



भारत सरकार
Government of India
विद्युत मंत्रालय
Ministry of Power
पूर्वी क्षेत्रीय विद्युत समिति

75
Azadi Ka
Amrit Mahotsav



Eastern Regional Power Committee

14, गोल्फ क्लब रोड, टॉलीगंज, कोलकाता-700033

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सं/No: ERPC/MS/Reporting/MPR/2022-23/1115

दिनांक/Date: 30.11.2022

संज्ञा में : (संलग्न सूची के अनुसार)

To: As per enclosed list.

विषय : अक्टूबर, 2022 माह की ईआरपीसी की मासिक प्रगति रिपोर्ट ईआरपीसी की वेबसाइट पर अपलोड -
के संबंध में।

Subject: Upload of Monthly Progress Report of ERPC for the month of October, 2022
on ERPC website.

महोदय / Sir ,

पूर्वी क्षेत्रीय विद्युत समिति की अक्टूबर, 2022 माह की मासिक प्रगति रिपोर्ट ईआरपीसी की वेबसाइट
www.erpc.gov.in पर अपलोड कर दी गई है। यह आपकी जानकारी के लिए है।

Monthly Progress Report of Eastern Regional Power Committee for the month of
October, 2022 has been uploaded on ERPC website www.erpc.gov.in. This is for your
information please.

संलग्नक : यथोपरी।

Encl. – As above.

भवदीय / Yours faithfully

B. Sarvesh

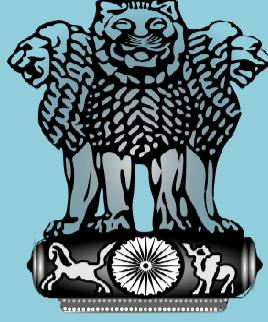
(Sanatan Sarvesh)

सहा. कार्यकारी अभियंता

Asst. Executive Engr.

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Government of India

विद्युतमंत्रालय

Ministry of Power

पूर्वी क्षेत्रीय विद्युत समिति

EASTERN REGIONAL POWER COMMITTEE

मासिक प्रगति रिपोर्ट

PROGRESS REPORT FOR THE MONTH OF

अक्टूबर-2022

October-2022



14, गोल्फ क्लब रोड, टोलीगंज

14, Golf Club Road, Tollygunge

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Highlights of Eastern Regional Power System for October- 2022

- The **Maximum Net Demand** met of **Eastern Region (ER)** during the month of **Oct, 2022** was **26220 MW** which is 10.75% more than the **Oct, 2021** (23675 MW). Individual **Peak Demand (MW)** of all the constituents (except Sikkim) **increased** compared to the corresponding period of last year.
- The **Average Net Energy Consumption** per day in ER for the month of **Oct, 2022** was **498.49 MU** (excluding export), which is 10.00% more than the corresponding period of last year (453.17 MU).
- The **Average regional PLF of thermal units during the month** is **70.63 %**, which is 6.10% more than the corresponding period of the last year (**64.53%**).

Bakreswar TPP (WBPDC) registered the highest PLF of 98.36%, followed by Santaldih TPS (WBPDC) 97.27% and Sagardighi TPP (WBPDC) 92.61% during the month of **Oct, 2022**.

- **Maximum Net generation** was **32070.23 MW** against total **Effective Capacity of 42203.41 MW** (including import from Bhutan). At the time of Regional peak (**26220 MW** on 01.10.2022 at 22.00 hrs.), the generation was **31127 MW**, import from CPP was 1198 MW and Net export was 6105 MW.
- The system frequency in the IEGC recommended band (49.9 Hz to 50.05 Hz) remained for 78.26% of time during the month. **Average frequency** for the month was **50.00 Hz**. The instantaneous maximum and minimum frequency were 50.41 Hz and 49.53 Hz, respectively. The integrated (Fifteen minutes time block average) maximum and minimum frequency were **50.32 Hz** and **49.71 Hz** respectively (refer Annexure-I).
- At 400 kV voltage level, the **maximum Voltage** recorded was 422 KV at Jeerat 400 KV S/s whereas the minimum voltage recorded 388 KV at Jamshedpur 400 KV S/s of Power grid.
- The **Maximum Export from ER to outside region** was **12724 MW** (including Nepal and Bangladesh) on 4th Oct, 2022 at 17:00 hrs. Total net energy export during the month was 4898.18 MU (Inc.Transmission loss) which corresponds to 25.19 % of Ex-bus total generation 19441.64 MU of Eastern Region.
- The import from CPPs was 909.71 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	7586	0	2771.52
WR	2286	2712	104.97
SR	3242	0	1409.80
NER	1039	943	202.93
BANGLADESH			673.94
NEPAL (via-CTU)			-264.98
Chukha, Kurichu, Tala			0
Total			4898.18
NEPAL by Bihar(NBPDCL)			0.18

SALIENT FEATURES

(YEAR TO YEAR COMPARISON)

		Oct-22		OCT-2021	CHANGE	% CHANGE
1)	Effective Capacity (end of the Month)					
	THERMAL (MW)	32500		30920	1580	5.11
	HYDRO (MW)	5990	\$	5990	0	0
	DIESEL (MW)	0		0	0	0
	RES (MW)	1518		1518	0	0
	TOTAL (MW)	40007		38427	1580	4.11
2)	Peak Demand (MW)	26225		23979	2246	9.37
3)	Peak Demand Met (MW)	26220		23675	2545	10.75
4)	Shortage (MW)	5		304	-299	0.00
5)	% Shortage	0.02		1.27	-1.25	0.00
6)	Average Energy Requirement Per Day (MU)	500.63		458.67	41.96	9.15
7)	Average Energy Availability Per Day (MU)	498.49		453.17	45.32	10.00
8)	Average Shortage Per Day (MU)	2.14		5.51	-3.37	--
9)	% Shortage	0.43		1.20	-0.77	--
10)	Net Generation for the Month					
	Thermal (MU)	15793.89		13796.22	1997.67	14.48
	Hydro (MU)	3538.71	*	3360.07	178.64	5.32
	RES (MU)	109.04		110.96	0.00	-
	Total (MU)	19441.64		17267.25	2174.39	12.59
11)	Generation at the Time of Max. Regional Demand Met (01-10-22 at 22.00 Hrs.)					
	Thermal (MW)	24910		19377	5533	28.55
	Hydro (MW)	6061	*	5822	239	4.10
	RES(MW)	156		90	66	73.43
	Total (MW)	31127		25289	5838	23.08
12)	Inter-Regional Energy Transfer					
	Export (MU)	5163.16		4493.18	669.98	14.91
	Import (MU)	264.98		182.86	82.12	44.91
	Net Exp.(+)/Net Imp.(-) (MU)	4898.18		4310.31	587.87	13.64
13)	Import From Captive(MU)	909.71		1091.20	-181.49	-16.63
14)	Peak Inter Regional Power Transfer					
	Max Export (MW) on 04-10-22 at 17.00Hrs	12724		10179	2545	25.00
	Max Import (MW) on 01-10-22 at 12.00Hrs	2712		1768	944	53.42
	Max Net Export(+)/Import (-) (MW)	12724		10179	2545	25.00
15)	Maximum voltage recorded	422		JEERAT	400 kv	s/s
16)	Minimum voltage recorded	388		JAMSHEDPUR	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 OCT'2022

A) Net Average Energy Per Day

System	Requirement Met (MU/Day)	Requirement (MU/Day)	Shortage (MU/Day)	% Shortage
BSPHCL	107.17	108.40	1.23	1.13
JUVNL	35.40	36.39	0.99	2.72
DVC	69.04	69.05	0.01	0.02
ODISHA	122.32	122.34	0.02	0.02
WBSEDCL	132.29	132.35	0.06	0.05
CESC	30.72	30.73	0.00	0.02
SIKKIM	1.36	1.36	0.00	0.02
REGION	498.49	500.63	2.14	0.43

B) Peak Demand in MW:

System	Demand Met (MW)	Demand (MW)	Shortage (MW)	% Shortage
BSPHCL	6484	6491	7	0.10
JUVNL	1854	2068	214	10.34
DVC	3157	3157	0	0.00
ODISHA	6063	6063	0	0.00
WBSEDCL	7616	7621	5	0.07
CESC	1819	1821	2	0.1
SIKKIM	102	102	0	0.00
REGION	26220	26225	5	0.02

➤ DIVERSITY FACTOR : 1.03

➤ Regional Peak Demand Met on 1-10-2022 at 22.00 hrs. at 50.05 Hz.

CONSTITUENT-WISE PERFORMANCE DATA OCT-2022

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	291.84	21.12	312.96	0.00	28.36	0.00	28.36	0.00	263.49	21.12	284.61	0.00	3037.73	3322.34	107.2	6484	6535
JUVNL	63.65	363.46	0.00	427.11	0.01	35.33	0.00	35.34	63.63	328.13	0.00	391.76	33.79	671.88	1097.43	35.4	1854	1903
DVC	63.95	3063.79	0.00	3127.73	0.21	227.15	0.00	227.36	63.74	2836.64	0.00	2900.37	11.96	-772.17	2140.17	69.0	3157	3480
ODISHA(OPGC+OHPC+ITPS)	750.23	1076.00	64.18	1890.42	4.75	74.45	0.00	79.20	745.48	1001.56	64.18	1811.22	588.67	1392.13	3792.03	122.3	6063	6165
WBPDC+WBSEDCL+DPL	191.28	3078.87	20.63	3290.77	0.00	261.67	0.00	261.67	191.28	2817.20	20.63	3029.11	275.29	796.65	4101.05	132.3	7616	8048
CESC	0.00	518.67	0.00	518.67	0.00	41.90	0.00	41.90	0.00	476.77	0.00	476.77	0.00	475.67	952.44	30.7	1819	1863
HEL	0.00	386.59	0.00	386.59	0.00	29.96	0.00	29.96	0.00	356.64	0.00	356.64	0.00	-356.64				
SIKKIM	0.00	0.00	2.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	2.00	0.00	40.28	42.28	1.4	102	102
NTPC	0.00	6352.15	1.10	6353.25	0.00	458.47	0.00	458.47	0.00	5893.68	1.10	5894.78	0.00	-5894.78				
MPL	0.00	639.98	0.00	639.98	0.00	36.57	0.00	36.57	0.00	603.41	0.00	603.41	0.00	-603.41				
APNRL	0.00	251.75	0.00	251.75	0.00	21.09	0.00	21.09	0.00	230.66	0.00	230.66	0.00	-230.66				
GMR	0.00	407.77	0.00	407.77	0.00	28.23	0.00	28.23	0.00	379.54	0.00	379.54	0.00	-379.54				
JITPL	0.00	647.68	0.00	647.68	0.00	41.50	0.00	41.50	0.00	606.18	0.00	606.18	0.00	-606.18				
NHPC (Inc TLDP= 139.11 MU)	546.93	0.00	0.00	546.93	0.00	0.00	0.00	0.00	546.93	0.00	0.00	546.93	0.00	-546.93	0.00			
CHUZACHEN HPS	53.65	0.00	0.00	53.65	0.00	0.00	0.00	0.00	53.65	0.00	0.00	53.65	0.00	-53.65	0.00			
DIKCHU HPS	62.67	0.00	0.00	62.67	0.00	0.00	0.00	0.00	62.67	0.00	0.00	62.67	0.00	-62.67	0.00			
JORHANG HPS	58.94	0.00	0.00	58.94	0.00	0.00	0.00	0.00	58.94	0.00	0.00	58.94	0.00	-58.94	0.00			
TASHIDING HPS	60.80	0.00	0.00	60.80	0.00	0.00	0.00	0.00	60.80	0.00	0.00	60.80	0.00	-60.80	0.00			
TEESTA-III HPS	673.28	0.00	0.00	673.28	0.00	0.00	0.00	0.00	673.28	0.00	0.00	673.28	0.00	-673.28	0.00			
RONGNICHU HEP	50.99	0.00	0.00	50.99	0.00	0.00	0.00	0.00	50.99	0.00	0.00	50.99	0.00	-50.99	0.00			
CHPC(Birpara Receipt)	239.77	0.00	0.00	239.77	0.00	0.00	0.00	0.00	239.77	0.00	0.00	239.77	0.00	-239.77	0.00			
KHPS	18.74	0.00	0.00	18.74	0.00	0.00	0.00	0.00	18.74	0.00	0.00	18.74	0.00	-18.74	0.00			
THPS	318.78	0.00	0.00	318.78	0.00	0.00	0.00	0.00	318.78	0.00	0.00	318.78	0.00	-318.78	0.00			
DAGACHU HPS	53.56	0.00	0.00	53.56	0.00	0.00	0.00	0.00	53.56	0.00	0.00	53.56	0.00	-53.56	0.00			
Mangdechhu HEP	336.49	0.00	0.00	336.49	0.00	0.00	0.00	0.00	336.49	0.00	0.00	336.49	0.00	-336.49	0.00			
Total Drawal by HVDC Sahsaram,Alipurduar & Kuruchhu HEP														5.45	5.45			
Total	3543.69	17078.55	109.04	20731.28	4.97	1284.66	0.00	1289.64	3538.71	15793.89	109.04	19441.64	909.71	-4898.18	15453.18	498.5	26220	27739

