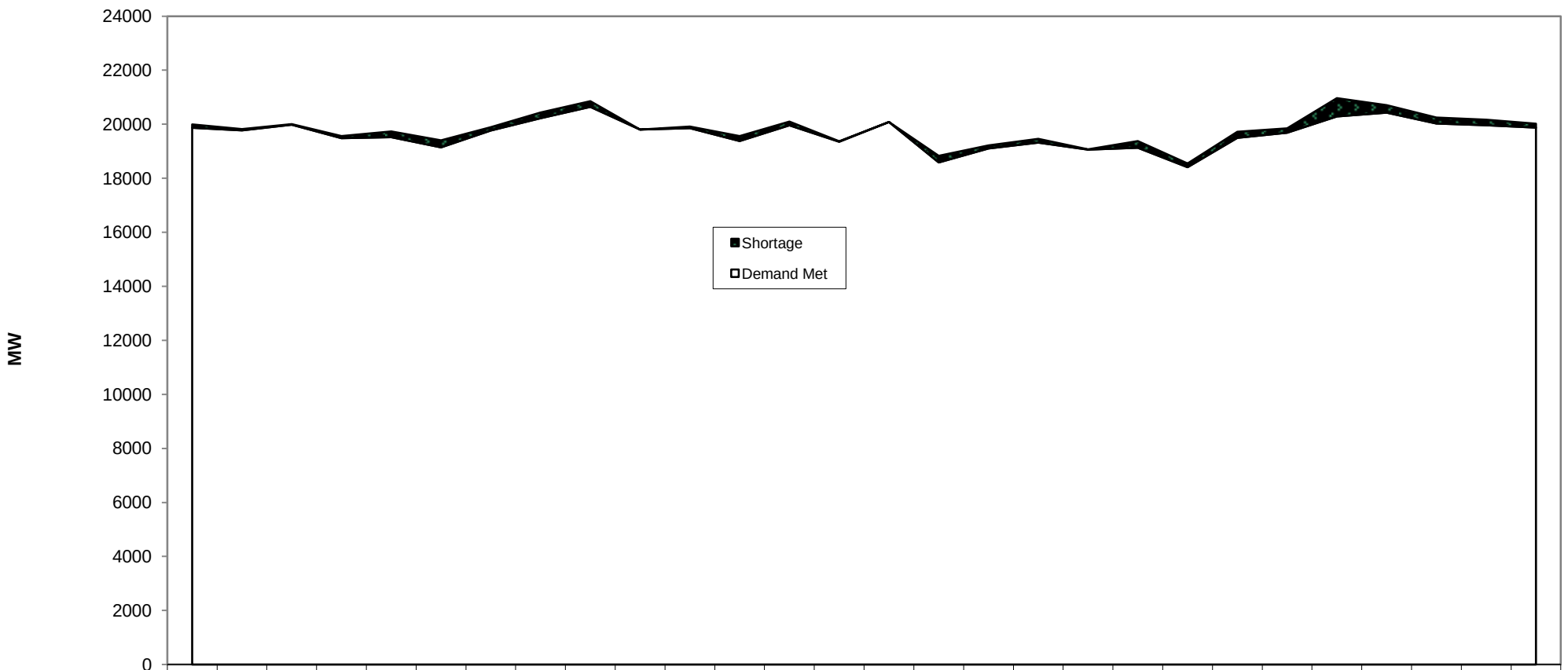
Capacity / Actual Generation Pattern of ER on Peak Day (9-2-2021) at 19.00 hrs.



