



सत्यमेव जयते

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

Eastern Regional Power Committee

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सं /NO: ERPC/MS/Reporting/MPR/2021-22/ 1198

दिनांक/Date: 30.11.2021

सेवा में : (संलग्न सूची के अनुसार)

To: As per enclosed list

विषय : अक्टूबर, 2021 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, 2021 on ERPC website.

महोदय / Sir ,

पूर्वी क्षेत्रीय विद्युत समिति की अक्टूबर, 2021 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, 2021 has been uploaded on ERPC website www.erpc.gov.in. This is for your information please.

संलग्नक : यथोपरी

Encl. – As above.

भवदीय / Yours faithfully

स्वपन राय
30/11/2021

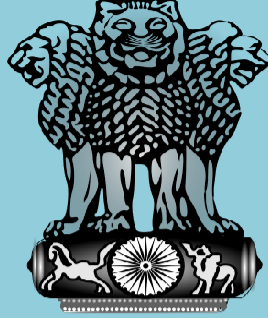
(Swapan Roy)

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Ministry of Power

पूर्वी क्षेत्रीयविद्युतसमिति

EASTERN REGIONAL POWER COMMITTEE

मासिक प्रगति रिपोर्ट

PROGRESS REPORT FOR THE MONTH OF

अक्टूबर-2021

October-2021



14, गोल्फ क्लब रोड, टोलीगंज

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Highlights of Eastern Regional Power System for Oct - 2021

- The **Maximum Net Demand** met of **Eastern Region (ER)** during the month of **Oct, 2021** was **23675 MW** which is 1.29% more than the **Oct, 2020** (23374 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 **Oct, 2021** was **453.17 MU** excluding export, which is 0.96% more than the corresponding period of last year (448.87 MU).
- **The Average regional PLF of thermal units during the month is 64.53 %**, which is marginally less than the corresponding period of the last year (**65.23%**).
NTPC (TSTPP) registered the highest **PLF** of 93.18%, followed by Haldia (HEL) 91.67% and CESC (Budge-Budge) 90.84% during the month of **Oct, 2021**.
- **Maximum Net generation** was **28682 MW** against total **Effective Capacity of 40623.41 MW** (including import from Bhutan). At the time of Regional peak (**23675 MW** on 11.10.2021 at 21.00 hrs.) the generation was **25289 MW** and import from CPP was 1650 MW, Net export was 3264 MW.
- The system frequency in the IEGC recommended band (49.9 Hz to 50.05 Hz) remained for 74.38% of time during the month. **Average frequency** for the month was **49.98 Hz**. The instantaneous maximum and the minimum frequency touched were 50.29 Hz and 49.50 Hz respectively. The integrated (Fifteen minutes time block average) maximum and minimum frequency were **50.21 Hz** and **49.63 Hz** respectively (**refer Annexure-I**).
- The **Maximum Voltage** recorded 426 KV at Jeypore 400 KV S/s whereas the minimum voltage recorded 392 KV at MAuzaffarpur 400 KV S/s of Power grid.
- **The Maximum Export from ER to outside region was 10179 MW (including Nepal and Bangladesh) on 26th Oct, 2021 at 08:00 hrs. Total net energy export during the month was 4310.31 MU (Inc.Transmission loss) MU which is corresponds to 24.96 % of ex-bus total generation 17267.25 MU of Eastern Region.**
- **The import from CPPs was 1091.20 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	5167	0	2010.19
WR	2051	1768	-144.91
SR	3900	212	1596.36
NER	1121	273	344.39
BANGLADESH	738		542.23
NEPAL (via-CTU)	99	342	-37.95
Total	10179	1768	4310.31

SALIENT FEATURES

(YEAR TO YEAR COMPARISON)

		Oct-21	OCT-2020	CHANGE	% CHANGE
1) Effective Capacity (end of the Month)					
THERMAL	(MW)	30920	30130	790	2.62
HYDRO	(MW)	5990	\$ 5877	113	2
DIESEL	(MW)	0	0	0	0
RES	(MW)	1518	1489	0	0
TOTAL	(MW)	38427	37496	931	2.48
2) Peak Demand (MW)		23979	23374	605	2.59
3) Peak Demand Met (MW)		23675	23374	301	1.29
4) Shortage (MW)		304	0	304	0.00
5) % Shortage		1.27	0.00	1.27	0.00
6) Average Energy Requirement Per Day (MU)		458.67	448.96	9.71	2.16
7) Average Energy Availability Per Day (MU)		453.17	448.87	4.30	0.96
8) Average Shortage Per Day (MU)		5.51	0.09	5.42	--
9) % Shortage		1.20	0.02	1.18	--
10) Net Generation for the Month					
Thermal (MU)		13796.22	13493.82	302.40	2.24
Hydro (MU)		3360.07	* 3290.73	69.34	2.11
RES (MU)		110.96	70.61	0.00	-
Total (MU)		17267.25	16855.16	412.09	2.44
11) Generation at the Time of Max. Regional Demand Met (11-10-21 at 21.00 Hrs.)					
Thermal (MW)		19377	21426	-2049	-9.56
Hydro (MW)		5822	* 5285	537	10.16
RES(MW)		90	69	21	30.76
Total (MW)		25289	26780	-1491	-5.57
12) Inter-Regional Energy Transfer					
Export (MU)		4493.18	5063.75	-570.57	-11.27
Import (MU)		182.86	912.33	-729.47	-79.96
Net Exp.(+)/Net Imp.(-) (MU)		4310.31	4151.53	158.78	3.82
13) Import From Captive(MU)		1091.20	1211.39	-120.19	-9.92
14) Peak Inter Regional Power Transfer					
Max Export (MW) on 26-10-21 at 08.00Hrs		10179	9586	593	6.19
Max Import (MW) on 06-10-21 at 12.00Hrs		1768	3815	-2047	-53.67
Max Net Export(+)/Import (-) (MW)		10179	9586	593	6.19
15) Maximum voltage recorded		426	JEYPORE	400 kv s/s	
16) Minimum voltage recorded		392	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 OCT'2021

A) Net Average Energy Per Day

System	Requirement Met (MU/Day)	Requirement (MU/Day)	Shortage (MU/Day)	% Shortage
BSPHCL	97.22	99.94	2.72	2.73
JUVNL	28.61	31.17	2.56	8.21
DVC	64.24	64.29	0.05	0.08
ODISHA	106.95	107.03	0.09	0.08
WBSEDCL	123.71	123.87	0.16	0.13
CESC	30.81	30.83	0.02	0.08
SIKKIM	1.54	1.54	0.00	0.08
REGION	453.17	458.67	5.51	1.20

B) Peak Demand in MW:

System	Demand Met (MW)	Demand (MW)	Shortage (MW)	% Shortage
BSPHCL	5774	6544	770	11.76
JUVNL	1520	1698	178	10.48
DVC	2976	2976	0	0.00
ODISHA	5458	5458	0	0.00
WBSEDCL	7066	7101	35	0.49
CESC	1818	1825	7	0.4
SIKKIM	104	104	0	0.00
REGION	23675	23979	304	1.27

➤ **DIVERSITY FACTOR : 1.04**

➤ **Regional Peak Demand Met on 11-10-2021 at 21.00 hrs. at 50 Hz.**

CONSTITUENT-WISE PERFORMANCE DATA OCT-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 (MW)	Gross Peak Demand (MW)
	HYDRO	Thermal	RES (Hy+Solar)	Total	HYDRO	Thermal	Solar	Total	HYDRO	Thermal	Solar	Total						
BSPHCL	0.00	167.46	20.91	188.37	0.00	17.57	0.00	17.57	0.00	149.89	20.91	170.80	0.00	2842.21	3013.01	97.2	5774	5800
JUVNL	51.36	119.21	0.00	170.57	0.02	11.58	0.00	11.60	51.34	107.63	0.00	158.97	38.07	689.76	886.81	28.6	1520	1536
DVC	69.73	2900.95	0.00	2970.68	0.20	223.84	0.00	224.04	69.53	2677.10	0.00	2746.64	15.56	-770.85	1991.34	64.2	2976	3330
ODISHA(OPGC+OHPC+TTPS)	686.34	636.58	70.09	1393.01	4.70	29.84	0.00	34.54	681.64	606.73	70.09	1358.46	777.59	1179.22	3315.28	106.9	5458	5511
WBPDC+WBSEDCL+DPL	158.80	2775.16	16.33	2950.29	0.00	242.09	0.00	242.09	158.80	2533.07	16.33	2708.19	259.99	866.71	3834.89	123.7	7066	7479
CESC	0.00	544.75	0.00	544.75	0.00	42.19	0.00	42.19	0.00	502.56	0.00	502.56	0.00	452.48	955.04	30.8	1818	1890
HEL	0.00	409.23	0.00	409.23	0.00	31.23	0.00	31.23	0.00	378.00	0.00	378.00	0.00	-378.00				
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	45.83	47.83	1.5	104	104
NTPC	0.00	5595.35	1.06	5596.41	0.00	435.96	0.00	435.96	0.00	5159.39	1.06	5160.45	0.00	-5160.45				
MPL	0.00	636.85	0.00	636.85	0.00	36.66	0.00	36.66	0.00	600.19	0.00	600.19	0.00	-600.19				
APNRL	0.00	311.43	0.00	311.43	0.00	27.64	0.00	27.64	0.00	283.79	0.00	283.79	0.00	-283.79				
GMR	0.00	444.05	0.00	444.05	0.00	29.53	0.00	29.53	0.00	414.52	0.00	414.52	0.00	-414.52				
JITPL	0.00	408.04	0.00	408.04	0.00	24.69	0.00	24.69	0.00	383.35	0.00	383.35	0.00	-383.35				
NHPC (Inc TLDP= 200.82 MU)	484.28	0.00	0.00	484.28	0.00	0.00	0.00	0.00	484.28	0.00	0.00	484.28	0.00	-484.28	0.00			
CHUZACHEN HPS	54.74	0.00	0.00	54.74	0.00	0.00	0.00	0.00	54.74	0.00	0.00	54.74	0.00	-54.74	0.00			
DIKCHU HPS	46.48	0.00	0.00	46.48	0.00	0.00	0.00	0.00	46.48	0.00	0.00	46.48	0.00	-46.48	0.00			
JORHANG HPS	56.74	0.00	0.00	56.74	0.00	0.00	0.00	0.00	56.74	0.00	0.00	56.74	0.00	-56.74	0.00			
TASHIDING HPS	60.39	0.00	0.00	60.39	0.00	0.00	0.00	0.00	60.39	0.00	0.00	60.39	0.00	-60.39	0.00			
TEESTA-III HPS	611.77	0.00	0.00	611.77	0.00	0.00	0.00	0.00	611.77	0.00	0.00	611.77	0.00	-611.77	0.00			
RONGNICHU HEP	49.83	0.00	0.00	49.83	0.00	0.00	0.00	0.00	49.83	0.00	0.00	49.83	0.00	-49.83	0.00			
CHPC(Birpara Receipt)	280.42	0.00	0.00	280.42	0.00	0.00	0.00	0.00	280.42	0.00	0.00	280.42	0.00	-280.42	0.00			
KHPS	7.11	0.00	0.00	7.11	0.00	0.00	0.00	0.00	7.11	0.00	0.00	7.11	0.00	-7.11	0.00			
THPS	393.64	0.00	0.00	393.64	0.00	0.00	0.00	0.00	393.64	0.00	0.00	393.64	0.00	-393.64	0.00			
DAGACHU HPS	58.68	0.00	0.00	58.68	0.00	0.00	0.00	0.00	58.68	0.00	0.00	58.68	0.00	-58.68	0.00			
Mangdechhu HEP	294.11	0.00	0.00	294.11	0.00	0.00	0.00	0.00	294.11	0.00	0.00	294.11	0.00	-294.11	0.00			
Total Drawal by HVDC Sahsaram,Alipurduar & Kuruchhu HEP														3.03	3.03			
Total	3364.41	14949.04	110.39	18423.85	4.91	1152.82	0.00	1157.73	3359.50	13796.22	110.39	17266.11	1091.21	-4310.08	14047.23	453.1	23675	24837