3A

19441.64

15453.18

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

A) Net Average Energy

Month	2021-22					2022-23				
	Requirement Met (MU/Day)	Requirement (MU/Day)	Shortage (MU/Day)	Shortage (%)	Avg. Freq. (HZ)	Requirement Met (MU/Day)	Requirement (MU/Day)	Shortage (MU/Day)	Shortage (%)	Avg. Freq. (HZ)
APRIL	495.89	497.87	1.98	0.40	49.99	542.68	555.15	12.46	2.25	49.93
MAY	429.83	430.89	1.06	0.25	49.99	519.86	524.87	5.02	0.96	49.99
JUNE	462.07	462.84	0.77	0.17	49.99	547.72	553.79	6.07	1.10	49.98
JULY	498.44	500.02	1.57	0.31	50.00	569.64	576.81	7.17	1.24	49.99
AUGUST	501.37	505.13	3.76	0.74	49.99	556.08	563.58	7.50	1.33	49.98
SEPTEMBER	485.60	489.40	3.80	0.78	50.00	554.91	558.02	3.11	0.56	49.99
OCTOBER	453.17	458.67	5.51	1.20	49.98	498.49	500.63	2.14	0.43	50.00
NOVEMBER	388.80	390.35	1.55	0.40	49.99	-	-	-	-	-
DECEMBER	384.67	388.30	3.63	0.94	49.99	-	-	-	-	-
JANUARY	409.39	412.33	2.94	0.71	49.99	-	-	-	-	-
FEBRUARY	409.74	412.62	2.87	0.70	49.99	-	-	-	-	-
MARCH	474.37	479.88	5.51	1.15	49.97	-	-	-	-	-

B) Peak in MW:

Month	2021-22					2022-23				
	Demand Met (MW)	Demand (MW)	Shortage (MW)	Shortage (%)	Avg. Freq. (HZ)	Demand Met (MW)	Demand (MW)	Shortage (MW)	Shortage (%)	Avg. Freq. (HZ)
APRIL	24405	24405	0	0.00	49.99	25690	25735	45	0.17	49.93
MAY	24191	24191	0	0.00	49.99	25070	25369	299	1.18	49.99
JUNE	23494	23521	28	0.12	49.99	26196	26730	534	2.00	49.98
JULY	25145	26019	874	3.36	50.00	26609	27739	1130	4.07	49.99
AUGUST	24157	24236	79	0.33	49.99	27218	28275	1057	3.74	49.98
SEPTEMBER	25010	25454	445	1.75	50.00	26650	26915	266	0.99	49.99
OCTOBER	23675	23979	304	1.27	49.98	26220	26225	5.18	0.02	50.00
NOVEMBER	20961	20998	37	0.18	49.99	-	-	-	-	-
DECEMBER	20631	20992	362	1.72	49.99	-	-	-	-	-
JANUARY	21204	21396	191	0.89	49.99	-	-	-	-	-
FEBRUARY	21198	21540	342	1.59	49.99	-	-	-	-	-
MARCH	24582	24762	180	0.73	49.97	-	-	-	-	-

PERFORMANCE OF GENERATING STATIONS IN THE EASTERN REGION DURING THE MONTH OF OCT -2022

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 (2022-23) in MU	Cummulative Net Energy Generation upto Current Month (2022-23) in MU
BIHAR	NTPC	Barauni (U# 6,7)	220.00	210.00	0.00	0.00	33.38	24.69
	Thermal	Barauni (U# 8)	250.00	250.00	137.56	124.37	931.71	846.85
		Barauni (U# 9)	250.00	250.00	154.28	139.11	1040.93	937.83
		(Dedicated for Bihar)	Muzaffarpur Stg-I	220.00	220.00	0.00	0.00	0.00
	RES	Thermal Total	940.00	930.00	291.84	263.49	2006.02	1809.38
			354.91	354.91	21.12	21.12	147.14	147.14
		Total BIHAR	1294.91	1284.91	312.96	284.61	2153.16	1956.51
JHARKHAND								
TVNL	Thermal	TVNL	420.00	420.00	218.00	195.59	1523.10	1358.27
TPCL		JOJOBERA	240.00	240.00	145.46	132.54	600.58	548.15
JSEB	Hydro	Subarnrekha (U#1,2)	130.00	130.00	63.65	63.63	154.84	154.80
	RES		60.41	60.41	0.00	0.00	0.00	0.00
		Total	190.41	190.41	63.65	63.63	154.84	154.80
DVC	Thermal	Bokaro-B(3)	0.00	0.00	0.00	-0.36	0.00	-4.33
		Chandrapura(U7 # 8)	500.00	500.00	307.67	276.28	2091.70	1881.30
		Durgapur(4)	210.00	210.00	0.00	0.00	135.12	111.48
		Mezia(1,2,3,4,5,6)	1340.00	1340.00	547.34	485.07	4814.73	4288.93
		Mejia(U # 7,8)	1000.00	1000.00	474.65	445.77	4064.09	3832.14
		Bokaro-A(1)	500.00	500.00	275.38	258.57	2150.22	2026.10
		Durgapur STPS (U#1,2)	1000.00	1000.00	548.17	516.56	3872.43	3654.15
		Raghunathpur TPS (U#1,2)	1200.00	1200.00	378.57	351.31	3428.51	3202.17
		Koderma STPS (U#1,2)	1000.00	1000.00	532.01	503.43	4035.01	3803.38
		Total Thermal	6750.00	6750.00	3063.79	2836.64	24591.81	22795.33
	Hydro	Maithon (U#1,2,3)	63.20	63.20	30.22	30.19	80.36	80.13
		Panchet (U#1,2)	80.00	80.00	33.72	33.55	116.32	115.41
		Tilaiya (U#1,2)	4.00	4.00	0.01	0.0	0.01	-0.1
		Hydro Total	147.20	147.20	63.95	63.74	196.69	195.48
			Total DVC	6897.20	6897.20	3127.73	2900.37	24788.49
WEST BENGAL								
WBPDC	Thermal	Bandel TPS	320.00	275.00	165.86	150.07	1022.08	918.38
		Santalidih TPS(U#5&6)	500.00	500.00	361.84	333.08	2233.48	2047.05
		Kolaghat TPS	840.00	840.00	483.83	431.18	2631.34	2321.89
		Bakreswar TPP	1050.00	1050.00	768.40	703.78	4797.56	4380.09
		Sagardighi TPP	1600.00	1600.00	1102.48	1022.97	6829.94	6311.96
		DPPS (300+250)	550.00	550.00	196.45	176.12	1411.41	1266.82
		Thermal Total	4860.00	4815.00	3078.87	2817.20	18925.80	17246.19
WBSEDCL	Hydro	Jaldhaka (3x9+2x4)	35.00	35.00	23.66	23.66	140.95	140.95
		Rammam (4x12.73)	51.00	51.00	31.67	31.67	188.81	188.81
		Teesta C.F. (3x3x7.5)	67.50	67.50	14.41	14.41	77.65	77.65
		Purulia PSS (4x225)	900.00	900.00	121.54	121.54	826.23	826.23
		Total Hydro	1053.50	1053.50	191.28	191.28	1233.64	1233.64
		RES	500.76	500.76	20.63	20.63	118.02	118.02

