



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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दिनांक/Date: 06.10.2022

सेवा में : (संलग्न सूची के अनुसार)

To: As per enclosed list.

विषय : अगस्त, 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 August, 2022 on ERPC website.

महोदय / Sir ,

पूर्वी क्षेत्रीय विद्युत समिति की अगस्त, 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 **August, 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

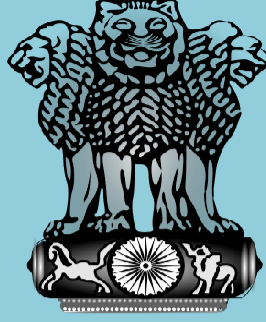
सनातन
06.10.2022

(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

अगस्त - 2022

AUGUST-2022



14, गोल्फ क्लब रोड, टोलीगंज

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INDEX

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

Highlights of Eastern Regional Power System for August- 2022

- The **Maximum Net Demand** met of Eastern Region (ER) during the month of Aug, 2022 was **27218 MW** which is 12.67% more than the Aug, 2021 (24157 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 Aug, 2022 was **556.08 MU** (excluding export), which is 10.91% more than the corresponding period of last year (501.37 MU).
- **The Average regional PLF of thermal units during the month is 70.45 %**, which is 2.67% more than the corresponding period of the last year (67.78%).

HEL (Haldia) registered the highest PLF of 91.87%, followed by MPL (IPP) 88.77% and Chandrapura U 7#8 (DVC) 86.31% during the month of Aug, 2022.
- **Maximum Net generation** was **30640.83 MW** against total **Effective Capacity of 42203.41 MW** (including import from Bhutan). At the time of Regional peak (**27218 MW** on 17.08.2022 at 23.00 hrs.), the generation was **30593 MW**, import from CPP was 1465 MW and Net export was 4840 MW.
- The system frequency in the IEGC recommended band (49.9 Hz to 50.05 Hz) remained for 75.76% of time during the month. **Average frequency** for the month was **49.98 Hz**. The instantaneous maximum and minimum frequency were 50.31 Hz and 49.47 Hz, respectively. The integrated (Fifteen minutes time block average) maximum and minimum frequency were **50.28 Hz** and **49.53 Hz** respectively (refer Annexure-I).
- At 400 kV voltage level, the **maximum Voltage** recorded was 420 KV at Jeerat 400 KV S/s whereas the minimum voltage recorded 388 KV at Muzaffarpur 400 KV S/s of Power grid.
- The **Maximum Export from ER to outside region was 9981 MW (including Nepal and Bangladesh) on 20th Aug, 2022 at 07:00 hrs.** Total net energy export during the month was 3630.62 MU (Inc.Transmission loss) which corresponds to 18.18 % of Ex-bus total generation 19971.90 MU of Eastern Region.
- The import from CPPs was 897.25 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	6742	0	2917.94
WR	1674	3307	-800.52
SR	3861	348	856.46
NER	881	569	208.51
BANGLADESH			689.04
NEPAL (via-CTU)			-240.44
Chukha, Kurichu, Tala			0
Total			3630.62
NEPAL by Bihar(NBPDCL)			1.36

SALIENT FEATURES

(YEAR TO YEAR COMPARISON)

		Aug-22	AUG-2021	CHANGE	% CHANGE
1) Effective Capacity (end of the Month)					
THERMAL	(MW)	32500	30120	2380	7.90
HYDRO	(MW)	5990	\$ 5990	0	0
DIESEL	(MW)	0	0	0	0
RES	(MW)	1518	1518	0	0
TOTAL	(MW)	40007	37627	2380	6.33
2) Peak Demand (MW)		28275	24236	4039	16.67
3) Peak Demand Met (MW)		27218	24157	3061	12.67
4) Shortage (MW)		1057	79	978	0.00
5) % Shortage		3.74	0.33	3.41	0.00
6) Average Energy Requirement Per Day (MU)		563.58	505.13	58.45	11.57
7) Average Energy Availability Per Day (MU)		556.08	501.37	54.71	10.91
8) Average Shortage Per Day (MU)		7.50	3.76	3.74	--
9) % Shortage		1.33	0.74	0.59	--
10) Net Generation for the Month					
Thermal (MU)		15753.12	14141.36	1611.76	11.40
Hydro (MU)		4130.71	* 4311.07	-180.36	-4.18
RES (MU)		88.07	96.37	0.00	-
Total (MU)		19971.90	18548.80	1423.10	7.67
11) Generation at the Time of Max. Regional Demand Met (17-08-22 at 23.00 Hrs.)					
Thermal (MW)		23536	20746	2790	13.45
Hydro (MW)		6971	* 6843	128	1.86
RES(MW)		86	94	-8	-8.67
Total (MW)		30593	27683	2910	10.51
12) Inter-Regional Energy Transfer					
Export (MU)		4671.58	4807.68	-136.10	-2.83
Import (MU)		1040.96	553.42	487.54	88.10
Net Exp.(+)/Net Imp.(-) (MU)		3630.62	4254.26	-623.64	-14.66
13) Import From Captive(MU)		897.25	1247.91	-350.66	-28.10
14) Peak Inter Regional Power Transfer					
Max Export (MW) on 20-08-22 at 07.00Hrs		9981	8855	1126	12.71
Max Import (MW) on 12-08-22 at 14.00Hrs		3307	2552	755	29.59
Max Net Export(+)/Import (-) (MW)		9981	8721	1260	14.45
15) Maximum voltage recorded		420	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 AUG'2022

A) Net Average Energy Per Day

System	Requirement Met (MU/Day)	Requirement (MU/Day)	Shortage (MU/Day)	% Shortage
BSPHCL	128.89	134.36	5.47	4.07
JUVNL	35.63	37.57	1.94	5.16
DVC	71.16	71.19	0.04	0.05
ODISHA	131.91	131.98	0.07	0.05
WBSEDCL	152.33	152.57	0.24	0.16
CESC	34.41	34.43	0.02	0.05
SIKKIM	1.48	1.48	0.00	0.05
REGION	556.08	563.58	7.50	1.33

B) Peak Demand in MW:

System	Demand Met (MW)	Demand (MW)	Shortage (MW)	% Shortage
BSPHCL	6654	7608	953	12.53
JUVNL	1757	2138	381	17.80
DVC	3257	3261	4	0.11
ODISHA	6391	6511	119	1.83
WBSEDCL	7958	7958	0	0.00
CESC	2019	2019	0	0.0
SIKKIM	98	98	0	0.00
REGION	27218	28275	1057	3.74

➤ DIVERSITY FACTOR : 1.03

➤ Regional Peak Demand Met on 17-8-2022 at 23.00 hrs. at 49.99 Hz.

CONSTITUENT-WISE PERFORMANCE DATA AUG-2022

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 (MW)	Gross Peak Demand (MW)
	HYDRO	Thermal	RES (Hy+Solar)	Total	HYDRO	Thermal	Solar	Total	HYDRO	Thermal	Solar	Total						
BSPHCL	0.00	247.94	22.59	270.53	0.00	25.29	0.00	25.29	0.00	222.65	22.59	245.24	0.00	3750.32	3995.56	128.9	6654	6705
JUVNL	24.84	382.75	0.00	407.59	0.01	39.38	0.00	39.39	24.83	343.37	0.00	368.20	39.28	697.16	1104.64	35.6	1757	1808
DVC	20.71	3469.68	0.00	3490.38	0.18	254.93	0.00	255.11	20.52	3214.75	0.00	3235.27	9.40	-1038.84	2205.83	71.2	3257	3641
ODISHA(OPGC+OHPC+TTPS)	658.22	909.52	44.91	1612.66	4.97	60.10	0.00	65.06	653.26	849.43	44.91	1547.59	553.81	1987.75	4089.16	131.9	6391	6490
WBPDC+WBSEDCL+DPL	194.92	2568.50	17.69	2781.11	0.00	231.71	0.00	231.71	194.92	2336.79	17.69	2549.40	294.75	1878.00	4722.15	152.3	7958	8315
CESC	0.00	511.38	0.00	511.38	0.00	41.89	0.00	41.89	0.00	469.48	0.00	469.48	0.00	597.16	1066.64	34.4	2019	2090
HEL	0.00	410.12	0.00	410.12	0.00	32.14	0.00	32.14	0.00	377.97	0.00	377.97	0.00	-377.97				
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	43.93	45.926	1.5	98	98
NTPC	0.00	6377.07	0.88	6377.95	0.00	450.50	0.00	450.50	0.00	5926.57	0.88	5927.45	0.00	-5927.45				
MPL	0.00	693.49	0.00	693.49	0.00	38.84	0.00	38.84	0.00	654.65	0.00	654.65	0.00	-654.65				
APNRL	0.00	324.64	0.00	324.64	0.00	29.10	0.00	29.10	0.00	295.54	0.00	295.54	0.00	-295.54				
GMR	0.00	396.94	0.00	396.94	0.00	29.57	0.00	29.57	0.00	367.36	0.00	367.36	0.00	-367.36				
JITPL	0.00	743.82	0.00	743.82	0.00	49.27	0.00	49.27	0.00	694.55	0.00	694.55	0.00	-694.55				
NHPC (Inc TLDP= 202.98MU)	594.79	0.00	0.00	594.79	0.00	0.00	0.00	0.00	594.79	0.00	0.00	594.79	0.00	-594.79	0.00			
CHUZACHEN HPS	79.38	0.00	0.00	79.38	0.00	0.00	0.00	0.00	79.38	0.00	0.00	79.38	0.00	-79.38	0.00			
DIKCHU HPS	77.09	0.00	0.00	77.09	0.00	0.00	0.00	0.00	77.09	0.00	0.00	77.09	0.00	-77.09	0.00			
JORHANG HPS	69.35	0.00	0.00	69.35	0.00	0.00	0.00	0.00	69.35	0.00	0.00	69.35	0.00	-69.35	0.00			
TASHIDING HPS	77.61	0.00	0.00	77.61	0.00	0.00	0.00	0.00	77.61	0.00	0.00	77.61	0.00	-77.61	0.00			
TEESTA-III HPS	907.71	0.00	0.00	907.71	0.00	0.00	0.00	0.00	907.71	0.00	0.00	907.71	0.00	-907.71	0.00			
RONGNICHU HEP	62.68	0.00	0.00	62.68	0.00	0.00	0.00	0.00	62.68	0.00	0.00	62.68	0.00	-62.68	0.00			
CHPC(Birpara Receipt)	264.14	0.00	0.00	264.14	0.00	0.00	0.00	0.00	264.14	0.00	0.00	264.14	0.00	-264.14	0.00			
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	0.00			
THPS	551.16	0.00	0.00	551.16	0.00	0.00	0.00	0.00	551.16	0.00	0.00	551.16	0.00	-551.16	0.00			
DAGACHU HPS	67.66	0.00	0.00	67.66	0.00	0.00	0.00	0.00	67.66	0.00	0.00	67.66	0.00	-67.66	0.00			
Mangdechhu HEP	485.63	0.00	0.00	485.63	0.00	0.00	0.00	0.00	485.63	0.00	0.00	485.63	0.00	-485.63	0.00			
Total Drawal by HVDC Sahsaram,Alipurduar & Kuruchhu HEP														8.61	8.61			
Total	4135.87	17035.85	88.07	21259.78	5.16	1282.73	0.00	1287.89	4130.71	15753.12	88.07	19971.90	897.25	-3630.63	17238.51	556.08	27218	28406