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

A) Net Average Energy

Month	2020-21					2021-22				
	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	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	462.07	462.84	0.77	0.17	49.99
JULY	447.56	448.25	0.70	0.16	49.99	498.44	500.02	1.57	0.31	50.00
AUGUST	447.69	449.62	1.93	0.43	49.99	501.37	505.13	3.76	0.74	49.99
SEPTEMBER	465.31	465.52	0.20	0.04	49.99	485.60	489.40	3.80	0.78	50.00
OCTOBER	448.87	448.96	0.09	0.02	50.00	453.17	458.67	5.51	1.20	49.98
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)	Demand (MW)	Shortage (MW)	Shortage (%)	Avg. Freq. (HZ)	Demand Met (MW)	Demand (MW)	Shortage (MW)	Shortage (%)	Avg. Freq. (HZ)
APRIL	18093	18302	209	1.14	50.00	24405	24405	0.00	0.00	49.99
MAY	20166	20306	140	0.69	50.00	24191	24191	0.00	0.00	49.99
JUNE	21832	21989	156	0.71	50.00	23494	23521	28	0.12	49.99
JULY	22643	22735	92	0.40	49.99	25145	26019	874	3.36	50.00
AUGUST	22192	22399	207	0.92	49.99	24157	24236	79	0.33	49.99
SEPTEMBER	23563	23619	56	0.24	49.99	25010	25454	445	1.75	50.00
OCTOBER	23374	23374	0	0.00	50.00	23675	23979	304	1.27	49.98
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 OCT -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	11.77	9.04	58.49	43.31
	Thermal	Barauni (U# 8)	250.00	250.00	155.14	140.91	1015.64	902.21
		Barauni (U# 9)	0.00	0.00	0.55	0.55	44.98	44.98
	(Dedicated for Bihar)	Muzaffarpur Stg-I	220.00	220.00	0.00	-0.61	247.19	211.00
		Thermal Total	690.00	680.00	167.46	149.89	1366.30	1197.42
	RES		354.91	354.91	21.48	21.48	131.64	131.64
		Total BIHAR		1044.91	1034.91	188.94	171.37	1497.94
JHARKHAND								
JHARKHAND	Thermal	TVNL	420.00	420.00	119.21	107.63	816.35	719.97
JSEB	Hydro	Subarnrekha (U#1,2)	130.00	130.00	51.36	51.36	259.73	259.70
	RES		60.41	60.41	0.00	0.00	0.00	0.00
		Total		190.41	190.41	51.36	51.36	259.73
DVC	Thermal	Bokaro-B(3)	0.00	0.00	0.00	-0.87	0.00	-5.68
		Chandrapura(U7 # 8)	500.00	500.00	309.24	278.14	2193.65	1989.10
		Durgapur(4)	210.00	210.00	15.59	12.35	65.16	50.93
		Mezia(1,2,3,4,5,6)	1340.00	1340.00	584.28	520.52	4520.08	4039.83
		Mejia(U # 7,8)	1000.00	1000.00	510.12	481.10	3757.32	3539.50
		Bokaro-A(1)	500.00	500.00	242.73	227.61	1940.59	1828.52
		Durgapur STPS (U#1,2)	1000.00	1000.00	190.75	176.02	3283.06	3087.75
		Raghunathpur TPS (U#1,2)	1200.00	1200.00	527.91	493.03	3484.03	3261.90
	Koderma STPS (U#1,2)	1000.00	1000.00	520.34	489.22	3890.58	3673.01	
		Total Thermal		6750.00	6750.00	2900.95	2677.10	23134.47
Hydro	Maithon (U#1,2,3)	63.20	63.20	32.95	32.92	187.70	187.46	
	Panchet (U#1,2)	80.00	80.00	34.02	33.87	199.38	198.41	
	Tilaiya (U#1,2)	4.00	4.00	2.76	2.7	12.47	12.4	
	Hydro Total		147.20	147.20	69.73	69.53	399.55	398.27
	Total DVC		6897.20	6897.20	2970.68	2746.64	23534.02	21863.13
WEST BENGAL								
WBPDC	Thermal	Bandel TPS	380.00	335.00	174.40	157.17	1040.12	936.93
		Santaldih TPS(U#5&6)	500.00	500.00	331.68	304.33	2367.81	2171.19
		Kolaghat TPS	1260.00	1260.00	431.44	382.97	2377.95	2109.67
		Bakreswar TPP	1050.00	1050.00	704.94	643.33	4718.93	4302.94
		Sagardighi TPP	1600.00	1600.00	923.28	860.30	6257.85	5768.25
		DPPS (300+250 *)	550.00	550.00	209.41	184.97	1414.38	1268.21
		Thermal Total	5340.00	5295.00	2775.15	2533.06	18177.02	16557.20
WBSEDCL	Hydro	Jaldhaka (3x9+2x4)	35.00	35.00	23.06	23.06	148.22	148.22
		Rammam (4x12.73)	51.00	51.00	32.62	32.62	194.79	194.79
		Teesta C.F. (3x3x7.5)	67.50	67.50	12.71	12.71	60.32	60.32
		Purulia PSS (4x225)	900.00	900.00	90.40	90.40	656.05	656.05
		Total Hydro	1053.50	1053.50	158.80	158.80	1059.38	1059.38
		RES	500.76	500.76	16.33	16.33	109.04	109.04

➤ DVC, BTPS*B* U#3 210 MW de- commissioned from 01.04.2021

PERFORMANCE OF GENERATING STATIONS IN THE EASTERN REGION DURING THE MONTH OF OCT -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	37.88	34.45	122.77	111.56	
		Budge-Budge (3x250)	750.00	750.00	506.87	468.11	3544.61	3274.16	
		Total CESC	1125.00	1125.00	544.75	502.56	3667.38	3385.72	
HEL	Thermal	HEL	600.00	600.00	409.23	377.99	2791.26	2577.71	
		Total West Bengal	8619.26	8574.26	3904.26	3588.74	25804.09	23689.05	
OPGC	Thermal	IB TPS	420.00	420.00	271.57	256.67	1624.06	1446.05	
		IB TPS U#3(660 MW)	660.00	660.00	181.39	173.96	1705.75	1592.40	
		IB TPS U#4(660 MW)	660.00	660.00	183.62	176.10	2195.00	2049.28	
OHPC	Hydro	Hirakud-I (Burla)	275.50	275.50	119.31	119.01	531.25	529.60	
		Hirakud-II (Chiplima)	72.00	72.00	41.15	41.05	154.41	153.78	
		Balimela (6x60+2x75)	510.00	510.00	119.39	118.73	630.89	625.48	
		Rengali (5x50)	250.00	250.00	119.87	119.75	649.62	648.69	
		Upper Kolab (4x80)	320.00	320.00	60.77	60.40	275.06	273.26	
		Indravati HPS (4x150)	600.00	600.00	197.83	194.74	995.02	974.80	
		Mckd.(Odisha drawal)	57.38	57.38	28.03	28.03	181.95	181.95	
		Total Hydro	2084.88	2084.88	686.34	681.70	3418.21	3387.56	
		RES	539.57	539.57	70.09	70.09	398.90	398.90	
		Total Odisha	4364.45	4364.45	1393.01	1358.52	9341.92	8874.20	
(**) SIKKIM	Hydro	RES	52.18	52.18	2.00	2.00	12.00	12.00	
NTPC		MTPS Stg-II	390.00	390.00	211.075	189.20	1357.36	1213.46	
		FSTPP# I&II (3x200+2x500)	1600.00	1600.00	684.88	621.08	4695.46	4276.22	
		FSTPP (U# 6)	500.00	500.00	155.99	142.39	1790.24	1646.32	
		KhSTPP (4x210+3x500)	2340.00	2340.00	1209.79	1112.22	9408.74	8721.05	
		TSTPP (2x500)	1000.00	1000.00	693.27	638.18	4448.90	4105.43	
		BARH STPS II (2X660)	1320.00	1320.00	391.95	365.66	4525.06	4247.15	
		BARH STPS I (1X660)			97.09	84.34	329.23	266.56	
		BRBCL # I,2,3(3X250 MW)	750	750	407.71	374.20	2787.99	2556.05	
		BRBCL # 4			5.77	4.31	5.77	4.31	
		NSTPS U# I&2	1320.00	1320.00	757.04	710.25	3880.99	3654.13	
		NSTPS U#2 infirm			0.00	0.00	202.55	175.72	
		DSTPP #1&2	1600.00	1600.00	980.43	917.56	4590.89	4305.03	
		Total NTPC	10820.00	10820.00	5594.99	5159.40	38313.43	35404.82	
		NHPC	HYDRO	Rangit (3x20)	60.00	60.00	42.52	42.52	242.20
Teesta (3x170)	510.00			510.00	302.65	302.65	2113.15	2113.15	
TLDP(4x33+4x40) for WBSEDCL	292.00			292.00	139.11	139.11	1098.16	1098.16	
Total NHPC	862.00			862.00	484.27	484.27	3453.51	3453.51	
			MPL (U#1&2)	1050.00	1050.00	636.85	600.19	4720.49	4450.21
			APNRL (U#1,2)	540.00	540.00	311.43	283.79	2008.01	1826.54
			GMR (2x350)	700.00	700.00	444.05	414.52	2892.16	2691.29
			JITPL (2X600)	1200.00	1200.00	408.04	383.35	4837.35	4524.22
			CHUZACHEN** (2x55)	110.00	110.00	54.74	54.74	434.83	434.83
			JORETHANG (2x48)	96.00	96.00	56.74	56.74	353.06	353.06
			TEESTA URJA St III (6x200)	1200.00	1200.00	611.77	611.77	5103.47	5103.47
			Tashilding (2x48.5)	97.00	97.00	60.39	60.39	356.79	356.79
			DICKCHU (2x48)	96.00	96.00	46.48	46.48	421.61	421.61
			RONGNICHU HEP (2x56.5)			49.83	49.83	259.59	259.59
			TALCHER SOLAR	10.00	10.00	1.06	1.06	7.44	7.44
			Total Thermal (E.R)	30975.00	30920.00	14948.67	13796.22	108249.02	99887.70
			Total Hydro (E.R)	5989.58	5989.58	2330.44	2325.60	15519.73	15487.77
			Total RES	1517.83	1517.83	110.96	110.96	659.02	659.02
			EASTERN REGIONAL		TOTAL (E.R)	38482.41	38427.41	17390.08	16232.79
BHUTAN	Hydro	CHPC(4x90)	360.00	270.00	234.18	234.18	1483.52	1483.52	
		Kurichu (4x15)	60.00	60.00	36.98	36.98	116.86	116.86	
		TALA (6x170)	1020.00	1020.00	393.64	393.64	2572.81	2572.81	
		DAGACHU (2x63)	126.00	126.00	58.68	58.68	378.33	378.33	
		MANGDECHU(4x180)	720.00	720.00	310.98	310.98	2475.95	2475.95	
		Grand Total	40768.41	40623.41	18424.54	17267.25	131455.25	123061.96	