PERFORMANCE OF GENERATING STATIONS IN THE EASTERN REGION DURING THE MONTH OF OCT -2022

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 (2022-23) in MU	Cummulative Net Energy Generation upto Current Month (2022-23) 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	32.21	29.11	566.63	518.41
		Budge-Budge (3x250)	750.00	750.00	486.46	447.66	3300.41	3035.36
		Total CESC	1125.00	1125.00	518.67	476.77	3867.04	3553.77
HEL	Thermal	HEL	600.00	600.00	386.59	356.64	2656.72	2446.56
		Total West Bengal	8139.26	8094.26	4196.04	3862.52	26801.22	24598.18
OPGC	Thermal	IB TPS	420.00	420.00	256.23	226.65	1493.55	1313.06
		IB TPS U#3(660 MW)	660.00	660.00	402.81	380.77	2707.98	2553.51
		IB TPS U#4(660 MW)	660.00	660.00	416.96	394.14	2426.06	2290.34
OHPC	Hydro	Hirakud-I (Burla)	275.50	275.50	169.92	169.64	764.23	762.50
		Hirakud-II (Chiplima)	72.00	72.00	44.37	44.26	239.38	238.74
		Balimela (6x60+2x75)	510.00	510.00	59.41	58.90	731.59	727.12
		Rengali (5x50)	250.00	250.00	128.75	128.75	567.65	567.04
		Upper Kolab (4x80)	320.00	320.00	59.47	59.27	260.83	259.96
		Indravati HPS (4x150)	600.00	600.00	269.25	265.60	930.05	918.61
		Mckd.(Odisha drawal)	57.38	57.38	19.07	19.07	133.48	133.48
		Total Hydro	2084.88	2084.88	750.23	745.48	3627.21	3607.46
		RES	539.57	539.57	64.18	64.18	391.98	391.98
		Total Odisha	4364.45	4364.45	1890.42	1811.22	10646.78	10156.35
(**) SIKKIM	Hydro	RES	52.18	52.18	2.00	2.00	12.00	12.00
NTPC		MTPS Stg-II	390.00	390.00	254.73	229.96	1644.73	1482.13
		FSTPP# I&II (3x200+2x500)	1600.00	1600.00	663.33	607.23	5795.47	5316.53
		FSTPP (U# 6)	500.00	500.00	260.18	240.65	1349.39	1257.01
		KhSTPP (4x210+3x500)	2340.00	2340.00	1062.45	978.01	9237.32	8565.10
		TSTPP (2x500)	1000.00	1000.00	685.49	636.05	4116.54	3805.15
		BARH STPS II (2X660)	1320.00	1320.00	409.98	377.74	5371.38	5070.13
		BARH STPS I (1X660)	660.00	660.00	372.26	348.93	2308.74	2159.81
		BRBCL # I,2,3,4(4X250 MW)	1000	1000	564.33	519.04	4015.06	3701.43
		BRBCL # 4 infirm			0.00	0.00	0.00	0.00
		NSTPS U# I&2	1980.00	1980.00	1151.43	1089.14	7362.69	6988.33
		NSTPS infirm			0.00	0.00	75.63	69.22
		DSTPP #1&2	1600.00	1600.00	927.98	866.93	6079.43	5686.79
		DSTPP #2 infirm	0.00	0.00	0.00	0.00	0.00	0.00
		Total NTPC	12390.00	12390.00	6352.15	5893.68	47356.38	44101.63
NHPC	HYDRO	Rangit (3x20)	60.00	60.00	44.02	44.02	264.34	264.34
		Teesta (3x170)	510.00	510.00	334.77	334.77	2337.87	2337.87
		TLDP(4x33+4x40) for WBSEDCL	292.00	292.00	168.14	168.14	1153.65	1153.65
		Total NHPC	862.00	862.00	546.93	546.93	3755.87	3755.87
		MPL (U#1&2)	1050.00	1050.00	639.98	603.41	4670.39	4407.56
		APNRL (U#1,2)	540.00	540.00	251.75	230.66	2171.72	1978.68
		GMR (2x350)	700.00	700.00	407.77	379.54	2557.68	2374.79
		JITPL (2X600)	1200.00	1200.00	647.68	606.18	4298.33	4040.00
		CHUZACHEN** (2x55)	110.00	110.00	53.65	53.65	442.82	442.82
		JORETHANG (2x48)	96.00	96.00	58.94	58.94	369.78	369.78
		TEESTA URJA St III (6x200)	1200.00	1200.00	673.28	673.28	5140.47	5140.47
		Tashilding (2x48.5)	97.00	97.00	60.80	60.80	390.21	390.21
		DICKCHU (2x48)	96.00	96.00	62.67	62.67	476.66	476.66
		RONGNICHU HEP (2x56.5)			50.99	50.99	380.12	380.12
		TALCHER SOLAR	10.00	10.00	1.10	1.10	7.45	7.45
		Total Thermal (E.R)	32555.00	32500.00	17078.55	15793.89	121853.15	112817.21
		Total Hydro (E.R)	5989.58	5989.58	2576.35	2571.38	16168.31	16147.30
		Total RES	1517.83	1517.83	109.04	109.04	676.59	676.59
EASTERN REGIONAL		TOTAL (E.R)	40062.41	40007.41	19763.95	18474.31	138698.04	129641.10
BHUTAN	Hydro	CHPC(4x90)	360.00	270.00	239.77	239.77	1494.17	1494.17
	Hydro	Kurichu (4x15)	60.00	60.00	18.74	18.74	28.65	28.65
	Hydro	TALA (6x170)	1020.00	1020.00	318.78	318.78	2417.33	2417.33
	Hydro	DAGACHU (2x63)	126.00	126.00	53.56	53.56	330.67	330.67
		MANGDECHU(4x180)	720.00	720.00	336.49	336.49	2442.37	2442.37
		Grand Total	42348.41	42203.41	20731.28	19441.64	145411.23	136354.29

PLANT LOAD FACTOR (PLF) OF THERMAL POWER STATIONS IN EASTERN REGION DURING THE MONTH OF OCT' 2022

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 (2022-23) in MU	Cummulative PLF upto Current Month (%)
BIHAR	NTPC	Barauni (U# 6,7)	220.00	210.00	0.00	0.00	33.38	1.20
	Thermal	Barauni (U# 8)	250.00	250.00	137.56	73.96	931.71	72.56
		Barauni (U# 9)	250.00	250.00	154.28	82.95	1040.93	81.07
	(Dedicated for Bihar)	Muzaffarpur Stg-I	220.00	220.00	0.00	0.00	0.00	0.00
	RES	Thermal Total	940.00	930.00	291.84	42.18	2006.02	41.57
			354.91	354.91	21.12		147.14	
		Total BIHAR	1294.91	1284.91	312.96		2153.16	
JHARKHAND								
TVNL	Thermal	TVNL	420.00	420.00	218.00	69.76	1523.10	70.61
		JOJOBERA	240.00	240.00	145.46	81.46	600.58	84.77
JSEB	Hydro	Subarnrekha (U#1,2)	130.00	130.00	63.65		154.84	
	RES		60.41	60.41	0.00		0.00	
		Total	190.41	190.41	63.65		154.84	
DVC	Thermal	Bokaro-B(3)	0.00	0.00	0.00	0.00	0.00	0.00
		Chandrapura(U7 # 8)	500.00	500.00	307.67	82.71	2091.70	81.45
		Durgapur(4)	210.00	210.00	0.00	0.00	135.12	12.53
		Mezia(1,2,3,4,5,6)	1340.00	1340.00	547.34	54.90	4814.73	69.96
		Mejia(U # 7,8)	1000.00	1000.00	474.65	63.80	4064.09	79.13
		Bokaro-A(1)	500.00	500.00	275.38	74.03	2150.22	83.73
		Durgapur STPS (U#1,2)	1000.00	1000.00	548.17	73.68	3872.43	75.40
		Raghunathpur TPS (U#1,2)	1200.00	1200.00	378.57	42.40	3428.51	55.63
		Koderma STPS (U#1,2)	1000.00	1000.00	532.01	71.51	4035.01	78.56
		Total Thermal	6750.00	6750.00	3063.79	61.01	24591.81	70.94
	Hydro	Maithon (U#1,2,3)	63.20	63.20	30.22		80.36	
		Panchet (U#1,2)	80.00	80.00	33.72		116.32	
		Tilaiya (U#1,2)	4.00	4.00	0.01		0.01	
		Hydro Total	147.20	147.20	63.95		196.69	
		Total DVC	6897.20	6897.20	3127.73		24788.49	
WEST BENGAL								
WBPDC	Thermal	Bandel TPS	320.00	275.00	165.86	81.06	1022.08	72.36
		Santalidih TPS(U#5&6)	500.00	500.00	361.84	97.27	2233.48	86.97
		Kolaghat TPS	840.00	840.00	483.83	77.42	2631.34	60.99
		Bakreswar TPP	1050.00	1050.00	768.40	98.36	4797.56	88.96
		Sagardighi TPP	1600.00	1600.00	1102.48	92.61	6829.94	83.11
		DPPS (300+250)	550.00	550.00	196.45	48.01	1411.41	49.97
		Thermal Total	4860.00	4815.00	3078.87	85.95	18925.80	76.53
WBSEDCL	Hydro	Jaldhaka (3x9+2x4)	35.00	35.00	23.66		140.95	
		Rammam (4x12.73)	51.00	51.00	31.67		188.81	
		Teesta C.F. (3x3x7.5)	67.50	67.50	14.41		77.65	
		Purulia PSS (4x225)	900.00	900.00	121.54		826.23	
		Total Hydro	1053.50	1053.50	191.28		1233.64	
	RES		500.76	500.76	20.63		118.02	
DE- COMMI- SSIONED	1.WBPDC, Bandel TPS Unit #1 (IC=1X60 MW, EC=1X60 MW) decommissioned from 21.02.2022.							
	2.WBPDC, Kolaghat TPS Unit #1,2 (IC=2X210 MW, EC=2X210 MW) decommissioned from 21.02.2022.							
	3.BIHAR, Muzaffarpur TPS Unit(KBUNL) #1,2 (IC=2X110 MW, EC=2X110 MW) decommissioned from 08.09.2021.							
	4.NTPC, TTPS Odisha All Six units(4X62.5+2X110) decommissioned from 01.04.2021							
	5.DVC, BTPS(B) Unit #3 (210 MW) de-commissioned from 01.04.2021							
	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.							
COMMISS- IONED	1.NTPC NPGCL U#3 (660 MW) COD from 01.06.2022							
	2.NTPC Nabinagar TPP(BRBCL) U#4 (250 MW) COD from 01.12.2021							
	3.NTPC BARAUNI TPP U#9 (250 MW) COD from 01.11.2021							
	4.NTPC Barh St-1, U#1(660 MW) COD from 12.11.2021							
	5.NSTPS U#2 (660 MW) COD from 23.07.2021							
	6.NTPC DARLIPALI STPS U#2 (800 MW) COD 01.09.2021							
	7.DARLIPALI S TPS U#1(800 MW) COD 01.03.2020							
	8.BARAUNI TPS U#1(250 MW) COD 01.03.2020							

