



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

मई - 2021

MAY-2021



14, गोल्फ क्लब रोड, टोलीगंज

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Highlights of Eastern Regional Power System for May - 2021

- The **Maximum Net Demand** met of Eastern Region (ER) during the month of **May, 2021** was **24191 MW** which is 19.96% more than the **May, 2020** (20166 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 **May, 2021** was **429.83 MU** excluding export, which is 20.87% more than the corresponding period of last year (355.6 MU).
- **The Average regional PLF of thermal units during the month is 69.48 %**, which is 15.63% more than the corresponding period of the last year (53.85%).

DVC (Koderma STPS) registered the highest **PLF** of 93.29%, followed by DVC (Bokaro A-I) 90.59% and WBPDC (Santalalih TPS) 90.47% during the month of **May, 2021**.
- **Maximum Net generation** was **27003 MW** against total **Effective Capacity of 39231.26 MW** (including import from Bhutan). At the time of Regional peak (**24191 MW** on 23.05.2021 at 23.00 hrs.) the generation was **26165 MW** and import from CPP was 1678 MW, Net export was 3652 MW.
- The system frequency in the IEGC recommended band (49.9 Hz to 50.05 Hz) remained for 74.50% of time during the month. **Average frequency** for the month was **50.00 Hz**. The instantaneous maximum and the minimum frequency touched were 50.28 Hz and 49.63 Hz respectively. The integrated (Fifteen minutes time block average) maximum and minimum frequency were **50.18 Hz** and **49.73 Hz** respectively (**refer Annexure-I**).
- The **Maximum Voltage** recorded **422 KV** at Jeerat 400 KV S/s whereas the minimum voltage recorded 374 KV at Muzaffarpur 400 KV S/s of Power grid.
- The **Maximum Export from ER to outside region** was 10952 MW (including Nepal and Bangladesh) on 28th May, 2021 at 01:00 hrs. Total net energy export during the month was 4162.90 MU (Inc.Transmission loss) MU which is corresponds to 25.35 % of ex-bus total generation 16423.26 MU of Eastern Region.
- The import from CPPs was 1064.33 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	7419	308	2274.73
WR	1260	4038	-768.98
SR	4226	0	1921.85
NER	1195	869	-65.10
BANGLADESH	945		639.34
NEPAL (via-CTU)	382		161.06
Total			4162.90
NEPAL by Bihar(NBPDCL)			71.36

SALIENT FEATURES

(YEAR TO YEAR COMPARISON)

		May-21		MAY-2020	CHANGE	% CHANGE
1)	Effective Capacity (end of the Month)					
	THERMAL (MW)	29670		30240	-570	-1.88
	HYDRO (MW)	5877	\$	5877	0	0
	DIESEL (MW)	0		0	0	0
	RES (MW)	1489		1489	0	0
	TOTAL (MW)	37035		37606	-571	-1.52
2)	Peak Demand (MW)	24191		20306	3885	19.13
3)	Peak Demand Met (MW)	24191		20166	4025	19.96
4)	Shortage (MW)	0		140	-140	0.00
5)	% Shortage	0.00		0.69	-0.69	0.00
6)	Average Energy Requirement Per Day (MU)	430.89		360.37	70.52	19.57
7)	Average Energy Availability Per Day (MU)	429.83		355.60	74.23	20.87
8)	Average Shortage Per Day (MU)	1.06		4.77	-3.71	-77.83
9)	% Shortage	0.25		1.32	-1.08	-81.46
10)	Net Generation for the Month					
	Thermal (MU)	14171.10		11143.75	3027.35	27.17
	Hydro (MU)	2160.82	*	2751.96	-591.14	-21.48
	RES (MU)	91.35		155.83	0.00	-
	Total (MU)	16423.26		14051.54	2371.72	16.88
11)	Generation at the Time of Max. Regional Demand Met (23-05-21 at 23.00 Hrs.)					
	Thermal (MW)	21490		18605	2885	15.51
	Hydro (MW)	4659	*	5177	-518	-10.01
	RES(MW)	16		39	-23	-58.66
	Total (MW)	26165		23821	2344	9.84
12)	Inter-Regional Energy Transfer					
	Export (MU)	4996.98		4670.46	326.52	6.99
	Import (MU)	834.08		949.66	-115.58	-12.17
	Net Exp.(+)/Net Imp.(-) (MU)	4162.90		3720.81	442.09	11.88
13)	Import From Captive(MU)	1064.33		764.99	299.34	39.13
14)	Peak Inter Regional Power Transfer					
	Max Export (MW) on 28-05-21 at 01.00Hrs	10952		9762	1190	12.19
	Max Import (MW) on 18-05-21 at 15.00Hrs	4191		3442	749	21.75
	Max Net Export(+)/Import (-) (MW)	10952		8666	2286	26.38
15)	Maximum voltage recorded	422		JEERAT	400 kv	s/s
16)	Minimum voltage recorded	388		MUZAFFARPUR	400 kv	s/s

\$ Excludes 2196 MW contribution from HEPs of Bhutan

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

POWER SUPPLY POSITION FOR THE MONTH OF MAY*2021

A) Net Average Energy Per Day

System	Demand Met (MU/Day)	Requirement (MU/Day)	Shortage (MU/Day)	% Shortage
BSPHCL	96.03	96.90	0.87	0.89
JUVNL	26.68	26.84	0.16	0.59
DVC	60.05	60.06	0.02	0.03
ODISHA	99.08	99.11	0.03	0.03
WBSEDCL	117.16	117.66	0.50	0.42
CESC	28.79	28.80	0.01	0.03
SIKKIM	1.51	1.51	0.00	0.03
REGION	429.83	430.89	1.06	0.25

B) Peak Demand in MW:

System	Demand Met (MW)	Requirement (MW)	Shortage (MW)	% Shortage
BSPHCL	5919	5927	7	0.12
JUVNL	1557	1566	9	0.58
DVC	2965	2965	0	0.00
ODISHA	5643	5643	0	0.00
WBSEDCL	6928	6928	0	0.00
CESC	1814	1817	3	0.1
SIKKIM	98	98	0	0.00
REGION	24191	24191	0	0.00

➤ **DIVERSITY FACTOR : 1.03**

➤ **Regional Peak Demand Met on 23-5-2021 at 23.00 hrs. at 50.02 Hz.**

CONSTITUENT-WISE PERFORMANCE DATA MAY-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	Gross Peak Demand	
	HYDRO	Thermal	RES (Hy+Solar)	Total	HYDRO	Thermal	Solar	Total	HYDRO	Thermal	Solar	Total							
BSPHCL	0.00	137.42	16.39	153.81	0.00	21.21	0.00	21.21	0.00	116.22	16.39	132.61	0.00	2844.45	2977.06	96.0	5919	5970	
JUVNL	0.53	102.25	0.00	102.78	0.00	12.65	0.00	12.65	0.53	89.60	0.00	90.13	62.64	674.43	827.20	26.7	1557	1575	
DVC	12.99	3450.96	0.00	3463.95	0.13	243.95	0.00	244.07	12.86	3207.02	0.00	3219.88	15.75	-1374.22	1861.41	60.0	2965	3303	
ODISHA(OPGC+OHPC+TTPS)	309.51	946.55	60.86	1316.92	4.47	70.86	0.00	75.33	305.04	875.70	60.86	1241.59	820.18	1009.81	3071.58	99.1	5643	5755	
WBPDC+WBSEDCL+DPL	119.41	2529.88	11.83	2661.13	0.00	221.50	0.00	221.50	119.41	2308.38	11.83	2439.63	165.77	1026.69	3632.08	117.2	6928	7280	
CESC	0.00	506.42	0.00	506.42	0.00	38.93	0.00	38.93	0.00	467.49	0.00	467.49	0.00	425.15	892.64	28.8	1814	1874	
HEL	0.00	380.12	0.00	380.12	0.00	29.90	0.00	29.90	0.00	350.22	0.00	350.22	0.00	-350.22					
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	45.68	46.68	1.5	98	98	
NTPC	0.00	5212.79	1.27	5214.06	0.00	392.04	0.00	392.04	0.00	4820.75	1.27	4822.02	0.00	-4822.02					
MPL	0.00	671.59	0.00	671.59	0.00	38.96	0.00	38.96	0.00	632.63	0.00	632.63	0.00	-632.63					
APNRL	0.00	290.01	0.00	290.01	0.00	26.01	0.00	26.01	0.00	264.00	0.00	264.00	0.00	-264.00					
GMR	0.00	406.27	0.00	406.27	0.00	29.30	0.00	29.30	0.00	376.97	0.00	376.97	0.00	-376.97					
JITPL	0.00	708.40	0.00	708.40	0.00	46.26	0.00	46.26	0.00	662.14	0.00	662.14	0.00	-662.14					
NHPC (Inc TLDP= 53.02MU)	424.56	0.00	0.00	424.56	0.00	0.00	0.00	0.00	424.56	0.00	0.00	424.56	0.00	-424.56	0.00				
CHUZACHEN HPS	39.93	0.00	0.00	39.93	0.00	0.00	0.00	0.00	39.93	0.00	0.00	39.93	0.00	-39.93	0.00				
DIKCHU HPS	56.93	0.00	0.00	56.93	0.00	0.00	0.00	0.00	56.93	0.00	0.00	56.93	0.00	-56.93	0.00				
JORHANG HPS	23.13	0.00	0.00	23.13	0.00	0.00	0.00	0.00	23.13	0.00	0.00	23.13	0.00	-23.13	0.00				
TASHIDING HPS	20.55	0.00	0.00	20.55	0.00	0.00	0.00	0.00	20.55	0.00	0.00	20.55	0.00	-20.55	0.00				
TEESTA-III HPS	565.25	0.00	0.00	565.25	0.00	0.00	0.00	0.00	565.25	0.00	0.00	565.25	0.00	-565.25	0.00				
RONGNICHU HEP	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	0.00				
CHPC(Birpara Receipt)	131.95	0.00	0.00	131.95	0.00	0.00	0.00	0.00	131.95	0.00	0.00	131.95	0.00	-131.95	0.00				
KHPS	20.67	0.00	0.00	20.67	0.00	0.00	0.00	0.00	20.67	0.00	0.00	20.67	0.00	-20.67	0.00				
THPS	174.76	0.00	0.00	174.76	0.00	0.00	0.00	0.00	174.76	0.00	0.00	174.76	0.00	-174.76	0.00				
DAGACHU HPS	19.76	0.00	0.00	19.76	0.00	0.00	0.00	0.00	19.76	0.00	0.00	19.76	0.00	-19.76	0.00				
Mangdechhu HEP	245.49	0.00	0.00	245.49	0.00	0.00	0.00	0.00	245.49	0.00	0.00	245.49	0.00	-245.49	0.00				
Total Drawal by HVDC Sahsaram,Alipurduar & Kuruchhu HEP															16.05	16.05			
Total	2165.43	15342.66	91.35	17599.43	4.60	1171.55	0.00	1176.15	2160.83	14171.11	91.35	16423.28	1064.33	-4162.91	13324.70	429.8	24191	25453	