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

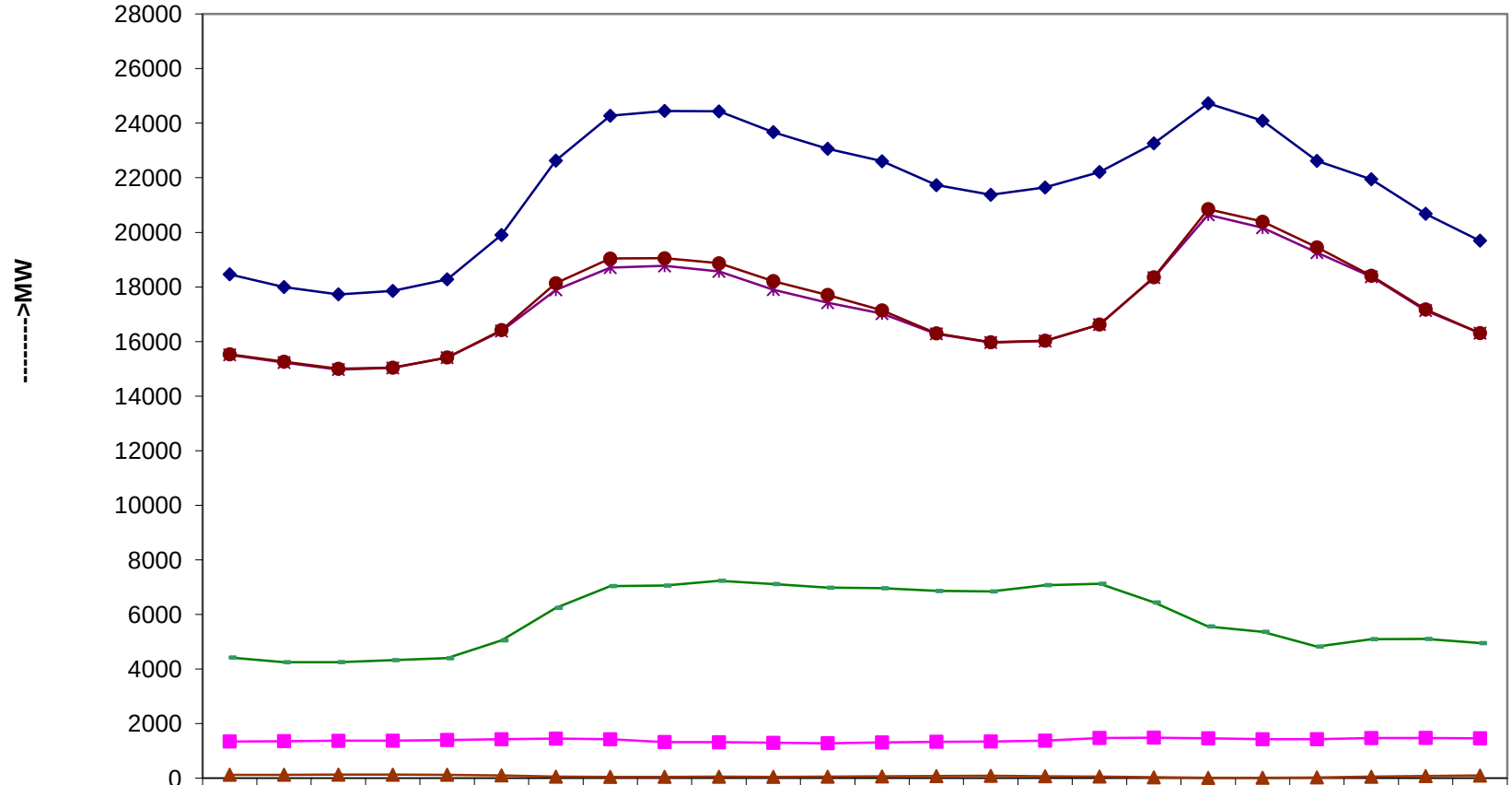
EXHIBIT-IV

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



	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Shortage	124	48	22	78	212	260	123	211	211	0	59	183	138	18	0	245	113	139	11	247	138	225	162	678	277	221	204	144
Demand Met	19869	19772	19983	19484	19521	19144	19768	20223	20643	19803	19855	19378	19960	19352	20083	18585	19103	19320	19060	19130	18410	19496	19685	20288	20429	20027	19963	19875