PLANT LOAD FACTOR (PLF) OF THERMAL POWER STATIONS IN EASTERN REGION DURING THE MONTH OF OCT' 2022

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 (2022-23) in MU	Cummulative PLF upto Current Month (%)
CESEC	Thermal	Titagarh (4x60)	240.00	240.00	0.00	0.00	0.00	0.00
		Southern (2x67.5)	135.00	135.00	32.21	32.07	566.63	81.72
		Budge-Budge (3x250)	750.00	750.00	486.46	87.18	3300.41	85.68
		Total CESC	1125.00	1125.00	518.67	61.97	3867.04	66.93
HEL	Thermal	HEL	600.00	600.00	386.59	86.60	2656.72	86.21
		Total West Bengal	8139.26	8094.26	4196.04		26801.22	
OPGC	Thermal	IB TPS	420.00	420.00	256.23	82.00	1493.55	69.24
		IB TPS U#3(660 MW)	660.00	660.00	402.81	82.03	2707.98	79.89
		IB TPS U#4(660 MW)	660.00	660.00	416.96	84.91	2426.06	71.57
OHPC	Hydro	Hirakud-I (Burla)	275.50	275.50	169.92		764.23	
		Hirakud-II (Chiplima)	72.00	72.00	44.37		239.38	
		Balimela (6x60+2x75)	510.00	510.00	59.41		731.59	
		Rengali (5x50)	250.00	250.00	128.75		567.65	
		Upper Kolab (4x80)	320.00	320.00	59.47		260.83	
		Indravati HPS (4x150)	600.00	600.00	269.25		930.05	
		Mckd.(Odisha drawal)	57.38	57.38	19.07		133.48	
		Total Hydro	2084.88	2084.88	750.23		3627.21	
		RES	539.57	539.57	64.18		391.98	
		Total Odisha	4364.45	4364.45	1890.42		10646.78	
(**) SIKKIM	Hydro	RES	52.18	52.18	2.00		12.00	
NTPC		MTPS Stg-II	390.00	390.00	254.73	87.79	1644.73	82.11
		FSTPP# I&II (3x200+2x500)	1600.00	1600.00	663.33	55.72	5795.47	70.53
		FSTPP (U# 6)	500.00	500.00	260.18	69.94	1349.39	52.55
		KhSTPP (4x210+3x500)	2340.00	2340.00	1062.45	61.03	9237.32	76.86
		TSTPP (2x500)	1000.00	1000.00	685.49	92.14	4116.54	80.15
		BARH STPS II (2X660)	1320.00	1320.00	409.98	41.75	5371.38	79.23
		BARH STPS I (1X660)	660.00	660.00	372.26	75.81	2308.74	68.11
		BRBCL # I,2,3,4(4X250 MW)	1000.00	1000.00	564.33	75.85	4015.06	78.17
		BRBCL # 4 infirm			0.00	0.00	0.00	0.00
		NSTPS U# I&2	1980.00	1980.00	1151.43	78.16	7362.69	80.00
		NSTPS infirm					75.63	
		DSTPP #1&2	1600.00	1600.00	927.98	77.96	6079.43	73.98
		DSTPP #2 infirm	0.00	0.00	0.00	0.00	0.00	0.00
		Total NTPC	12390.00	12390.00	6352.15	68.91	47356.38	75.45
NHPC	HYDRO	Rangit (3x20)	60.00	60.00	44.02		264.34	
		Teesta (3x170)	510.00	510.00	334.77		2337.87	
		TLDP(4x33+4x40) for WBSEDCL	292.00	292.00	168.14		1153.65	
		Total NHPC	862.00	862.00	546.93		3755.87	
	Thermal	MPL (U#1&2)	1050.00	1050.00	639.98	81.92	4670.39	86.60
		APNRL (U#1,2)	540.00	540.00	251.75	62.66	2171.72	78.30
		GMR (2x350)	700.00	700.00	407.77	78.30	2557.68	71.14
		JITPL (2X600)	1200.00	1200.00	647.68	72.54	4298.33	69.74
		CHUZACHEN** (2x55)	110.00	110.00	53.65		442.82	
		JORETHANG (2x48)	96.00	96.00	58.94		369.78	
		TEESTA URJA St III (6x200)	1200.00	1200.00	673.28		5140.47	
		Tashilding (2x48.5)	97.00	97.00	60.80		390.21	
		DICKCHU (2x48)	96.00	96.00	62.67		476.66	
		RONGNICHU HEP (2x56.5)			50.99		380.12	
		TALCHER SOLAR	10.00	10.00	1.10		7.45	
		Total Thermal (E.R)	32555.00	32500.00	17078.55	70.63	121853.15	73.60
EASTERN REGIONAL		Total Hydro (E.R)	5989.58	5989.58	2576.35		16168.31	
		Total RES	1517.83	1517.83	109.04		676.59	
		TOTAL (E.R)	40062.41	40007.41	19763.95		138698.04	
BHUTAN	Hydro	CHPC(4x90)	360.00	270.00	239.77		1494.17	
	Hydro	Kurichu (4x15)	60.00	60.00	18.74		28.65	
	Hydro	TALA (6x170)	1020.00	1020.00	318.78		2417.33	
	Hydro	DAGACHU (2x63)	126.00	126.00	53.56		330.67	
		MANGDECHU(4x180)	720.00	720.00	336.49		2442.37	
		Grand Total	42348.41	42203.41	20731.28		145411.23	

CONTRIBUTIONS OF DIFFERENT CONSTITUENTS AT THE TIME OF REGIONAL PEAK DURING THE MONTH OF OCT'2022 (1-10-2022)

Date	1-Oct-22					
Time	22.00	Hrs.				
Frequency	50.05	Hz.				
						(All Fig. in MW)
	Installed	Effective				Net Gen
System/State	Capacity	Capacity	Hydro	Thermal	RES	Total
BSPHCL	1295	1285	0	459	0	459
JUVNL	850	850	49	454	0	503
DVC	6897	6897	120	3909	0	4029
ODISHA	4364	4364	1230	1305	156	2691
WBSEDCL	5864	5819	1001	4370	0	5371
TLDP	292	292	293	0	0	293
HEL HALDIA	600	600	0	292	0	292
CESC	1125	1125	0	688	0	688
DPL	550	550	0	0	0	0
SIKKIM	52	52	0	0	0	0
NTPC	12390	12390	0	10611	0	10611
NHPC	570	570	584	0	0	584
CHUKHA	360	270	330	0	0	330
KURICHU	60	60	88	0	0	88
TALA	1020	1020	468	0	0	468
MPL	1050	1050	0	855	0	855
OPGC (660 MW)	0	0	0	0	0	0
APNRL	540	540	0	336	0	336
Kamalganga (GMR)	700	700	0	559	0	559
JITPL	1200	1200	0	1071	0	1071
RONGNICHU HEP (2x56.5)	113	113	51	0	0	51
Chuzachen	110	110	89	0	0	89
Jorethang	96	96	101	0	0	101
TEESTA URJA St III	1200	1200	1032	0	0	1032
Tashilding	97	97	101	0	0	101
DICKCHU	96	96	102	0	0	102
<u>Daghachu</u>	126	126	67	0	0	67
<u>Solar</u>	10	10	0	0	0	0
<u>Mangdechhu</u>	720	720	353	0	0	353
<u>Total</u>	42348	42203	6061	24910	156	31127
Import From Captive:						1198
Export To:						
NER						715
SR						2014
WR						-1283
NR						4535
Bangladesh						539
Nepal						-414
Total						6105
➤ Regional Net Peak Demand Met (MW) :						26220

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

Hourly Load Generation Data OF ER on Regional Peak Day During The Month of OCT'2022 (1-10-2022)

(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	4101	24483	28584	975	1447	5775	25230	-4	0	25230
2	4141	24468	28610	966	1449	6302	24724	9	1	24734
3	3863	24125	27988	969	1447	6081	24322	-19	1	24324
4	3778	23484	27262	982	1426	5683	23987	-31	4	23991
5	3815	23476	27290	966	1406	5717	23945	-10	4	23949
6	3696	24206	27902	970	1389	7027	23234	-28	54	23259
7	3707	24206	27913	981	1371	8353	21911	-25	3	21914
8	3706	24013	27718	965	1376	7907	22152	-23	3	22154
9	3952	21944	25896	939	1376	5545	22667	-16	1	22668
10	3999	20614	24613	952	1367	3948	22985	4	1	22990
11	3844	20119	23963	966	1357	2970	23315	-22	1	23316
12	3856	19981	23837	961	1361	2396	23763	4	4	23771
13	3987	20173	24160	939	1363	2836	23625	54	146	23825
14	3885	20545	24430	955	1368	3192	23561	-10	4	23565
15	4032	21678	25710	953	1370	4582	23452	12	14	23478
16	3846	22235	26081	966	1362	4846	23564	2	13	23579
17	3765	23139	26904	1027	1340	6521	22750	24	11	22785
18	4164	24318	28482	1195	1286	7394	23568	89	6	23663
19	4759	25300	30059	1255	1257	6928	25643	31	402	26076
20	4860	25088	29947	1251	1256	7192	25261	-9	141	25393
21	4244	24771	29016	1246	1272	5984	25549	-31	5	25554
22	4910	24910	29820	1198	1307	6105	26220	-48	5	26225
23	5026	24667	29693	1117	1316	6623	25502	4	221	25728
24	3950	24730	28680	1090	1329	6632	24467	17	148	24631

Hourly Load Generation Data of ER On Regional Lean Day During The Month of OCT'2022 (31-10-2022)

(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	1841	19494	21335	1373	709	5777	17640	5	0	17644
2	1504	19190	20694	1382	719	4806	17988	6	0	17995
3	1500	18860	20361	1381	725	4464	18002	5	0	18007
4	1462	19000	20462	1382	721	4363	18202	27	0	18229
5	1684	19255	20939	1378	702	4928	18091	-3	0	18091
6	2278	19669	21947	1388	674	7112	16897	3	0	16900
7	3004	20067	23071	1411	628	9256	15854	31	0	15885
8	3083	20677	23760	1424	643	8734	17093	24	2	17119
9	2834	20646	23480	1339	633	7788	17664	-9	1	17665
10	2089	20414	22503	1264	638	6558	17846	-16	0	17846
11	1649	19996	21644	1241	644	5503	18026	5	0	18031
12	1530	19706	21235	1241	644	4692	18428	2	0	18430
13	1333	19323	20656	1245	630	3972	18558	13	0	18571
14	1203	19012	20214	1232	651	3892	18205	2	1	18207
15	1037	20025	21062	1240	650	5185	17767	6	137	17910
16	1254	20500	21754	1221	645	5791	17830	3	1	17834
17	2999	21275	24274	1221	627	7468	18653	34	186	18874
18	4592	21818	26411	1306	580	7630	20666	22	576	21264
19	4830	21902	26732	1465	588	7847	20937	-29	723	21631
20	4225	21703	25927	1620	594	7621	20519	-34	499	20984
21	4362	21493	25855	1530	616	7389	20612	2	117	20730
22	4033	21094	25127	1523	636	7299	19986	-5	0	19986
23	2341	20930	23271	1516	663	6742	18708	-8	0	18708
24	1941	20527	22468	1452	681	6232	18369	-2	0	18369

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

FOR THE MONTH OF OCT'2022

POWER CUT / RESTRICTIONS

BSPHCL	NO NOTIFIED CUTS/RESTRICTIONS However there was loadshedding of 37.50 MU
JUVNL	NO NOTIFIED CUTS/RESTRICTIONS However there was loadshedding of 30.55 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 1.21 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