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	-	-	-	-	-
OCTOBER	453.17	458.67	5.51	1.20	49.98	-	-	-	-	-
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	-	-	-	-	-
OCTOBER	23675	23979	304	1.27	49.98	-	-	-	-	-
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 AUG -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	-0.59	33.38	24.69
	Thermal	Barauni (U# 8)	250.00	250.00	102.78	92.30	654.49	595.52
		Barauni (U# 9)	250.00	250.00	145.17	130.94	730.31	657.53
	(Dedicated for Bihar)	Muzaffarpur Stg-I	220.00	220.00	0.00	0.00	0.00	0.00
		Thermal Total	940.00	930.00	247.94	222.65	1418.18	1277.75
	RES		354.91	354.91	22.59	22.59	105.41	105.41
		Total BIHAR	1294.91	1284.91	270.53	245.24	1523.59	1383.16
JHARKHAND								
TVNL	Thermal	TVNL	420.00	420.00	229.63	203.48	1094.32	974.99
TPCL		JOJOBERA	240.00	240.00	153.12	139.89	309.88	283.10
JSEB	Hydro	Subarnrekha (U#1,2)	130.00	130.00	24.84	24.83	36.46	36.44
	RES		60.41	60.41	0.00	0.00	0.00	0.00
		Total	190.41	190.41	24.84	24.83	36.46	36.44
DVC	Thermal	Bokaro-B(3)	0.00	0.00	0.00	-0.81	0.00	-3.24
		Chandrapura(U7 # 8)	500.00	500.00	321.06	288.52	1496.16	1347.49
		Durgapur(4)	210.00	210.00	18.52	14.90	135.12	111.48
		Mezia(1,2,3,4,5,6)	1340.00	1340.00	642.56	574.34	3647.74	3252.17
		Mejia(U # 7,8)	1000.00	1000.00	604.19	569.63	3127.78	2953.34
		Bokaro-A(1)	500.00	500.00	310.92	293.17	1579.54	1489.35
		Durgapur STPS (U#1,2)	1000.00	1000.00	474.48	446.26	2956.14	2792.77
		Raghunathpur TPS (U#1,2)	1200.00	1200.00	550.00	514.29	2649.72	2480.36
		Koderma STPS (U#1,2)	1000.00	1000.00	547.96	514.45	3034.11	2859.62
		Total Thermal	6750.00	6750.00	3469.68	3214.75	18626.32	17283.34
	Hydro	Maithon (U#1,2,3)	63.20	63.20	0.10	0.07	29.43	29.27
		Panchet (U#1,2)	80.00	80.00	20.60	20.47	45.91	45.33
		Tilaiya (U#1,2)	4.00	4.00	0.00	0.0	0.00	-0.1
		Hydro Total	147.20	147.20	20.71	20.52	75.34	74.55
	Total DVC	6897.20	6897.20	3490.38	3235.27	18701.66	17357.89	
WEST BENGAL								
WBPDCL	Thermal	Bandel TPS	320.00	275.00	151.08	136.03	711.49	638.55
		Santalidih TPS(U#5&6)	500.00	500.00	258.02	235.56	1644.82	1507.41
		Kolaghat TPS	840.00	840.00	342.42	300.98	1729.62	1521.05
		Bakreswar TPP	1050.00	1050.00	670.76	611.07	3319.57	3028.05
		Sagardighi TPP	1600.00	1600.00	960.08	884.91	4685.73	4325.58
		DPPS (300+250)	550.00	550.00	186.15	168.24	1037.45	930.76
		Thermal Total	4860.00	4815.00	2568.50	2336.79	13128.67	11951.40
WBSEDCL	Hydro	Jaldhaka (3x9+2x4)	35.00	35.00	21.07	21.07	94.21	94.21
		Rammam (4x12.73)	51.00	51.00	38.04	38.04	119.91	119.91
		Teesta C.F. (3x3x7.5)	67.50	67.50	12.03	12.03	51.73	51.73
		Purulia PSS (4x225)	900.00	900.00	123.78	123.78	589.04	589.04
		Total Hydro	1053.50	1053.50	194.92	194.92	854.90	854.90
	RES	500.76	500.76	17.69	17.69	79.19	79.19	

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

ORGANI- SATION	TYPE	POWER STATION	INSTALLED CAPACITY	EFFECTIVE CAPACITY	Gross Energy Generation	Net Energy Generation	Cummulative Gross Energy Generation upto Current Month	Cummulative Net Energy Generation upto Current Month		
			(in MW)	(in MW)	in MU	in MU	(2022-23) in MU	(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	73.54	67.33	456.34	418.02		
		Budge-Budge (3x250)	750.00	750.00	437.83	402.15	2320.10	2132.99		
		Total CESC	1125.00	1125.00	511.38	469.48	2776.45	2551.01		
HEL	Thermal	HEL	600.00	600.00	410.12	377.97	1890.75	1740.90		
		Total West Bengal	8139.26	8094.26	3702.60	3396.85	18729.95	17177.39		
OPGC	Thermal	IB TPS	420.00	420.00	98.86	84.05	1040.30	914.29		
		IB TPS U#3(660 MW)	660.00	660.00	383.03	361.63	1914.38	1803.31		
		IB TPS U#4(660 MW)	660.00	660.00	427.64	403.75	1597.48	1507.07		
OHPC	Hydro	Hirakud-I (Burla)	275.50	275.50	175.40	175.15	405.08	403.92		
		Hirakud-II (Chiplima)	72.00	72.00	39.63	39.52	151.11	150.68		
		Balimela (6x60+2x75)	510.00	510.00	125.39	124.69	604.85	601.42		
		Rengali (5x50)	250.00	250.00	95.56	95.46	295.28	294.79		
		Upper Kolab (4x80)	320.00	320.00	42.46	42.32	158.30	157.80		
		Indravati HPS (4x150)	600.00	600.00	160.72	157.05	331.88	324.31		
		Mckd.(Odisha drawal)	57.38	57.38	19.07	19.07	95.35	95.35		
		Total Hydro	2084.88	2084.88	658.22	653.26	2041.85	2028.27		
		RES	539.57	539.57	44.91	44.91	276.52	276.52		
		Total Odisha	4364.45	4364.45	1612.66	1547.59	6870.52	6529.46		
(**) SIKKIM	Hydro	RES	52.18	52.18	2.00	2.00	8.00	8.00		
NTPC		MTPS Stg-II	390.00	390.00	249.25	224.64	1135.73	1022.58		
		FSTPP# I&II (3x200+2x500)	1600.00	1600.00	882.64	806.02	4239.55	3889.53		
		FSTPP (U# 6)	500.00	500.00	62.25	57.74	920.73	858.98		
		KhSTPP (4x210+3x500)	2340.00	2340.00	1304.26	1209.85	6982.23	6482.15		
		TSTPP (2x500)	1000.00	1000.00	432.47	397.26	3089.21	2858.67		
		BARH STPS II (2X660)	1320.00	1320.00	803.06	757.97	4205.74	3980.37		
		BARH STPS I (1X660)	660.00	660.00	83.62	75.91	1613.68	1508.63		
		BRBCL # 1,2,3,4(4X250 MW)	1000	1000	489.62	450.17	2868.59	2645.58		
		BRBCL # 4 infirm			0.00	0.00	0.00	0.00		
		NSTPS U# 1&2	1980.00	1980.00	1161.32	1099.04	5042.01	4791.33		
		NSTPS infirm			0.00	0.00	75.63	69.22		
		DSTPP #1&2	1600.00	1600.00	908.58	847.97	4221.09	3948.89		
		DSTPP #2 infirm	0.00	0.00	0.00	0.00	0.00	0.00		
		Total NTPC	12390.00	12390.00	6377.07	5926.57	34394.19	32055.92		
		NHPC	HYDRO	Rangit (3x20)	60.00	60.00	39.99	39.99	178.75	178.75
				Teesta (3x170)	510.00	510.00	365.59	365.59	1649.84	1649.84
				TLDP(4x33+4x40) for WBSEDCL	292.00	292.00	189.21	189.21	791.67	791.67
Total NHPC	862.00			862.00	594.79	594.79	2620.26	2620.26		
MPL (U#1&2)	1050.00			1050.00	693.49	654.65	3365.22	3176.35		
APNRL (U#1,2)	540.00			540.00	324.64	295.54	1617.34	1473.93		
GMR (2x350)	700.00			700.00	396.94	367.36	1828.53	1696.91		
JITPL (2X600)	1200.00			1200.00	743.82	694.55	2928.19	2758.75		
CHUZACHEN** (2x55)	110.00			110.00	79.38	79.38	312.50	312.50		
JORETHANG (2x48)	96.00			96.00	69.35	69.35	243.44	243.44		
TEESTA URJA St III (6x200)	1200.00			1200.00	907.71	907.71	3591.90	3591.90		
Tashilding (2x48.5)	97.00			97.00	77.61	77.61	252.26	252.26		
DICKCHU (2x48)	96.00			96.00	77.09	77.09	338.05	338.05		
RONGNICHU HEP (2x56.5)					62.68	62.68	255.81	255.81		
TALCHER SOLAR	10.00			10.00	0.88	0.88	5.36	5.36		
Total Thermal (E.R)				32555.00	32500.00	17035.85	15753.12	87930.19	81449.01	
Total Hydro (E.R)				5989.58	5989.58	2767.28	2762.12	10622.76	10608.37	
Total RES		1517.83	1517.83	88.07	88.07	474.48	474.48			
EASTERN REGIONAL		TOTAL (E.R)	40062.41	40007.41	19891.20	18603.31	99027.42	92531.86		
BHUTAN	Hydro	CHPC(4x90)	360.00	270.00	264.14	264.14	993.49	993.49		
		Kurichu (4x15)	60.00	60.00	0.00	0.00	9.91	9.91		
		TALA (6x170)	1020.00	1020.00	551.16	551.16	1563.64	1563.64		
		DAGACHU (2x63)	126.00	126.00	67.66	67.66	214.62	214.62		
		MANGDECHU(4x180)	720.00	720.00	485.63	485.63	1631.29	1631.29		
		Grand Total	42348.41	42203.41	21259.78	19971.90	103440.37	96944.81		