3A

16423.28

13324.70

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

A) Net Average Energy

Month	2020-21					2021-22				
	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	323.27	324.20	0.93	0.29	50.00	495.89	497.87	1.98	0.40	49.99
MAY	355.60	360.37	4.77	1.32	50.00	429.83	430.89	1.06	0.25	49.99
JUNE	425.23	425.91	0.69	0.16	50.00	-	-	-	-	-
JULY	447.56	448.25	0.70	0.16	49.99	-	-	-	-	-
AUGUST	447.69	449.62	1.93	0.43	49.99	-	-	-	-	-
SEPTEMBER	465.31	465.52	0.20	0.04	49.99	-	-	-	-	-
OCTOBER	448.87	448.96	0.09	0.02	50.00	-	-	-	-	-
NOVEMBER	358.25	358.45	0.20	0.06	49.99	-	-	-	-	-
DECEMBER	361.19	361.95	0.76	0.21	50.00	-	-	-	-	-
JANUARY	385.74	386.81	1.07	0.28	49.99	-	-	-	-	-
FEBRUARY	395.83	397.69	1.86	0.47	49.99	-	-	-	-	-
MARCH	452.63	455.10	2.48	0.54	49.99	-	-	-	-	-

B) Peak in MW:

Month	2020-21					2021-22				
	Demand Met (MW)	Requirement (MW)	Shortage (MW)	Shortage (%)	Avg. Freq. (HZ)	Demand Met (MW)	Requirement (MW)	Shortage (MW)	Shortage (%)	Avg. Freq. (HZ)
APRIL	18093	18302	209	1.14	50.00	24405	24405	0	0.00	49.99
MAY	20166	20306	140	0.69	50.00	24191	24191	0	0.00	49.99
JUNE	21832	21989	156	0.71	50.00	-	-	-	-	-
JULY	22643	22735	92	0.40	49.99	-	-	-	-	-
AUGUST	22192	22399	207	0.92	49.99	-	-	-	-	-
SEPTEMBER	23563	23619	56	0.24	49.99	-	-	-	-	-
OCTOBER	23374	23374	0	0.00	50.00	-	-	-	-	-
NOVEMBER	20406	20465	59	0.29	49.99	-	-	-	-	-
DECEMBER	19546	19697	151	0.77	50.00	-	-	-	-	-
JANUARY	20496	20703	207	1.00	49.99	-	-	-	-	-
FEBRUARY	20643	20854	211	1.01	49.99	-	-	-	-	-
MARCH	24016	24016	0	0.00	49.99	-	-	-	-	-

PERFORMANCE OF GENERATING STATIONS IN THE EASTERN REGION DURING THE MONTH OF MAY -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 (2021-22) in MU	Cummulative Net Energy Generation upto Current Month (2021-22) in MU	
BIHAR	NTPC	Barauni (U# 6,7)	220.00	210.00	3.87	1.88	3.92	1.28	
		Thermal	Barauni (U# 8)	250.00	250.00	107.60	92.58	269.30	230.81
		Barauni (U# 9)	0.00	0.00	0.00	0.00	0.00	0.00	
		Muzaffarpur Stg-I	220.00	220.00	25.95	21.76	137.98	120.45	
		Thermal Total	690.00	680.00	137.42	116.22	411.20	352.54	
	RES		341.25	341.25	16.39	16.39	37.41	37.41	
		Total BIHAR	1031.25	1021.25	153.81	132.61	448.61	389.95	
JHARKHAND									
TVNL	Thermal	TVNL	420.00	420.00	102.25	89.60	271.18	239.38	
JSEB	Hydro	Subarnrekha (U#1,2)	130.00	130.00	0.53	0.53	0.53	0.53	
	RES		46.75	46.75	0.00	0.00	0.00	0.00	
	Total		176.75	176.75	0.53	0.53	0.53	0.53	
DVC	Thermal	Bokaro-B(3)	210.00	210.00	0.00	-0.90	0.00	-1.78	
		Chandrapura(U7 # 8)	500.00	500.00	332.47	300.71	629.72	568.65	
		Durgapur(4)	210.00	210.00	0.00	-0.57	0.00	-1.06	
		Mezia(1,2,3,4,5,6)	1340.00	1340.00	665.03	596.48	1416.41	1272.63	
		Mezia(U # 7,8)	1000.00	1000.00	576.23	542.29	1156.57	1090.50	
		Bokaro-A(1)	500.00	500.00	337.01	319.39	570.23	538.78	
		Durgapur STPS (U#1,2)	1000.00	1000.00	470.61	441.98	1096.13	1034.25	
		Raghunathpur TPS (U#1,2)	1200.00	1200.00	375.52	350.62	932.05	874.61	
		Koderma STPS (U#1,2)	1000.00	1000.00	694.09	657.02	1335.10	1263.44	
	Total Thermal	6960.00	6960.00	3450.96	3207.02	7136.21	6640.02		
	Hydro	Maithon (U#1,2,3)	63.20	63.20	6.60	6.57	19.82	19.76	
		Panchet (U#1,2)	80.00	80.00	6.38	6.29	8.40	8.23	
		Tilaya (U#1,2)	4.00	4.00	0.01	0.0	0.01	0.0	
		Hydro Total	147.20	147.20	12.99	12.86	28.23	27.98	
		Total DVC	7107.20	7107.20	3463.95	3219.88	7164.44	6668.01	
WEST BENGAL									
WBPDC	Thermal	Bandel TPS	380.00	335.00	132.28	119.37	303.13	273.97	
		Santalidih TPS(U#5&6)	500.00	500.00	336.53	308.10	695.45	638.62	
		Kolaghat TPS	1260.00	1260.00	179.15	154.89	674.54	598.89	
		Bakreswar TPP	1050.00	1050.00	664.27	604.22	1427.51	1304.48	
		Sagardighi TPP	1600.00	1600.00	1060.93	980.63	2174.39	2011.32	
		DPPS (300+250 *)	550.00	550.00	156.72	141.17	413.42	372.52	
		Thermal Total	5340.00	5295.00	2529.88	2308.38	5688.44	5199.79	
WBSEDCL	Hydro	Jaldhaka (3x9+2x4)	35.00	35.00	13.12	13.12	21.74	21.74	
		Ramam (4x12.73)	51.00	51.00	13.06	13.06	20.70	20.70	
		Teesta C.F. (3x3x7.5)	67.50	67.50	1.18	1.18	1.18	1.18	
		Purulia PSS (4x225)	900.00	900.00	92.05	92.05	152.18	152.18	
		Total Hydro	1053.50	1053.50	119.41	119.41	195.80	195.80	
		RES	527.29	527.29	11.83	11.83	24.97	24.97	
➤ 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 MAY -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 (2021-22) in MU	Cummulative Net Energy Generation upto Current Month (2021-22) 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	4.54	4.08	45.73	41.59
		Budge-Budge (3x250)	750.00	750.00	501.88	463.41	1020.31	943.46
		Total CESC	1125.00	1125.00	506.42	467.49	1066.04	985.06
HEL	Thermal	HEL	600.00	600.00	380.12	350.22	799.77	739.55
		Total West Bengal	8645.79	8600.79	3547.67	3257.33	7775.02	7145.18
ODISHA	Thermal	IB TPS	420.00	420.00	247.45	217.80	484.55	427.89
OPGC		IB TPS U#3(660 MW)	660.00	660.00	288.23	271.24	569.00	531.07
		IB TPS U#4(660 MW)	660.00	660.00	410.88	386.65	585.59	548.34
OHPC	Hydro	Hirakud-I (Burla)	275.50	275.50	17.48	17.31	42.05	41.73
		Hirakud-II (Chiplima)	72.00	72.00	7.22	7.14	24.91	24.74
		Balimela (6x60+2x75)	510.00	510.00	71.11	70.19	141.66	139.86
		Rengali (5x50)	250.00	250.00	38.79	38.68	64.89	64.67
		Upper Kolab (4x80)	320.00	320.00	16.85	16.66	75.77	75.22
		Indravati HPS (4x150)	600.00	600.00	132.27	129.27	300.75	294.70
		Mckd.(Odisha drawal)	57.38	57.38	25.80	25.80	44.87	44.87
		Total Hydro	2084.88	2084.88	309.51	305.04	694.90	685.79
		RES	511.21	511.21	60.85	60.85	123.37	123.37
		Total Odisha	4336.09	4336.09	1316.92	1241.58	2457.40	2316.46
(**) SIKKIM	Hydro	RES	52.18	52.18	1.00	1.00	2.00	2.00
NTPC		MTPS Stg-II	390.00	390.00	202.14	180.26	451.82	406.09
		FSTPP# I&II (3x200+2x500)	1600.00	1600.00	754.28	689.02	1423.82	1299.31
		FSTPP (U# 6)	500.00	500.00	267.80	248.19	595.50	551.22
		KhSTPP (4x210+3x500)	2340.00	2340.00	1522.40	1416.15	3151.21	2935.24
		TSTPP (2x500)	1000.00	1000.00	638.61	589.60	1118.25	1031.99
		BARH STPS II (2X660)	1320.00	1320.00	555.15	516.26	1383.82	1300.36
		BARH STPS I (1X660)			0.00	0.00	8.94	8.94
		BRBCL # 1,2,3(3X250 MW)	750	750	430.48	394.99	937.63	864.94
		NSTPS U#I	660.00	660.00	393.02	372.33	813.74	772.16
		NSTPS U#II			0.00	0.00	1.64	0.00
		DSTPP #1	800.00	800.00	442.99	413.95	894.06	836.83
		DSTPP #2			5.92	0.00	29.38	14.12
		Total NTPC	9360.00	9360.00	5212.78	4820.74	10809.79	10012.25
NHPC	HYDRO	Rangit (3x20)	60.00	60.00	25.14	25.14	39.93	39.93
		Teesta (3x170)	510.00	510.00	282.02	282.02	432.83	432.83
		TLDP -(4x33+4x40)	292.00	292.00	117.40	117.40	170.42	170.42
		Total NHPC	862.00	862.00	424.56	424.56	643.18	643.18
		MPL (U#1&2)	1050.00	1050.00	671.59	632.63	1389.22	1310.73
		APNRL (U#1,2)	540.00	540.00	290.01	264.00	673.41	614.02
		GMR (2x350)	700.00	700.00	406.27	376.97	841.27	783.25
		JITPL (2X600)	1200.00	1200.00	708.40	662.14	1447.57	1354.94
		CHUZACHEN** (2x55)	110.00	110.00	39.93	39.93	56.99	56.99
		JORETHANG (2x48)	96.00	96.00	23.13	23.13	34.54	34.54
		TEESTA URJA St III (6x200)	1200.00	1200.00	565.25	565.25	835.27	835.27
		Tashilding (2x48.5)	97.00	97.00	20.55	20.55	32.26	32.26
		DICKCHU (2x48)	96.00	96.00	56.93	56.93	80.18	80.18
		RONGNICHU HEP			0.00	0.00	0.05	0.05
		TALCHER SOLAR	10.00	10.00	1.27	1.27	2.53	2.53
		Total Thermal (E.R)	29725.00	29670.00	15342.66	14171.10	32173.23	29738.84
		Total Hydro (E.R)	5876.58	5876.58	1572.79	1568.19	2601.94	2592.58
		Total RES	1488.68	1488.68	91.35	91.35	190.28	190.28
EASTERN REGIONAL		TOTAL (E.R)	37090.26	37035.26	17006.80	15830.63	34965.45	32521.70
BHUTAN	Hydro	CHPC(4x90)	360.00	270.00	131.95	131.95	166.72	166.72
	Hydro	Kurichu (4x15)	60.00	60.00	20.67	20.67	20.67	20.67
	Hydro	TALA (6x170)	1020.00	1020.00	174.76	174.76	191.62	191.62
	Hydro	DAGACHU (2x63)	126.00	126.00	19.76	19.76	30.18	30.18
		MANGDECHU(4x180)	720.00	720.00	245.49	245.49	336.54	336.54
Grand Total			39376.26	39231.26	17599.43	16423.26	35711.18	33267.43