Oct-22

D A T E	H O U R S										INST. FREQ.				15 MIN. INTEGRATED			
	00	05	10	17	22	00												
	TO	TO	TO	TO	TO	TO												
	05	10	17	22	24	24	<49.9	49.9	>50.05	49.9	MAX	HRS.	MIN	HRS.	MAX	HRS.	MIN	HRS.
							TO	TO	TO	TO	HZ		HZ		HZ		HZ	
01-Oct	50.01	50.02	49.99	49.99	49.99	50.00	4.55	76.41	19.04	76.41	50.18	06:00:40	49.76	17:54:00	50.08	0:00	49.83	0:00
02-Oct	50.00	50.04	50.01	50.02	50.00	50.01	0.08	80.07	19.85	80.07	50.31	06:01:20	49.89	15:51:10	50.18	0:00	49.95	0:00
03-Oct	49.96	50.01	50.00	49.99	50.00	49.99	2.42	86.35	11.23	86.35	50.15	09:59:50	49.83	18:43:20	50.09	0:00	49.88	0:00
04-Oct	50.00	49.99	49.99	49.99	49.97	49.99	4.84	84.83	10.33	84.83	50.14	12:01	49.80	18:41	50.06	0:00	49.87	0:00
05-Oct	49.99	50.00	49.96	50.00	50.00	49.99	6.10	80.67	13.23	80.67	50.14	18:02:00	49.78	10:41:20	50.07	0:00	49.83	0:00
06-Oct	50.02	49.97	50.00	49.99	49.99	50.00	3.59	82.42	13.99	82.42	50.18	13:04:00	49.74	08:19:00	50.19	0:00	49.86	0:00
07-Oct	49.98	50.01	50.01	50.01	49.99	50.00	0.20	83.84	15.96	83.84	50.15	13:01:50	49.87	14:51:40	50.10	0:00	49.93	0:00
08-Oct	50.00	50.00	49.98	49.97	49.94	49.98	8.54	79.18	12.28	79.18	50.18	13:01:00	49.66	16:54:20	50.12	0:00	49.76	0:00
09-Oct	49.98	50.00	50.00	50.02	50.00	50.00	1.47	83.22	15.31	83.22	50.15	18:50:00	49.80	14:57:10	50.09	0:00	49.87	0:00
10-Oct	49.98	49.97	50.00	49.97	50.00	49.98	7.56	79.07	13.37	79.07	50.20	13:02:20	49.71	17:54:10	50.10	0:00	49.78	0:00
11-Oct	50.01	50.02	50.00	49.99	50.02	50.01	1.34	78.64	20.02	78.64	50.15	13:02:50	49.81	18:13:40	50.08	0:00	49.90	0:00
12-Oct	50.02	50.02	50.01	49.99	50.00	50.01	1.96	77.02	21.02	77.02	50.21	13:02:00	49.79	18:16:40	50.13	0:00	49.89	0:00
13-Oct	50.01	50.03	50.00	50.00	49.98	50.00	3.44	77.58	18.98	77.58	50.30	13:04:30	49.78	15:14:30	50.20	0:00	49.89	0:00
14-Oct	50.02	50.00	50.04	49.99	49.99	50.01	2.80	71.15	26.05	71.15	50.31	13:03:40	49.78	18:11:40	50.21	0:00	49.91	0:00
15-Oct	50.00	50.03	50.00	49.97	50.01	50.00	5.39	73.91	20.69	73.91	50.16	07:53:20	49.86	11:24:00	50.12	0:00	49.79	0:00
16-Oct	49.99	50.01	49.99	50.01	49.99	50.00	1.69	81.15	17.16	81.15	50.20	13:03:50	49.75	00:32:30	50.10	0:00	49.92	0:00
17-Oct	49.99	49.98	49.97	49.97	50.00	49.98	10.45	78.38	11.17	78.38	50.15	13:04:20	49.85	17:54:40	50.09	0:00	49.83	0:00
18-Oct	49.99	50.00	50.00	50.00	50.01	50.00	2.75	83.43	13.82	83.43	50.21	15:02:50	49.75	11:49:10	50.10	0:00	49.90	0:00
19-Oct	49.96	49.99	50.01	49.99	50.00	49.99	4.24	83.28	12.48	83.28	50.14	13:01:20	49.87	18:12:10	50.08	0:00	49.86	0:00
20-Oct	49.99	50.01	50.02	50.01	49.99	50.01	0.10	81.98	17.92	81.98	50.16	10:35:20	49.80	21:50:10	50.09	0:00	49.93	0:00
21-Oct	49.98	49.99	50.02	50.00	50.01	50.00	3.39	76.18	20.43	76.18	50.21	13:21:50	49.86	16:12:10	50.16	0:00	49.89	0:00
22-Oct	49.99	50.00	50.02	50.01	49.98	50.00	0.54	82.27	17.19	82.27	50.23	13:03:20	49.82	00:34:20	50.07	0:00	49.95	0:00
23-Oct	49.97	50.03	50.00	50.01	49.97	50.00	3.10	79.93	16.97	79.93	50.15	18:16:20	49.82	00:49:00	50.07	0:00	49.89	0:00
24-Oct	49.99	50.01	50.05	50.03	50.00	50.02	4.33	59.05	36.62	59.05	50.41	13:06:20	49.71	16:13:40	50.32	0:00	49.83	0:00
25-Oct	50.02	50.00	50.06	49.99	49.98	50.02	5.27	59.97	34.77	59.97	50.32	14:04:10	49.53	18:12:40	50.22	0:00	49.71	0:00
26-Oct	49.94	49.97	50.00	50.00	49.95	49.98	13.40	67.12	19.49	67.12	50.21	10:54:50	49.75	23:06:00	50.15	0:00	49.83	0:00
27-Oct	49.96	49.94	49.95	49.99	49.97	49.96	14.56	79.33	6.11	79.33	50.15	16:31:00	49.75	17:44:10	50.05	0:00	49.85	0:00
28-Oct	49.96	49.96	49.92	49.99	49.98	49.96	18.59	72.38	9.03	72.38	50.19	06:02:00	49.67	12:16:40	50.05	0:00	49.75	0:00
29-Oct	49.98	49.94	49.98	49.99	50.00	49.98	8.60	82.15	9.25	82.15	50.14	13:04:30	49.73	08:06:00	50.06	0:00	49.86	0:00
30-Oct	50.00	49.98	50.01	49.99	50.00	50.00	2.74	83.42	13.84	83.42	50.22	06:01:10	49.77	17:40:10	50.11	0:00	49.90	0:00
31-Oct	50.00	49.99	49.98	50.00	50.00	49.99	3.14	81.64	15.22	81.64	50.15	14:01:30	49.78	17:44:30	50.08	0:00	49.90	0:00
MAX	50.02	50.04	50.06	50.03	50.02	50.02	18.59	86.35	36.62	86.35	50.41		49.89		50.32		49.95	
MIN	49.94	49.94	49.92	49.97	49.94	49.96	0.08	59.05	6.11	59.05	50.14		49.53		50.05		49.71	
AVG	49.99	50.00	50.00	50.00	49.99	50.00	4.88	78.26	16.87	78.26	50.20		49.77		50.12		49.86	

SUMMARY:

Avg. Frequency :

50.00 Hz.

Instantaneous Frequency :

Maximum Frequency : 50.41 Hz at 13:06 Hrs.

Minimum Frequency : 49.53 Hz at 18:12 Hrs.

15 Minutes Integrated Frequency :

Maximum Frequency : 50.32 Hz On 00/01/00 at 00:00 Hrs.

Minimum Frequency : 49.71 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	4.88	78.26	16.87

VOLTAGE ANALYSIS

MAXIMUM & MINIMUM VOLTAGES RECORDED AT IMPORTANT 400 kV S/S IN THE MONTH OF OCT'2022

(All figs. in kV)

PGCIL	BINAGURI		MAITHON		JEERAT		BIHARSHARIFF	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	418	402	412	399	422	397	421	398

PGCIL	MUZAFFARPUR		JAMSHEDPUR		ROURKELA		JEYPORE	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	412	391	415	388	412	395	419	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

Oct-22

(All figs.in mtrs.)

Name of the Reservoirs	FRL	MDDL	As on last day of the		As on first day of this month & date	
			(31-10-22)	(31-10-21)		
Hirakud	192	180	191.81	191.95	192.02	01.10.22
Balimela	462	439	452.66	452.05	450.83	01.10.22
Rengali	123	109	123.01	122.61	122.74	01.10.22
Upperkolab	858	844	855.74	851.42	854.75	01.10.22
Indravati	642	625	638.75	631.54	640.02	01.10.22
Subernrekha	590	580	587.11	587.53	589.57	01.10.22

B.

CPP/IPP IMPORT by Eastern Region Constituents during

Oct-22

(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	33.79
West Bengal	78.88	26.78	0	0	0	0	0	169.63	275.29
ODISHA	0	0	8.07	8.19	2.02	0.00	0	570.40	588.67
DVC	0	0	0	0	0	0	11.96	0	11.96
TOTAL	78.88	26.78	8.07	8.19	2.02	0.00	11.96	740.03	909.71

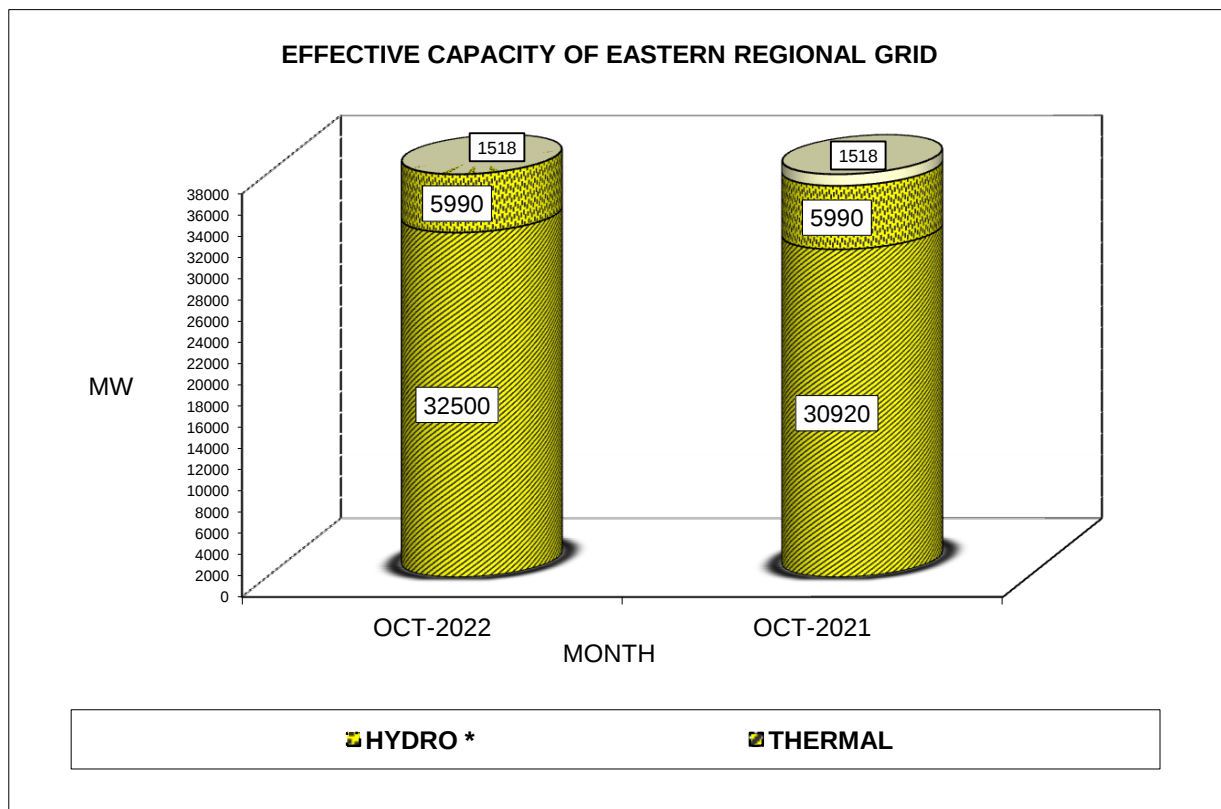
C.