PLANT LOAD FACTOR (PLF) OF THERMAL POWER STATIONS IN EASTERN REGION DURING THE MONTH OF AUG' 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	8.53
	Thermal	Barauni (U# 8)	250.00	250.00	102.78	55.26	654.49	71.30
		Barauni (U# 9)	250.00	250.00	145.17	78.05	730.31	79.55
	(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	247.94	35.83	1418.18	40.93
			354.91	354.91	22.59		105.41	
		Total BIHAR	1294.91	1284.91	270.53		1523.59	
JHARKHAND								
TVNL	Thermal	TVNL	420.00	420.00	229.63	73.49	1094.32	70.96
		JOJOBERA	240.00	240.00	153.12	85.75	309.88	86.77
JSEB	Hydro	Subarnrekha (U#1,2)	130.00	130.00	24.84		36.46	
		RES	60.41	60.41	0.00		0.00	
		Total	190.41	190.41	24.84		36.46	
DVC	Thermal	Bokaro-B(3)	0.00	0.00	0.00	0.00	0.00	0.00
		Chandrapura(U7 # 8)	500.00	500.00	321.06	86.31	1496.16	81.49
		Durgapur(4)	210.00	210.00	0.00	11.85	135.12	17.52
		Mezia(1,2,3,4,5,6)	1340.00	1340.00	642.56	64.45	3647.74	74.13
		Mejia(U # 7,8)	1000.00	1000.00	604.19	81.21	3127.78	85.18
		Bokaro-A(1)	500.00	500.00	310.92	83.58	1579.54	86.03
		Durgapur STPS (U#1,2)	1000.00	1000.00	474.48	63.77	2956.14	80.50
		Raghunathpur TPS (U#1,2)	1200.00	1200.00	550.00	61.60	2649.72	60.13
		Koderma STPS (U#1,2)	1000.00	1000.00	547.96	73.65	3034.11	82.63
		Total Thermal	6750.00	6750.00	3469.68	69.09	18626.32	75.15
	Hydro	Maithon (U#1,2,3)	63.20	63.20	0.10		29.43	
		Panchet (U#1,2)	80.00	80.00	20.60		45.91	
		Tilaiya (U#1,2)	4.00	4.00	0.00		0.00	
		Hydro Total	147.20	147.20	20.71		75.34	
		Total DVC	6897.20	6897.20	3490.38		18701.66	
WEST BENGAL								
WBPDC	Thermal	Bandel TPS	320.00	275.00	151.08	73.84	711.49	70.46
		Santalalih TPS(U#5&6)	500.00	500.00	258.02	69.36	1644.82	89.59
		Kolaghat TPS	840.00	840.00	342.42	54.79	1729.62	56.07
		Bakreswar TPP	1050.00	1050.00	670.76	85.86	3319.57	86.10
		Sagardighi TPP	1600.00	1600.00	960.08	80.65	4685.73	79.75
		DPPS (300+250)	550.00	550.00	186.15	45.49	1037.45	51.37
		Thermal Total	4860.00	4815.00	2568.50	71.70	13128.67	74.25
WBSEDCL	Hydro	Jaldhaka (3x9+2x4)	35.00	35.00	21.07		94.21	
		Rammam (4x12.73)	51.00	51.00	38.04		119.91	
		Teesta C.F. (3x3x7.5)	67.50	67.50	12.03		51.73	
		Purulia PSS (4x225)	900.00	900.00	123.78		589.04	
		Total Hydro	1053.50	1053.50	194.92		854.90	
		RES	500.76	500.76	17.69		79.19	
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. DE- COMMISSIONED 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.								
1.NTPC NPGCL U#3 (660 MW) COD from 01.06.2022 COMMISSIONED 2.NTPC Nabinagar TPP(BRBL) 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 AUG' 2022

ORGANISATION	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	(%)	(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	73.54	73.22	456.34	92.06
		Budge-Budge (3x250)	750.00	750.00	437.83	78.46	2320.10	84.24
		Total CESC	1125.00	1125.00	511.38	61.10	2776.45	67.21
HEL	Thermal	HEL	600.00	600.00	410.12	91.87	1890.75	85.82
		Total West Bengal	8139.26	8094.26	3702.60		18729.95	
OPGC	Thermal	IB TPS	420.00	420.00	98.86	31.64	1040.30	67.45
		IB TPS U#3(660 MW)	660.00	660.00	383.03	78.00	1914.38	78.99
		IB TPS U#4(660 MW)	660.00	660.00	427.64	87.09	1597.48	65.92
OHPC	Hydro	Hirakud-I (Burla)	275.50	275.50	175.40		405.08	
		Hirakud-II (Chiplima)	72.00	72.00	39.63		151.11	
		Balimela (6x60+2x75)	510.00	510.00	125.39		604.85	
		Rengali (5x50)	250.00	250.00	95.56		295.28	
		Upper Kolab (4x80)	320.00	320.00	42.46		158.30	
		Indravati HPS (4x150)	600.00	600.00	160.72		331.88	
		Mckd.(Odisha drawal)	57.38	57.38	19.07		95.35	
		Total Hydro	2084.88	2084.88	658.22		2041.85	
		RES	539.57	539.57	44.91		276.52	
		Total Odisha	4364.45	4364.45	1612.66		6870.52	
(**) SIKKIM	Hydro	RES	52.18	52.18	2.00		8.00	
NTPC		MTPS Stg-II	390.00	390.00	249.25	85.90	1135.73	79.31
		FSTPP# I&II (3x200+2x500)	1600.00	1600.00	882.64	74.15	4239.55	72.16
		FSTPP (U# 6)	500.00	500.00	62.25	16.73	920.73	50.15
		KhSTPP (4x210+3x500)	2340.00	2340.00	1304.26	74.92	6982.23	81.26
		TSTPP (2x500)	1000.00	1000.00	432.47	58.13	3089.21	84.13
		BARH STPS II (2X660)	1320.00	1320.00	803.06	81.77	4205.74	86.77
		BARH STPS I (1X660)	660.00	660.00	83.62	17.03	1613.68	66.58
		BRBCL # 1,2,3,4(4X250 MW)	1000.00	1000.00	489.62	65.81	2868.59	78.12
		BRBCL # 4 infirm			0.00	0.00	0.00	0.00
		NSTPS U# 1&2	1980.00	1980.00	1161.32	78.83	5042.01	79.98
		NSTPS infirm					75.63	
		DSTPP #1&2	1600.00	1600.00	908.58	76.33	4221.09	71.85
		DSTPP #2 infirm	0.00	0.00	0.00	0.00	0.00	0.00
		Total NTPC	12390.00	12390.00	6377.07	69.18	34394.19	77.07
		NHPC	HYDRO	Rangit (3x20)	60.00	60.00	39.99	
Teesta (3x170)	510.00			510.00	365.59		1649.84	
TLDP(4x33+4x40) for WBSEDCL	292.00			292.00	189.21		791.67	
Thermal	Total NHPC		862.00	862.00	594.79		2620.26	
	MPL (U#1&2)		1050.00	1050.00	693.49	88.77	3365.22	87.28
	APNRL (U#1,2)		540.00	540.00	324.64	80.80	1617.34	81.57
	GMR (2x350)		700.00	700.00	396.94	76.22	1828.53	71.14
	JITPL (2X600)		1200.00	1200.00	743.82	83.31	2928.19	66.45
	CHUZACHEN** (2x55)		110.00	110.00	79.38		312.50	
	JORETHANG (2x48)		96.00	96.00	69.35		243.44	
	TEESTA URJA St III (6x200)		1200.00	1200.00	907.71		3591.90	
	Tashilding (2x48.5)		97.00	97.00	77.61		252.26	
	DICKCHU (2x48)		96.00	96.00	77.09		338.05	
	RONGNICHU HEP (2x56.5)				62.68		255.81	
	TALCHER SOLAR		10.00	10.00	0.88		5.36	
Total Thermal (E.R)	32555.00	32500.00	17035.85	70.45	87930.19	74.53		
EASTERN REGIONAL		Total Hydro (E.R)	5989.58	5989.58	2767.28		10622.76	
		Total RES	1517.83	1517.83	88.07		474.48	
		TOTAL (E.R)	40062.41	40007.41	19891.20		99027.42	
BHUTAN	Hydro	CHPC(4x90)	360.00	270.00	264.14		993.49	
		Kurichu (4x15)	60.00	60.00	0.00		9.91	
		TALA (6x170)	1020.00	1020.00	551.16		1563.64	
		DAGACHU (2x63)	126.00	126.00	67.66		214.62	
		MANGDECHU(4x180)	720.00	720.00	485.63		1631.29	
Grand Total	42348.41	42203.41	21259.78		103440.37			

CONTRIBUTIONS OF DIFFERENT CONSTITUENTS AT THE TIME OF REGIONAL PEAK DURING THE MONTH OF AUG'2022 (17-8-2022)

Date 17-Aug-22
Time 23.00 Hrs.
Frequency 49.99 Hz.