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

ORGANISATION	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 (2021-22) in MU	Cummulative PLF upto Current Month (%)
BIHAR	NTPC	Barauni (U# 6,7)	220.00	210.00	11.77	7.53	58.49	5.42
	Thermal	Barauni (U# 8)	250.00	250.00	155.14	83.41	1015.64	79.10
		Barauni (U# 9)	0.00	0.00	0.55	0.00	44.98	0.00
	(Dedicated for Bihar)	Muzaffarpur Stg-I	220.00	220.00	0.00	0.00	247.19	21.88
	RES	Thermal Total	690.00	680.00	167.46	32.99	1366.30	37.83
			354.91	354.91	21.48		131.64	
Total BIHAR			1044.91	1034.91	188.94		1497.94	
JHARKHAND								
TVNL	Thermal	TVNL	420.00	420.00	119.21	38.15	816.35	37.84
JSEB	Hydro	Subarnrekha (U#1,2)	130.00	130.00	51.36		259.73	
	RES		60.41	60.41	0.00		0.00	
	Total		190.41	190.41	51.36		259.73	
DVC	Thermal	Bokaro-B(3)	0.00	0.00	0.00	0.00	0.00	0.00
		Chandrapura(U7 # 8)	500.00	500.00	309.24	83.13	2193.65	85.42
		Durgapur(4)	210.00	210.00	0.00	9.98	65.16	6.04
		Mezia(1,2,3,4,5,6)	1340.00	1340.00	584.28	58.61	4520.08	65.68
		Mejia(U # 7,8)	1000.00	1000.00	510.12	68.56	3757.32	73.16
		Bokaro-A(1)	500.00	500.00	242.73	65.25	1940.59	75.57
		Durgapur STPS (U#1,2)	1000.00	1000.00	190.75	25.64	3283.06	63.92
		Raghunathpur TPS (U#1,2)	1200.00	1200.00	527.91	59.13	3484.03	56.53
	Koderma STPS (U#1,2)	1000.00	1000.00	520.34	69.94	3890.58	75.75	
	Total Thermal		6750.00	6750.00	2900.95	57.76	23134.47	66.73
	Hydro	Maithon (U#1,2,3)	63.20	63.20	32.95		187.70	
		Panchet (U#1,2)	80.00	80.00	34.02		199.38	
		Tilaiya (U#1,2)	4.00	4.00	2.76		12.47	
Hydro Total		147.20	147.20	69.73		399.55		
Total DVC		6897.20	6897.20	2970.68		23534.02		
WEST BENGAL								
WBPDCL	Thermal	Bandel TPS	380.00	335.00	174.40	69.97	1040.12	60.45
		Santalidih TPS(U#5&6)	500.00	500.00	331.68	89.16	2367.81	92.20
		Kolaghat TPS	1260.00	1260.00	431.44	46.02	2377.95	36.75
		Bakreswar TPP	1050.00	1050.00	704.94	90.24	4718.93	87.50
		Sagardighi TPP	1600.00	1600.00	923.28	77.56	6257.85	76.15
		DPPS (300+250 *)	550.00	550.00	209.41	51.18	1414.38	50.07
		Thermal Total	5340.00	5295.00	2775.15	70.44	18177.02	66.84
WBSEDCL	Hydro	Jaldhaka (3x9+2x4)	35.00	35.00	23.06		148.22	
		Rammam (4x12.73)	51.00	51.00	32.62		194.79	
		Teesta C.F. (3x3x7.5)	67.50	67.50	12.71		60.32	
		Purulia PSS (4x225)	900.00	900.00	90.40		656.05	
		Total Hydro	1053.50	1053.50	158.80		1059.38	
		RES	500.76	500.76	16.33		109.04	
DE-COMMISSIONED	WBPDCL,Bandel TPS Unit #3 & #4 (IC=2X82.5 MW,EC=2X60 MW) decommissioned from 01.04.2018. NTPC, TTPS Odisha All Six units(4X62.5+2X110) decommissioned from 01.04.2021 DVC, BTPS(B) Unit #3 (210 MW) de-commissioned from 01.04.2021 DPL U#6 (110 MW) Decommissioned from 28.01.20 as per CEA. CTPS U#6 (140 MW) Decommissioned from 19.03.2020 as per CEA.							
COMMISSIONED	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.NSTPS U#2 (660 MW) COD from 23.07.2021							

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

ORGANISATION	TYPE	POWER STATION	INSTALLED CAPACITY (in MW)	EFFECTIVE CAPACITY (in MW)	Gross	PLF	Cummulative Gross	Cummulative PLF
					Energy Generation in MU	of Current Month (%)	Energy Generation upto Current Month (2021-22) in MU	upto Current Month (%)
CESC	Thermal	Titagarh (4x60)	240.00	240.00	0.00	0.00	0.00	0.00
		Southern (2x67.5)	135.00	135.00	37.88	37.72	122.77	17.71
		Budge-Budge (3x250)	750.00	750.00	506.87	90.84	3544.61	92.02
		Total CESC	1125.00	1125.00	544.75	65.08	3667.38	63.47
HEL	Thermal		600.00	600.00	409.23	91.67	2791.26	90.58
		Total West Bengal	8619.26	8574.26	3904.26		25804.09	
OPGC	Thermal	IB TPS	420.00	420.00	271.57	86.91	1624.06	75.29
		IB TPS U#3(660 MW)	660.00	660.00	181.39	36.94	1705.75	50.32
		IB TPS U#4(660 MW)	660.00	660.00	183.62	37.39	2195.00	64.75
OHPC	Hydro	Hirakud-I (Burla)	275.50	275.50	119.31		531.25	
		Hirakud-II (Chiplima)	72.00	72.00	41.15		154.41	
		Balimela (6x60+2x75)	510.00	510.00	119.39		630.89	
		Rengali (5x50)	250.00	250.00	119.87		649.62	
		Upper Kolab (4x80)	320.00	320.00	60.77		275.06	
		Indravati HPS (4x150)	600.00	600.00	197.83		995.02	
		Mckd.(Odisha drawal)	57.38	57.38	28.03		181.95	
		Total Hydro	2084.88	2084.88	686.34		3418.21	
		RES	539.57	539.57	70.09		398.90	
		Total Odisha	4364.45	4364.45	1393.01		9341.92	
(**) SIKKIM	Hydro	RES	52.18	52.18	2.00		12.00	
NTPC		MTPS Stg-II	390	390	211.075	72.74	1357.36	67.76
		FSTPP# I&II (3x200+2x500)	1600.00	1600.00	684.88	57.53	4695.46	57.14
		FSTPP (U# 6)	500.00	500.00	155.99	41.93	1790.24	69.71
		KhSTPP (4x210+3x500)	2340.00	2340.00	1209.79	69.49	9408.74	78.29
		TSTPP (2x500)	1000.00	1000.00	693.27	93.18	4448.90	86.62
		BARH STPS II (2X660)	1320.00	1320.00	391.95	39.91	4525.06	66.75
		BARH STPS I (1X660)			97.09		329.23	
		BRBCL # 1,2,3(3X250 MW)	750.00	750.00	407.71	73.07	2787.99	72.38
		BRBCL # 4			5.77	0.00	5.77	0.00
		NSTPS U# 1&2	1320.00	1320.00	757.04	77.09	3880.99	57.25
		NSTPS U#2 infirm					202.55	
		DSTPP #1&2	1600.00	1600.00	980.43	82.36	4590.89	86.95
		Total NTPC	10820.00	10820.00	5594.99	68.22	38313.43	73.73
		NHPC	HYDRO	Rangit (3x20)	60.00	60.00	42.52	
Teesta (3x170)	510.00			510.00	302.65		2113.15	
TLDP(4x33+4x40) for WBSEDCL	292.00			292.00	139.11		1098.16	
Total NHPC	862.00			862.00	484.27		3453.51	
Thermal	MPL (U#1&2)		1050.00	1050.00	636.85	81.52	4720.49	87.53
	APNRL (U#1,2)		540.00	540.00	311.43	77.52	2008.01	72.40
	GMR (2x350)		700.00	700.00	444.05	85.26	2892.16	80.44
	JITPL (2X600)		1200.00	1200.00	408.04	45.70	4837.35	78.49
	CHUZACHEN** (2x55)		110.00	110.00	54.74		434.83	
	JORETHANG (2x48)		96.00	96.00	56.74		353.06	
	TEESTA URJA St III (6x200)		1200.00	1200.00	611.77		5103.47	
	Tashilding (2x48.5)		97.00	97.00	60.39		356.79	
	DICKCHU (2x48)		96.00	96.00	46.48		421.61	
	RONGNICHU HEP (2x56.5)				49.83		259.59	
	TALCHER SOLAR		10.00	10.00	1.06		7.44	
Total Thermal (E.R)	30975.00	30920.00	14948.67	64.53	108249.02	69.69		
EASTERN REGIONAL		Total Hydro (E.R)	5989.58	5989.58	2330.44		15519.73	
		Total RES	1517.83	1517.83	110.96		659.02	
		TOTAL (E.R)	38482.41	38427.41	17390.08		124427.78	
BHUTAN	Hydro	CHPC(4x90)	360.00	270.00	234.18		1483.52	
		Kurichu (4x15)	60.00	60.00	36.98		116.86	
		TALA (6x170)	1020.00	1020.00	393.64		2572.81	
		DAGACHU (2x63)	126.00	126.00	58.68		378.33	
		MANGDECHU(4x180)	720.00	720.00	310.98		2475.95	
Grand Total			40768.41	40623.41	18424.54		131455.25	

CONTRIBUTIONS OF DIFFERENT CONSTITUENTS AT THE TIME OF REGIONAL PEAK
DURING THE MONTH OF OCT'2021 (11-10-2021)

Date 11-Oct-21
Time 21.00 Hrs.
Frequency 50.00 Hz.