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

ORGANI- SATION	TYPE	POWER STATION	INSTALLED CAPACITY	EFFECTIVE CAPACITY	Gross Energy Generation	PLF of Current Month	Cummulative Gross Energy Generation upto Current Month	Cummulative PLF upto Current Month
			(in MW)	(in MW)	in MU	(%)	(2021-22) in MU	(%)
BIHAR	NTPC	Barauni (U# 6,7)	220.00	210.00	3.87	2.48	3.92	1.28
	Thermal	Barauni (U# 8)	250.00	250.00	107.60	57.85	269.30	73.58
		Barauni (U# 9)	0.00	0.00	0.00	0.00	0.00	0.00
		Muzaffarpur Stg-I	220.00	220.00	25.95	15.86	137.98	42.84
		Thermal Total	690.00	680.00	137.42	27.16	411.20	41.30
	RES		341.25	341.25	16.39		37.41	
	Total BIHAR		1031.25	1021.25	153.81		448.61	
JHARKHAND								
TVNL	Thermal	TVNL	420.00	420.00	102.25	32.72	271.18	44.10
JSEB	Hydro	Subarnrekha (U#1,2)	130.00	130.00	0.53		0.53	
	RES		46.75	46.75	0.00		0.00	
	Total		176.75	176.75	0.53		0.53	
DVC	Thermal	Bokaro-B(3)	210.00	210.00	0.00	0.00	0.00	0.00
		Chandrapura(U7 # 8)	500.00	500.00	332.47	89.37	629.72	86.03
		Durgapur(4)	210.00	210.00	0.00	0.00	0.00	0.00
		Mezia(1,2,3,4,5,6)	1340.00	1340.00	665.03	66.71	1416.41	72.20
		Mezia(U # 7,8)	1000.00	1000.00	576.23	77.45	1156.57	79.00
		Bokaro-A(1)	500.00	500.00	337.01	90.59	570.23	77.90
		Durgapur STPS (U#1,2)	1000.00	1000.00	470.61	63.25	1096.13	74.87
		Raghunathpur TPS (U#1,2)	1200.00	1200.00	375.52	42.06	932.05	53.05
		Koderma STPS (U#1,2)	1000.00	1000.00	694.09	93.29	1335.10	91.20
	Total Thermal	6960.00	6960.00	3450.96	66.64	7136.21	70.04	
	Hydro	Maithon (U#1,2,3)	63.20	63.20	6.60		19.82	
		Panchet (U#1,2)	80.00	80.00	6.38		8.40	
		Tilaya (U#1,2)	4.00	4.00	0.01		0.01	
		Hydro Total	147.20	147.20	12.99		28.23	
		Total DVC	7107.20	7107.20	3463.95		7164.44	
WEST BENGAL								
WBPDC	Thermal	Bandel TPS	380.00	335.00	132.28	53.07	303.13	61.81
		Santalidih TPS(U#5&6)	500.00	500.00	336.53	90.47	695.45	95.01
		Kolaghat TPS	1260.00	1260.00	179.15	19.11	674.54	36.57
		Bakreswar TPP	1050.00	1050.00	664.27	85.03	1427.51	92.86
		Sagardighi TPP	1600.00	1600.00	1060.93	89.12	2174.39	92.83
		DPPS (300+250 *)	550.00	550.00	156.72	38.30	413.42	51.34
		Thermal Total	5340.00	5295.00	2529.88	64.22	5688.44	73.38
WBSEDCL	Hydro	Jaldhaka (3x9+2x4)	35.00	35.00	13.12		21.74	
		Ramam (4x12.73)	51.00	51.00	13.06		20.70	
		Teesta C.F. (3x3x7.5)	67.50	67.50	1.18		1.18	
		Purulia PSS (4x225)	900.00	900.00	92.05		152.18	
		Total Hydro	1053.50	1053.50	119.41		195.80	
		RES	527.29	527.29	11.83		24.97	
	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 MAY' 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 (2021-22) in MU	Cummulative PLF upto Current Month (%)
			(in MW)	(in MW)				
CESEC	Thermal	Titagarh (4x60)	240.00	240.00	0.00	0.00	0.00	0.00
		Southern (2x67.5)	135.00	135.00	4.54	4.52	45.73	23.14
		Budge-Budge (3x250)	750.00	750.00	501.88	89.94	1020.31	92.92
		Total CESC	1125.00	1125.00	506.42	60.50	1066.04	64.73
HEL	Thermal		600.00	600.00	380.12	85.15	799.77	91.05
		Total West Bengal	8645.79	8600.79	3547.67		7775.02	
ODISHA	Thermal	IB TPS	420.00	420.00	247.45	79.19	484.55	78.80
OPGC		IB TPS U#3(660 MW)	660.00	660.00	288.23	58.70	569.00	58.89
		IB TPS U#4(660 MW)	660.00	660.00	410.88	83.67	585.59	60.60
OHPC	Hydro	Hirakud-I (Burla)	275.50	275.50	17.48		42.05	
		Hirakud-II (Chiplima)	72.00	72.00	7.22		24.91	
		Balimela (6x60+2x75)	510.00	510.00	71.11		141.66	
		Rengali (5x50)	250.00	250.00	38.79		64.89	
		Upper Kolab (4x80)	320.00	320.00	16.85		75.77	
		Indravati HPS (4x150)	600.00	600.00	132.27		300.75	
		Mckd.(Odisha drawal)	57.38	57.38	25.80		44.87	
		Total Hydro	2084.88	2084.88	309.51		694.90	
		RES	511.21	511.21	60.85		123.37	
		Total Odisha	4336.09	4336.09	1316.92		2457.40	
(**) SIKKIM	Hydro	RES	52.18	52.18	1.00		2.00	
NTPC		MTPS Stg-II	390	390	202.14	69.67	451.82	79.13
		FSTPP# I&II (3x200+2x500)	1600.00	1600.00	754.28	63.36	1423.82	60.78
		FSTPP (U# 6)	500.00	500.00	267.80	71.99	595.50	81.35
		KhSTPP (4x210+3x500)	2340.00	2340.00	1522.40	87.45	3151.21	91.99
		TSTPP (2x500)	1000.00	1000.00	638.61	85.83	1118.25	76.38
		BARH STPS II (2X660)	1320.00	1320.00	555.15	56.53	1383.82	71.61
		BARH STPS I (1X660)			0.00		8.94	
		BRBCL # 1,2,3(3X250 MW)	750.00	750.00	430.48	77.15	937.63	85.39
		NSTPS U#I	660.00	660.00	393.02	80.04	813.74	84.22
		NSTPS U#II			0.00		1.64	
		DSTPP #1	800.00	800.00	442.99	74.43	894.06	76.34
		Total NTPC	9360.00	9360.00	5212.78	74.77	10809.79	78.59
NHPC	HYDRO	Rangit (3x20)	60.00	60.00	25.14		39.93	
		Teesta (3x170)	510.00	510.00	282.02		432.83	
		TLDP -(4x33+4x40)	292.00	292.00	117.40		170.42	
		Total NHPC	862.00	862.00	424.56		643.18	
	Thermal	MPL (U#1&2)	1050.00	1050.00	671.59	85.97	1389.22	90.37
		APNRL (U#1,2)	540.00	540.00	290.01	72.18	673.41	85.18
		GMR (2x350)	700.00	700.00	406.27	78.01	841.27	82.09
		JITPL (2X600)	1200.00	1200.00	708.40	79.35	1447.57	82.40
		CHUZACHEN** (2x55)	110.00	110.00	39.93		56.99	
		JORETHANG (2x48)	96.00	96.00	23.13		34.54	
		TEESTA URJA St III (6x200)	1200.00	1200.00	565.25		835.27	
		Tashilding (2x48.5)	97.00	97.00	20.55		32.26	
		DICKCHU (2x48)	96.00	96.00	56.93		80.18	
		RONGNICHU HEP			0.00		0.05	
		TALCHER SOLAR	10.00	10.00	1.27		2.53	
		Total Thermal (E.R)	29725.00	29670.00	15342.66	69.48	32173.23	73.98
EASTERN REGIONAL		Total Hydro (E.R)	5876.58	5876.58	1572.79		2601.94	
		Total RES	1488.68	1488.68	91.35		190.28	
		TOTAL (E.R)	37090.26	37035.26	17006.80		34965.45	
BHUTAN	Hydro	CHPC(4x90)	360.00	270.00	131.95		166.72	
	Hydro	Kurichu (4x15)	60.00	60.00	20.67		20.67	
	Hydro	TALA (6x170)	1020.00	1020.00	174.76		191.62	
	Hydro	DAGACHU (2x63)	126.00	126.00	19.76		30.18	
		MANGDECHU(4x180)	720.00	720.00	245.49		336.54	
		Grand Total	39376.26	39231.26	17599.43		35711.18	