Distribution of Schedule Supply among Key Customers by IPPs during

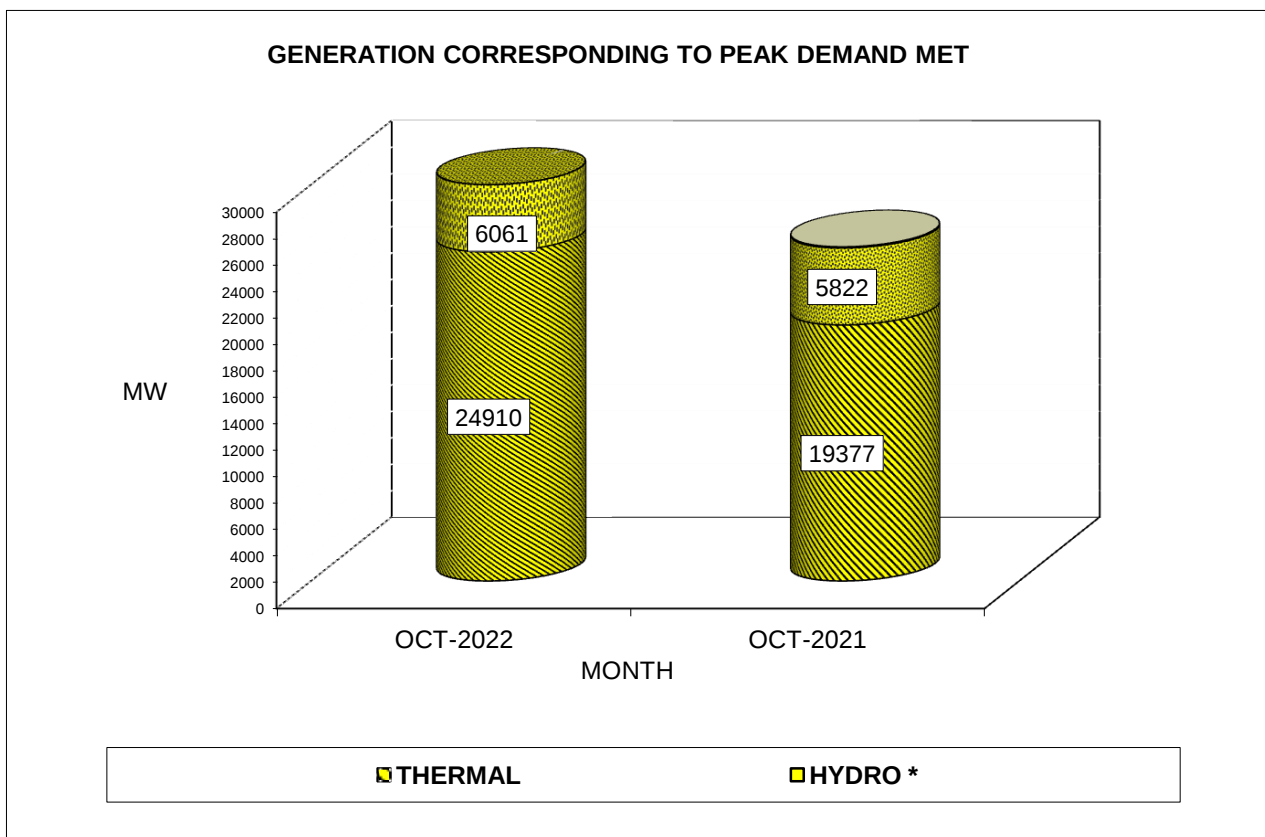
Oct-22

(All figs. are in MU)

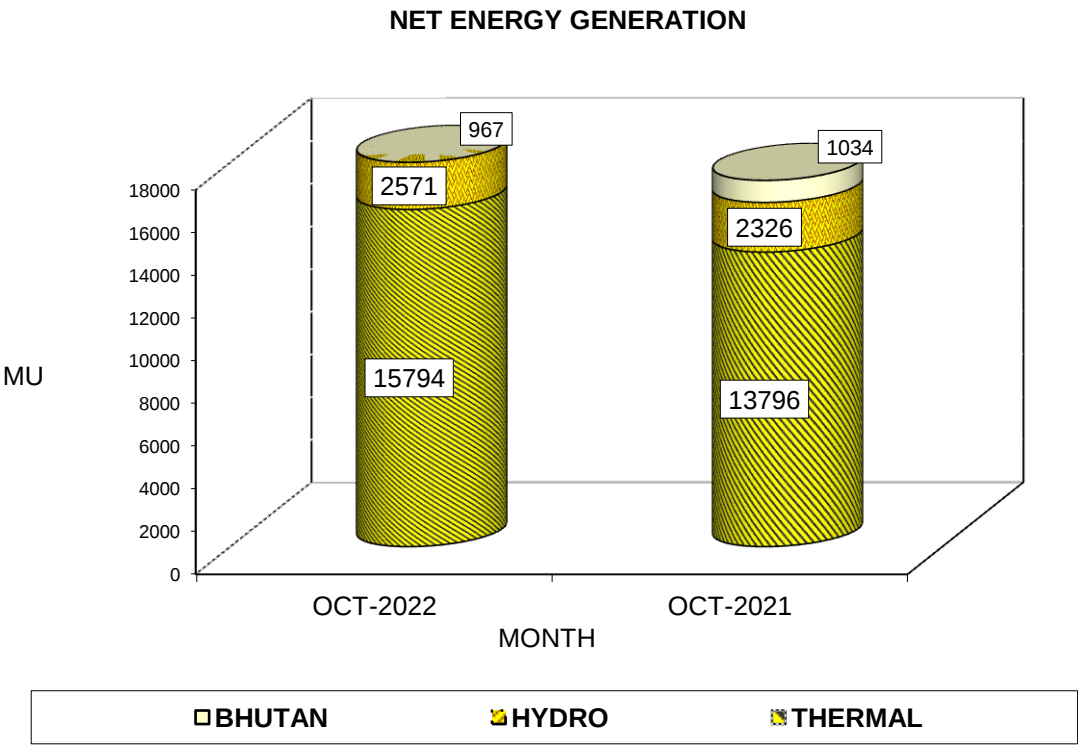
IPP	TPDDL	WBSEDCL/ WBPDCCL	DVC	Sale at IEX/NPCL	ODISHA	JSEB	CTU/Others	Total (Excl. Tr. Loss)
MPL	190.59	164.56	95.84	0.00	0	0	145.53	596.52
Sterlite	0	0	0	0	0.00	0	0.00	0.00
APNRL	0	33.97	0	8.65	0.00	69.70	124.80	237.12
Total	190.59	198.53	95.84	8.65	0.00	69.70	270.33	833.64



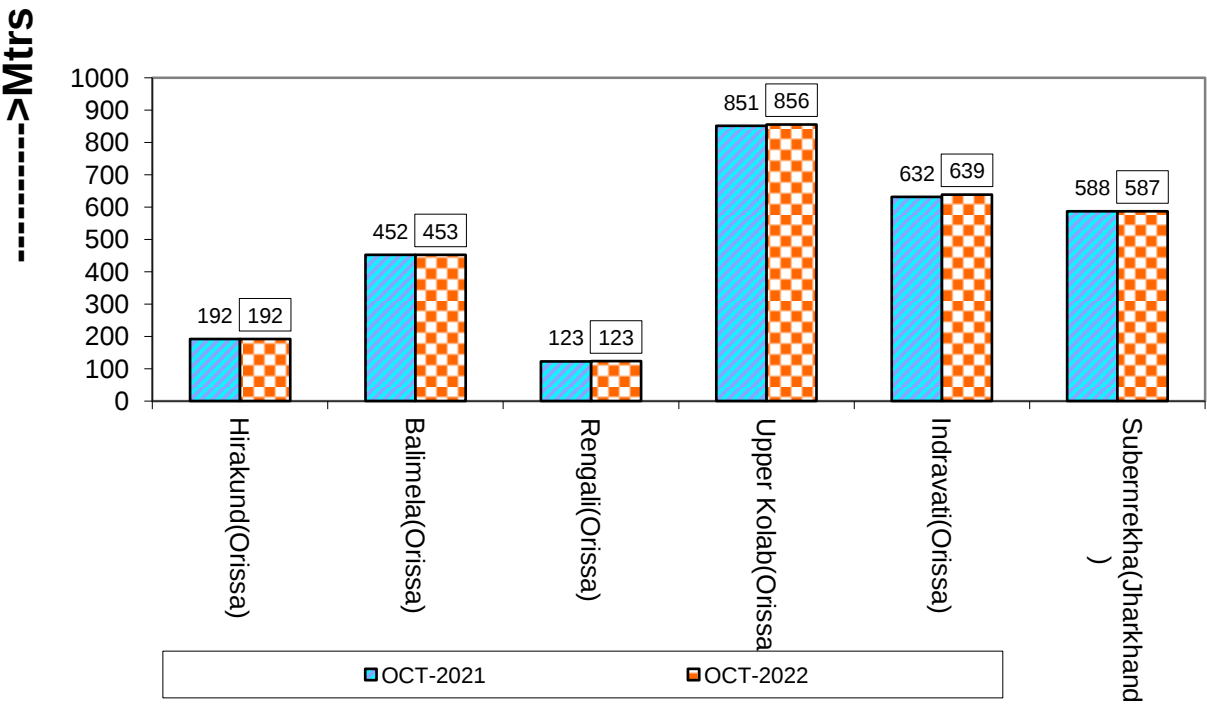
*Excludes contribution from HEPs of Bhutan