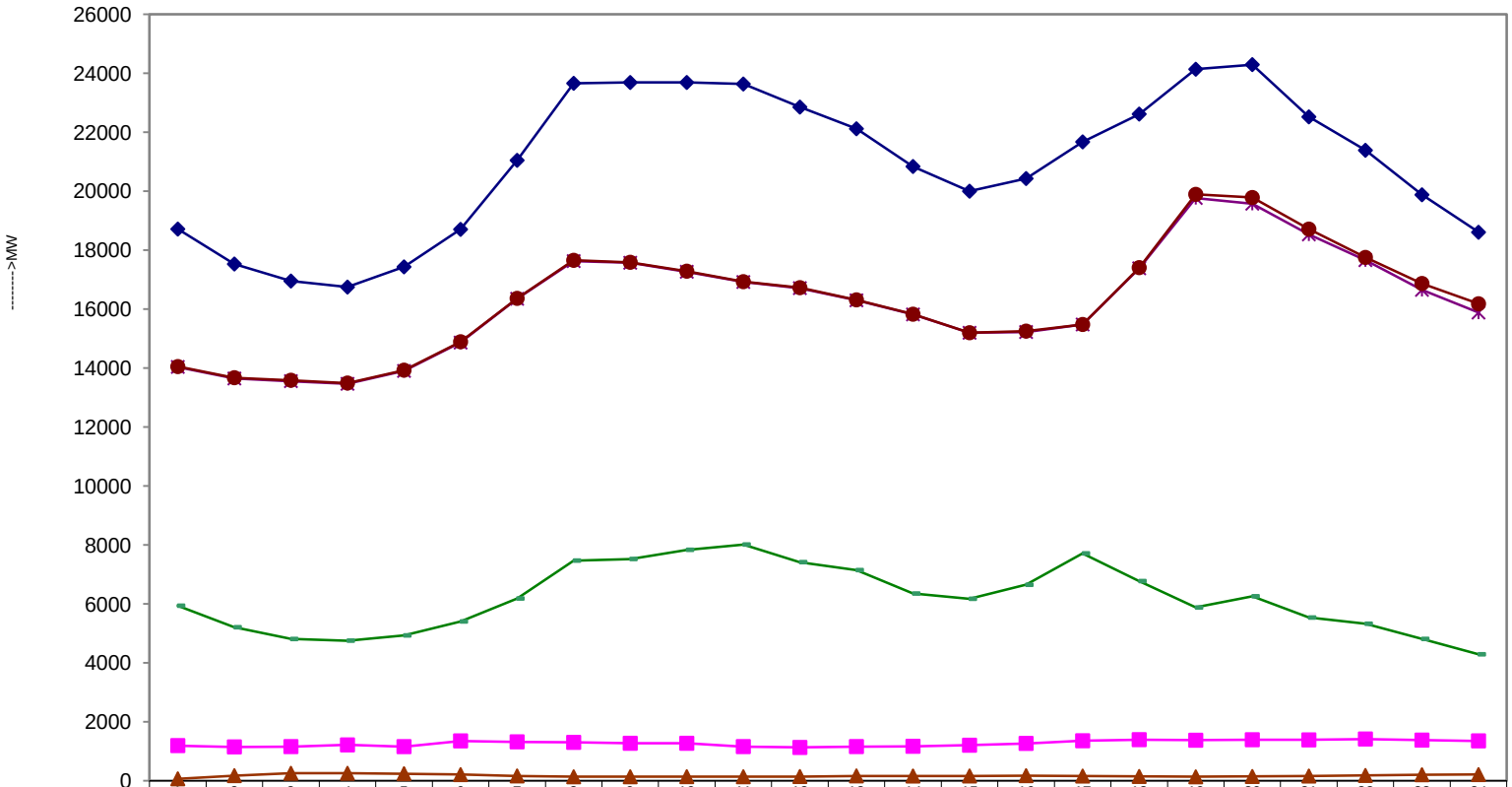
Hourly Load Generation Data OF ER On Regional Peak Day During The Month of FEBRUARY'2021 (9-2-2021)