**CONTRIBUTIONS OF DIFFERENT CONSTITUENTS AT THE TIME OF REGIONAL PEAK
DURING THE MONTH OF MAY'2021 (23-5-2021)**

Date **23-May-21**
Time **23.00** **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	0	0	0
JUVNL	597	597	0	122	0	122
DVC	7107	7107	87	4802	0	4890
ODISHA	4336	4336	754	1171	16	1941
WBSEDCL	6371	6326	916	3297	0	4213
TLDP	292	292	135	0	0	135
HEL HALDIA	600	600	0	542	0	542
CESC	1125	1125	0	692	0	692
DPL	550	550	0	0	0	0
SIKKIM	52	52	0	0	0	0
NTPC	9360	9360	0	7741	0	7741
NHPC	570	570	557	0	0	557
CHUKHA	360	270	117	0	0	117
KURICHU	60	60	39	0	0	39
TALA	1020	1020	156	0	0	156
MPL	1050	1050	0	968	0	968
OPGC (660 MW)	0	0	0	0	0	0
APNRL	540	540	0	483	0	483
Kamalganga (GMR)	700	700	0	653	0	653
JITPL	1200	1200	0	1021	0	1021
Chuzachen	110	110	104	0	0	104
Jorethang	96	96	39	0	0	39
TEESTA URJA St III	1200	1200	1173	0	0	1173
Tashilding	97	97	43	0	0	43
DICKCHU	96	96	93	0	0	93
<u>Daghachu</u>	126	126	13	0	0	13
<u>Solar</u>	10	10	0	0	0	0
<u>Mangdechhu</u>	720	720	433	0	0	433
<u>Total</u>	39376	39231	4659	21490	16	26165
Import From Captive:						1678
Export To:						
NER						320
SR						1524
WR						-2344
NR						3033
Bangladesh						935
Nepal						184
Total						3652
➤ I Net Peak Demand Met (MW) :						24191

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

Hourly Load Generation Data OF ER On Regional Peak Day During The Month of MAY'2021 (23-5-2021)

(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	3193	20465	23658	1667	812	3289	22848	-24	183	23007
2	2509	20217	22726	1667	805	2819	22380	-2	89	22467
3	2610	19786	22395	1662	782	2739	22100	2	0	22102
4	2567	19881	22448	1721	756	3106	21819	88	0	21907
5	2548	19982	22529	1696	716	3489	21453	75	0	21528
6	2534	19820	22354	1694	678	4609	20116	46	0	20162
7	2225	19814	22038	1669	645	5001	19352	7	1	19359
8	2138	19103	21241	1612	643	3912	19584	-62	1	19585
9	2142	18273	20415	1514	664	3262	19331	-51	1	19332
10	2146	17460	19606	1429	736	2757	19014	-20	1	19014
11	2176	16684	18860	1369	734	2179	18783	15	1	18799
12	2166	17074	19240	1237	735	1862	19351	44	2	19397
13	2469	17007	19476	1357	731	1725	19840	56	5	19900
14	2552	16943	19495	1430	723	1308	20340	14	3	20357
15	2409	17285	19694	1452	704	1376	20474	30	3	20508
16	2426	18105	20532	1528	698	2177	20581	11	0	20591
17	2398	18190	20588	1597	682	2960	19907	3	0	19910
18	2222	18208	20431	1644	647	3794	18927	-5	0	18927
19	3005	18769	21774	1651	627	3781	20271	-11	0	20271
20	3123	20806	23928	1649	640	3575	22640	-18	3	22643
21	3329	21397	24726	1664	691	3621	23460	16	3	23479
22	3724	21500	25224	1671	723	3633	23985	-17	0	23985
23	3917	21490	25407	1678	758	3652	24191	-13	0	24191
24	3645	21404	25048	1698	800	3382	24164	34	0	24198

Hourly Load Generation Data of ER On Regional Lean Day During The Month of MAY'2021 (27-5-2021)

(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	3338	18226	21564	873	1321	9239	14518	4	44	14566
2	2881	17967	20848	891	1540	9220	14058	-10	44	14092
3	2638	17790	20428	949	1743	9148	13972	-12	46	14005
4	2922	17342	20264	882	1900	8585	14462	-14	46	14494
5	2933	16683	19616	887	1879	8619	13763	-2	47	13807
6	2782	16564	19346	905	1869	9108	13012	3	48	13064
7	2842	15954	18796	860	1792	8489	12959	3	48	13010
8	2882	15423	18304	807	1816	7811	13116	-14	49	13152
9	2834	14813	17647	712	1964	7079	13243	-10	98	13331
10	2808	14450	17258	684	2054	7133	12863	-5	93	12952
11	2827	14358	17184	619	2093	7597	12300	-5	91	12386
12	2844	14382	17226	628	2097	7650	12301	3	77	12382
13	2809	14062	16870	600	2081	7847	11705	5	78	11788
14	2703	14386	17089	647	2075	7883	11927	-6	72	11993
15	2831	14193	17024	674	2072	7733	12036	-7	35	12064
16	2775	13885	16660	751	2068	7338	12141	12	35	12188
17	2529	14563	17092	836	2066	8076	11918	-8	32	11942
18	2150	15739	17889	850	2053	8403	12390	-13	27	12404
19	2822	16189	19010	853	2046	7796	14113	0	24	14137
20	2893	16719	19612	847	2047	7703	14803	-1	22	14824
21	3061	16839	19900	911	1969	8278	14502	-9	19	14513
22	3525	17266	20791	1031	1986	9342	14465	6	16	14488
23	3660	17692	21351	1039	1997	10285	14103	1	14	14119
24	3686	17758	21444	1041	2029	10751	13763	25	14	13803

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

FOR THE MONTH OF MAY'2021

POWER CUT / RESTRICTIONS

BSPHCL	NO NOTIFIED CUTS/RESTRICTIONS However there was loadshedding of 26.00 MU
JUVNL	NO NOTIFIED CUTS/RESTRICTIONS However there was loadshedding of 4.71 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 14.37 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

May-21

D A T E	H O U R S										INST. FREQ.				15 MIN. INTEGRATED			
	00	05	10	17	22	00	49.9	>50.05	49.9		MAX	HRS.	MIN	HRS.	MAX	HRS.	MIN	HRS.
	TO	TO	TO	TO	TO	TO	<49.9	TO	TO		HZ		HZ		HZ		HZ	
	05	10	17	22	24	24		50.1	50.05									
01-May	49.95	50.03	50.00	49.98	49.89	49.98	8.70	73.30	18.00	73.30	50.28	18:02:50	49.73	23:22:00	50.12	0:00	49.81	0:00
02-May	50.00	50.00	50.01	50.00	50.03	50.01	3.10	70.70	26.20	70.70	50.16	15:03:10	49.84	00:03:40	50.12	0:00	49.90	0:00
03-May	50.00	50.01	49.98	50.02	49.97	50.00	4.80	75.40	19.90	75.40	50.23	18:01:50	49.78	11:09:00	50.13	0:00	49.88	0:00
04-May	49.97	50.00	50.00	50.01	50.02	50.00	5.30	71.60	23.20	71.60	50.21	18:01:40	49.78	01:42:10	50.10	0:00	49.85	0:00
05-May	50.01	50.02	50.01	49.97	49.94	50.00	4.10	72.70	23.20	72.70	50.15	18:02:20	49.83	21:27:10	50.09	0:00	49.87	0:00
06-May	49.96	49.99	50.02	49.99	49.95	49.99	6.30	75.70	18.00	75.70	50.17	06:01:10	49.76	22:20:00	50.09	0:00	49.84	0:00
07-May	49.99	50.00	49.97	49.97	50.02	49.98	7.20	80.30	12.50	80.30	50.17	16:04:10	49.79	10:19:30	50.08	0:00	49.88	0:00
08-May	50.00	50.00	49.97	49.94	49.99	49.98	8.90	80.50	10.60	80.50	50.12	16:05:00	49.79	13:46:30	50.08	0:00	49.85	0:00
09-May	49.98	50.01	50.00	50.01	50.00	50.00	1.20	82.40	16.40	82.40	50.21	15:03:20	49.85	12:48:20	50.11	0:00	49.92	0:00
10-May	50.00	49.99	49.96	50.03	50.00	49.99	7.40	76.40	16.20	76.40	50.21	18:31:30	49.76	15:47:40	50.14	0:00	49.84	0:00
11-May	49.99	49.99	50.02	50.00	49.94	49.99	4.30	79.30	16.40	79.30	50.20	18:01:30	49.73	22:35:50	50.08	0:00	49.79	0:00
12-May	49.98	50.04	50.00	50.05	50.05	50.02	4.60	65.70	29.70	65.70	50.25	18:02:40	49.79	14:41:40	50.14	0:00	49.85	0:00
13-May	50.00	50.02	49.99	49.97	50.02	50.00	6.00	76.70	17.30	76.70	50.23	08:44:30	49.75	14:14:00	50.18	0:00	49.83	0:00
14-May	49.95	49.98	50.00	49.98	49.94	49.98	13.80	70.40	15.70	70.40	50.23	18:02:20	49.75	05:11:30	50.10	0:00	49.84	0:00
15-May	50.01	50.02	49.97	49.99	49.99	49.99	6.20	75.30	18.50	75.30	50.13	18:00:50	49.78	13:46:00	50.08	0:00	49.82	0:00
16-May	50.00	50.04	49.97	49.98	49.98	50.00	6.50	73.50	20.00	73.50	50.20	10:01:20	49.80	13:52:50	50.11	0:00	49.82	0:00
17-May	49.98	50.01	49.98	49.98	50.01	49.99	6.75	74.69	18.56	74.69	50.15	22:01:19	49.72	14:11:19	50.08	0:00	49.87	0:00
18-May	49.96	50.03	50.01	49.97	49.98	49.99	6.00	72.30	21.70	72.30	50.19	10:00:10	49.78	04:24:40	50.12	0:00	49.77	0:00
19-May	49.97	49.99	49.99	49.98	49.97	49.98	10.30	74.70	15.00	74.70	50.14	10:35:20	49.74	01:39:50	50.09	0:00	49.82	0:00
20-May	50.01	50.03	49.99	49.99	50.03	50.00	5.20	67.20	27.60	67.20	50.17	10:40:50	49.78	05:38:20	50.12	0:00	49.79	0:00
21-May	50.03	50.02	50.00	49.94	50.03	50.00	6.90	67.40	25.70	67.40	50.17	08:02:10	49.80	17:58:30	50.17	0:00	49.85	0:00
22-May	49.97	49.96	49.99	50.01	49.94	49.98	9.70	76.60	13.70	76.60	50.23	08:00:50	49.80	12:17:30	50.17	0:00	49.85	0:00
23-May	49.96	50.02	49.96	50.01	49.99	49.99	8.50	75.30	16.20	75.30	50.23	08:00:50	49.80	12:17:30	50.17	0:00	49.85	0:00
24-May	49.99	50.02	49.96	49.97	49.98	49.98	8.50	78.30	13.20	78.30	50.13	16:03:10	49.80	22:19:00	50.08	0:00	49.86	0:00
25-May	49.97	49.98	49.96	49.97	49.98	49.97	13.60	76.00	10.40	76.00	50.13	10:00:30	49.77	21:18:50	50.06	0:00	49.84	0:00
26-May	49.98	50.01	49.99	49.97	49.97	49.99	6.00	78.56	15.45	78.56	50.18	08:02:10	49.82	21:41:30	50.10	0:00	49.86	0:00
27-May	50.01	50.01	50.00	50.01	49.97	50.00	3.20	76.50	20.30	76.50	50.15	18:02:40	49.76	23:18:40	50.07	0:00	49.86	0:00
28-May	49.95	50.00	49.96	49.98	49.88	49.97	15.40	70.30	14.30	70.30	50.23	08:01:30	49.63	22:39:30	50.13	0:00	49.73	0:00
29-May	49.99	49.99	50.01	50.01	50.04	50.00	3.40	73.50	23.10	73.50	50.14	17:02:20	49.75	00:07:00	50.10	0:00	49.87	0:00
30-May	50.01	50.03	50.02	50.00	49.93	50.01	3.90	69.90	26.20	69.90	50.19	17:32:50	49.80	22:18:50	50.14	0:00	49.86	0:00
31-May	49.96	50.00	50.02	50.00	49.99	50.00	0.32	78.24	21.44	78.24	50.17	13:02:10	49.86	14:13:20	50.10	0:00	49.93	0:00
MAX	50.03	50.04	50.02	50.05	50.05	50.02	15.40	82.40	29.70	82.40	50.28		49.86		50.18		49.93	
MIN	49.95	49.96	49.96	49.94	49.88	49.97	0.32	65.70	10.40	65.70	50.12		49.63		50.06		49.73	
AVG	49.98	50.01	49.99	49.99	49.98	49.99	6.65	74.50	18.86	74.50	50.19		49.78		50.11		49.85	