System/State	Installed	Effective	Hydro	Thermal	RES	(All Fig. in MW)
	Capacity	Capacity				Net Gen
						Total
BSPHCL	1045	1035	0	228	0	228
JUVNL	610	610	109	142	0	251
DVC	6897	6897	129	3735	0	3864
ODISHA	4364	4364	1634	862	90	2586
WBSIEDCL	6344	6299	546	4085	0	4631
TLDP	292	292	190	0	0	190
HEL HALDIA	600	600	0	481	0	481
CESC	1125	1125	0	738	0	738
DPL	550	550	0	0	0	0
SIKKIM	52	52	0	0	0	0
NTPC	10820	10820	0	6986	0	6986
NHPC	570	570	577	0	0	577
CHUKHA	360	270	261	0	0	261
KURICHU	60	60	54	0	0	54
TALA	1020	1020	369	0	0	369
MPL	1050	1050	0	972	0	972
OPGC (660 MW)	0	0	0	0	0	0
APNRL	540	540	0	497	0	497
Kamal ganga (GMR)	700	700	0	660	0	660
JITPL	1200	1200	0	-9	0	-9
RONGNICHU HEP (2x56.5)	113	113	50	0	0	50
Chuzachen	110	110	110	0	0	110
Jorethang	96	96	70	0	0	70
TEESTA URJA St III	1200	1200	1175	0	0	1175
Tashilding	97	97	77	0	0	77
DICKCHU	96	96	96	0	0	96
<u>Daghachu</u>	126	126	54	0	0	54
<u>Solar</u>	10	10	0	0	0	0
<u>Mangdechhu</u>	720	720	320	0	0	320
<u>Total</u>	40768	40623	5822	19377	90	25289
Import From Captive:						1650
Export To:						
NER						901
SR						1437
WR						-1409
NR						1678
Bangladesh						715
Nepal						-57
<u>Total</u>						3264
➤ <u>nal Net Peak Demand Met (MW) :</u>						23675

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

Hourly Load Generation Data OF ER On Regional Peak Day During The Month of OCT'2021 (11-10-2021)

(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	4471	18431	22902	1683	1253	3386	22452	65	164	22681
2	3552	18670	22222	1646	1241	3352	21757	42	267	22065
3	3461	18607	22068	1606	1219	3262	21630	11	127	21769
4	3321	18618	21938	1630	1214	3470	21313	43	127	21483
5	3222	18597	21820	1609	1207	3338	21297	65	127	21489
6	3197	18572	21769	1652	1181	4570	20032	7	127	20166
7	3452	18534	21986	1630	1150	5660	19107	22	1280	20409
8	3404	18440	21844	1649	1153	5401	19245	25	671	19942
9	2892	18387	21279	1625	1145	4532	19517	2	302	19821
10	2870	18438	21308	1600	1166	4361	19713	-16	281	19979
11	2853	18519	21372	1617	1164	3970	20183	9	494	20686
12	2375	18611	20986	1654	1151	3746	20045	11	480	20536
13	2432	18601	21033	1640	1157	3666	20163	5	269	20438
14	2511	18519	21030	1669	1163	3706	20156	-11	98	20243
15	3062	18705	21767	1600	1128	4037	20458	-4	176	20630
16	3620	18700	22320	1651	1119	4527	20563	58	0	20620
17	3595	18837	22432	1580	1106	5145	19974	86	119	20178
18	4089	18985	23073	1600	1030	4524	21180	128	1441	22749
19	4807	19094	23901	1678	1068	3491	23156	118	477	23750
20	4994	19295	24289	1658	1134	3540	23539	0	332	23871
21	4854	19377	24231	1650	1058	3264	23675	2	302	23979
22	4617	19042	23659	1690	1069	2921	23496	-14	0	23496
23	4567	18934	23501	1705	1081	2905	23382	90	0	23472
24	4558	18562	23121	1680	1080	2565	23316	59	166	23541

Hourly Load Generation Data of ER On Regional Lean Day During The Month of OCT'2021 (1-10-2021)

(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	3422	17456	20878	1384	1566	5954	17873	-16	4	17877
2	3137	17307	20445	1387	1558	6090	17299	-20	4	17303
3	2987	17271	20258	1403	1521	6402	16780	-3	13	16790
4	3026	17360	20386	1410	1527	6531	16793	-3	13	16803
5	3182	17342	20524	1420	1511	6726	16729	1	7	16737
6	3214	17293	20507	1431	1484	7217	16204	-13	7	16211
7	2885	17460	20344	1412	1461	7495	15722	-1	12	15733
8	2940	17472	20412	1391	1487	7147	16143	-21	14	16157
9	2935	17341	20276	1370	1491	6796	16341	-31	50	16360
10	3025	17501	20526	1444	1481	6830	16623	-16	323	16930
11	2962	17711	20673	1421	1463	6897	16660	23	547	17231
12	3193	17603	20796	1343	1463	6253	17349	30	8	17387
13	3252	17537	20789	1233	1474	5801	17696	26	448	18170
14	3107	17466	20573	1195	1481	5100	18148	-32	84	18200
15	3061	17746	20807	1224	1436	5589	17878	39	62	17979
16	3148	17980	21128	1165	1252	5607	17938	-8	62	17992
17	3060	18032	21092	1170	1066	5811	17517	38	328	17883
18	3566	18022	21588	1244	1036	5120	18748	26	880	19654
19	4353	18305	22658	1352	1063	4879	20194	122	1280	21595
20	4766	18263	23029	1322	1244	5454	20141	28	821	20990
21	4781	18136	22918	1339	1392	5628	20021	-7	390	20404
22	4640	18310	22950	1346	1607	5461	20442	4	173	20618
23	4482	18467	22949	1315	1590	5459	20395	34	203	20631
24	4160	18709	22868	1370	1497	5808	19927	78	6	20011