System/State	Installed	Effective				(All Fig. in MW)
	Capacity	Capacity	Hydro	Thermal	RES	Net Gen Total
BSPHCL	1295	1285	0	462	0	462
JUVNL	850	850	108	484	0	592
DVC	6897	6897	27	4606	0	4633
ODISHA	4364	4364	1335	1050	86	2471
WBSEDCL	5864	5819	1003	2991	0	3994
TLDP	292	292	292	0	0	292
HEL HALDIA	600	600	0	536	0	536
CESC	1125	1125	0	775	0	775
DPL	550	550	0	0	0	0
SIKKIM	52	52	0	0	0	0
NTPC	12390	12390	0	9568	0	9568
NHPC	570	570	579	0	0	579
CHUKHA	360	270	373	0	0	373
KURICHU	60	60	60	0	0	60
TALA	1020	1020	764	0	0	764
MPL	1050	1050	0	931	0	931
OPGC (660 MW)	0	0	0	0	0	0
APNRL	540	540	0	480	0	480
Kamalganga (GMR)	700	700	0	647	0	647
JITPL	1200	1200	0	1008	0	1008
RONGNICHU HEP (2x56.5)	113	113	104	0	0	104
Chuzachen	110	110	119	0	0	119
Jorethang	96	96	101	0	0	101
TEESTA URJA St III	1200	1200	1301	0	0	1301
Tashilding	97	97	110	0	0	110
DICKCHU	96	96	105	0	0	105
<u>Daghachu</u>	126	126	78	0	0	78
<u>Solar</u>	10	10	0	0	0	0
<u>Mangdechhu</u>	720	720	510	0	0	510
<u>Total</u>	42348	42203	6971	23536	86	30593
Import From Captive:						1465
Export To:						
NER						596
SR						656
WR						-1000
NR						3969
Bangladesh						922
Nepal						-303
Total						4840
➤ Regional Net Peak Demand Met (MW) :						27218

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

Hourly Load Generation Data OF ER on Regional Peak Day During The Month of AUG'2022 (17-8-2022)

(All Figures in MW)

Hrs.	Generation			Import from Captive	Net Import From Hydro of Bhutan	Net Export to other region	Demand Met	Freq. Correction	Load Shed	Requirement
	Hydro	Thermal	Total							
1	3830	22029	25859	1196	1874	3693	25236	15	187	25438
2	3715	21602	25317	1208	1870	3115	25280	2	130	25413
3	3708	21011	24720	1193	1861	2828	24947	2	130	25079
4	3515	20544	24059	1197	1860	2261	24855	4	130	24989
5	3431	20445	23876	1207	1853	2200	24736	13	108	24857
6	3555	21169	24724	1218	1829	3880	23890	-2	108	23996
7	3588	22214	25802	1200	1807	5143	23665	-14	266	23917
8	3644	21981	25625	1204	1793	5214	23408	-33	12	23419
9	3687	21608	25295	1201	1783	5049	23229	-16	28	23241
10	3878	20945	24822	1191	1763	4788	22988	68	22	23079
11	3859	19709	23568	1223	1762	3411	23142	55	16	23212
12	3919	19206	23125	1218	1758	2625	23477	90	11	23579
13	3840	19110	22950	1229	1756	1800	24134	74	8	24216
14	3700	19178	22878	1209	1771	1623	24235	6	2	24244
15	3636	20742	24378	1186	1774	3050	24287	30	5	24322
16	3681	21514	25194	1235	1778	3606	24602	2	5	24609
17	3597	21894	25492	1268	1770	4510	24019	-15	4	24023
18	3578	22757	26335	1259	1771	5743	23621	29	416	24066
19	4720	23180	27900	1447	1734	5294	25787	-11	262	26038
20	5208	23705	28913	1483	1728	5596	26527	63	261	26851
21	4990	23447	28437	1467	1749	4711	26941	-7	1065	27999
22	5268	23556	28823	1485	1780	5196	26892	-14	1177	28055
23	5270	23536	28807	1465	1786	4840	27218	12	1045	28275
24	4813	23166	27979	1456	1809	4317	26927	-7	901	27821

Hourly Load Generation Data of ER On Regional Lean Day During The Month of AUG'2022 (15-8-2022)

(All Figures in MW)

Hrs.	Generation			Import from Captive	Net Import From Hydro of Bhutan	Net Export to other region	Demand Met	Freq. Correction	Load Shed	Requirement
	Hydro	Thermal	Total							
1	3050	20486	23536	655	1938	5580	20550	-13	3	20552
2	2929	19316	22245	652	1940	4863	19974	35	3	20012
3	2914	18048	20962	664	1928	4179	19375	88	3	19466
4	2901	17463	20364	665	1938	3988	18980	30	3	19012
5	2852	17701	20553	650	1921	4644	18480	-10	3	18483
6	2948	17511	20459	696	1907	5072	17991	184	3	18178
7	3437	19982	23419	684	1885	8469	17519	60	616	18195
8	3469	19919	23388	684	1895	7938	18030	-27	308	18311
9	3422	18004	21426	701	1904	5698	18334	-67	0	18334
10	3233	16825	20058	708	1894	4084	18576	-50	0	18576
11	3157	16118	19275	689	1875	3249	18590	-68	2	18593
12	3237	15433	18670	671	1879	2696	18524	-89	4	18528
13	3321	15350	18671	657	1889	2728	18489	-139	5	18494
14	3365	15385	18751	679	1895	2377	18947	-161	3	18950
15	3421	15370	18790	686	1895	2347	19024	-60	1	19025
16	3527	15572	19099	644	1883	2661	18966	18	1	18985
17	3573	15543	19116	520	1877	2733	18780	82	0	18862
18	3293	15995	19288	516	1883	2306	19381	-22	0	19381
19	4015	18977	22992	541	1860	3693	21701	-13	0	21701
20	4903	21260	26163	552	1869	5662	22922	46	738	23706
21	4844	21590	26434	557	1908	5655	23244	-4	109	23349
22	4812	21561	26373	544	1926	5336	23507	14	103	23624
23	4691	21499	26189	555	1949	5374	23319	27	415	23761
24	4094	21016	25110	559	1952	4791	22830	-26	312	23117

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

FOR THE MONTH OF AUG'2022

POWER CUT / RESTRICTIONS

BSPHCL	NO NOTIFIED CUTS/RESTRICTIONS However there was loadshedding of 167.55 MU
JUVNL	NO NOTIFIED CUTS/RESTRICTIONS However there was loadshedding of 59.48 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 4.89 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 Aug-22