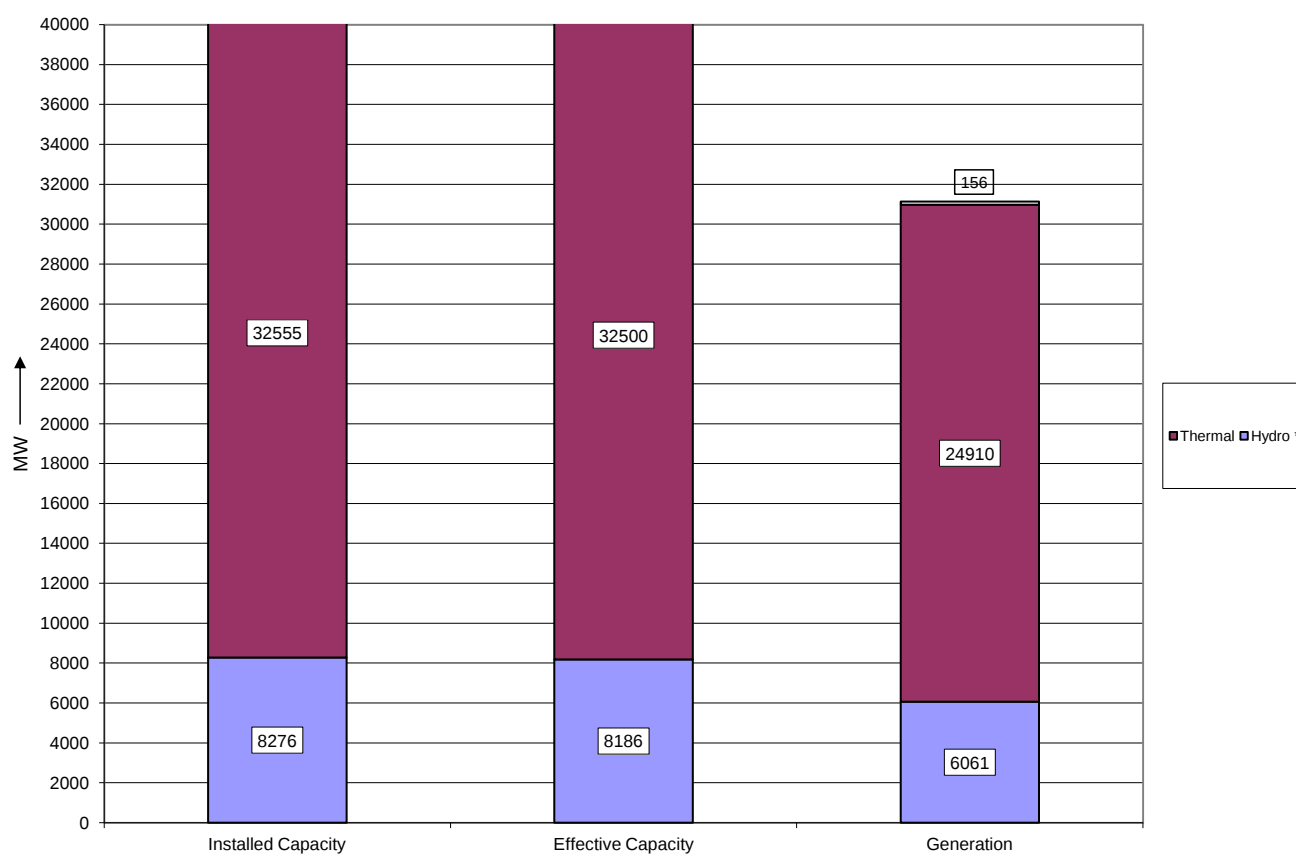


*Includes contribution from HEP of Bhutan



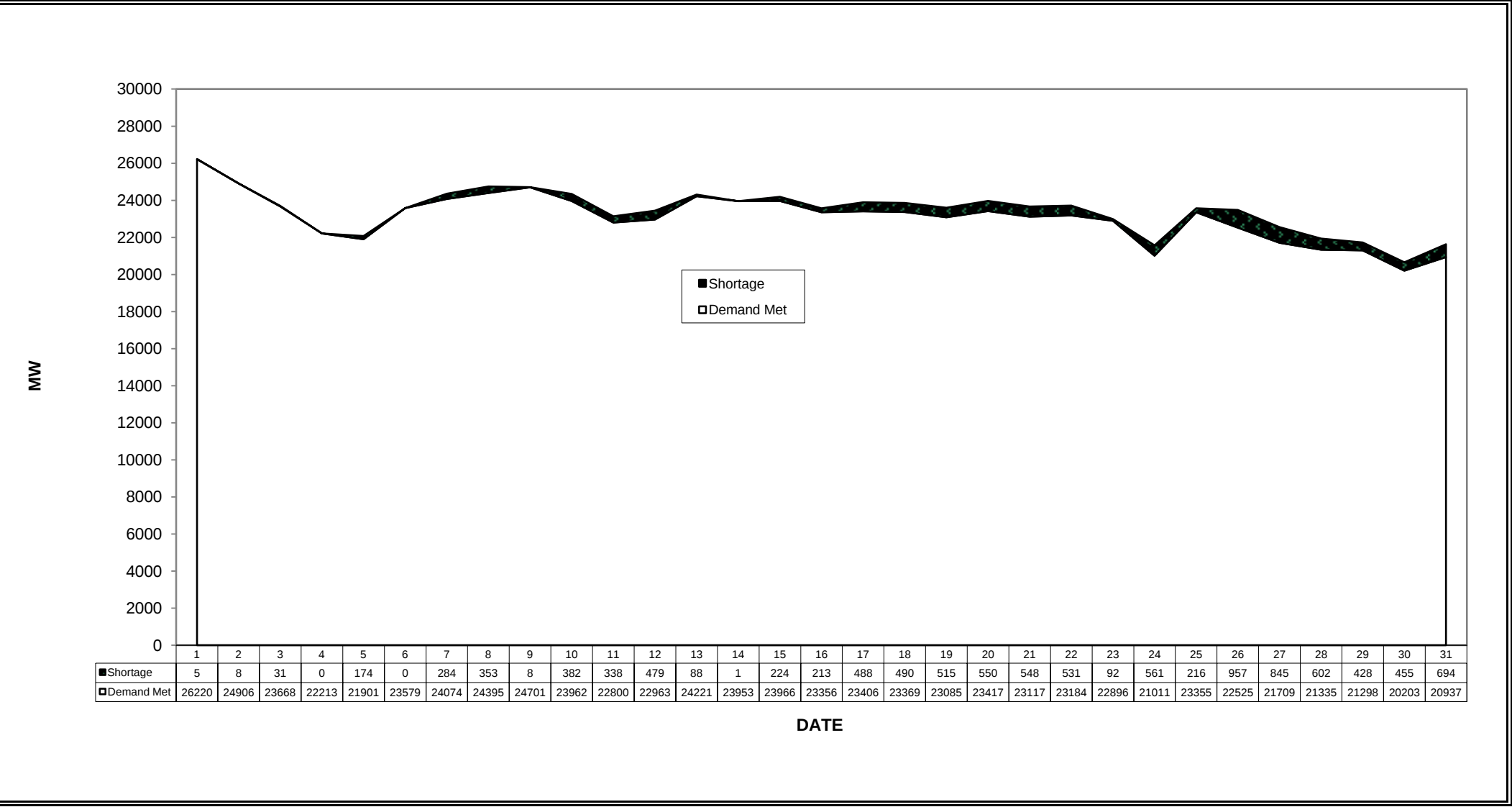
RESERVOIR LEVEL OF HPS OF ER (RECORDED ON LAST DAY OF MONTH)



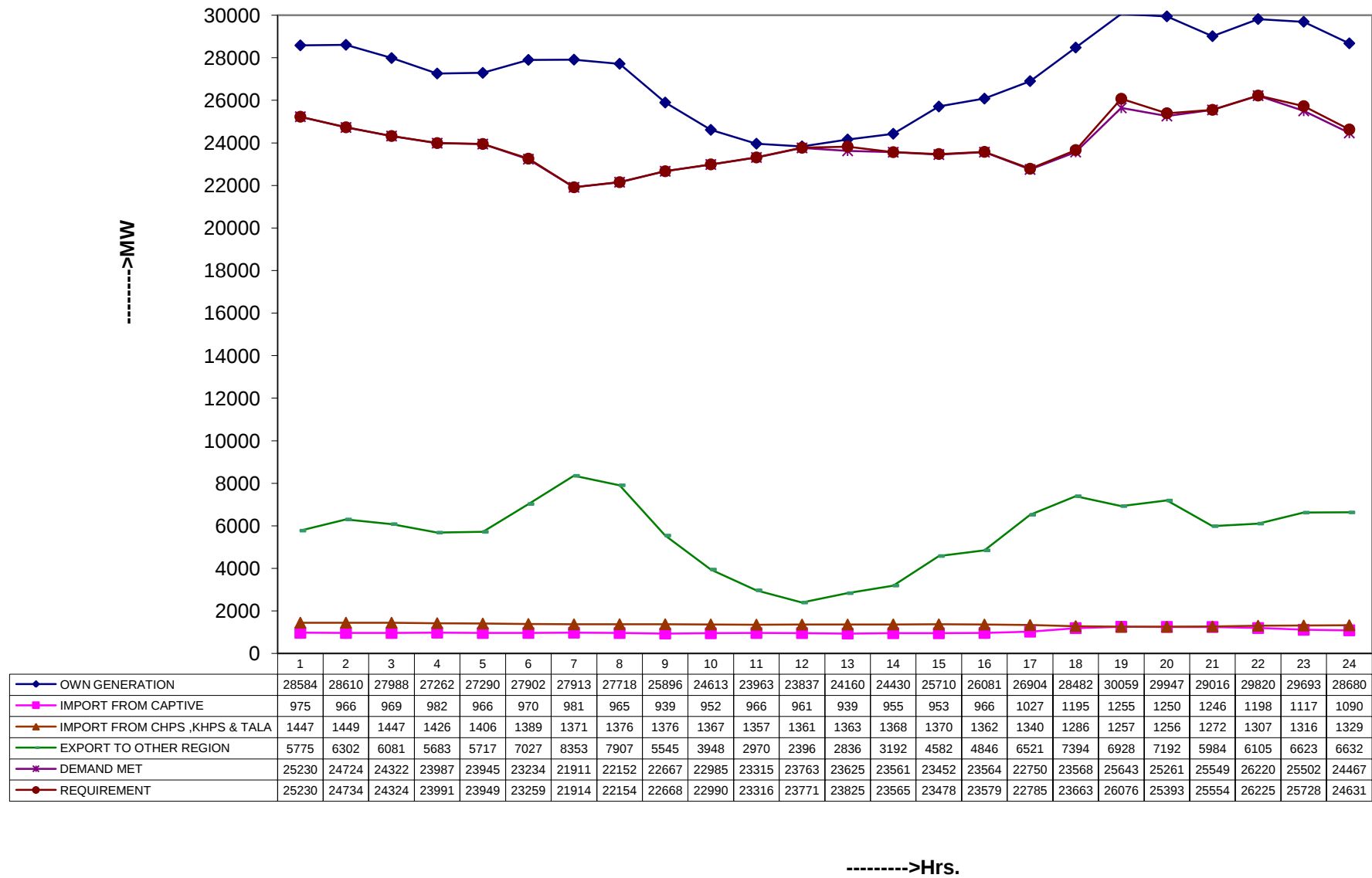
Capacity / Actual Generation Pattern of ER on Peak Day (1-10-2022) at 22.00 hrs.

