

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/2021-22/

दिनांक/Date: 03.03.2022

सेवा में : (संलग्न सूची के अनुसार)

To: As per enclosed list.

विषय : जनवरी, 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 January, 2022  
on ERPC website.

महोदय / Sir ,

पूर्वी क्षेत्रीय विद्युत समिति की जनवरी, 2022 माह की मासिक प्रगति रिपोर्ट ईआरपीसी की वेबसाइट  
[www.erpc.gov.in](http://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  
January, 2022 has been uploaded on ERPC website [www.erpc.gov.in](http://www.erpc.gov.in). This is for your  
information please.

संलग्नक : यथोपरी।

Encl. – As above.

भवदीय / Yours faithfully

  
03/03/2022

(Swapan Roy)

अधीक्षक अभियंता

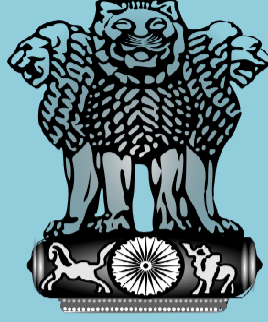
Superintending Engineer

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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

जनवरी - 2022

January-2022



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## Highlights of Eastern Regional Power System for Jan- 2022

- The **Maximum Net Demand** met of Eastern Region (ER) during the month of Jan, 2022 was **21204 MW** which is 3.46% more than the Jan, 2021 (20496 MW). Individual **Peak Demand (MW)** of most of the constituents **increased (except DVC, WBSedCL & CESC)** compared to the corresponding period of last year.
- The **Average Net Energy Consumption** per day in ER for the month of Jan, 2022 was **409.39 MU** excluding export, which is 6.13% more than the corresponding period of last year (385.74 MU).
- **The Average regional PLF of thermal units during the month is 72.65 %**, which is 5.98% more than the corresponding period of the last year (66.67%).

WBPdCL (Sagardighi TPP) registered the highest PLF of 100.00%, followed by WBPdCL (Bakreswar TPP) 99.68% and DVC (Chandrapura U#7,8) 93.01% during the month of Jan, 2022.

- **Maximum Net generation** was **28969 MW** against total **Effective Capacity of 41783.41 MW** (including import from Bhutan). At the time of Regional peak (**21204 MW** on 20.01.2022 at 19.00 hrs.) the generation was **27967 MW** and import from CPP was 1335 MW, Net export was 8097 MW.
- The system frequency in the IEGC recommended band (49.9 Hz to 50.05 Hz) remained for 75.66% of time during the month. **Average frequency** for the month was **49.99 Hz**. The instantaneous maximum and the minimum frequency touched were 50.28 Hz and 49.65 Hz respectively. The integrated (Fifteen minutes time block average) maximum and minimum frequency were **50.19 Hz** and **49.74 Hz** respectively (**refer Annexure-I**).
- The **Maximum Voltage** recorded 428 KV at Jamshedpur 400 KV S/s whereas the minimum voltage recorded 391 KV at Muzaffarpur 400 KV S/s of Power grid.
- **The Maximum Export from ER to outside region was 11144 MW (including Nepal and Bangladesh) on 26th Jan, 2022 at 19:00 hrs.** Total net energy export during the month was **5471.43 MU (Inc.Transmission loss) MU** which is corresponds to **32.27 %** of ex-bus total generation 16955.24 MU of Eastern Region.
- **The import from CPPs was 1207.23 MU during the month.**
- **Export(+)/Import(-) during the month:**

Region/Country	Max. Export of Power from ER (MW)	Max. Import of Power by ER (MW)	Net Export of Energy inc. Transmission loss(MU)
NR	6034	0	2571.51
WR	3041	1932	379.67
SR	3985	0	1792.04
NER	950	758	-42.19
BANGLADESH	774		486.79
NEPAL (via-CTU)	353		165.11
Chukha, Kurichu, Tala			118.51
<b>Total</b>	<b>10614</b>	<b>1570</b>	<b>5471.43</b>

**SALIENT FEATURES**

( YEAR TO YEAR COMPARISON )

		Jan-22	JAN-2021	CHANGE	% CHANGE
1) Effective Capacity (end of the Month)					
THERMAL	(MW)	32080	30130	1950	6.47
HYDRO	(MW)	5990	\$ 5877	113	2
DIESEL	(MW)	0	0	0	0
RES	(MW)	1518	1489	0	0
TOTAL	(MW)	39587	37495	2092	5.58
2) Peak Demand ( MW )		21396	20703	693	3.35
3) Peak Demand Met ( MW )		21204	20496	708	3.46
4) Shortage ( MW )		191	207	-16	0.00
5) % Shortage		0.89	1.00	-0.11	0.00
6) Average Energy Requirement Per Day ( MU )		412.33	386.81	25.52	6.60
7) Average Energy Availability Per Day ( MU )		409.39	385.74	23.65	6.13
8) Average Shortage Per Day ( MU )		2.94	1.07	1.87	--
9) % Shortage		0.71	0.28	0.43	--
10) Net Generation for the Month					
Thermal ( MU )		16102.27	13900.81	2201.46	15.84
Hydro ( MU )		739.14	* 1012.56	-273.42	-27.00
RES (MU)		113.84	118.79	0.00	-
Total ( MU )		16955.24	15032.16	1923.08	12.79
11) Generation at the Time of Max. Regional Demand Met ( 20-01-22 at 19.00 Hrs. )					
Thermal ( MW )		24425	20081	4344	21.63
Hydro ( MW )		3519	* 3232	287	8.87
RES( MW )		23	23	0	0.69
Total ( MW )		27967	23336	4631	19.84
12) Inter-Regional Energy Transfer					
Export ( MU )		5513.62	4860.80	652.82	13.43
Import ( MU )		42.19	706.39	-664.20	-94.03
Net Exp.(+)/Net Imp.(-) ( MU )		5471.43	4154.40	1317.03	31.70
13) Import From Captive(MU)		1207.23	1080.27	126.96	11.75
14) Peak Inter Regional Power Transfer					
Max Export ( MW ) on 26-01-22 at 19.00Hrs		11144	8889	2255	25.37
Max Import ( MW ) on 01-01-22 at 01.00Hrs		1932	2792	-860	-30.82
Max Net Export(+)/Import (-) ( MW )		10614	8394	2220	26.45
15) Maximum voltage recorded		428	JAMSHEDPUR	400 kv s/s	
16) Minimum voltage recorded		390	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 JAN'2022