D A T E	H O U R S										INST. FREQ.				15 MIN. INTEGRATED			
	00 TO 05	05 TO 10	10 TO 17	17 TO 22	22 TO 24	00 TO 24	<49.9	49.9 TO 50.1	>50.05	49.9 TO 50.05	MAX HZ	HRS.	MIN HZ	HRS.	MAX HZ	HRS.	MIN HZ	HRS.
	01-Aug	50.01	50.02	50.00	49.98	50.02	50.00	3.41	77.41	19.18	77.41	50.15	11:37:30	49.76	14:14:50	50.11	0:00	49.87
02-Aug	49.99	49.98	50.01	49.95	49.98	49.99	5.09	85.88	9.03	85.88	50.17	13:03:00	49.69	19:38:30	50.13	0:00	49.74	0:00
03-Aug	50.00	49.97	49.97	49.90	49.99	49.96	14.79	79.98	5.23	79.98	50.12	14:02:10	49.59	19:30:10	50.07	0:00	49.67	0:00
04-Aug	49.98	49.96	49.98	49.98	50.01	49.98	13.75	74.63	11.62	74.63	50.19	13:02:50	49.71	09:46:10	50.10	0:00	49.81	0:00
05-Aug	50.00	49.99	50.01	50.00	50.02	50.00	1.02	84.22	14.76	84.22	50.13	22:39:50	49.84	14:45:00	50.09	0:00	49.92	0:00
06-Aug	49.96	50.04	50.00	49.96	49.99	49.99	6.30	74.61	19.10	74.61	50.19	13:02:40	49.74	15:30:30	50.09	0:00	49.82	0:00
07-Aug	49.96	50.05	50.00	49.99	50.02	50.00	5.24	76.53	18.23	76.53	50.24	09:26:50	49.78	00:07:10	50.20	0:00	49.83	0:00
08-Aug	49.99	49.99	50.03	49.99	49.96	50.00	4.58	79.82	15.60	79.82	50.18	13:01:50	49.74	09:30:40	50.15	0:00	49.86	0:00
09-Aug	49.99	50.05	50.02	49.96	49.98	50.00	3.75	72.88	23.37	72.88	50.19	09:51:20	49.73	15:26:50	50.17	0:00	49.87	0:00
10-Aug	49.98	50.02	49.97	49.99	50.00	49.99	9.50	73.15	17.35	73.15	50.30	08:18:00	49.71	13:20:20	50.26	0:00	49.78	0:00
11-Aug	50.02	50.03	50.01	50.01	49.99	50.01	5.44	63.10	31.46	63.10	50.30	10:01:40	49.48	11:23:10	50.20	0:00	49.86	0:00
12-Aug	49.98	49.99	49.97	49.97	49.92	49.97	11.64	77.21	11.15	77.21	50.15	13:07:50	49.65	14:44:30	50.11	0:00	49.77	0:00
13-Aug	49.98	49.97	49.98	49.92	49.98	49.97	14.56	78.28	7.16	78.28	50.18	11:52:00	49.72	19:15:00	50.08	0:00	49.79	0:00
14-Aug	50.00	50.00	50.00	50.00	49.99	50.00	3.47	77.95	18.58	77.95	50.19	09:09:00	49.70	18:30:40	50.12	0:00	49.85	0:00
15-Aug	49.96	49.97	50.09	50.00	50.00	50.01	14.73	46.47	38.80	46.47	50.31	13:41:00	49.47	05:51:50	50.28	0:00	49.63	0:00
16-Aug	49.98	50.01	49.97	49.96	50.04	49.98	13.21	61.20	25.59	61.20	50.19	15:23:00	49.64	19:23:30	50.13	0:00	49.57	0:00
17-Aug	49.99	50.00	49.96	49.99	50.00	49.98	7.65	82.74	9.61	82.74	50.16	18:02:30	49.55	11:37:20	50.08	0:00	49.76	0:00
18-Aug	49.98	50.02	50.02	49.94	49.97	49.99	5.98	77.37	16.65	77.37	50.20	11:10:50	49.85	19:41:00	50.17	0:00	49.60	0:00
19-Aug	50.00	49.99	50.04	50.04	50.01	50.02	0.67	73.92	25.41	73.92	50.27	13:22:30	49.77	07:39:10	50.21	0:00	49.92	0:00
20-Aug	49.99	50.00	49.96	50.01	49.98	49.99	4.63	83.70	11.67	83.70	50.15	18:01:40	49.71	15:57:30	50.07	0:00	49.83	0:00
21-Aug	49.98	49.99	50.03	49.98	49.94	49.99	7.09	71.48	21.42	71.48	50.22	13:36:10	49.77	22:15:30	50.09	0:00	49.79	0:00
22-Aug	50.02	50.01	49.99	49.99	50.01	50.00	2.91	77.67	19.42	77.67	50.17	13:01:50	49.75	12:46:40	50.16	0:00	49.89	0:00
23-Aug	50.01	49.98	50.00	49.98	49.99	49.99	5.80	72.40	21.81	72.40	50.25	13:05:50	49.75	11:54:40	50.16	0:00	49.82	0:00
24-Aug	49.99	49.96	49.97	49.95	50.01	49.97	10.82	81.10	8.08	81.10	50.17	13:32:20	49.65	10:11:30	50.07	0:00	49.79	0:00
25-Aug	50.01	49.98	49.97	49.87	49.99	49.96	15.45	76.42	8.13	76.42	50.11	12:33:50	49.47	19:24:50	50.07	0:00	49.53	0:00
26-Aug	49.98	49.93	49.97	49.91	49.97	49.95	20.40	71.85	7.75	71.85	50.10	17:02:20	49.50	19:15:00	50.06	0:00	49.68	0:00
27-Aug	49.95	49.99	49.96	49.96	49.93	49.96	13.08	79.22	7.70	79.22	50.14	09:50:20	49.75	12:13:30	50.11	0:00	49.84	0:00
28-Aug	49.99	50.01	49.96	50.00	49.95	49.98	7.01	82.38	10.60	82.38	50.14	14:01:30	49.75	19:11:30	50.07	0:00	49.85	0:00
29-Aug	49.97	49.94	49.96	49.89	49.91	49.94	20.01	77.38	2.60	77.38	50.08	13:04:50	49.48	19:09:40	50.04	0:00	49.60	0:00
30-Aug	50.00	50.01	49.97	49.93	49.92	49.97	12.80	76.23	10.97	76.23	50.14	08:01:50	49.67	18:39:10	50.08	0:00	49.76	0:00
31-Aug	49.92	49.94	50.01	49.97	49.95	49.97	7.18	81.50	11.32	81.50	50.14	06:01:30	49.70	19:11:20	50.09	0:00	49.83	0:00
MAX	50.02	50.05	50.09	50.04	50.04	50.02	20.40	85.88	38.80	85.88	50.31		49.85		50.28		49.92	
MIN	49.92	49.93	49.96	49.87	49.91	49.94	0.67	46.47	2.60	46.47	50.08		49.47		50.04		49.53	
AVG	49.99	49.99	49.99	49.97	49.98	49.98	8.77	75.76	15.46	75.76	50.18		49.67		50.12		49.78	

SUMMARY:

Avg. Frequency : **49.98 Hz.**

Instantaneous Frequency :

Maximum Frequency : 50.31 Hz at 13:41 Hrs.

Minimum Frequency : 49.47 Hz at 19:23 Hrs.

15 Minutes Integrated Frequency :

Maximum Frequency : 50.28 Hz On 00/01/00 at 00:00 Hrs.

Minimum Frequency : 49.53 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	8.77	75.76	15.46

VOLTAGE ANALYSIS

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

(All figs. in kV)

PGCIL	BINAGURI		MAITHON		JEERAT		BIHARSHARIFF	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	416	400	416	397	420	391	420	397

PGCIL	MUZAFFARPUR		JAMSHEDPUR		ROURKELA		JEYPORE	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	415	388	414	399	405	394	419	401

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**
Aug-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	
			(31-08-22)	(31-08-21)		
Hirakud	192	180	190.31	188.91	185.55	01.08.22
Balimela	462	439	449.03	447.39	443.64	01.08.22
Rengali	123	109	121.59	121.34	111.21	01.08.22
Upperkolab	858	844	852.40	847.83	847.95	01.08.22
Indravati	642	625	640.55	631.53	633.07	01.08.22
Subernrekha	590	580	589.24	588.48	583.94	01.08.22

B. **CPP/IPP IMPORT by Eastern Region Constituents during** Aug-22

(All figs. are in MU)

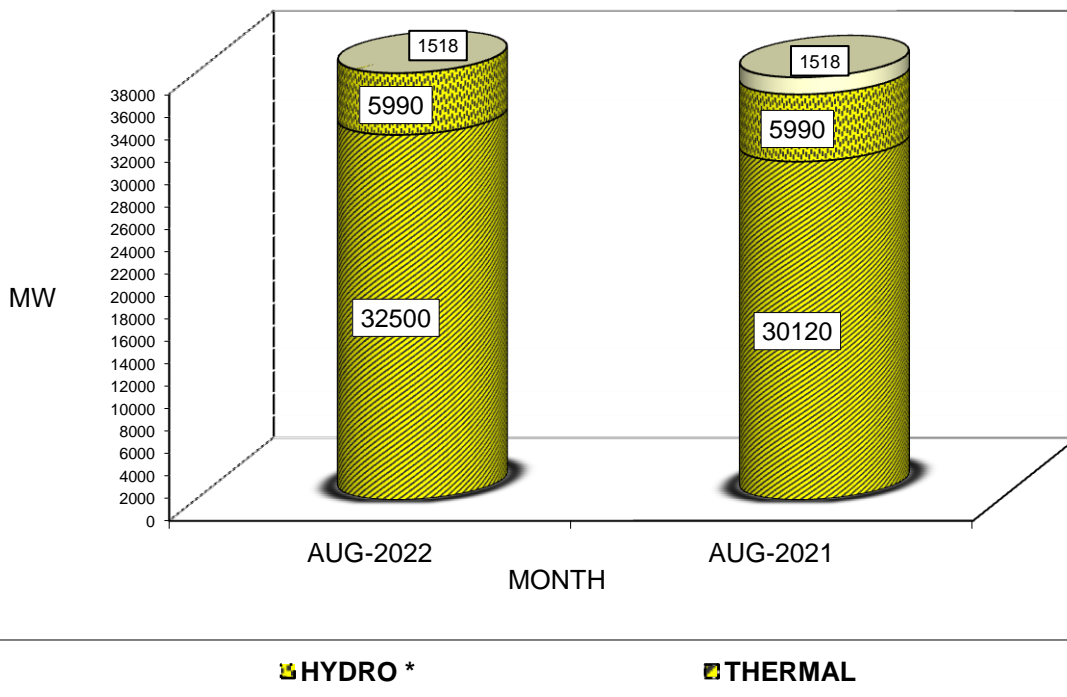
System	Tata Power	Crescent Power	JSPL, Angul	Sterlite	Jindal	NALCO	TISCO	Others	Total
JUVNL	0	0	0	0	0	0	0	0	39.28
West Bengal	71.78	21.06	0	0	0	0	0	201.91	294.75
ODISHA	0	0	4.38	215.61	0.88	0.00	0	332.94	553.81
DVC	0	0	0	0	0	0	9.40	0	9.40
TOTAL	71.78	21.06	4.38	215.61	0.88	0.00	9.40	534.85	897.25

C. **Distribution of Schedule Supply among Key Customers by IPPs during** Aug-22

(All figs. are in MU)

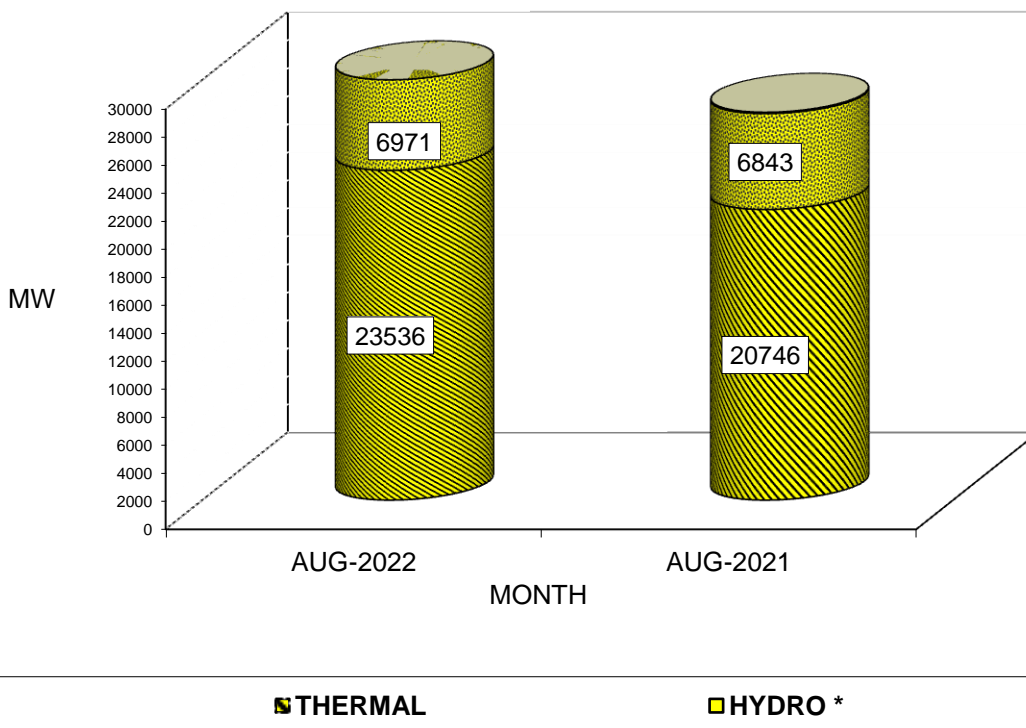
IPP	TPDDL	WBSEDCL/ WBPDCCL	DVC	Sale at IEX/NPCL	ODISHA	JSEB	CTU/Others	Total (Excl. Tr. Loss)
MPL	202.66	194.91	102.03	0.00	0	0	149.31	648.91
Sterlite	0	0	0	0	0.00	0	0.00	0.00
APNRL	0	21.50	0	51.61	0.00	116.70	110.93	300.74
Total	202.66	216.41	102.03	51.61	0.00	116.70	260.24	949.65