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

FOR THE MONTH OF OCT'2021

POWER CUT / RESTRICTIONS

BSPHCL	NO NOTIFIED CUTS/RESTRICTIONS However there was loadshedding of 82.03 MU
JUVNL	NO NOTIFIED CUTS/RESTRICTIONS However there was loadshedding of 78.63 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 1.91 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-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 HZ	HRS.	MIN HZ	HRS.	MAX HZ	HRS.	MIN HZ	HRS.	
	TO	TO	TO	TO	TO	TO	<49.9	TO	TO									
01-Oct	50.01	50.03	49.97	49.95	49.92	49.98	11.22	69.48	19.31	69.48	50.17	06:03:00	49.63	18:20:40	50.08	0:00	49.71	0:00
02-Oct	49.96	50.03	50.01	50.00	50.02	50.00	3.62	74.28	22.09	74.28	50.16	06:02:20	49.77	01:44:30	50.08	0:00	49.88	0:00
03-Oct	50.00	50.01	49.98	49.99	49.97	49.99	4.16	81.66	14.18	81.66	50.12	07:59:40	49.76	11:44:50	50.09	0:00	49.85	0:00
04-Oct	49.99	49.93	49.99	49.95	49.93	49.96	13.90	79.60	6.50	79.60	50.19	13:01:40	49.68	06:42:10	50.08	0:00	49.73	0:00
05-Oct	49.97	49.93	49.93	49.93	49.88	49.93	25.59	71.19	3.22	71.19	50.09	09:02:40	49.66	22:14:20	50.06	0:00	49.75	0:00
06-Oct	49.98	49.99	50.00	49.91	49.95	49.97	9.20	80.65	10.15	80.65	50.12	12:59:40	49.60	18:13:40	50.07	0:00	49.74	0:00
07-Oct	49.95	49.96	49.90	49.87	49.94	49.92	27.85	69.28	2.87	69.28	50.11	08:01:20	49.50	18:14:50	50.04	0:00	49.63	0:00
08-Oct	49.96	49.96	49.94	49.92	49.92	49.94	22.29	73.06	4.66	73.06	50.12	13:02:19	49.64	18:20:49	50.07	0:00	49.75	0:00
09-Oct	49.93	49.97	49.98	49.90	49.94	49.95	22.84	67.27	9.90	67.27	50.19	13:02:00	49.58	18:22:00	50.12	0:00	49.71	0:00
10-Oct	50.01	50.02	50.01	50.02	49.94	50.01	3.00	69.77	27.23	69.77	50.14	13:03:20	49.71	23:38:50	50.10	0:00	49.79	0:00
11-Oct	49.94	49.99	49.97	49.94	49.91	49.96	21.02	74.35	4.63	74.35	50.12	06:01:20	49.69	17:42:20	50.05	0:00	49.75	0:00
12-Oct	49.91	49.96	49.95	49.95	49.86	49.94	29.13	65.01	5.86	65.01	50.14	13:03:10	49.62	18:12:20	50.05	0:00	49.77	0:00
13-Oct	49.89	49.98	49.96	49.94	49.97	49.94	23.99	65.89	10.12	65.89	50.18	13:02:50	49.60	18:23:50	50.10	0:00	49.70	0:00
14-Oct	49.99	50.02	49.98	50.00	50.00	50.00	4.29	78.85	16.86	78.85	50.16	09:02:20	49.75	12:38:10	50.08	0:00	49.82	0:00
15-Oct	50.00	50.02	50.01	49.99	49.93	50.00	6.82	71.22	21.97	71.22	50.21	18:04:20	49.63	00:36:10	50.08	0:00	49.83	0:00
16-Oct	49.99	49.99	49.93	49.95	49.96	49.96	14.28	79.25	6.47	79.25	50.13	06:02:40	49.78	18:15:00	50.06	0:00	49.73	0:00
17-Oct	49.99	50.00	50.00	50.03	50.01	50.01	4.39	71.37	24.25	71.37	50.16	19:45:00	49.74	16:44:50	50.12	0:00	49.87	0:00
18-Oct	50.01	49.97	49.98	50.01	49.98	49.99	8.66	70.06	21.28	70.06	50.16	13:05:40	49.58	14:54:50	50.12	0:00	49.79	0:00
19-Oct	49.98	49.96	49.95	49.93	50.01	49.96	15.05	80.15	4.80	80.15	50.16	13:02:00	49.71	18:11:20	50.06	0:00	49.72	0:00
20-Oct	49.98	49.98	49.99	50.03	50.03	50.00	6.13	68.34	25.53	68.34	50.13	10:45:20	49.68	12:21:50	50.08	0:00	49.79	0:00
21-Oct	50.01	50.02	49.96	50.01	50.00	50.00	5.28	72.40	22.32	72.40	50.19	09:05:00	49.69	14:44:30	50.10	0:00	49.78	0:00
22-Oct	49.99	49.99	49.95	49.98	50.00	49.98	12.00	72.37	15.63	72.37	50.15	13:02:50	49.74	11:48:40	50.13	0:00	49.75	0:00
23-Oct	49.95	49.99	49.97	50.02	49.97	49.98	11.55	73.10	15.35	73.10	50.20	20:03:10	49.74	14:31:40	50.13	0:00	49.79	0:00
24-Oct	49.96	50.00	49.98	50.03	49.99	49.99	4.21	80.61	15.17	80.61	50.22	06:01:30	49.84	01:37:20	50.11	0:00	49.88	0:00
25-Oct	50.00	49.99	49.97	50.04	49.99	50.00	5.72	73.87	20.42	73.87	50.21	13:04:10	49.76	01:35:00	50.14	0:00	49.80	0:00
26-Oct	49.99	50.01	50.00	50.02	50.00	50.00	5.30	70.56	24.14	70.56	50.29	13:02:10	49.79	00:18:20	50.21	0:00	49.85	0:00
27-Oct	50.00	49.99	50.00	50.03	49.97	50.00	1.22	81.56	17.22	81.56	50.19	17:02:30	49.85	23:35:00	50.10	0:00	49.91	0:00
28-Oct	49.98	50.00	49.97	50.01	49.97	49.99	3.91	83.17	12.92	83.17	50.16	13:01:20	49.81	12:39:10	50.09	0:00	49.90	0:00
29-Oct	50.00	49.97	49.97	50.00	50.01	49.99	6.62	77.22	16.16	77.22	50.24	13:03:10	49.74	11:41:00	50.15	0:00	49.87	0:00
30-Oct	50.01	50.02	50.00	49.98	49.99	50.00	4.53	73.99	21.48	73.99	50.28	13:02:50	49.65	16:50:40	50.16	0:00	49.75	0:00
31-Oct	49.99	49.95	49.95	49.95	49.94	49.96	6.40	86.16	7.44	86.16	50.13	21:59:00	49.76	12:07:50	50.06	0:00	49.85	0:00
MAX	50.01	50.03	50.01	50.04	50.03	50.01	29.13	86.16	27.23	86.16	50.29		49.85		50.21		49.91	
MIN	49.89	49.93	49.90	49.87	49.86	49.92	1.22	65.01	2.87	65.01	50.09		49.50		50.04		49.63	
AVG	49.98	49.99	49.97	49.98	49.96	49.98	11.10	74.38	14.52	74.38	50.17		49.70		50.10		49.79	

SUMMARY:Avg. Frequency : **50.0 Hz.****Instantaneous Frequency :**

Maximum Frequency : 50.29 Hz at 13:02 Hrs.

Minimum Frequency : 49.50 Hz at 18:14 Hrs.

15 Minutes Integrated Frequency :

Maximum Frequency : 50.21 Hz On 00/01/00 at 00:00 Hrs.

Minimum Frequency : 49.63 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	11.10	74.38	14.52

VOLTAGE ANALYSIS

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

(All figs. in kV)

PGCIL	BINAGURI		MAITHON		JEERAT		BIHARSHARIFF	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	418	401	416	402	417	394	420	401

PGCIL	MUZAFFARPUR		JAMSHEDPUR		ROURKELA		JEYPORE	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	419	392	416	400	408	396	426	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
Oct-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	
			(31-10-21)	(31-10-20)		
Hirakud	192	180	191.95	191.83	192.02	01.10.21
Balimela	462	439	452.05	458.36	451.65	01.10.21
Rengali	123	109	122.61	121.75	123.61	01.10.21
Upperkolab	858	844	851.42	852.68	851.57	01.10.21
Indravati	642	625	631.54	638.14	632.98	01.10.21
Subernrekha	590	580	587.53	586.83	589.00	01.10.21

B.

CPP/IPP IMPORT by Eastern Region Constituents during Oct-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	38.07
West Bengal	65.87	24.87	0	0	0	0	0	169.24	259.98
ODISHA	0	0	41.81	296.17	6.67	0.00	0	432.94	777.59
DVC	0	0	0	0	0	0	15.56	0	15.56
TOTAL	65.87	24.87	41.81	296.17	6.67	0.00	15.56	602.19	1091.20

C.

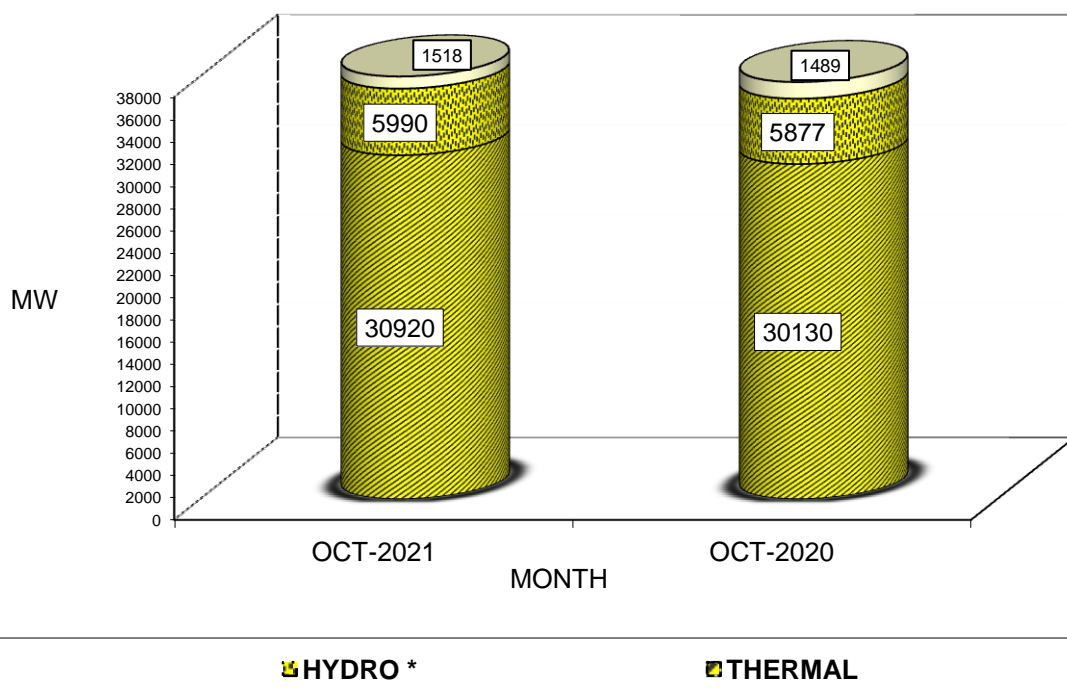
Distribution of Schedule Supply among Key Customers by IPPs during

Oct-21

(All figs. are in MU)

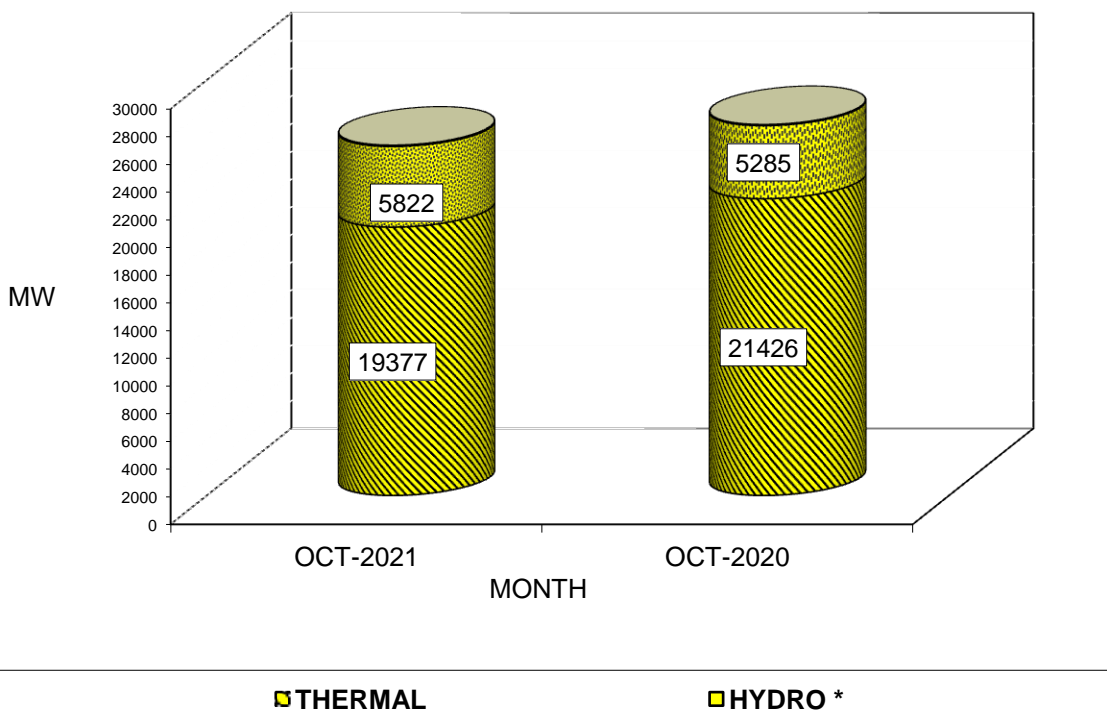
IPP	TPDDL	WBSEDCL/ WBPDCDCL	DVC	Sale at IEX/NPCL	ODISHA	JSEB	CTU/Others	Total (Excl. Tr. Loss)
MPL	191.19	182.60	99.42	0.00	0	0	121.99	595.20
Sterlite	0	0	0	0	0.00	0	0.00	0.00
APNRL	0	0.00	0	0.00	0.00	0.00	0.00	0.00
Total	191.19	182.60	99.42	0.00	0.00	0.00	121.99	595.20