	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
OWN GENERATION	18464	17996	17730	17856	18280	19904	22628	24272	24450	24432	23674	23062	22605	21730	21376	21644	22213	23262	24731	24090	22619	21945	20680	19697
IMPORT FROM CAPTIVE	1345	1358	1369	1373	1400	1427	1449	1425	1326	1316	1294	1282	1311	1336	1344	1375	1475	1487	1462	1427	1430	1471	1477	1463
IMPORT FROM CHPS ,KHPS & TALA	124	125	128	126	125	103	55	47	50	53	48	54	64	76	86	70	60	30	10	16	29	52	79	94
EXPORT TO OTHER REGION	4421	4249	4253	4325	4396	5050	6241	7039	7057	7235	7113	6979	6959	6860	6843	7073	7125	6438	5560	5363	4822	5095	5102	4948
DEMAND MET	15512	15230	14975	15030	15409	16384	17891	18706	18769	18566	17903	17420	17021	16282	15964	16016	16622	18340	20643	20170	19256	18372	17134	16306
REQUIREMENT	15533	15260	15002	15042	15418	16421	18136	19040	19052	18867	18216	17709	17142	16300	15974	16030	16625	18355	20854	20390	19451	18410	17178	16310

--------->Hrs.

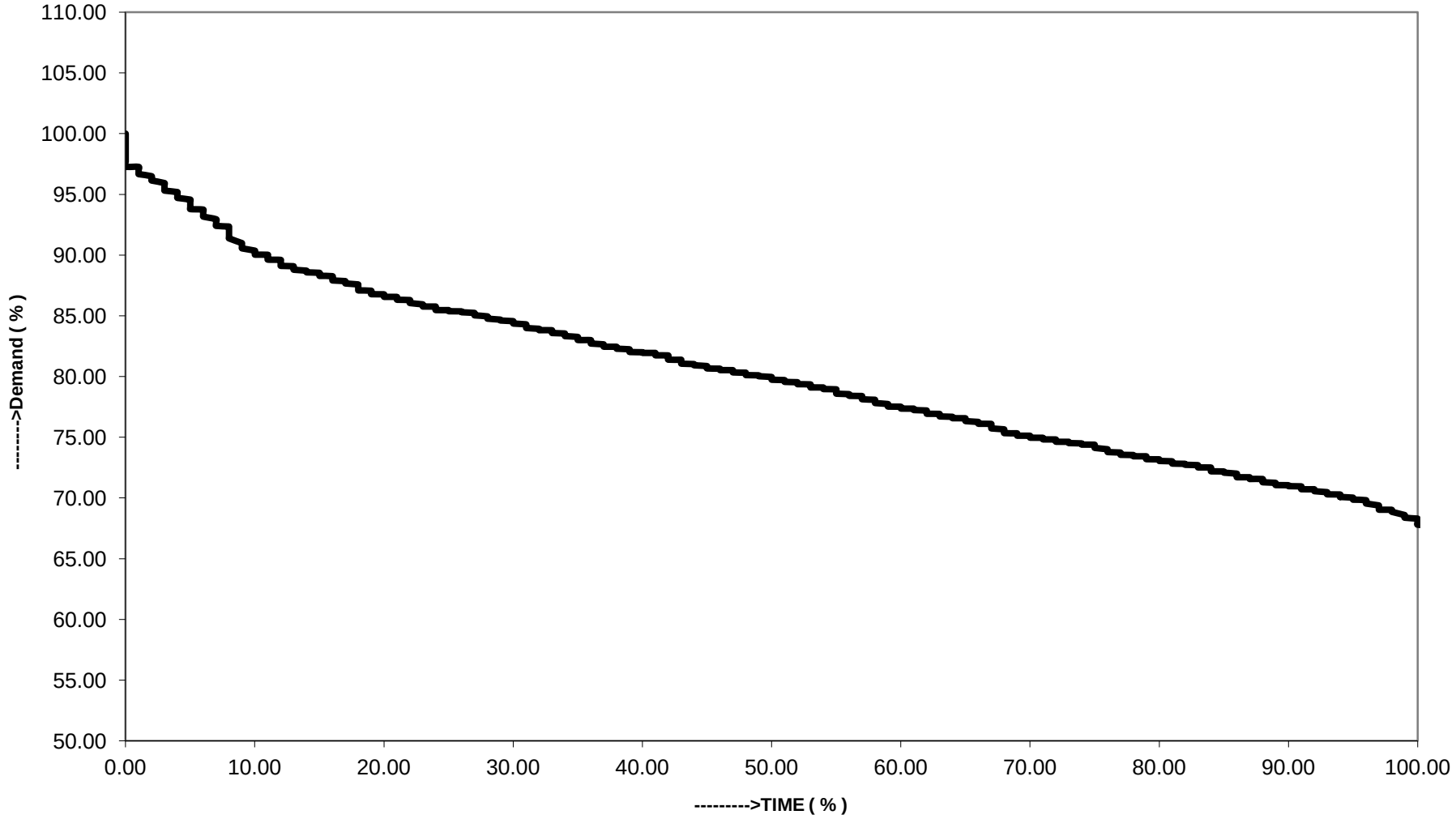
Hourly Load Generation Data of ER On Regional Lean Day During The Month of FEBRUARY'2021 (7-2-2021)