**A ) Net Average Energy Per Day**

System	Requirement Met (MU/Day)	Requirement (MU/Day)	Shortage (MU/Day)	% Shortage
BSPHCL	86.38	87.21	0.83	0.96
JUVNL	30.34	32.35	2.01	6.22
DVC	66.39	66.41	0.02	0.03
ODISHA	106.89	106.92	0.03	0.03
WBSEDCL	96.19	96.25	0.06	0.06
CESC	21.10	21.11	0.01	0.03
SIKKIM	2.08	2.08	0.00	0.03
<b>REGION</b>	<b>409.39</b>	<b>412.33</b>	<b>2.94</b>	<b>0.71</b>

**B) Peak Demand in MW:**

System	Demand Met (MW)	Demand (MW)	Shortage (MW)	% Shortage
BSPHCL	5243	5773	530	9.18
JUVNL	1610	1850	241	13.00
DVC	3124	3125	1	0.03
ODISHA	5110	5115	5	0.10
WBSEDCL	5471	5471	0	0.00
CESC	1247	1247	0	0.0
SIKKIM	133	133	0	0.00
<b>REGION</b>	<b>21204</b>	<b>21396</b>	<b>191</b>	<b>0.89</b>

➤ **DIVERSITY FACTOR : 1.03**

➤ **Regional Peak Demand Met on 20-1-2022 at 19.00 hrs. at 49.96 Hz.**

**CONSTITUENT-WISE PERFORMANCE DATA JAN-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 Met (MW)	Gross Peak Demand Met (MW)											
	HYDRO	Thermal	RES (Hy+Solar)	Total	HYDRO	Thermal	Solar	Total	HYDRO	Thermal	Solar	Total																	
BSPHCL	0.00	273.65	42.57	316.22	0.00	27.38	0.00	27.38	0.00	246.27	42.57	288.84	0.00	2388.92	2677.75	86.4	5243	5305											
JUVNL	2.21	205.17	0.00	207.38	0.00	18.94	0.00	18.94	2.21	186.23	0.00	188.44	43.56	708.52	940.51	30.3	1610	1625											
DVC	19.14	3625.12	0.00	3644.25	0.14	253.88	0.00	254.01	19.00	3371.24	0.00	3390.24	16.45	-1348.47	2058.21	66.4	3124	3523											
ODISHA(OPGC+OHPC+TTPS)	227.98	891.12	59.88	1178.97	2.29	68.98	0.00	71.27	225.69	822.13	59.88	1107.70	897.65	1308.24	3313.60	106.9	5110	5180											
WBPDC+WBSEDCL+DPL	117.12	2916.88	9.37	3043.37	0.00	246.66	0.00	246.66	117.12	2670.22	9.37	2796.71	249.57	-64.68	2981.59	96.2	5471	5843											
CESC	0.00	425.79	0.00	425.79	0.00	33.35	0.00	33.35	0.00	392.44	0.00	392.44	0.00	261.74	654.18	21.1	1247	1306											
HEL	0.00	203.23	0.00	203.23	0.00	16.29	0.00	16.29	0.00	186.94	0.00	186.94	0.00	-186.94															
SIKKIM	0.00	0.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.00	63.44	64.44	2.1													
NTPC	0.00	6733.18	1.02	6734.20	0.00	461.11	0.00	461.11	0.00	6272.07	1.02	6273.09	0.00	-6273.09															
MPL	0.00	622.66	0.00	622.66	0.00	35.82	0.00	35.82	0.00	586.84	0.00	586.84	0.00	-586.84															
APNRL	0.00	351.28	0.00	351.28	0.00	27.73	0.00	27.73	0.00	323.55	0.00	323.55	0.00	-323.55															
GMR	0.00	408.53	0.00	408.53	0.00	26.86	0.00	26.86	0.00	381.67	0.00	381.67	0.00	-381.67															
JITPL	0.00	706.52	0.00	706.52	0.00	43.87	0.00	43.87	0.00	662.65	0.00	662.65	0.00	-662.65															
NHPC (Inc TLDP= 37.84 MU)	103.23	0.00	0.00	103.23	0.00	0.00	0.00	0.00	103.23	0.00	0.00	103.23	0.00	-103.23	0.00														
CHUZACHEN HPS	10.84	0.00	0.00	10.84	0.00	0.00	0.00	0.00	10.84	0.00	0.00	10.84	0.00	-10.84	0.00														
DIKCHU HPS	8.77	0.00	0.00	8.77	0.00	0.00	0.00	0.00	8.77	0.00	0.00	8.77	0.00	-8.77	0.00														
JORHANG HPS	13.47	0.00	0.00	13.47	0.00	0.00	0.00	0.00	13.47	0.00	0.00	13.47	0.00	-13.47	0.00														
TASHIDING HPS	15.44	0.00	0.00	15.44	0.00	0.00	0.00	0.00	15.44	0.00	0.00	15.44	0.00	-15.44	0.00														
TEESTA-III HPS	175.52	0.00	0.00	175.52	0.00	0.00	0.00	0.00	175.52	0.00	0.00	175.52	0.00	-175.52	0.00														
RONGNICHU HEP	5.64	0.00	0.00	5.64	0.00	0.00	0.00	0.00	5.64	0.00	0.00	5.64	0.00	-5.64	0.00														
CHPC(Birpara Receipt)	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														
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	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														
DAGACHU HPS	19.41	0.00	0.00	19.41	0.00	0.00	0.00	0.00	19.41	0.00	0.00	19.41	0.00	-19.41	0.00														
Mangdechhu HEP	22.80	0.00	0.00	22.80	0.00	0.00	0.00	0.00	22.80	0.00	0.00	22.80	0.00	-22.80	0.00														
Total Drawal by HVDC Sahsaram,Alipurduar & Others																													
Total	741.56	17363.12	113.84	18218.53	2.43	1260.87	0.00	1263.30	739.13	16102.25	113.84	16955.23	1207.23	-5471.61	12690.84	409.38	21204	22915											