EFFECTIVE CAPACITY OF EASTERN REGIONAL GRID



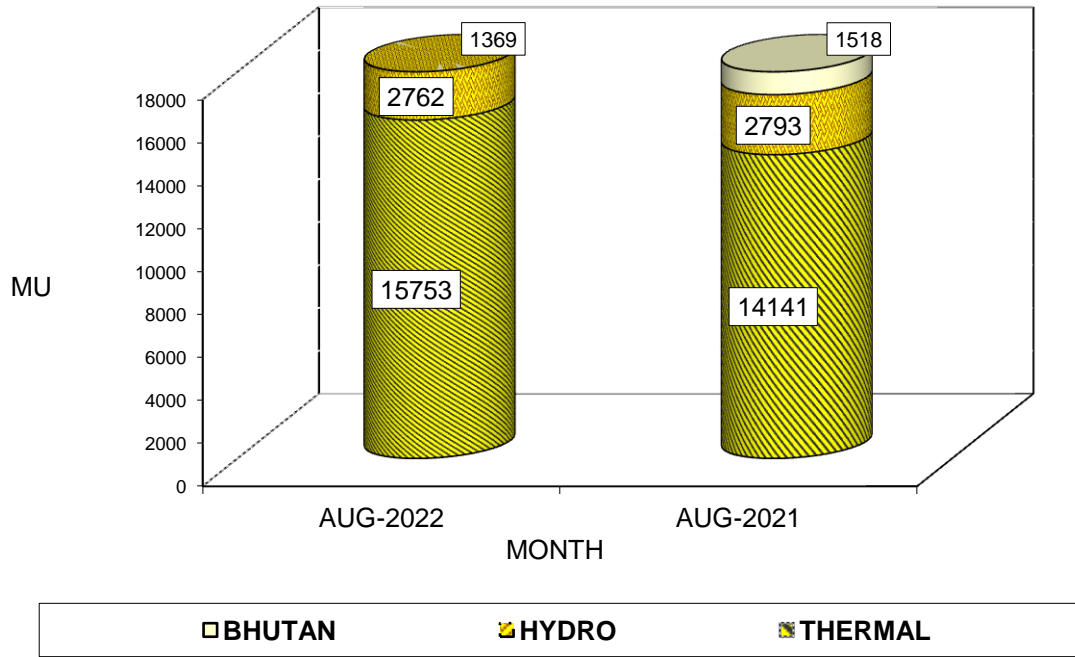
*Excludes contribution from HEPs of Bhutan