SUMMARY:

Avg. Frequency :

50.0 Hz.

Instantaneous Frequency :

Maximum Frequency : 50.28 Hz at 18.02.50 Hrs.

Minimum Frequency : 49.63 Hz at 22:39 Hrs.

15 Minutes Integrated Frequency :

Maximum Frequency : 50.18 Hz On 00/01/00 at 00:00 Hrs.

Minimum Frequency : 49.73 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	6.65	74.50	18.86

VOLTAGE ANALYSIS

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

(All figs. in kV)

PGCIL	BINAGURI		MAITHON		JEERAT		BIHARSHARIFF	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	421	399	417	396	422	389	420	389

PGCIL	MUZAFFARPUR		JAMSHEDPUR		ROURKELA		JEYPORE	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	418	388	412	396	414	396	422	400

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

May-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	
			(31-05-21)	(31-05-20)		
Hirakud	192	180	184.16	186.11	184.99	01.05.21
Balimela	462	439	446.14	447.32	446.53	01.05.21
Rengali	123	109	114.40	112.60	114.14	01.05.21
Upperkolab	858	844	845.72	849.52	845.86	01.05.21
Indravati	642	625	630.18	632.47	631.82	01.05.21
Subernrekha	590	580	585.58	584.30	584.39	01.05.21

B.

CPP/IPP IMPORT by Eastern Region Constituents during

May-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	62.64
West Bengal	65.28	26.83	0	0	0	0	0	73.67	165.77
ODISHA	0	0	34.20	365.17	4.29	23.04	0	393.48	820.18
DVC	0	0	0	0	0	0	15.75	0	15.75
TOTAL	65.28	26.83	34.20	365.17	4.29	23.04	15.75	467.14	1064.33

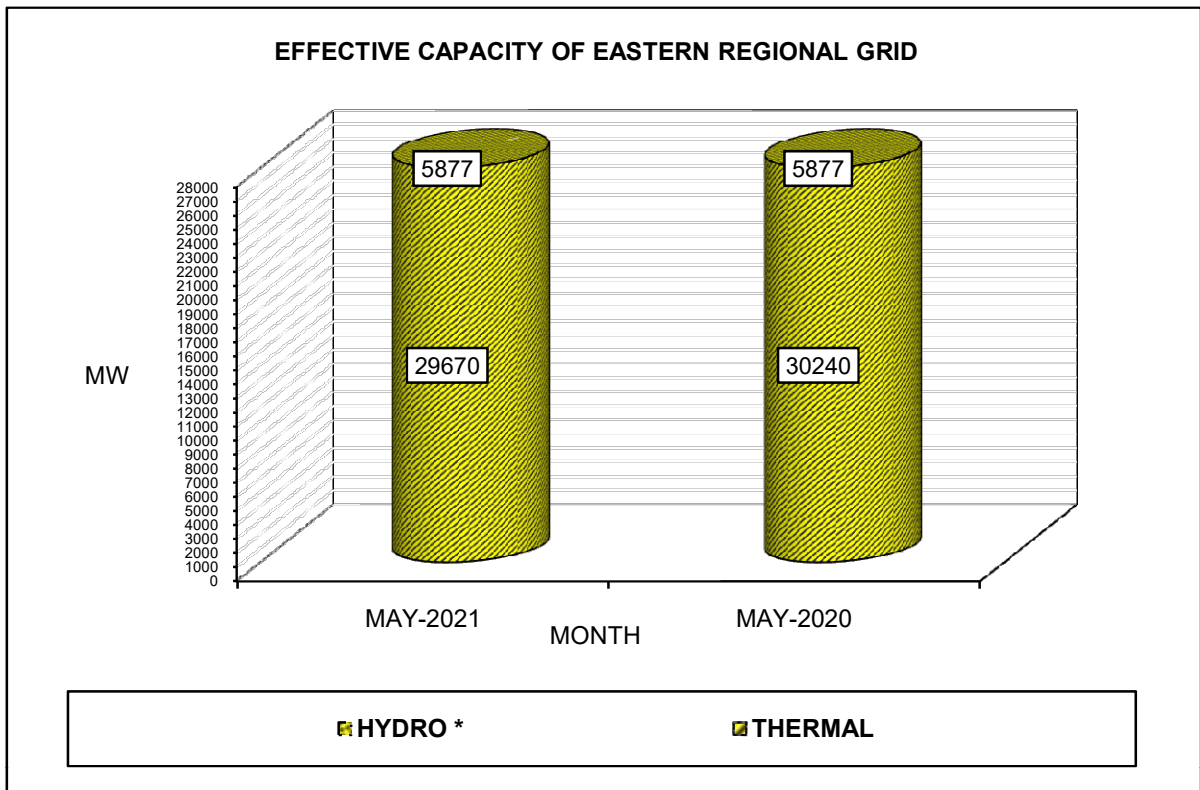
C.

Distribution of Schedule Supply among Key Customers by IPPs during

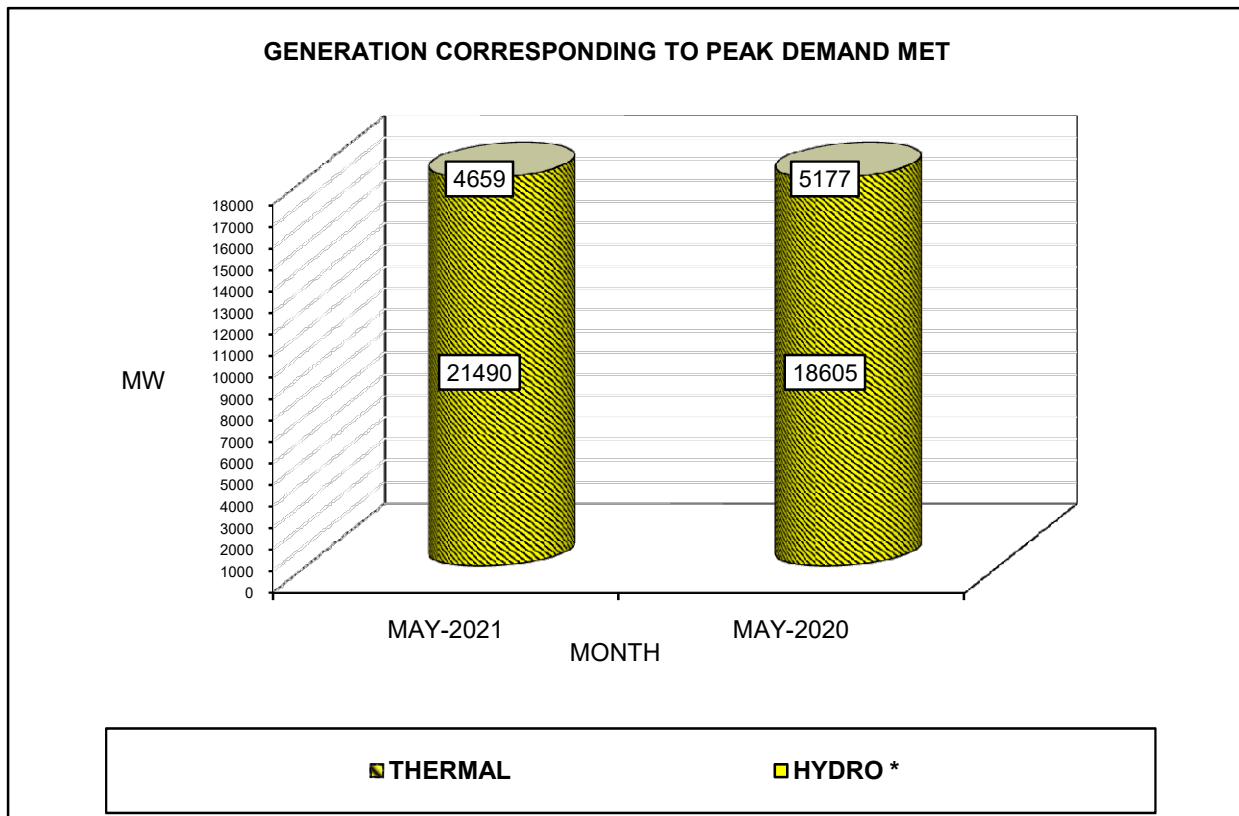
May-21

(All figs. are in MU)