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	Requirement	Shortage	Shortage	Avg. Freq.	Requirement Met	Requirement	Shortage	Shortage	Avg. Freq.
	(MU/Day)	(MU/Day)	(MU/Day)	(%)	(HZ)	(MU/Day)	(MU/Day)	(MU/Day)	(%)	(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	388.80	390.35	1.55	0.40	49.99
DECEMBER	361.19	361.95	0.76	0.21	50.00	384.67	388.30	3.63	0.94	49.99
JANUARY	385.74	386.81	1.07	0.28	49.99	409.39	412.33	2.94	0.71	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	Demand	Shortage	Shortage	Avg. Freq.	Demand Met	Demand	Shortage	Shortage	Avg. Freq.
	(MW)	(MW)	(MW)	(%)	(HZ)	(MW)	(MW)	(MW)	(%)	(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	20961	20998	37	0.18	49.99
DECEMBER	19546	19697	151	0.77	50.00	20631	20992	362	1.72	49.99
JANUARY	20496	20703	207	1.00	49.99	21204	21396	191	0.89	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 JAN -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 ( 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	0.00	-0.35	58.49	41.88
	Thermal	Barauni (U# 8)	250.00	250.00	137.70	124.56	1439.03	1287.30
		Barauni (U# 9)	250.00	250.00	135.95	122.17	437.91	398.44
	(Dedicated for Bihar)	Muzaffarpur Stg-I	220.00	220.00	0.00	-0.10	247.19	210.19
		Thermal Total	940.00	930.00	273.65	246.28	2182.62	1933.75
	RES		354.91	354.91	42.57	42.57	247.56	247.56
		Total BIHAR	1294.91	1284.91	316.22	288.85	2430.18	2181.31
<b>JHARKHAND</b>								
JHARKHAND	Thermal	TVNL	420.00	420.00	205.17	186.23	1314.53	1171.27
JSEB	Hydro	Subarnrekha (U#1,2)	130.00	130.00	2.21	2.21	285.25	285.21
	RES		60.41	60.41	0.00	0.00	0.00	0.00
		Total	190.41	190.41	2.21	2.21	285.25	285.21
DVC	Thermal	Bokaro-B(3)	0.00	0.00	0.00	-0.83	0.00	-8.16
		Chandrapura( U7 # 8)	500.00	500.00	346.01	313.40	3156.24	2858.63
		Durgapur(4)	210.00	210.00	53.99	45.92	119.15	95.79
		Mezia(1,2,3,4,5,6)	1340.00	1340.00	705.07	630.43	6622.27	5919.51
		Mejia( U # 7,8)	1000.00	1000.00	582.19	551.08	5499.38	5188.58
		Bokaro-A(1)	500.00	500.00	190.63	178.35	2348.51	2206.99
		Durgapur STPS (U#1,2)	1000.00	1000.00	554.55	525.42	4952.82	4670.75
		Raghunathpur TPS (U#1,2)	1200.00	1200.00	568.17	533.47	5031.74	4713.07
	Koderma STPS (U#1,2)	1000.00	1000.00	624.50	594.00	5612.68	5304.98	
		Total Thermal	6750.00	6750.00	3625.12	3371.24	33342.80	30950.13
Hydro	Maithon (U#1,2,3)	63.20	63.20	7.28	7.26	203.97	203.65	
	Panchet (U#1,2)	80.00	80.00	9.14	9.04	229.26	227.99	
	Tilaiya (U#1,2)	4.00	4.00	2.71	2.7	20.63	20.5	
	Hydro Total	147.20	147.20	19.14	19.00	453.85	452.17	
	Total DVC	6897.20	6897.20	3644.25	3390.24	33796.65	31402.29	
<b>WEST BENGAL</b>								
WBPDCCL	Thermal	Bandel TPS	380.00	335.00	39.23	32.53	1401.23	1259.09
		Santalidih TPS(U#5&6)	500.00	500.00	220.47	201.75	3297.63	3026.96
		Kolaghat TPS	1260.00	1260.00	430.29	383.34	3497.92	3104.56
		Bakreswar TPP	1050.00	1050.00	778.72	715.65	6820.51	6231.20
		Sagardighi TPP	1600.00	1600.00	1190.43	1105.89	9630.14	8895.64
		DPPS (300+250 *)	550.00	550.00	257.74	231.06	2183.10	1957.38
		Thermal Total	5340.00	5295.00	2916.88	2670.22	26830.53	24474.83
WBSEDCL	Hydro	Jaldhaka (3x9+2x4)	35.00	35.00	0.02	0.02	168.05	168.05
		Rammam (4x12.73)	51.00	51.00	12.90	12.90	249.61	249.61
		Teesta C.F. (3x3x7.5)	67.50	67.50	0.00	0.00	65.66	65.66
		Purulia PSS (4x225)	900.00	900.00	104.20	104.20	967.36	967.36
		Total Hydro	1053.50	1053.50	117.12	117.12	1450.68	1450.68
		RES	500.76	500.76	9.37	9.37	143.78	143.78