EFFECTIVE CAPACITY OF EASTERN REGIONAL GRID



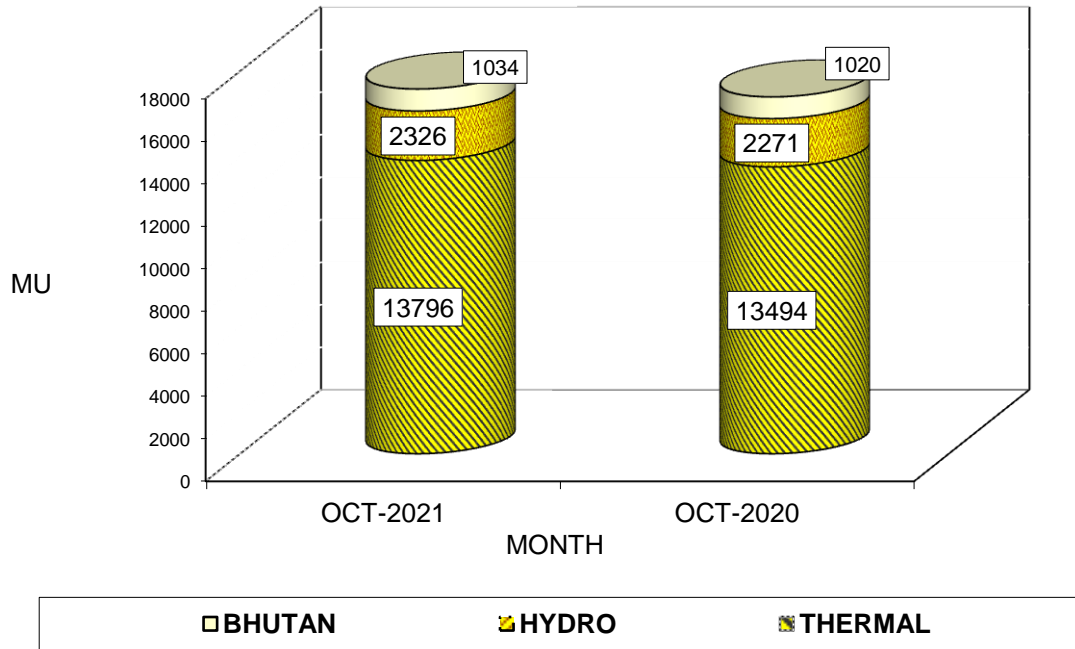
*Excludes contribution from HEPs of Bhutan