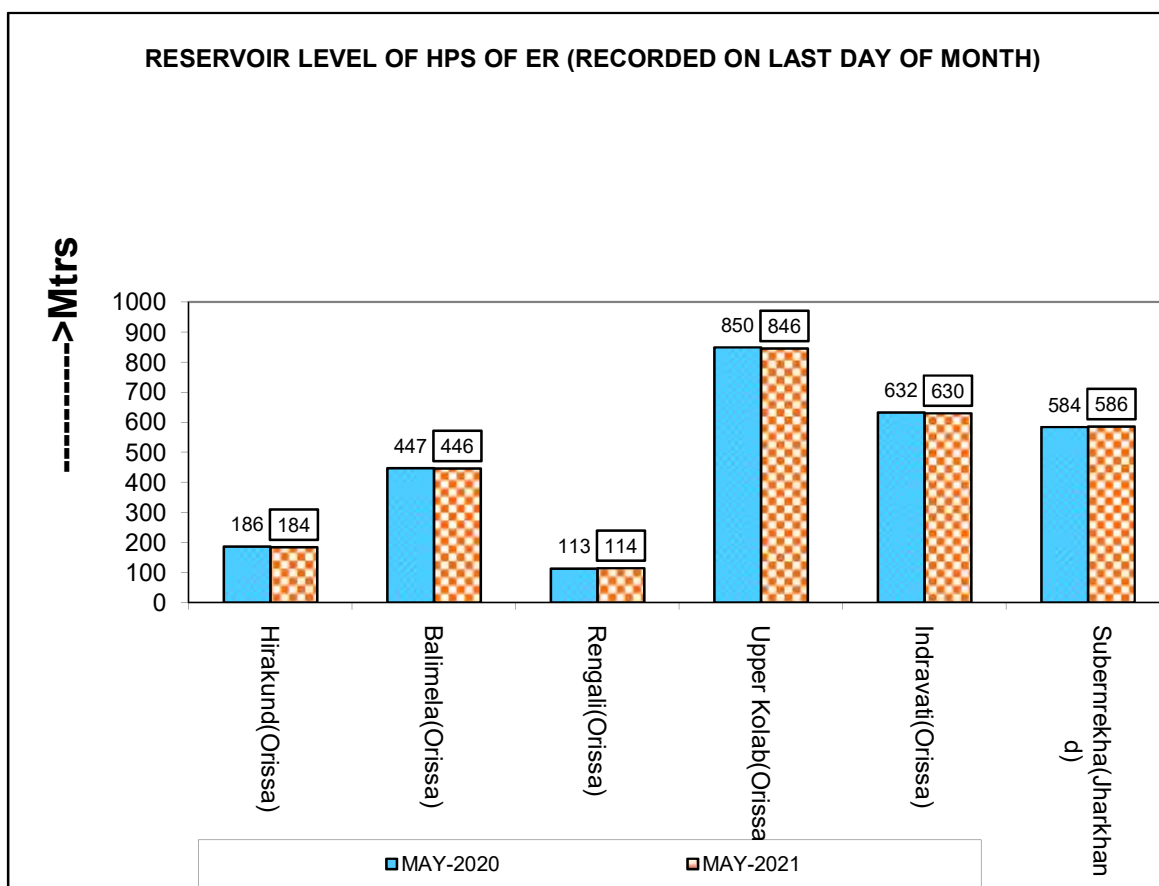
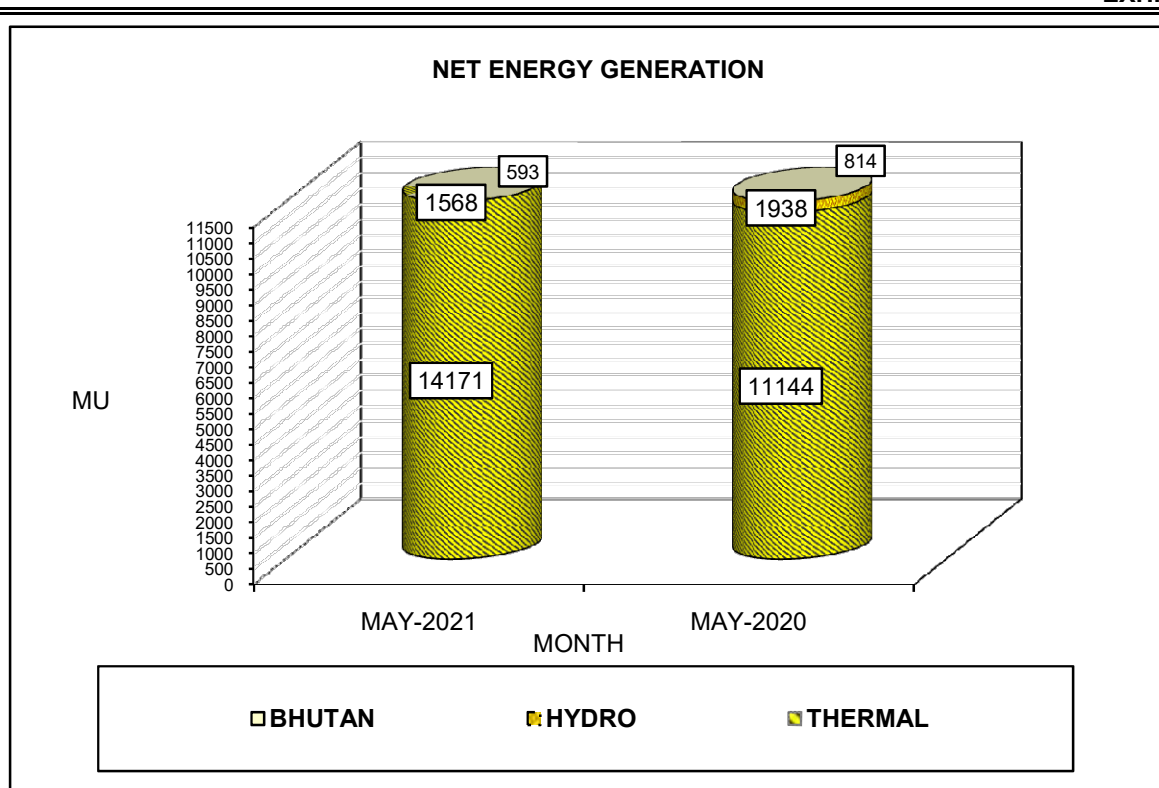
IPP	TPDDL	WBSEDCL/ WBPDCCL	DVC	Sale at IEX/NPCL	ODISHA	JSEB	CTU/Others	Total (Excl. Tr. Loss)
MPL	179.75	171.49	41.51	0.00	0	0	238.89	631.64
Sterlite	0	0	0	0	0.00	0	0.00	0.00
APNRL	0	0.00	0	0.00	0.00	0.00	0.00	0.00
Total	179.75	171.49	41.51	0.00	0.00	0.00	238.89	631.64



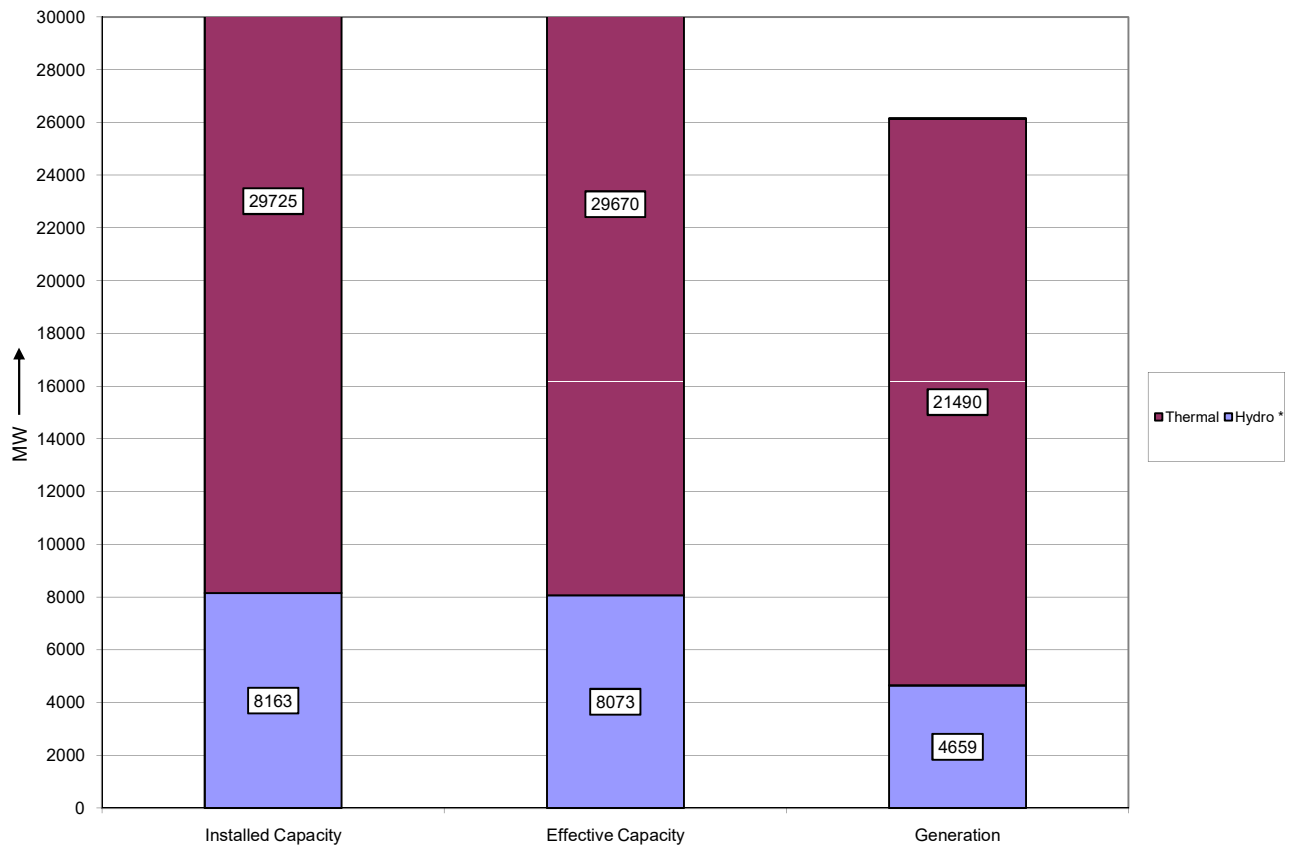
*Excludes contribution from HEPs of Bhutan