➤ 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 JAN -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 ( 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	0.00	0.00	138.03	125.44		
		Budge-Budge (3x250)	750.00	750.00	425.79	392.44	4652.31	4291.45		
		Total CESC	1125.00	1125.00	425.79	392.44	4790.34	4416.88		
HEL	Thermal	HEL	600.00	600.00	203.23	186.94	3642.98	3364.43		
		Total West Bengal	8619.26	8574.26	3672.40	3376.10	36858.31	33850.60		
OPGC	Thermal	IB TPS	420.00	420.00	259.85	231.28	2442.56	2190.73		
		IB TPS U#3(660 MW)	660.00	660.00	385.47	360.80	2560.44	2392.02		
		IB TPS U#4(660 MW)	660.00	660.00	245.79	230.06	3059.21	2857.79		
OHPC	Hydro	Hirakud-I (Burla)	275.50	275.50	24.57	24.45	639.49	637.36		
		Hirakud-II (Chiplima)	72.00	72.00	18.48	18.39	225.28	224.38		
		Balimela (6x60+2x75)	510.00	510.00	64.26	63.66	905.50	898.14		
		Rengali (5x50)	250.00	250.00	24.12	24.02	771.98	770.74		
		Upper Kolab (4x80)	320.00	320.00	43.65	43.12	331.58	329.11		
		Indravati HPS (4x150)	600.00	600.00	33.84	33.00	1073.32	1051.03		
		Mckd.(Odisha drawal)	57.38	57.38	19.07	19.07	239.16	239.16		
		Total Hydro	2084.88	2084.88	227.98	225.69	4186.32	4149.91		
		RES	539.57	539.57	59.88	59.88	563.82	563.82		
		Total Odisha	4364.45	4364.45	1178.97	1107.70	12812.35	12154.27		
(**) SIKKIM	Hydro	RES	52.18	52.18	1.00	1.00	15.00	15.00		
NTPC		MTPS Stg-II	390.00	390.00	237.6321	214.75	2069.88	1857.37		
		FSTPP# I&II ( 3x200+2x500)	1600.00	1600.00	903.35	833.72	7349.15	6724.92		
		FSTPP (U# 6)	500.00	500.00	301.71	278.64	2666.57	2457.46		
		KhSTPP (4x210+3x500)	2340.00	2340.00	1433.20	1336.41	13510.39	12553.00		
		TSTPP (2x500)	1000.00	1000.00	466.09	428.78	5871.85	5412.76		
		BARH STPS II (2X660)	1320.00	1320.00	758.25	716.26	5870.32	5499.43		
		BARH STPS I (1X660)	660.00	660.00	363.57	338.06	1279.50	1139.04		
		BRBCL # 1,2,3,4(4X250 MW)	1000	1000	607.66	561.88	4469.73	4111.27		
		BRBCL # 4 infirm			0.00	0.00	47.56	41.71		
		NSTPS U# I&2	1320.00	1320.00	710.86	674.42	6122.84	5780.33		
		NSTPS infirm			23.81	22.62	226.36	198.34		
		DSTPP #1&2	1600.00	1600.00	927.06	866.51	6984.45	6542.78		
		DSTPP #2 infirm	0.00	0.00	0.00	0.00	290.27	233.37		
		Total NTPC	11730.00	11730.00	6733.19	6272.07	56758.88	52551.77		
		NHPC	HYDRO	Rangit (3x20)	60.00	60.00	15.13	15.13	305.72	305.72
				Teesta (3x170)	510.00	510.00	59.19	59.19	2449.70	2449.70
TLDP( 4x33+4x40) for WBSIEDCL	292.00			292.00	28.91	28.91	1248.12	1248.12		
Total NHPC	862.00			862.00	103.23	103.23	4003.54	4003.54		
MPL (U#1&2)	1050.00			1050.00	622.66	586.84	6568.59	6191.89		
APNRL (U#1,2)	540.00			540.00	351.28	323.55	3019.36	2756.43		
GMR (2x350)	700.00			700.00	408.53	381.67	4110.29	3830.49		
JITPL (2X600)	1200.00			1200.00	706.52	662.65	6985.75	6542.82		
CHUZACHEN** (2x55)	110.00			110.00	10.84	10.84	488.34	488.34		
JORETHANG (2x48)	96.00			96.00	13.47	13.47	417.77	417.77		
TEESTA URJA St III (6x200)	1200.00			1200.00	175.52	175.52	5851.67	5851.67		
Tashilding (2x48.5)	97.00			97.00	15.44	15.44	427.64	427.64		
DICKCHU (2x48)	96.00			96.00	8.77	8.77	461.78	461.78		
RONGNICHU HEP (2x56.5)					5.64	5.64	301.63	301.63		
TALCHER SOLAR	10.00			10.00	1.02	1.02	10.40	10.40		
Total Thermal (E.R)	32135.00			32080.00	17363.14	16102.27	157608.89	145625.22		
Total Hydro (E.R)	5989.58			5989.58	699.35	696.93	18328.48	18290.34		
Total RES	1517.83			1517.83	113.84	113.84	980.56	980.56		
EASTERN REGIONAL				<b>TOTAL (E.R)</b>	39642.41	39587.41	18176.33	16913.03	176917.93	164896.13
BHUTAN	Hydro	CHPC(4x90)	360.00	270.00	0.00	0.00	1697.77	1697.77		
		Kurichu (4x15)	60.00	60.00	0.00	0.00	116.86	116.86		
		TALA (6x170)	1020.00	1020.00	0.00	0.00	2727.96	2727.96		
		DAGACHU (2x63)	126.00	126.00	19.41	19.41	463.77	463.77		
		MANGDECHU(4x180 )	720.00	720.00	22.80	22.80	2763.18	2763.18		
		<b>Grand Total</b>	41928.41	41783.41	18218.54	16955.24	184687.47	172665.67		