	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
OWN GENERATION	18713	17528	16951	16746	17431	18703	21045	23657	23684	23686	23634	22851	22115	20836	19998	20428	21670	22614	24134	24291	22519	21385	19877	18605
IMPORT FROM CAPTIVE	1194	1150	1161	1217	1160	1354	1322	1304	1273	1273	1161	1131	1162	1171	1207	1268	1358	1396	1376	1394	1388	1418	1381	1355
IMPORT FROM CHPS, KHPS,TALA	68	176	255	255	242	211	166	137	137	141	138	145	167	163	164	175	162	148	136	147	163	182	206	212
EXPORT TO OTHER REGION	5939	5209	4811	4755	4932	5405	6184	7470	7525	7835	8015	7417	7147	6353	6174	6649	7713	6775	5879	6259	5538	5327	4812	4291
DEMAND MET	14037	13645	13556	13464	13901	14863	16348	17627	17570	17265	16918	16710	16296	15818	15195	15222	15477	17383	19768	19573	18531	17659	16652	15880
REQUIREMENT	14050	13672	13586	13491	13928	14891	16363	17654	17587	17285	16929	16727	16313	15827	15198	15253	15478	17406	19891	19784	18713	17752	16868	16180

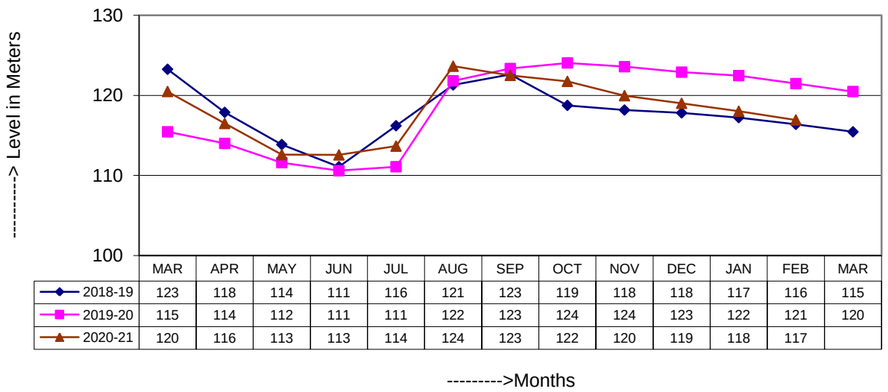
Monthly Load Duration Curve of Eastern Region for FEBRUARY-2021