*Includes contribution from HEP of Bhutan

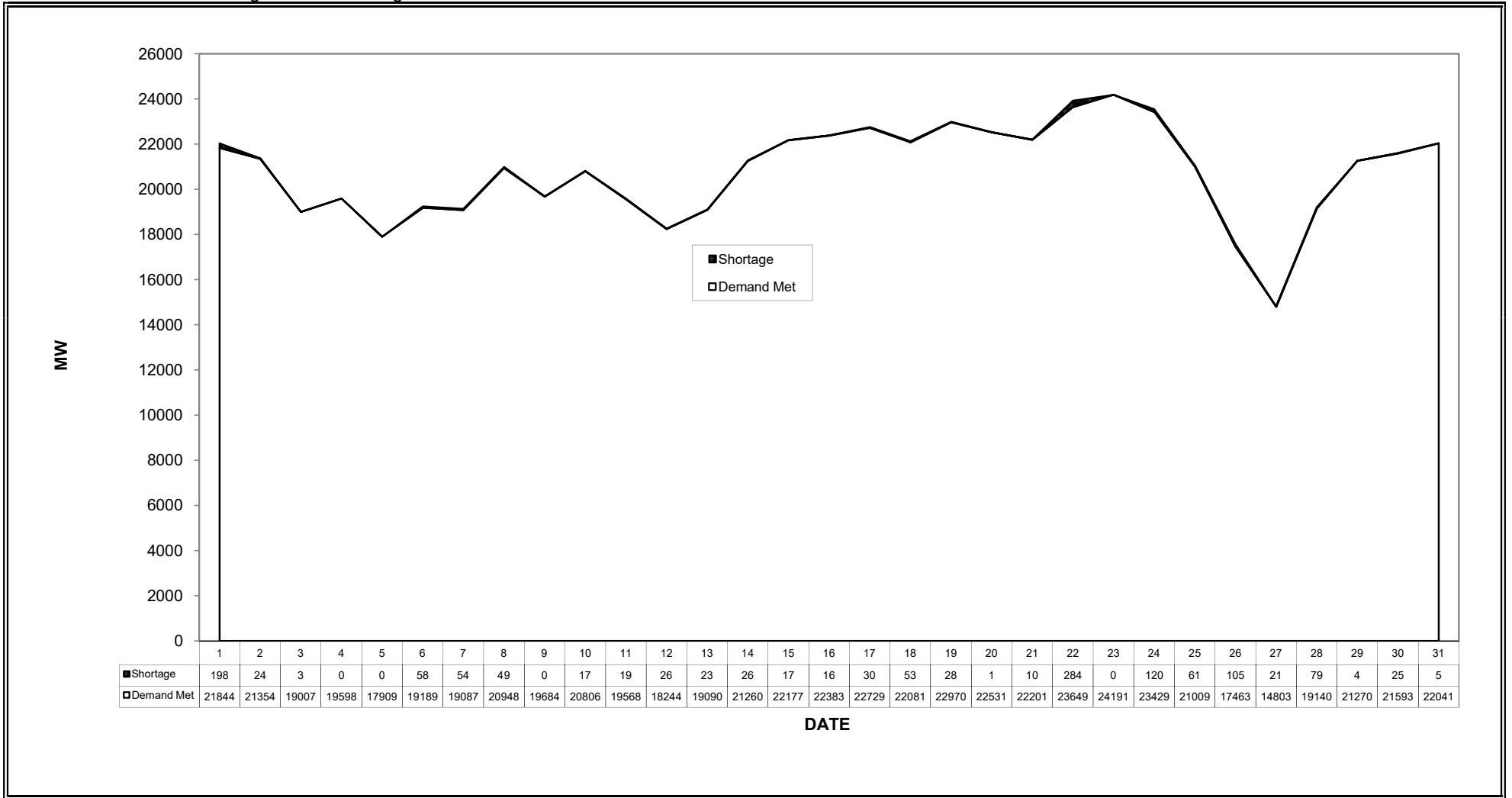


Capacity / Actual Generation Pattern of ER on Peak Day (23-5-2021) at 23.00 hrs.

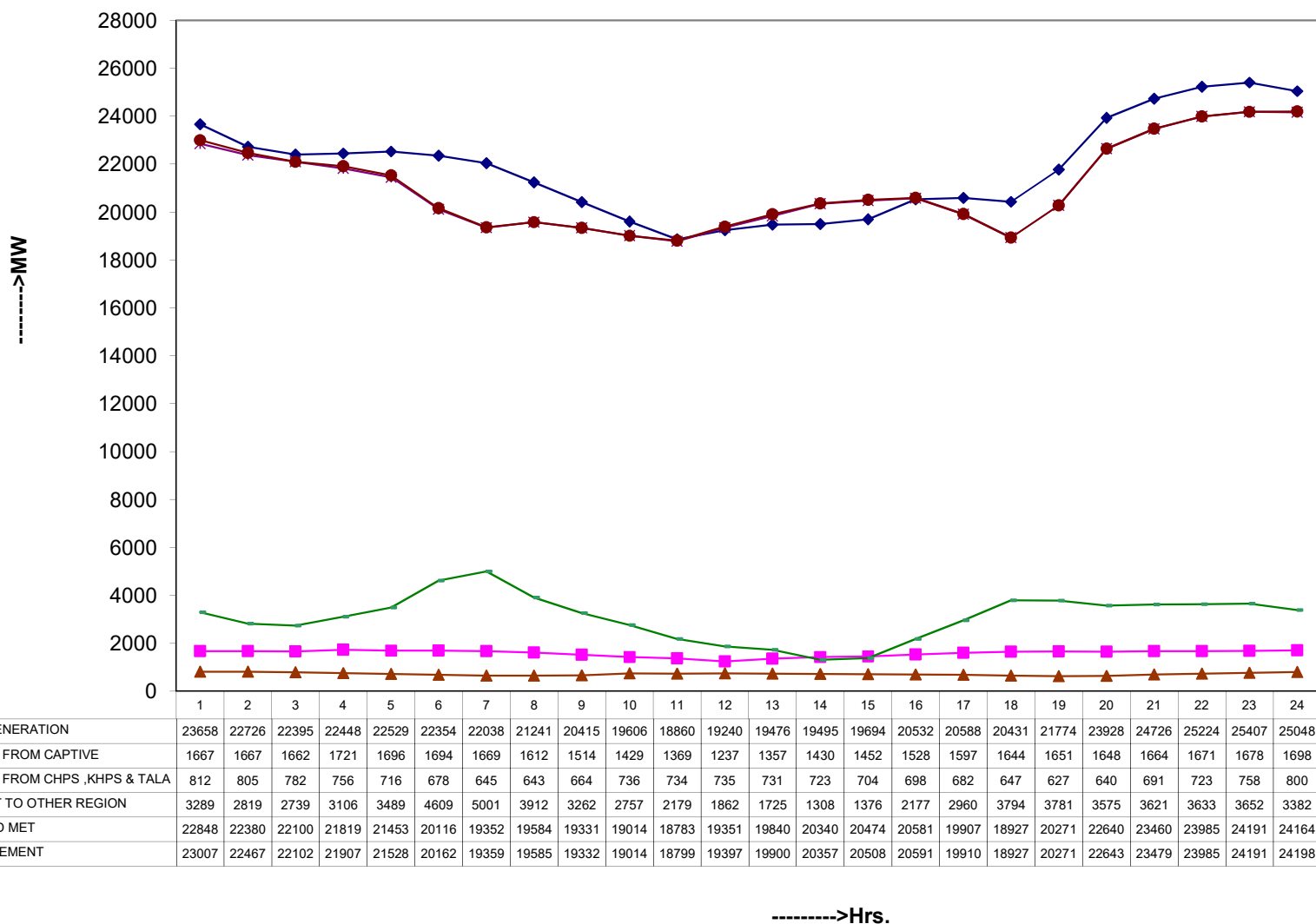


(*)--Includes contribution from HEP of Bhutan (Chukka, Kurichhu & Tala)

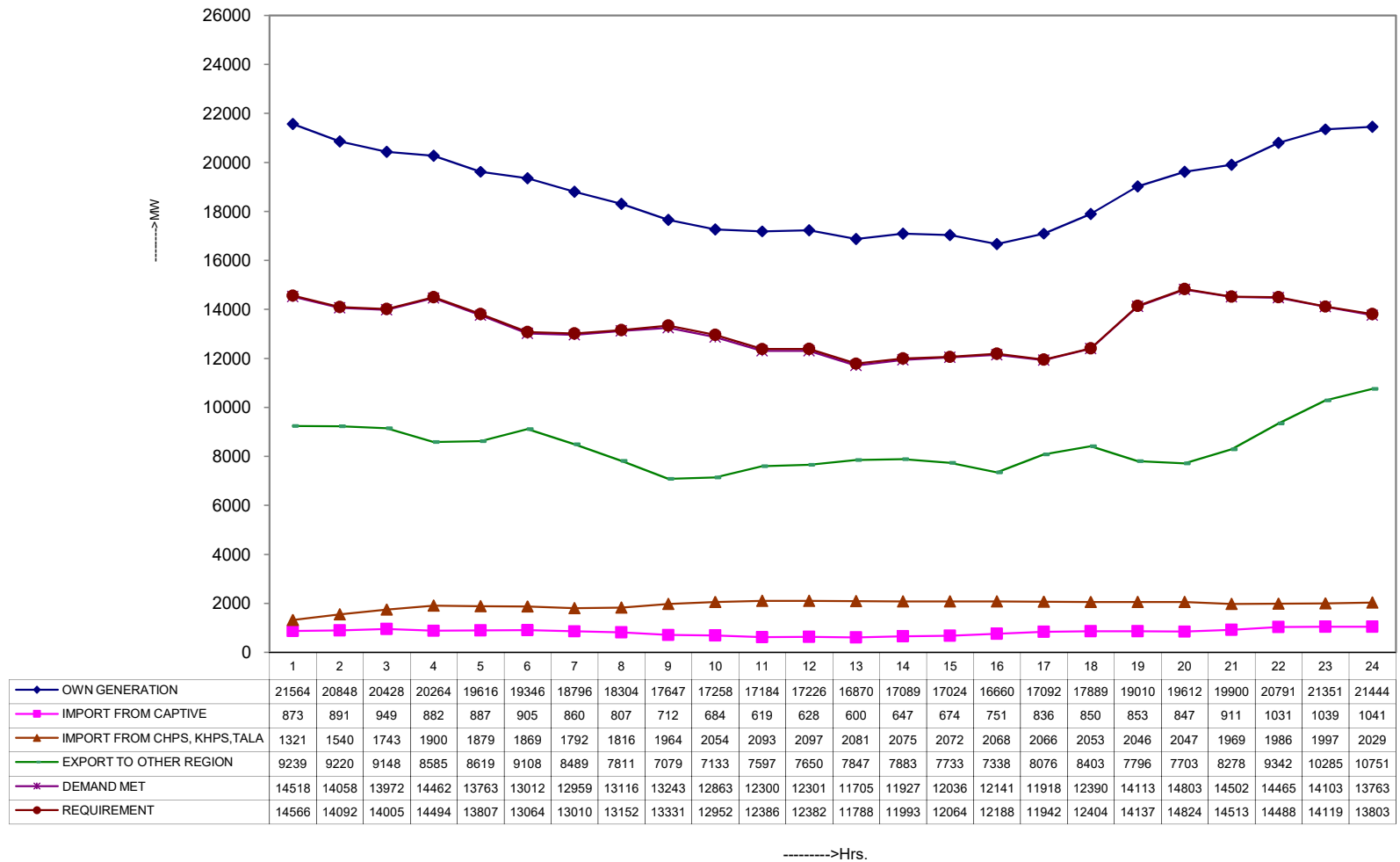
Peak Demand Met / Shortage of Eastern Region For The Month Of MAY'2021