GENERATION CORRESPONDING TO PEAK DEMAND MET

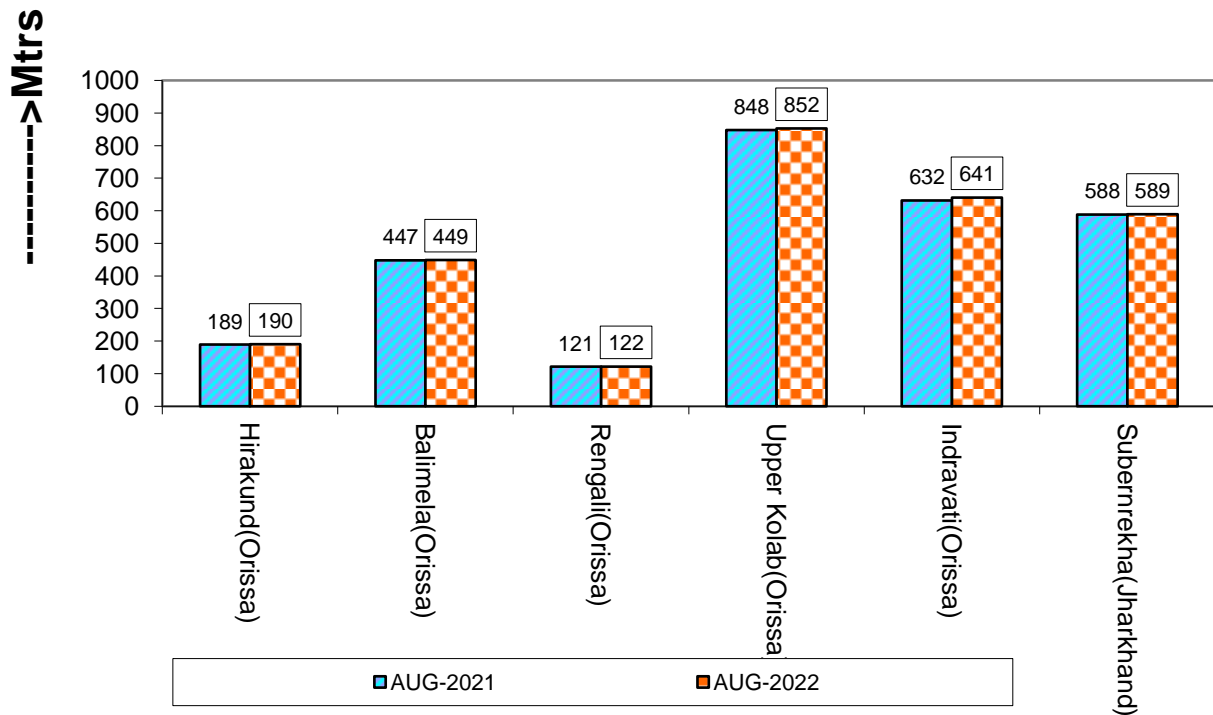


*Includes contribution from HEP of Bhutan

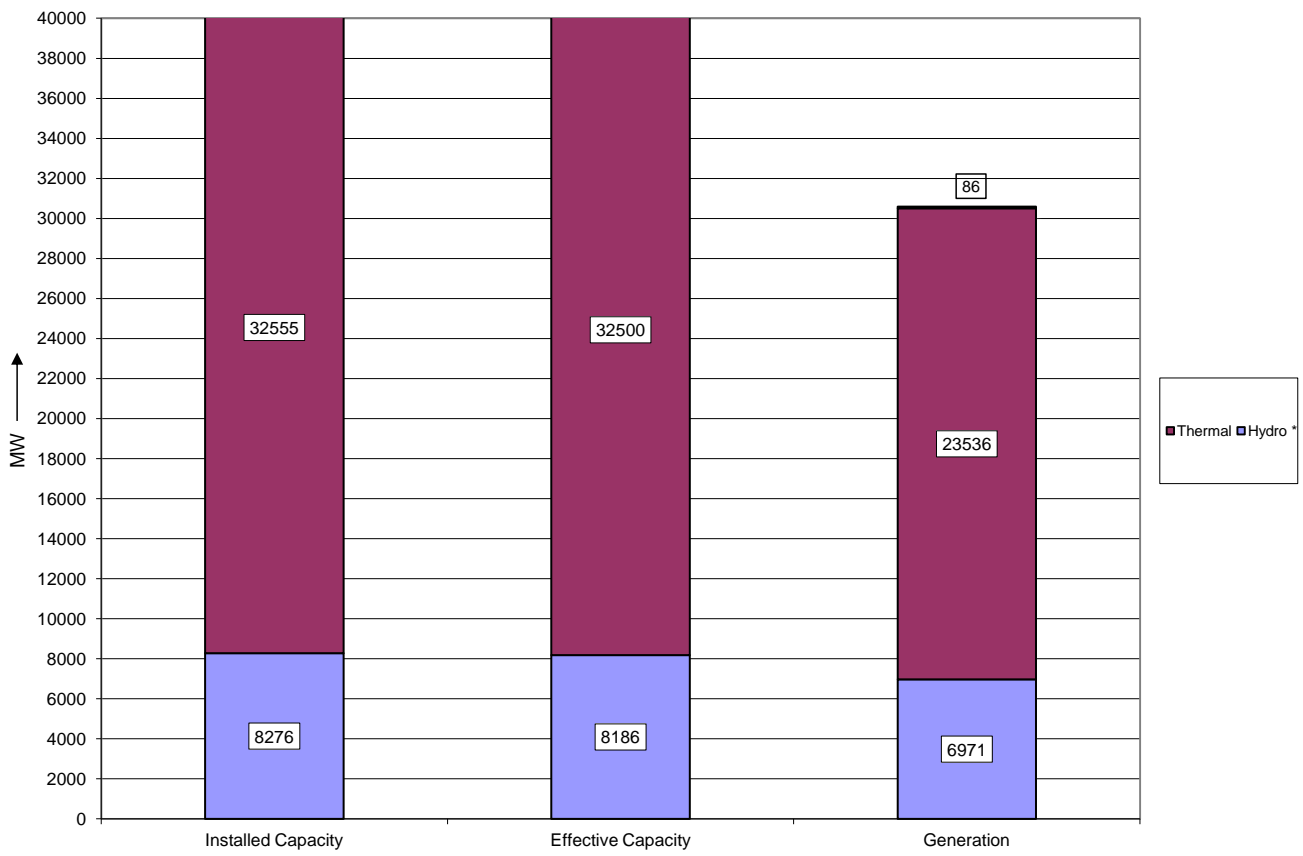
NET ENERGY GENERATION



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

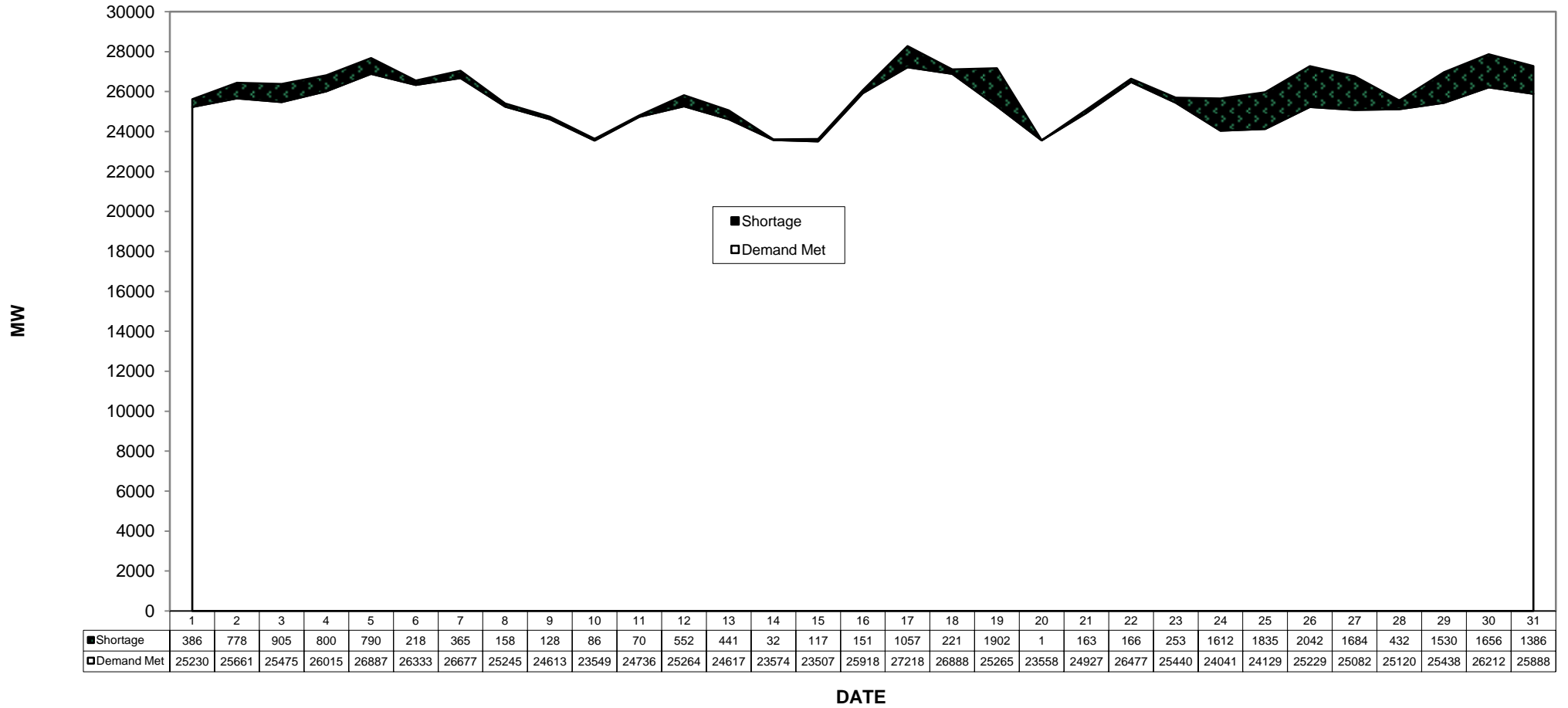


Capacity / Actual Generation Pattern of ER on Peak Day (17-8-2022) at 23.00 hrs.

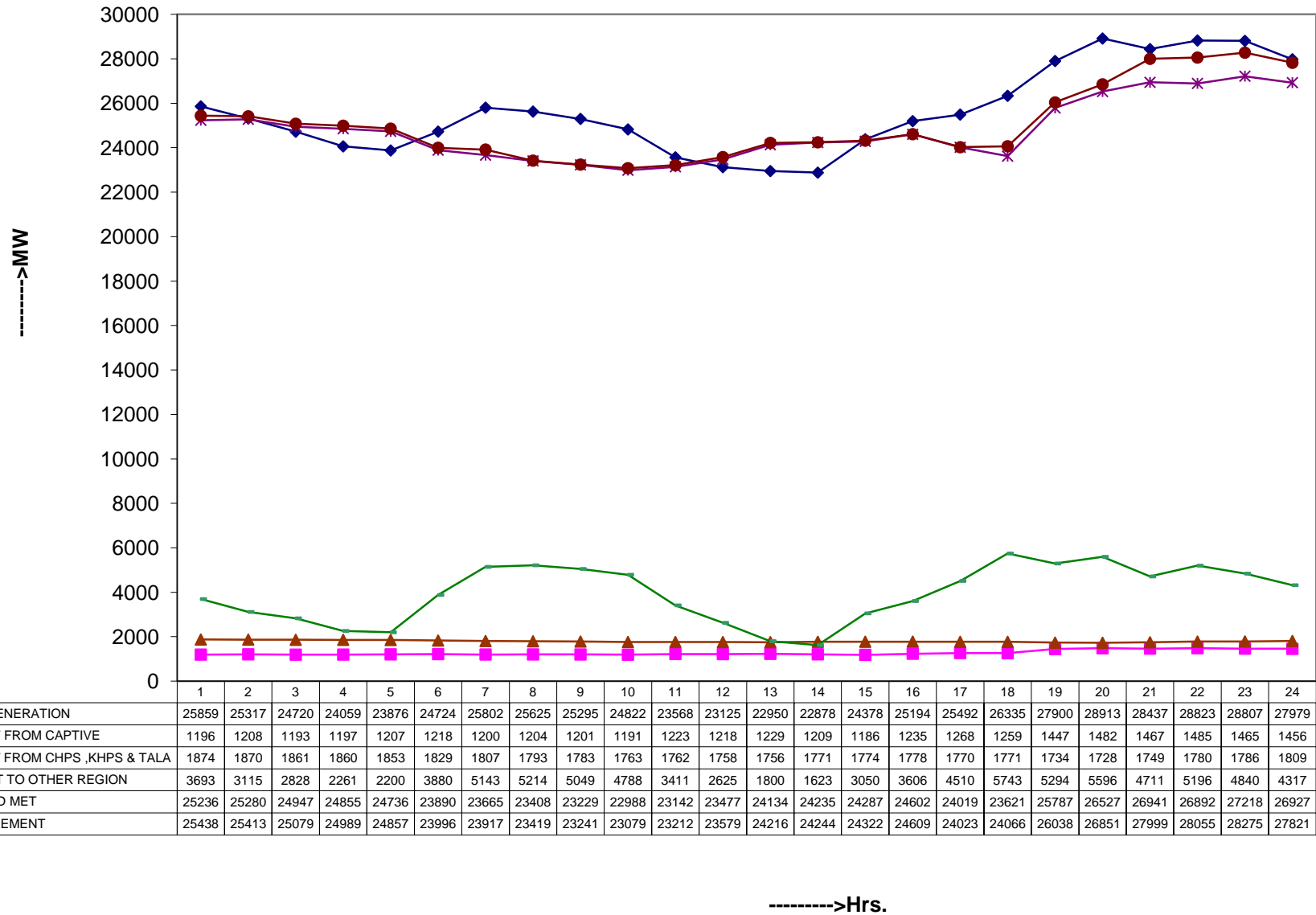


(*)--Includes contribution from HEP of Bhutan (Chukka, Kurichhu & Tala)

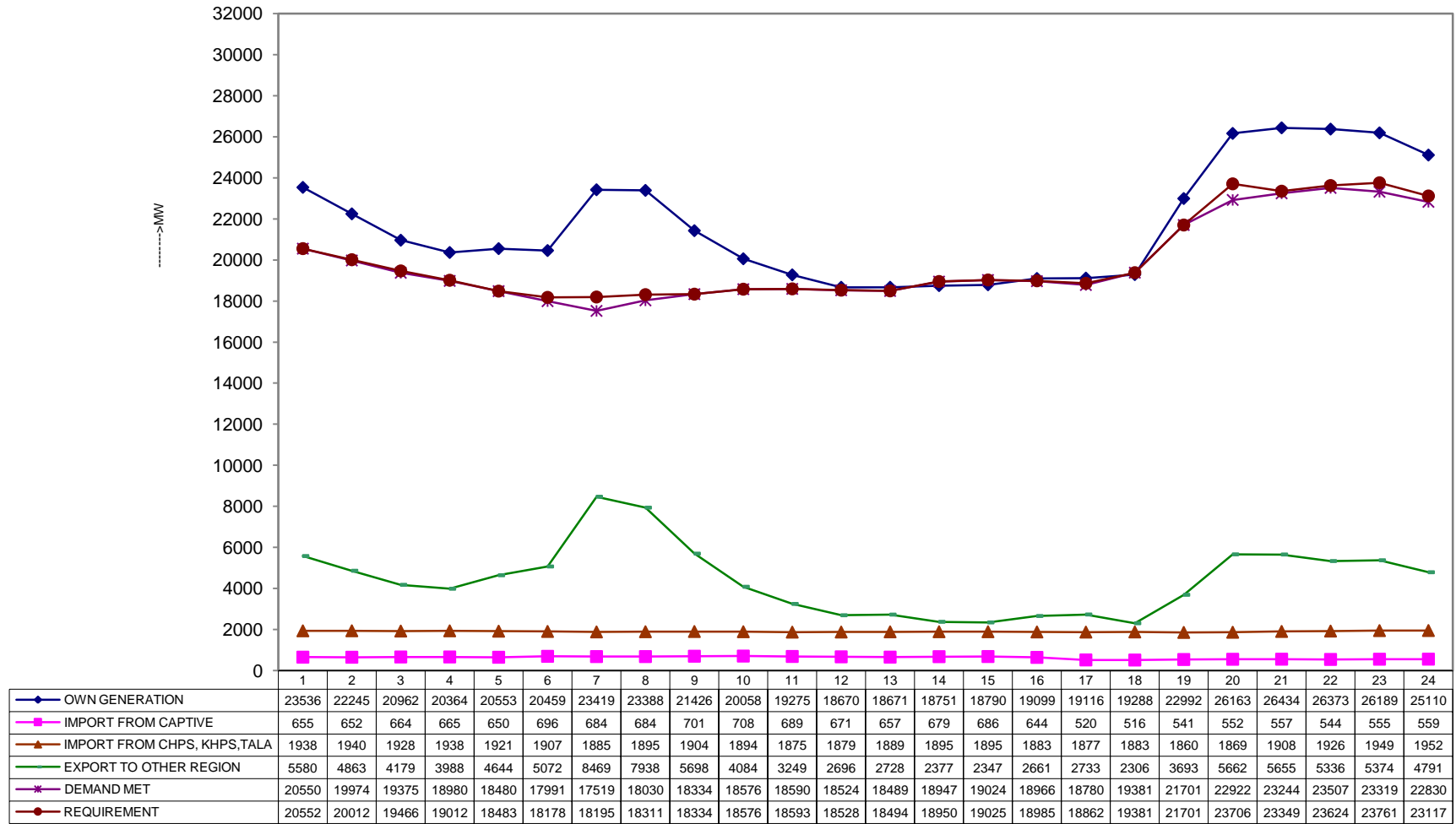
Peak Demand Met / Shortage of Eastern Region For The Month Of AUG'2022