GENERATION CORRESPONDING TO PEAK DEMAND MET

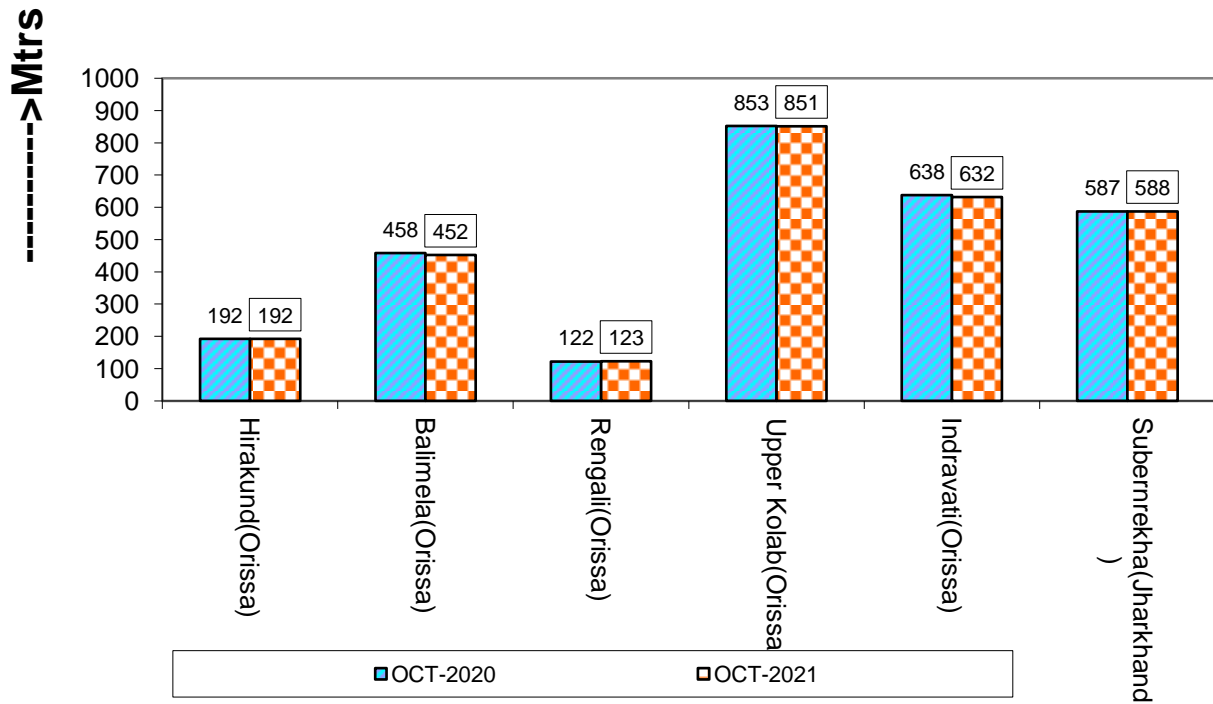


*Includes contribution from HEP of Bhutan

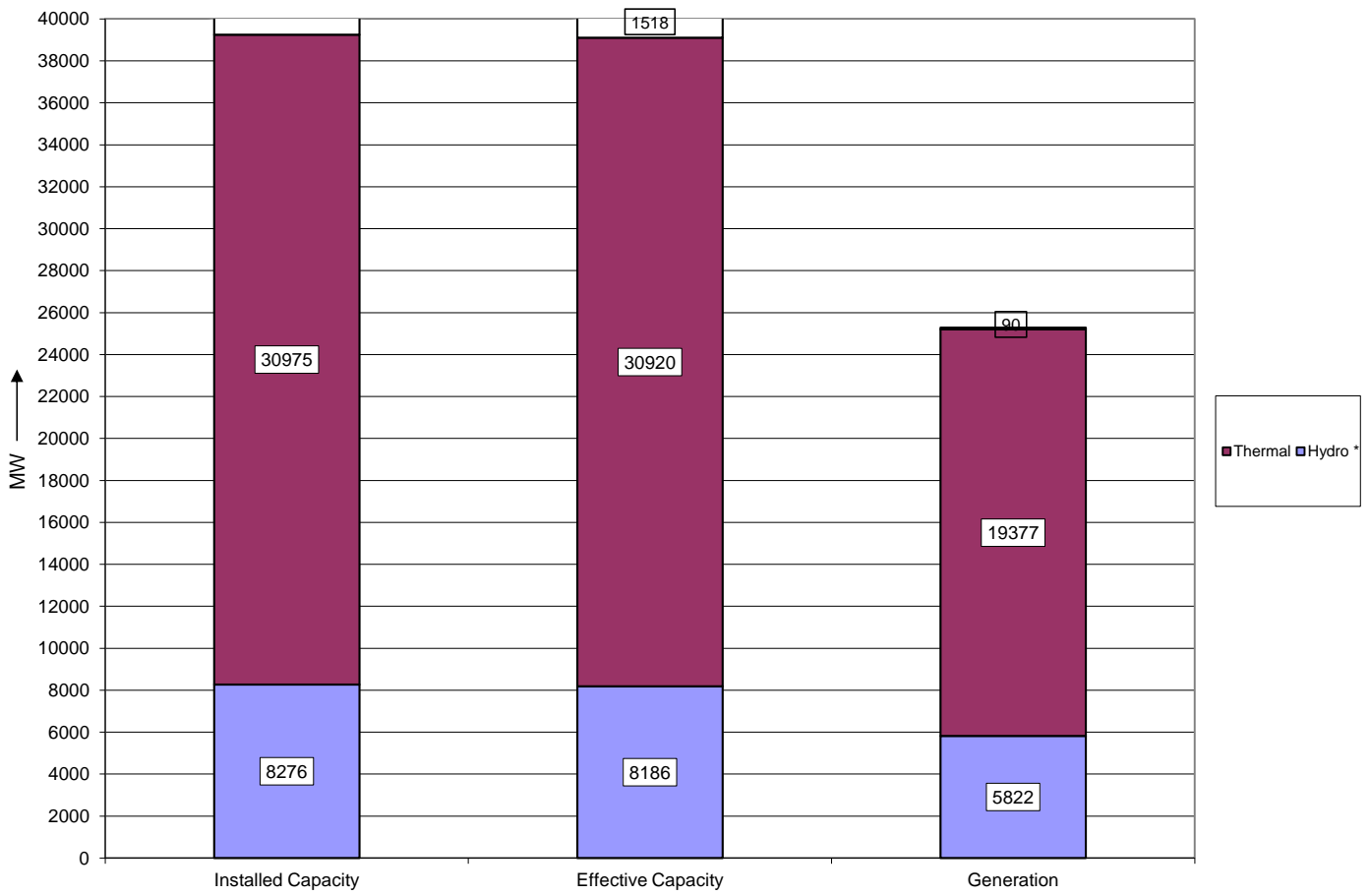
NET ENERGY GENERATION



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

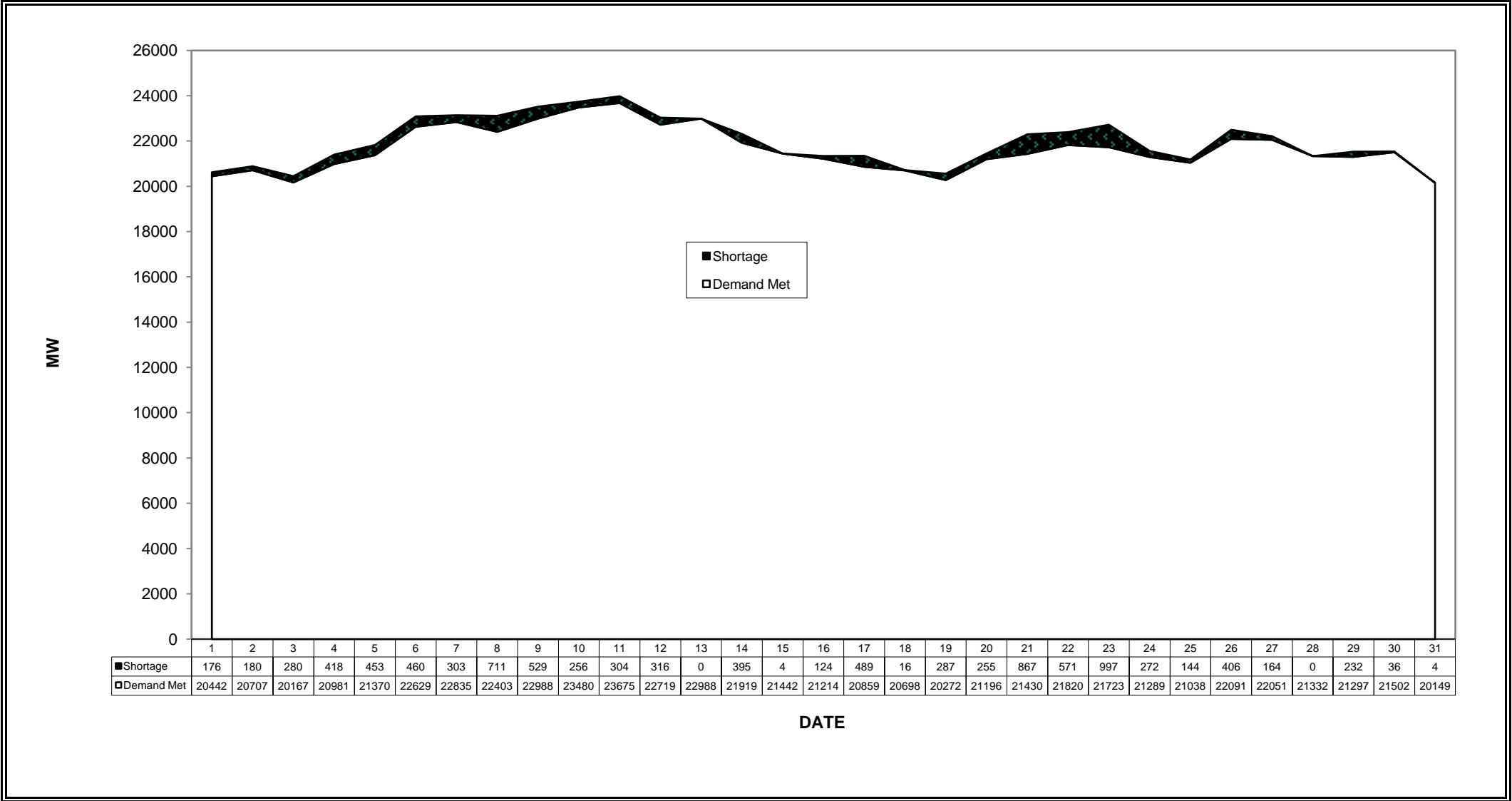


Capacity / Actual Generation Pattern of ER on Peak Day (11-10-2021) at 21.00 hrs.

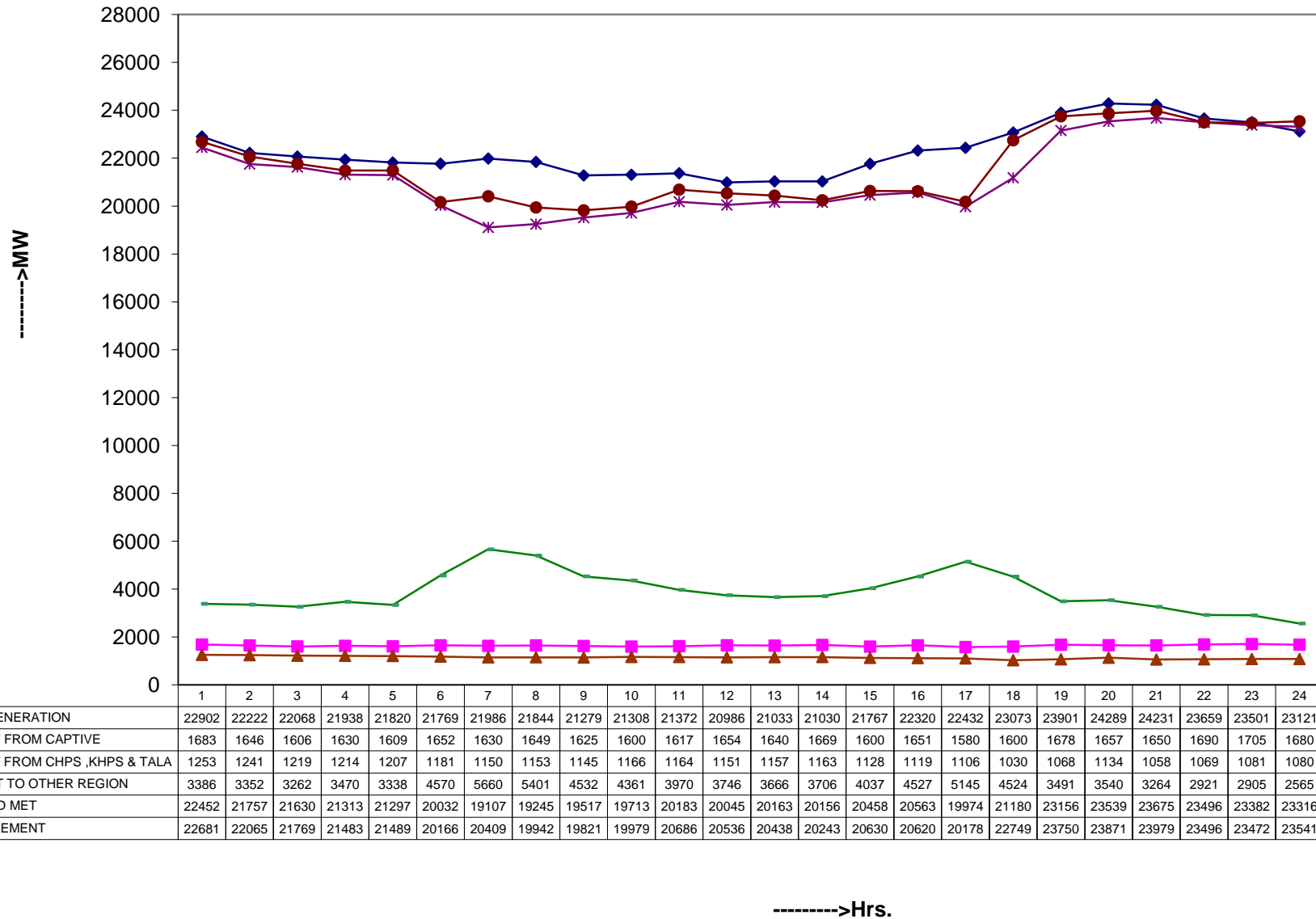


(*)--Includes contribution from HEP of Bhutan (Chukka, Kurichhu & Tala)

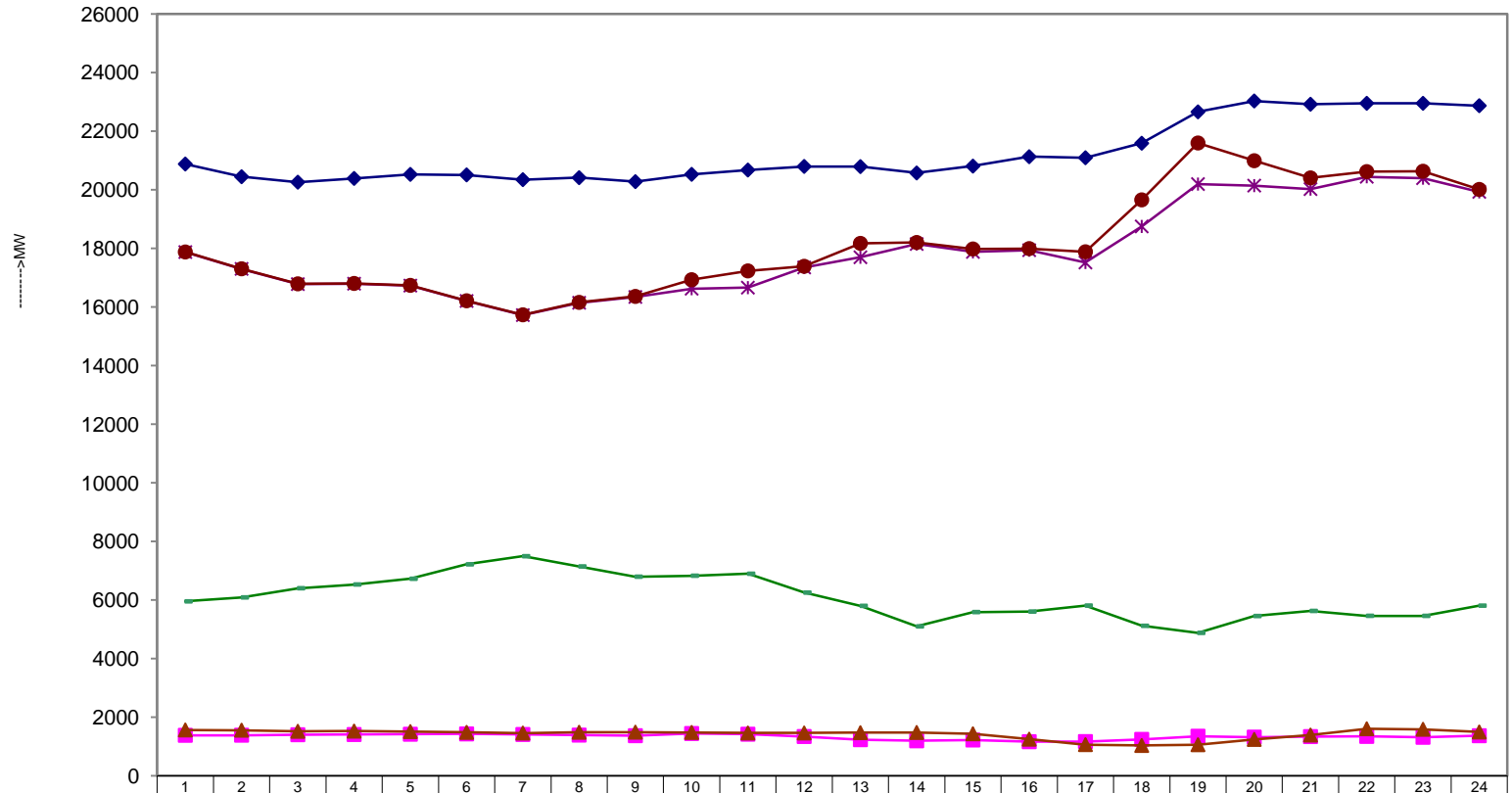
Peak Demand Met / Shortage of Eastern Region For The Month Of OCT'2021