Maximum Demand met : 20643 MW
Minimum Demand met: 13464 MW



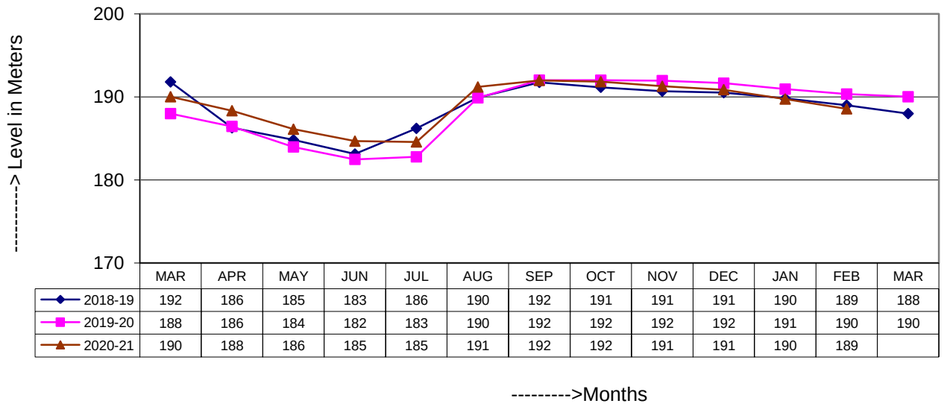
WATER LEVEL IN MAJOR RESERVOIRS ON LAST DATE OF MONTH

RENGALI RESERVOIR LEVEL



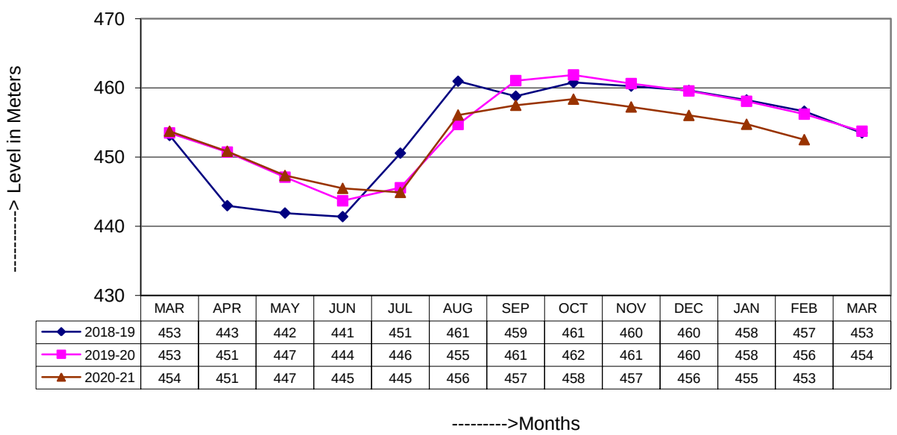
	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
2018-19	123	118	114	111	116	121	123	119	118	118	117	116	115
2019-20	115	114	112	111	111	122	123	124	124	123	122	121	120
2020-21	120	116	113	113	114	124	123	122	120	119	118	117	

HIRAKUD RESERVOIR LEVEL



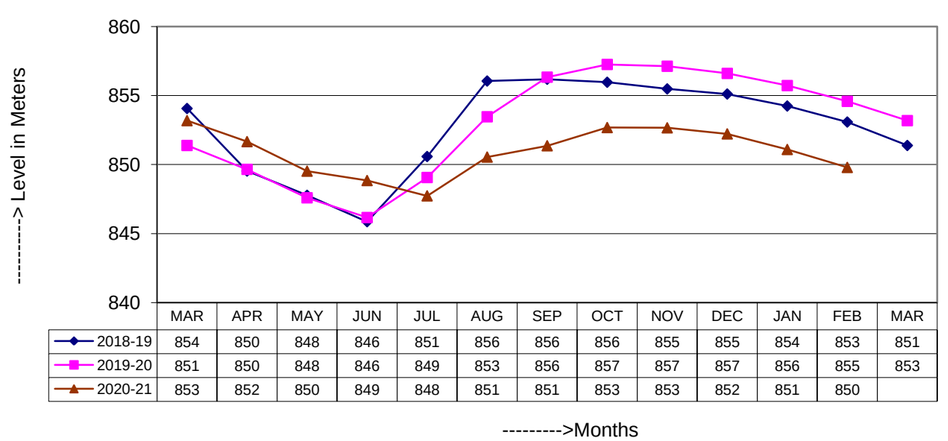
	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
2018-19	192	186	185	183	186	190	192	191	191	191	190	189	188
2019-20	188	186	184	182	183	190	192	192	192	192	191	190	190
2020-21	190	188	186	185	185	191	192	192	191	191	190	189	