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

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	0.00	0.00	58.49	3.79
	Thermal	Barauni (U# 8)	250.00	250.00	137.70	74.03	1439.03	78.38
		Barauni (U# 9)	250.00	250.00	135.95	0.00	437.91	0.00
	(Dedicated for Bihar)	Muzaffarpur Stg-I	220.00	220.00	0.00	0.00	247.19	15.30
		Thermal Total	940.00	930.00	273.65	39.55	2182.62	38.54
	RES		354.91	354.91	42.57		247.56	
Total BIHAR			1294.91	1284.91	316.22		2430.18	
<b>JHARKHAND</b>								
TVNL	Thermal	TVNL	420.00	420.00	205.17	65.66	1314.53	42.62
JSEB	Hydro	Subarnrekha (U#1,2)	130.00	130.00	2.21		285.25	
	RES		60.41	60.41	0.00		0.00	
	Total		190.41	190.41	2.21		285.25	
DVC	Thermal	Bokaro-B(3)	0.00	0.00	0.00	0.00	0.00	0.00
		Chandrapura( U7 # 8)	500.00	500.00	346.01	93.01	3156.24	85.95
		Durgapur(4)	210.00	210.00	0.00	34.56	119.15	7.73
		Mezia(1,2,3,4,5,6)	1340.00	1340.00	705.07	70.72	6622.27	67.29
		Mejia( U # 7,8)	1000.00	1000.00	582.19	78.25	5499.38	74.88
		Bokaro-A(1)	500.00	500.00	190.63	51.25	2348.51	63.96
		Durgapur STPS (U#1,2)	1000.00	1000.00	554.55	74.54	4952.82	67.44
		Raghunathpur TPS (U#1,2)	1200.00	1200.00	568.17	63.64	5031.74	57.10
	Koderma STPS (U#1,2)	1000.00	1000.00	624.50	83.94	5612.68	76.43	
	Total Thermal		6750.00	6750.00	3625.12	72.18	33342.80	67.26
Hydro	Maithon (U#1,2,3)	63.20	63.20	7.28		203.97		
	Panchet (U#1,2)	80.00	80.00	9.14		229.26		
	Tilaiya (U#1,2)	4.00	4.00	2.71		20.63		
	Hydro Total	147.20	147.20	19.14		453.85		
Total DVC		6897.20	6897.20	3644.25		33796.65		
<b>WEST BENGAL</b>								
WBPDCL	Thermal	Bandel TPS	380.00	335.00	39.23	15.74	1401.23	56.95
		Santalalh TPS(U#5&6)	500.00	500.00	220.47	59.27	3297.63	89.80
		Kolaghat TPS	1260.00	1260.00	430.29	45.90	3497.92	37.80
		Bakreswar TPP	1050.00	1050.00	778.72	99.68	6820.51	88.45
		Sagardighi TPP	1600.00	1600.00	1190.43	100.00	9630.14	81.96
		DPPS (300+250 *)	550.00	550.00	257.74	62.99	2183.10	54.05
		Thermal Total	5340.00	5295.00	2916.88	74.04	26830.53	69.00
WBSEDCL	Hydro	Jaldhaka (3x9+2x4)	35.00	35.00	0.02		168.05	
		Rammam (4x12.73)	51.00	51.00	12.90		249.61	
		Teesta C.F. (3x3x7.5)	67.50	67.50	0.00		65.66	
		Purulia PSS (4x225)	900.00	900.00	104.20		967.36	
		Total Hydro	1053.50	1053.50	117.12		1450.68	
		RES	500.76	500.76	9.37		143.78	
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, BTSP(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 JAN' 2022