Hourly Load Generation Data OF ER On Regional Peak Day During The Month of OCT'2021 (11-10-2021)



Hourly Load Generation Data of ER On Regional Lean Day During The Month of OCT'2021 (1-10-2021)

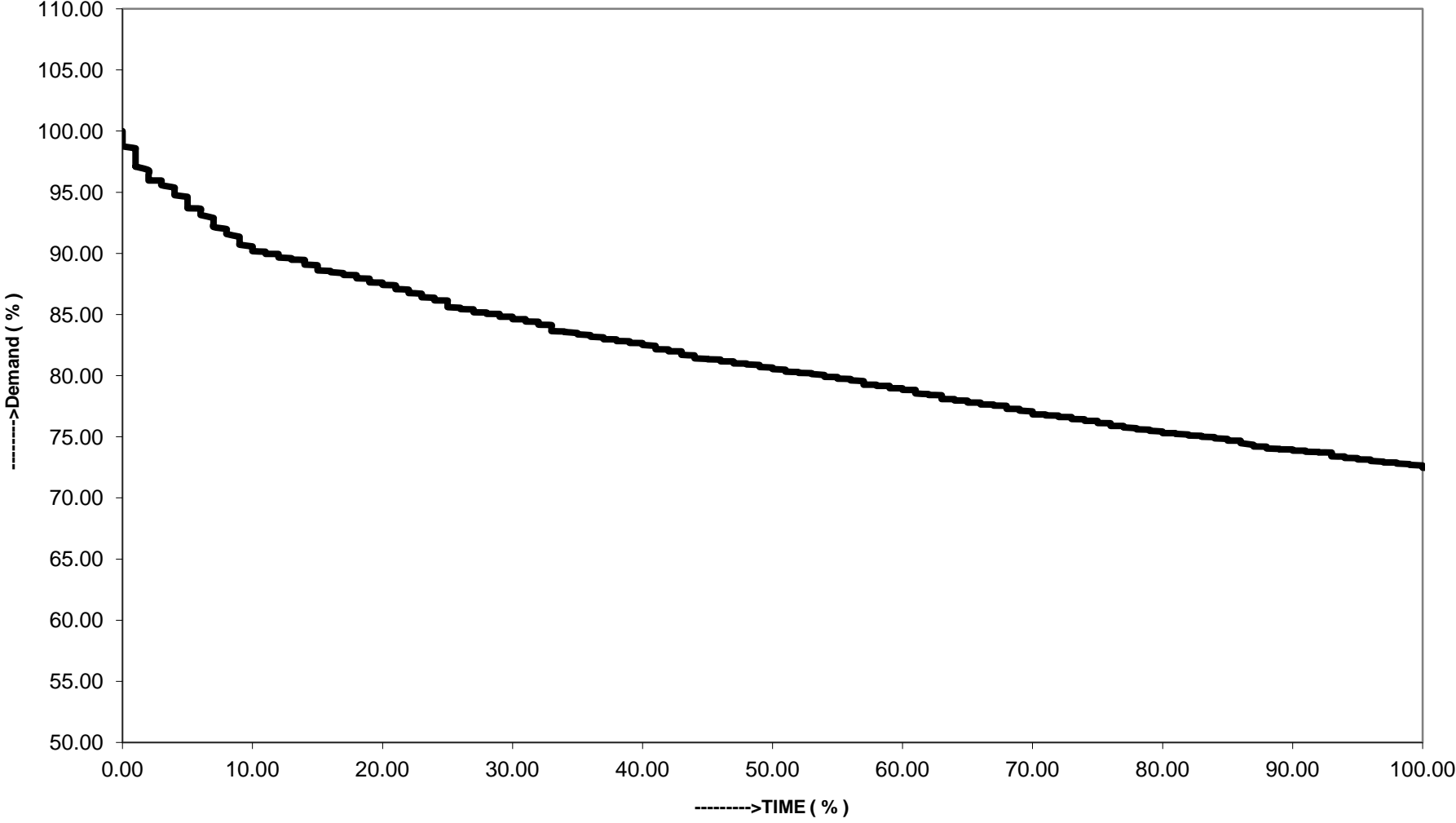


	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
OWN GENERATION	20878	20445	20258	20386	20524	20507	20344	20412	20276	20526	20673	20796	20789	20573	20807	21128	21092	21588	22658	23029	22918	22950	22949	22868
IMPORT FROM CAPTIVE	1384	1387	1403	1410	1420	1431	1412	1391	1370	1444	1421	1343	1233	1195	1224	1165	1170	1244	1352	1322	1339	1346	1315	1370
IMPORT FROM CHPS, KHPS, TALA	1566	1558	1521	1527	1511	1484	1461	1487	1491	1481	1463	1463	1474	1481	1436	1252	1066	1036	1063	1244	1392	1607	1590	1497
EXPORT TO OTHER REGION	5954	6090	6402	6531	6726	7217	7495	7147	6796	6830	6897	6253	5801	5100	5589	5607	5811	5120	4879	5454	5628	5461	5459	5808
DEMAND MET	17873	17299	16780	16793	16729	16204	15722	16143	16341	16623	16660	17349	17696	18148	17878	17938	17517	18748	20194	20141	20021	20442	20395	19927
REQUIREMENT	17877	17303	16790	16803	16737	16211	15733	16157	16360	16930	17231	17387	18170	18200	17979	17992	17883	19654	21595	20990	20404	20618	20631	20011

----->Hrs.

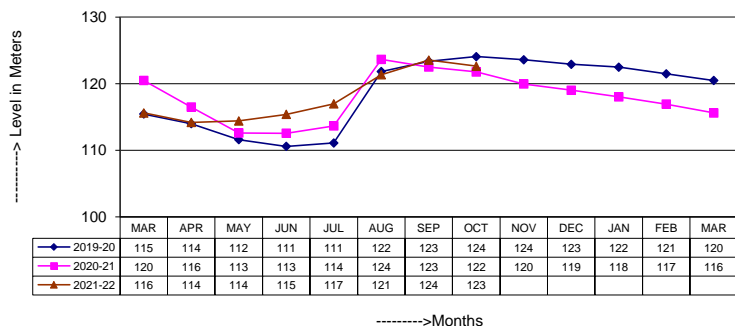
Monthly Load Duration Curve of Eastern Region for OCT-2021

Maximum Demand met : 23675 MW
Minimum Demand met: 15722 MW

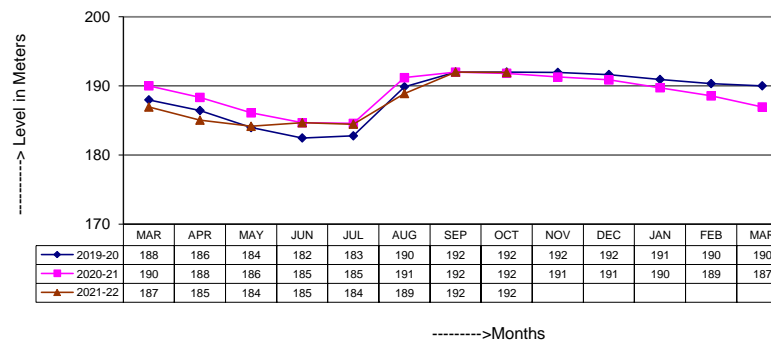


WATER LEVEL IN MAJOR RESERVOIRS ON LAST DATE OF MONTH

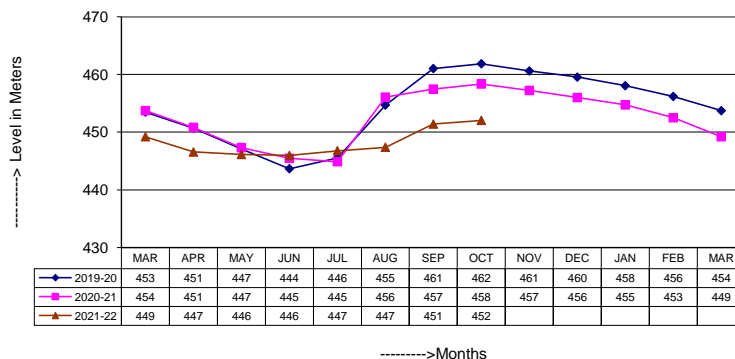
RENGALI RESERVOIR LEVEL



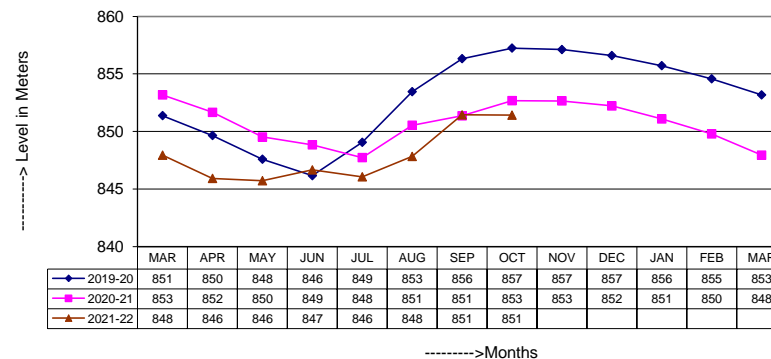
HIRAKUD RESERVOIR LEVEL



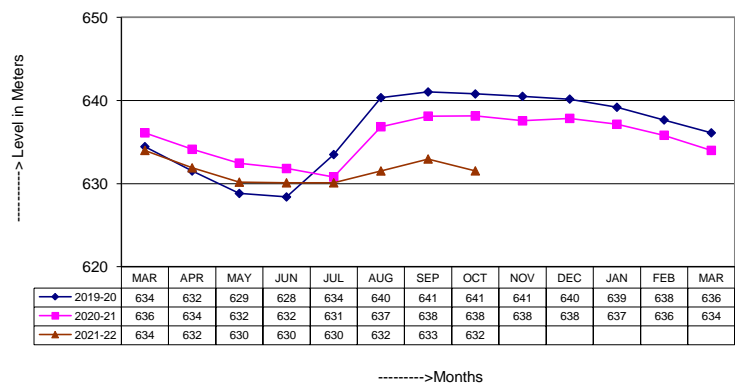
BALIMELA RESERVOIR LEVEL



UPPER KOLAB RESERVOIR LEVEL



INDRAVATI RESERVOIR LEVEL



SUBERNREKHA RESERVOIR LEVEL