Hourly Load Generation Data OF ER On Regional Peak Day During The Month of MAY'2021 (23-5-2021)

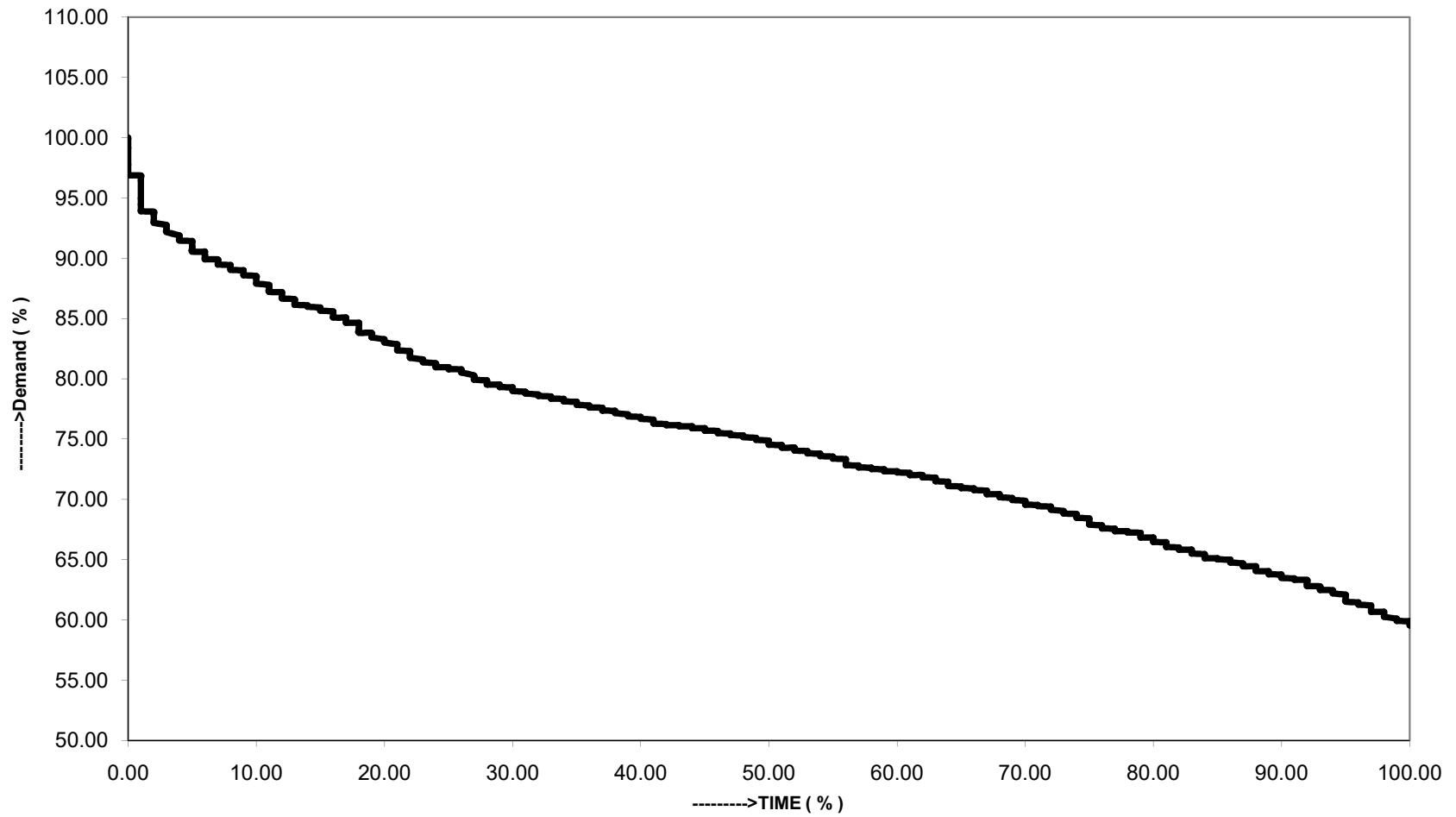


Hourly Load Generation Data of ER On Regional Lean Day During The Month of MAY'2021 (27-5-2021)



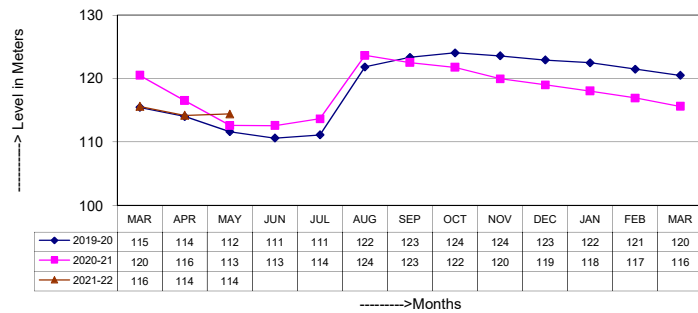
Monthly Load Duration Curve of Eastern Region for MAY-2021

Maximum Demand met : 24191 MW
Minimum Demand met: 11705 MW

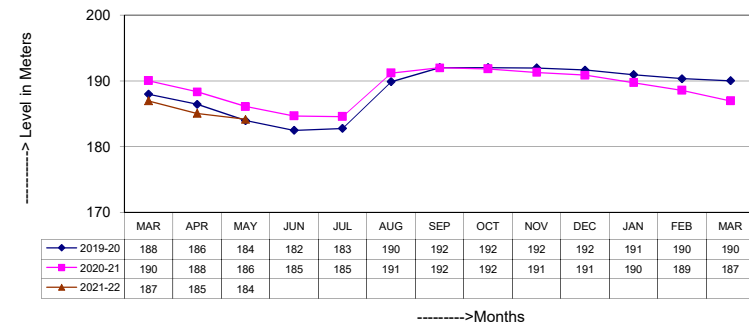


WATER LEVEL IN MAJOR RESERVOIRS ON LAST DATE OF MONTH

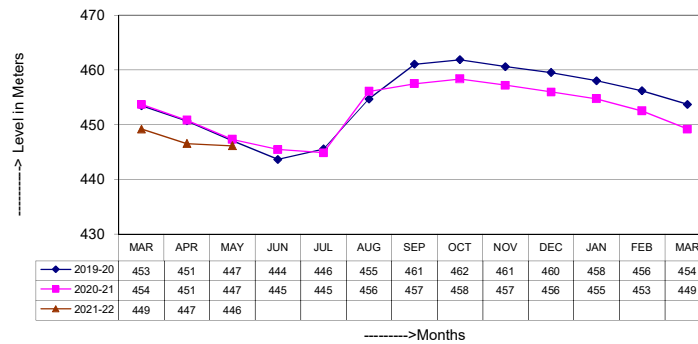
RENGALI RESERVOIR LEVEL



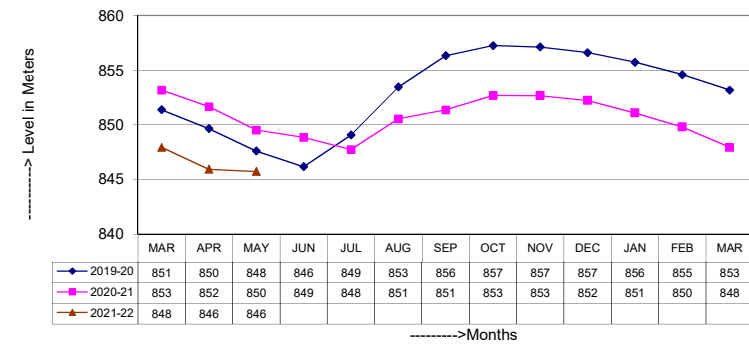
HIRAKUD RESERVOIR LEVEL



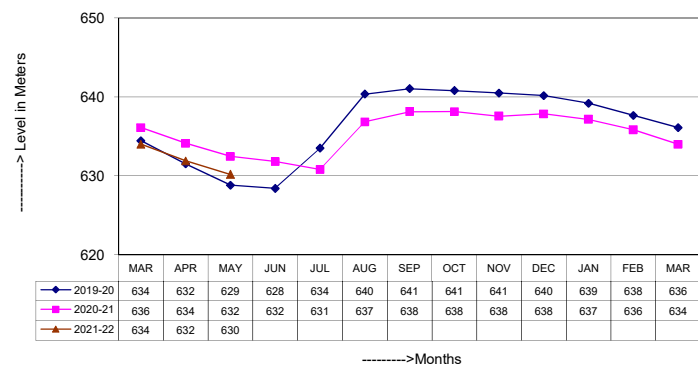
BALIMELA RESERVOIR LEVEL



UPPER KOLAB RESERVOIR LEVEL



INDRAVATI RESERVOIR LEVEL



SUBERNREKHA RESERVOIR LEVEL