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

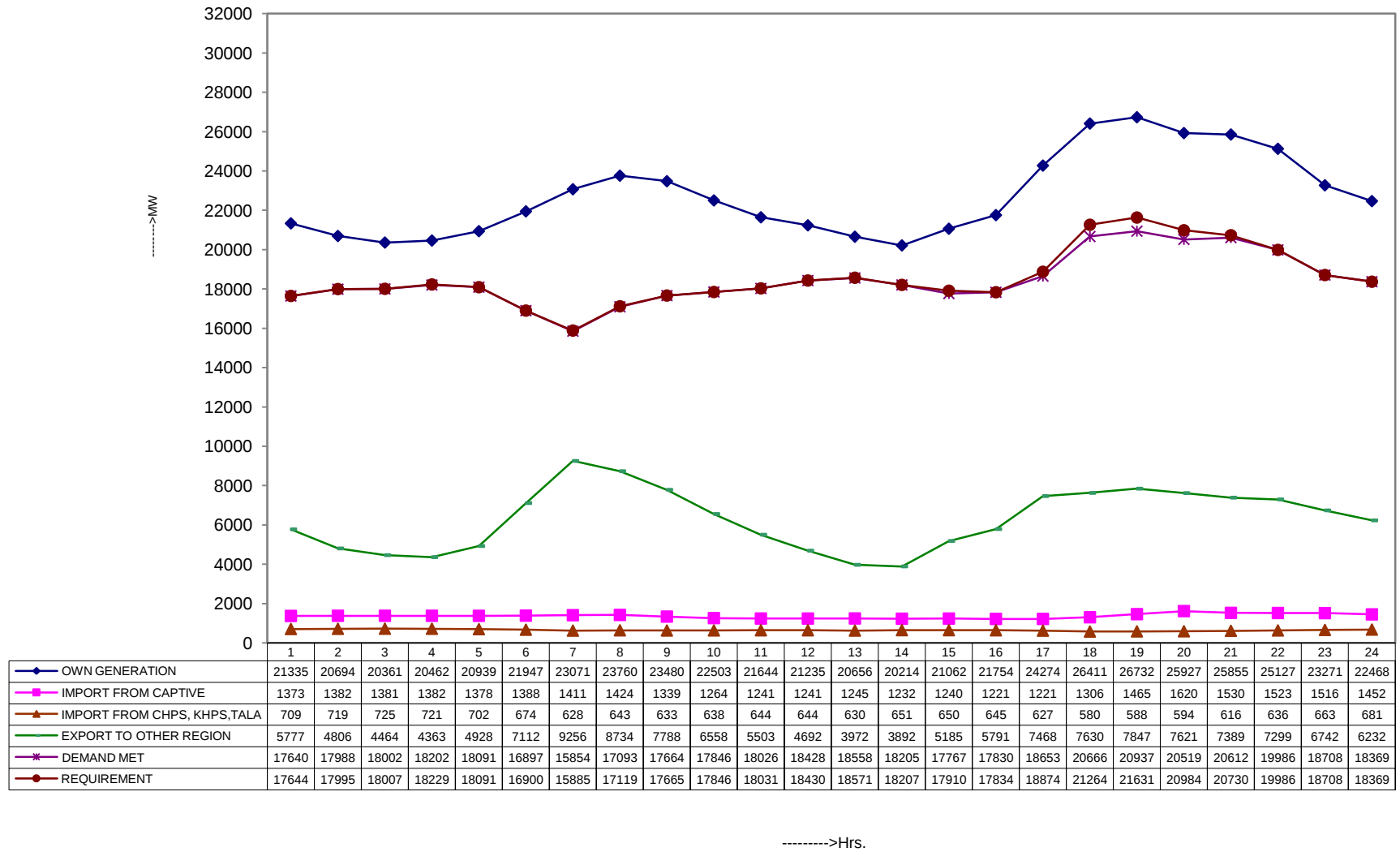
Peak Demand Met / Shortage of Eastern Region For The Month Of OCT'2022



Hourly Load Generation Data OF ER on Regional Peak Day During The Month of OCT'2022 (1-10-2022)

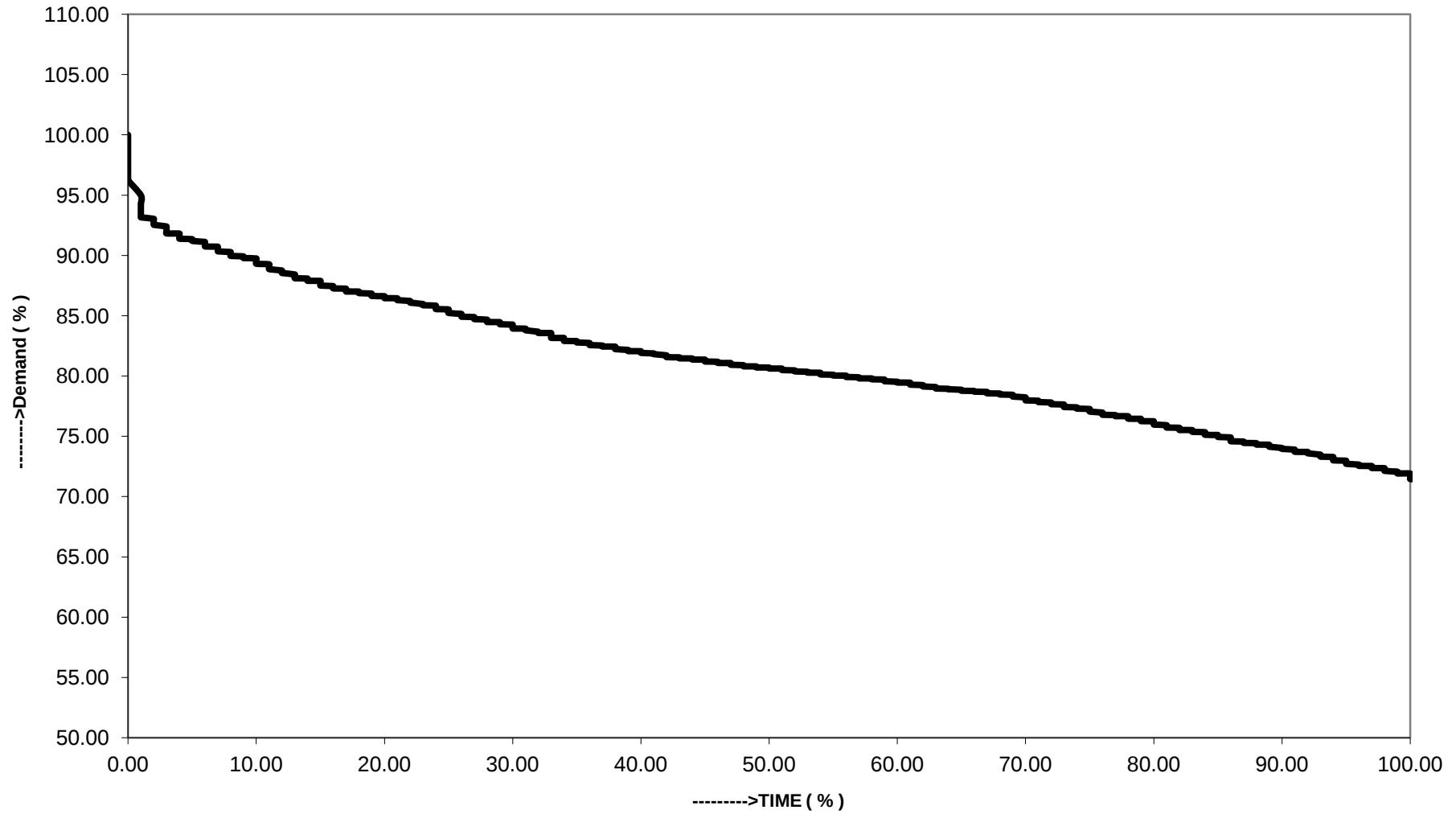


Hourly Load Generation Data of ER On Regional Lean Day During The Month of OCT'2022 (31-10-2022)



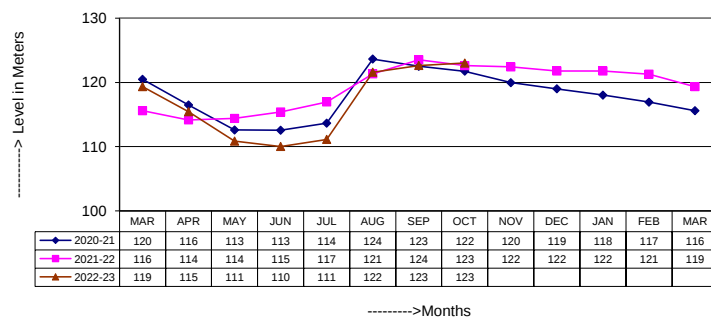
Monthly Load Duration Curve of Eastern Region for OCT-2022

Maximum Demand met : 26220 MW
Minimum Demand met: 15854 MW

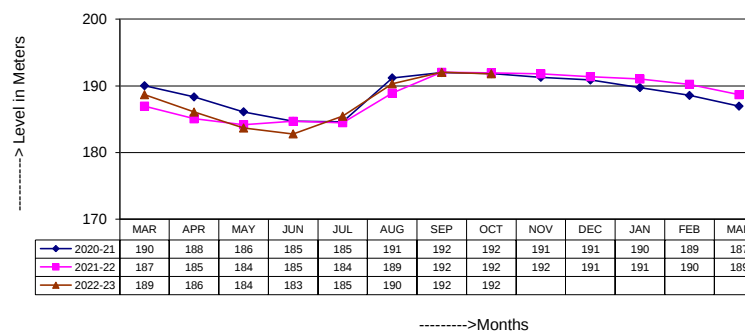


WATER LEVEL IN MAJOR RESERVOIRS ON LAST DATE OF MONTH

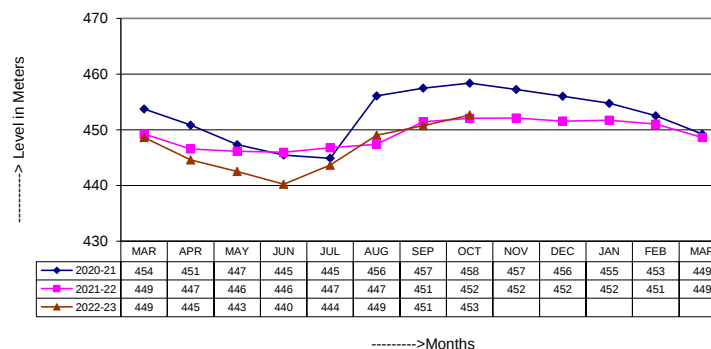
RENGALI RESERVOIR LEVEL



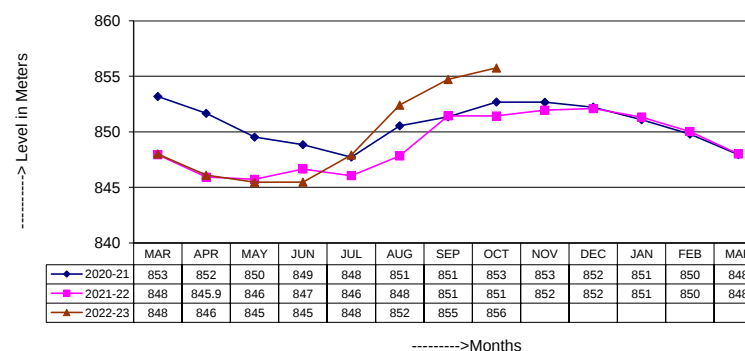
HIRAKUD RESERVOIR LEVEL



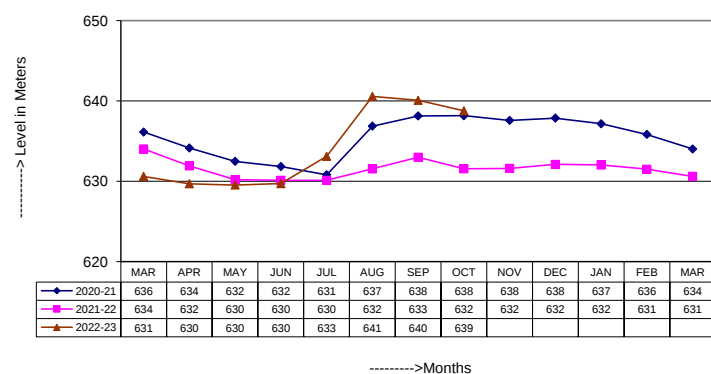
BALIMELA RESERVOIR LEVEL



UPPER KOLAB RESERVOIR LEVEL



INDRAVATI RESERVOIR LEVEL



SUBERNREKHA RESERVOIR LEVEL