ORGANI- SATION	TYPE	POWER STATION	INSTALLED CAPACITY	EFFECTIVE CAPACITY	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 ( % )
			( in MW )	( in MW )				
CESC	Thermal	Titagarh (4x60)	240.00	240.00	0.00	0.00	0.00	0.00
		Southern (2x67.5)	135.00	135.00	0.00	0.00	138.03	13.92
		Budge-Budge (3x250)	750.00	750.00	425.79	76.31	4652.31	84.46
		<b>Total CESC</b>	1125.00	1125.00	425.79	50.87	4790.34	57.98
HEL	Thermal	HEL	600.00	600.00	203.23	45.53	3642.98	82.67
		<b>Total West Bengal</b>	<b>8619.26</b>	<b>8574.26</b>	<b>3672.40</b>		<b>36858.31</b>	
OPGC	Thermal	IB TPS	420.00	420.00	259.85	83.16	2442.56	79.19
		IB TPS U#3(660 MW)	660.00	660.00	385.47	78.50	2560.44	52.82
		IB TPS U#4(660 MW)	660.00	660.00	245.79	50.06	3059.21	63.11
OHPC	Hydro	Hirakud-I (Burla)	275.50	275.50	24.57		639.49	
		Hirakud-II (Chiplima)	72.00	72.00	18.48		225.28	
		Balimela (6x60+2x75)	510.00	510.00	64.26		905.50	
		Rengali (5x50)	250.00	250.00	24.12		771.98	
		Upper Kolab (4x80)	320.00	320.00	43.65		331.58	
		Indravati HPS (4x150)	600.00	600.00	33.84		1073.32	
		Mckd.(Odisha drawal)	57.38	57.38	19.07		239.16	
		<b>Total Hydro</b>	2084.88	2084.88	227.98		4186.32	
		RES	539.57	539.57	59.88		563.82	
		<b>Total Odisha</b>	4364.45	4364.45	1178.97		12812.35	
(**) SIKKIM	Hydro	RES	52.18	52.18	1.00		15.00	
NTPC		MTPS Stg-II	390.00	390.00	237.6321	81.90	2069.88	72.27
		FSTPP# I&II ( 3x200+2x500)	1600.00	1600.00	903.35	75.89	7349.15	62.54
		FSTPP (U# 6)	500.00	500.00	301.71	81.10	2666.57	72.62
		KhSTPP (4x210+3x500)	2340.00	2340.00	1433.20	82.32	13510.39	78.62
		TSTPP (2x500)	1000.00	1000.00	466.09	62.65	5871.85	79.95
		BARH STPS II (2X660)	1320.00	1320.00	758.25	77.21	5870.32	60.56
		BARH STPS I (1X660)	660.00	660.00	363.57	74.04	1279.50	73.89
		BRBCL # 1,2,3,4(4X250 MW)	1000.00	1000.00	607.66	81.67	4469.73	76.02
		BRBCL # 4 infirm			0.00	0.00	47.56	0.00
		NSTPS U# I&2	1320.00	1320.00	710.86	72.38	6122.84	77.46
		NSTPS infirm					226.36	
		DSTPP #1&2	1600.00	1600.00	927.06	77.88	6984.45	79.25
		DSTPP #2 infirm	0.00	0.00	0.00	0.00	290.27	0.00
		<b>Total NTPC</b>	11730.00	11730.00	6733.19	77.15	56758.88	83.09
		NHPC	HYDRO	Rangit (3x20)	60.00	60.00	15.13	
Teesta (3x170)	510.00			510.00	59.19		2449.70	
TLDP( 4x33+4x40) for WBSEDCL	292.00			292.00	28.91		1248.12	
<b>Total NHPC</b>	862.00			862.00	103.23		4003.54	
Thermal	MPL (U#1&2)			1050.00	1050.00	622.66	79.71	6568.59
	APNRL (U#1,2)		540.00	540.00	351.28	87.44	3019.36	76.14
	GMR (2x350)		700.00	700.00	408.53	78.44	4110.29	79.95
	JITPL (2X600)		1200.00	1200.00	706.52	79.14	6985.75	79.27
	CHUZACHEN** (2x55)		110.00	110.00	10.84		488.34	
	JORETHANG (2x48)		96.00	96.00	13.47		417.77	
	TEESTA URJA St III (6x200)		1200.00	1200.00	175.52		5851.67	
	Tashilding (2x48.5)		97.00	97.00	15.44		427.64	
	DICKCHU (2x48)		96.00	96.00	8.77		461.78	
	RONGNICHU HEP (2x56.5)				5.64		301.63	
TALCHER SOLAR	10.00		10.00	1.02		10.40		
<b>Total Thermal (E.R)</b>	<b>32135.00</b>	<b>32080.00</b>	<b>17363.14</b>	<b>72.65</b>	<b>157608.89</b>	<b>69.77</b>		
EASTERN REGIONAL		<b>Total Hydro (E.R)</b>	5989.58	5989.58	699.35		18328.48	
		<b>Total RES</b>	1517.83	1517.83	113.84		980.56	
		<b>TOTAL (E.R)</b>	<b>39642.41</b>	<b>39587.41</b>	<b>18176.33</b>		<b>176917.93</b>	
BHUTAN	Hydro	CHPC(4x90)	360.00	270.00	0.00		1697.77	
		Kurichu (4x15)	60.00	60.00	0.00		116.86	
		TALA (6x170)	1020.00	1020.00	0.00		2727.96	
		DAGACHU (2x63)	126.00	126.00	19.41		463.77	
		MANGDECHU(4x180 )	720.00	720.00	22.80		2763.18	
<b>Grand Total</b>			<b>41928.41</b>	<b>41783.41</b>	<b>18218.54</b>		<b>184687.47</b>	

CONTRIBUTIONS OF DIFFERENT CONSTITUENTS AT THE TIME OF REGIONAL PEAK  
DURING THE MONTH OF JAN'2022 (20-1-2022)

**Date** 20-Jan-22  
**Time** 19.00 Hrs.  
**Frequency** 49.96 Hz.

(All Fig. in MW)

System/State	Installed	Effective	Hydro	Thermal	RES	Net Gen
	Capacity	Capacity				Total
BSPHCL	1295	1285	0	563	0	563
JUVNL	610	610	0	330	0	330
DVC	6897	6897	40	5063	0	5103
ODISHA	4364	4364	961	871	23	1855
WBSEDCL	6344	6299	694	3516	0	4210
TLDP	292	292	179	0	0	179
HEL HALDIA	600	600	0	276	0	276
CESC	1125	1125	0	699	0	699
DPL	550	550	0	0	0	0
SIKKIM	52	52	0	0	0	0
NTPC	11730	11730	0	9850	0	9850
NHPC	570	570	375	0	0	375
CHUKHA	360	270	-78	0	0	-78
KURICHU	60	60	-2	0	0	-2
TALA	1020	1020	-44	0	0	-44
MPL	1050	1050	0	979	0	979
OPGC (660 MW)	0	0	0	0	0	0
APNRL	540	540	0	490	0	490
Kamalganga (GMR)	700	700	0	661	0	661
JITPL	1200	1200	0	1125	0	1125
RONGNICHU HEP (2x56.5)	113	113	0	0	0	0
Chuzachen	110	110	110	0	0	110
Jorethang	96	96	44	0	0	44
TEESTA URJA St III	1200	1200	990	0	0	990
Tashilding	97	97	44	0	0	44
DICKCHU	96	96	57	0	0	57
<u>Daghachu</u>	126	126	24	0	0	24
<u>Solar</u>	10	10	0	0	0	0
<u>Mangdechu</u>	720	720	125	0	0	125
<b>Total</b>	<b>41928</b>	<b>41783</b>	<b>3519</b>	<b>24425</b>	<b>23</b>	<b>27967</b>
Import From Captive:						1335
Export To:						
NER						-463
SR						1985
WR						618
NR						5131
Bangladesh						733
Nepal						92
<b>Total</b>						<b>8097</b>