Hourly Load Generation Data OF ER on Regional Peak Day During The Month of AUG'2022 (17-8-2022)

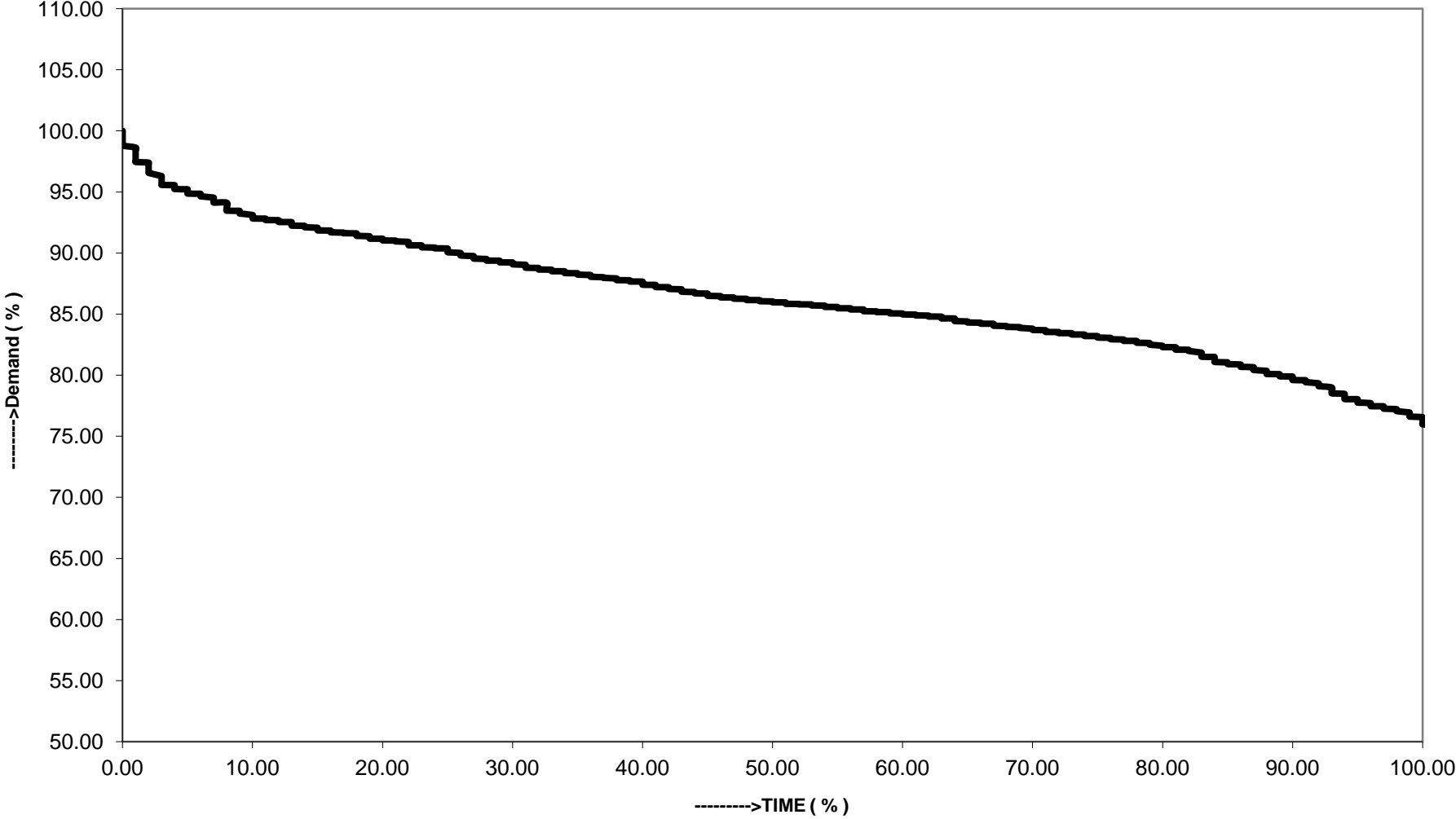


Hourly Load Generation Data of ER On Regional Lean Day During The Month of AUG'2022 (15-8-2022)



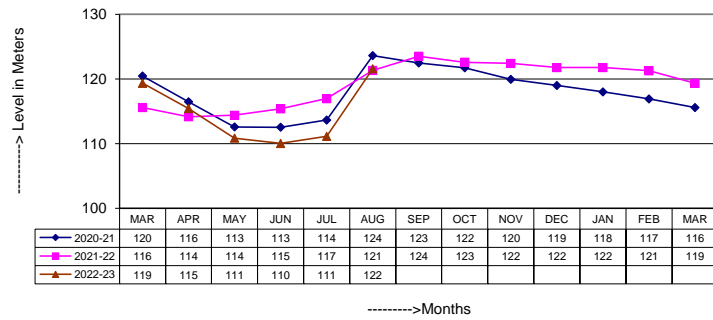
Monthly Load Duration Curve of Eastern Region for AUG-2022

Maximum Demand met : 27218 MW
Minimum Demand met: 17519 MW

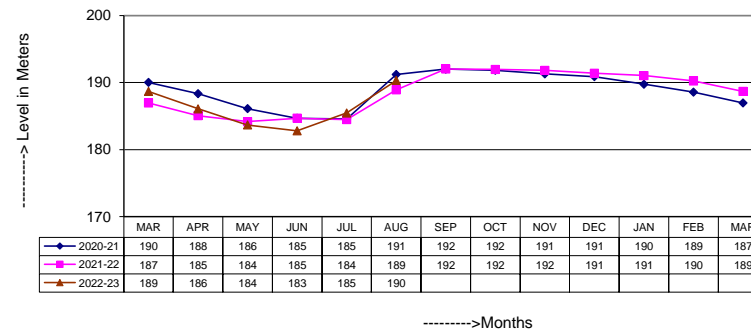


WATER LEVEL IN MAJOR RESERVOIRS ON LAST DATE OF MONTH

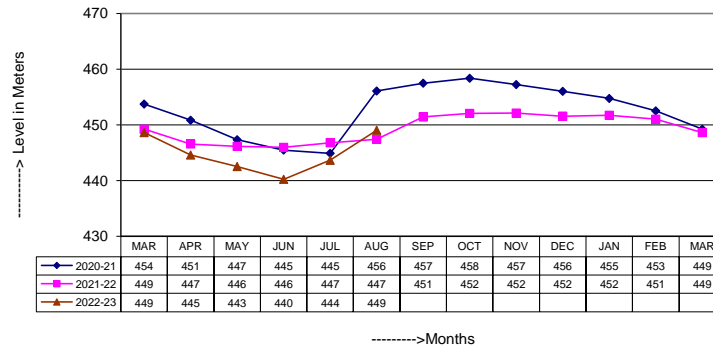
RENGALI RESERVOIR LEVEL



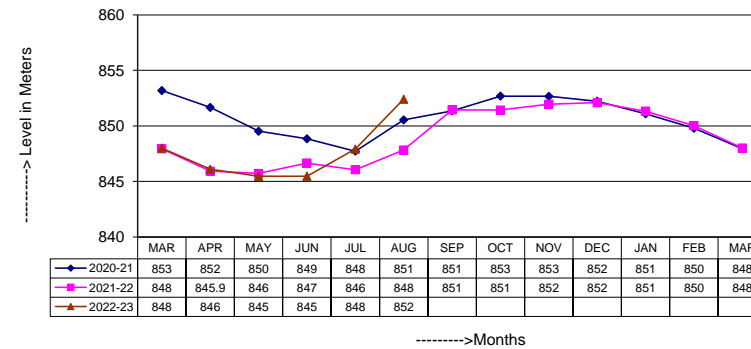
HIRAKUD RESERVOIR LEVEL



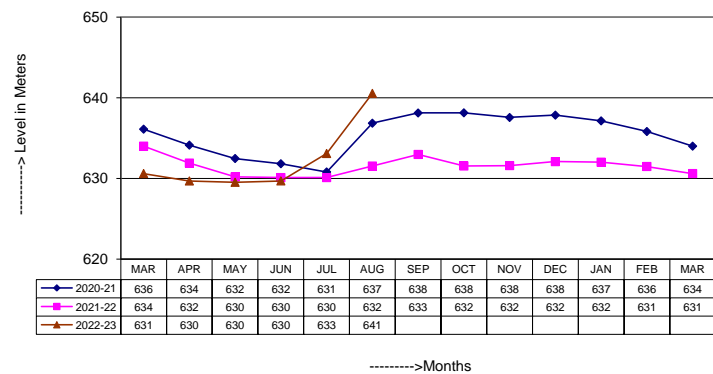
BALIMELA RESERVOIR LEVEL



UPPER KOLAB RESERVOIR LEVEL



INDRAVATI RESERVOIR LEVEL



SUBERNREKHA RESERVOIR LEVEL