BALIMELA RESERVOIR LEVEL



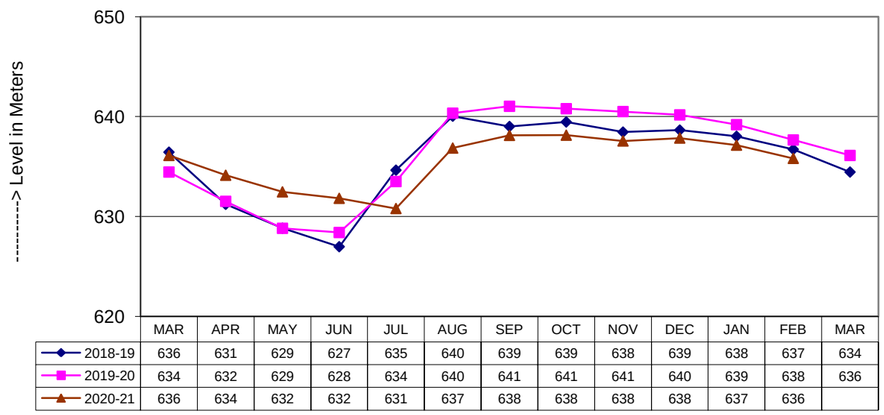
	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
2018-19	453	443	442	441	451	461	459	461	460	460	458	457	453
2019-20	453	451	447	444	446	455	461	462	461	460	458	456	454
2020-21	454	451	447	445	445	456	457	458	457	456	455	453	

UPPER KOLAB RESERVOIR LEVEL



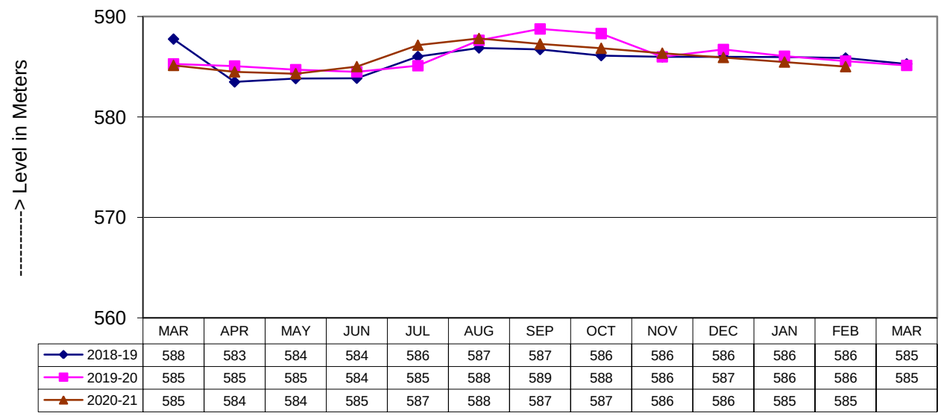
	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
2018-19	854	850	848	846	851	856	856	856	855	855	854	853	851
2019-20	851	850	848	846	849	853	856	857	857	857	856	855	853
2020-21	853	852	850	849	848	851	851	853	853	852	851	850	

INDRAVATI RESERVOIR LEVEL



	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
2018-19	636	631	629	627	635	640	639	639	638	639	638	637	634
2019-20	634	632	629	628	634	640	641	641	641	640	639	638	636
2020-21	636	634	632	632	631	637	638	638	638	638	637	636	

SUBERNREKHA RESERVOIR LEVEL



	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
2018-19	588	583	584	584	586	587	587	586	586	586	586	586	585
2019-20	585	585	585	584	585	588	589	588	586	587	586	586	585
2020-21	585	584	584	585	587	588	587	587	586	586	585	585	