➤ **nal Net Peak Demand Met ( MW ) :**

**21204**

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

**Hourly Load Generation Data OF ER On Regional Peak Day During The Month of JAN'2022 (20-1-2022)**

( 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	335	18979	19313	1263	-217	5045	15314	12	0	15326
2	227	18429	18655	1143	-212	4673	14914	14	0	14928
3	166	18234	18401	1187	-212	4744	14632	1	0	14633
4	191	18126	18317	1119	-213	4617	14606	9	0	14615
5	284	18516	18800	1134	-216	4765	14953	5	0	14958
6	264	20944	21208	1273	-226	6733	15523	5	0	15528
7	867	22606	23472	1287	-121	7618	17020	-6	107	17121
8	2164	23730	25894	1273	20	8346	18841	8	296	19146
9	2238	23765	26003	1303	22	7492	19836	2	297	20135
10	1917	23952	25869	1318	25	7510	19702	17	296	20015
11	1338	24095	25433	1350	26	7695	19113	-2	295	19406
12	741	23721	24462	1366	25	7182	18671	-31	0	18671
13	596	23470	24066	1376	-34	6767	18641	-36	1	18641
14	500	23110	23610	1360	-273	7183	17513	-14	0	17513
15	491	23252	23744	1316	-280	7703	17076	55	0	17132
16	449	23457	23906	1304	-287	8091	16832	7	138	16977
17	783	23910	24693	1291	-212	7920	17852	3	0	17855
18	2793	24159	26953	1347	24	8371	19953	7	158	20118
19	3516	24425	27941	1335	26	8097	21204	33	158	21396
20	3146	24233	27379	1315	25	8159	20559	-16	0	20559
21	1649	24238	25887	1305	-123	7623	19446	-9	163	19601
22	759	24239	24999	1284	-252	7551	18479	-11	0	18479
23	430	23125	23555	1337	-222	7871	16799	29	0	16829
24	353	21331	21684	1333	-209	6876	15932	29	0	15961

**Hourly Load Generation Data of ER On Regional Lean Day During The Month of JAN'2022 (10-1-2022)**

( 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	310	17425	17735	796	-159	4528	13844	0	0	13844
2	284	17052	17336	829	-156	4610	13399	2	0	13401
3	302	16916	17218	834	-142	4678	13232	6	0	13238
4	221	16990	17210	849	-145	4841	13073	2	0	13076
5	191	17817	18008	816	-147	5198	13479	-1	0	13479
6	256	19459	19715	847	-91	6217	14255	-4	0	14255
7	721	21415	22136	945	13	7597	15497	-4	156	15649
8	1619	23444	25063	917	25	8657	17348	-12	148	17484
9	2286	23674	25960	921	28	8982	17926	-3	5	17928
10	1632	23607	25239	976	30	8437	17807	-25	3	17811
11	1338	23138	24476	963	28	8117	17350	-52	1	17352
12	774	23247	24021	969	29	7935	17084	-15	0	17084
13	490	23483	23973	933	-25	8100	16781	7	0	16788
14	427	21556	21983	874	-281	6813	15763	-26	0	15763
15	397	20991	21389	852	-280	6885	15075	-7	1	15075
16	395	22275	22671	909	-141	8179	15259	-23	0	15259
17	627	23723	24351	924	25	9140	16160	-1	0	16160
18	2148	24153	26302	929	24	8402	18853	-5	333	19181
19	3327	24508	27835	1014	28	9240	19637	0	200	19837
20	2747	24303	27051	1012	27	8921	19169	2	0	19170
21	1671	23613	25284	980	25	8088	18201	-19	0	18201
22	818	22842	23660	921	-233	7581	16766	3	0	16769
23	393	20547	20940	966	-242	6060	15604	-16	0	15604
24	329	18707	19036	935	-219	4807	14945	-4	0	14945

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

FOR THE MONTH OF JAN'2022

**POWER CUT / RESTRICTIONS**

<b>BSPHCL</b>	NO NOTIFIED CUTS/RESTRICTIONS However there was loadshedding of 25.10 MU
<b>JUVNL</b>	NO NOTIFIED CUTS/RESTRICTIONS However there was loadshedding of 62.07 MU
<b>DVC</b>	NO NOTIFIED CUTS/RESTRICTIONS. However there was loadshedding of 0.00 MU
<b>ODISHA</b>	NO NOTIFIED CUTS/RESTRICTIONS However there was loadshedding of 0.00 MU
<b>WEST BENGAL</b>	NO NOTIFIED CUTS/RESTRICTIONS. However there was loadshedding of 0.97 MU

**POWER SUPPLY TO AGRICULTURAL SECTOR**

<b>STATE</b>	<b>HOURS OF SUPPLY ( AVERAGE / DAY )</b>
<b>BIHAR</b>	18 HRS.00 MINS.
<b>JHARKHAND</b>	ABOUT 20 to 22 HRS.
<b>ODISHA</b>	24 HRS.
<b>WEST BENGAL</b>	23 HRS.



## FREQUENCY DETAILS FOR THE MONTH OF

Jan-22

DATE	H O U R S										INST. FREQ.				15 MIN. INTEGRATED			
	00	05	10	17	22	00	<49.9	49.9	>50.05	49.9	MAX	HRS.	MIN	HRS.	MAX	HRS.	MIN	HRS.
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	HZ		HZ		HZ		HZ	
01-Jan	50.01	49.98	50.02	50.00	50.02	50.00	2.11	76.68	21.21	76.68	50.20	17:01:40	49.78	06:12:20	50.08	0:00	49.91	0:00
02-Jan	49.99	50.02	50.00	50.01	50.03	50.00	1.75	75.25	23.00	75.25	50.21	23:59:10	49.77	10:08:40	50.11	0:00	49.88	0:00
03-Jan	49.98	49.97	49.96	49.96	50.00	49.97	11.02	79.69	9.29	79.69	50.18	00:00:20	49.74	19:20:30	50.06	0:00	49.84	0:00
04-Jan	49.96	49.98	49.97	50.00	50.00	49.98	7.82	76.55	15.63	76.55	50.14	23:59:30	49.75	14:28:40	50.07	0:00	49.83	0:00
05-Jan	49.98	49.99	49.96	50.01	49.98	49.98	5.74	81.96	12.30	81.96	50.17	06:01:10	49.79	16:32:50	50.05	0:00	49.86	0:00
06-Jan	50.01	49.96	49.99	49.97	50.02	49.99	9.90	70.98	19.12	70.98	50.18	22:00:50	49.73	16:36:00	50.09	0:00	49.82	0:00
07-Jan	50.02	49.91	49.96	50.04	50.04	49.99	12.91	62.11	24.98	62.11	50.20	17:02:20	49.71	07:28:50	50.09	0:00	49.76	0:00
08-Jan	50.03	50.02	49.99	50.01	50.00	50.01	2.11	71.41	26.48	71.41	50.18	06:02:40	49.84	12:18:40	50.12	0:00	49.91	0:00
09-Jan	50.02	49.98	50.02	50.01	50.01	50.01	2.38	73.54	24.07	73.54	50.25	07:05:30	49.82	08:37:10	50.14	0:00	49.89	0:00
10-Jan	50.00	50.02	50.03	50.01	50.02	50.01	1.42	69.86	28.72	69.86	50.26	15:05:40	49.85	06:13:40	50.16	0:00	49.95	0:00
11-Jan	49.98	50.01	50.00	49.97	49.99	49.99	5.39	78.60	16.01	78.60	50.25	13:04:30	49.79	14:14:00	50.19	0:00	49.87	0:00
12-Jan	49.99	49.99	50.02	50.00	50.00	50.00	3.31	73.50	23.19	73.50	50.18	07:03:00	49.78	19:33:40	50.10	0:00	49.88	0:00
13-Jan	49.99	49.99	50.01	50.00	49.97	50.00	4.31	74.87	20.82	74.87	50.21	06:02:00	49.79	15:23:20	50.10	0:00	49.88	0:00
14-Jan	49.99	49.95	50.01	49.98	50.01	49.99	9.28	73.25	17.47	73.25	50.24	13:02:40	49.74	09:33:40	50.18	0:00	49.85	0:00
15-Jan	49.99	49.96	50.01	50.03	50.01	50.00	6.79	69.36	23.85	69.36	50.24	17:02:00	49.79	09:09:00	50.12	0:00	49.81	0:00
16-Jan	49.96	49.98	49.98	50.00	50.02	49.98	4.98	81.72	13.30	81.72	50.28	22:00:30	49.75	09:04:20	50.12	0:00	49.85	0:00
17-Jan	50.00	50.00	50.00	49.99	49.94	49.99	6.44	77.04	16.53	77.04	50.21	07:02:40	49.82	19:04:50	50.09	0:00	49.85	0:00
18-Jan	49.99	49.98	50.00	49.97	49.96	49.98	5.75	81.30	12.95	81.30	50.17	17:02:20	49.75	22:08:20	50.08	0:00	49.90	0:00
19-Jan	49.95	49.97	49.99	49.99	49.97	49.98	9.33	75.97	14.70	75.97	50.19	18:02:20	49.77	00:20:50	50.07	0:00	49.81	0:00
20-Jan	49.98	49.99	50.00	50.00	49.95	49.99	3.89	77.91	18.20	77.91	50.23	13:04:00	49.72	14:44:10	50.12	0:00	49.89	0:00
21-Jan	49.96	49.97	50.02	50.00	50.04	49.99	7.50	72.06	20.44	72.06	50.24	13:03:20	49.78	00:33:00	50.12	0:00	49.78	0:00
22-Jan	50.02	49.99	49.96	50.00	49.95	49.99	7.23	75.63	17.14	75.63	50.20	00:03:30	49.72	16:58:10	50.12	0:00	49.85	0:00
23-Jan	49.99	50.01	50.02	50.00	50.00	50.00	1.87	76.91	21.22	76.91	50.20	18:00:40	49.72	21:06:30	50.12	0:00	49.84	0:00
24-Jan	50.01	50.01	50.00	49.96	49.98	49.99	5.03	76.03	18.94	76.03	50.17	07:03:20	49.74	19:07:20	50.06	0:00	49.83	0:00
25-Jan	50.01	50.02	49.98	50.00	49.99	50.00	2.23	78.70	19.06	78.70	50.26	06:02:00	49.74	12:21:20	50.09	0:00	49.81	0:00
26-Jan	49.98	50.00	49.98	49.98	50.01	49.99	7.15	80.28	12.57	80.28	50.19	17:00:50	49.78	19:34:20	50.07	0:00	49.84	0:00
27-Jan	50.00	50.00	50.00	50.02	49.95	50.00	1.62	77.74	20.64	77.74	50.22	06:02:20	49.84	22:09:00	50.09	0:00	49.92	0:00
28-Jan	49.97	49.98	49.98	50.00	49.99	49.99	6.62	77.63	15.75	77.63	50.21	06:02:00	49.78	05:13:10	50.08	0:00	49.84	0:00
29-Jan	49.96	49.98	49.97	49.99	49.95	49.97	15.29	68.76	15.95	68.76	50.19	13:03:10	49.66	16:51:50	50.12	0:00	49.74	0:00
30-Jan	49.99	49.98	50.01	49.99	50.01	50.00	3.58	80.91	15.51	80.91	50.24	18:02:00	49.76	21:05:40	50.12	0:00	49.87	0:00
31-Jan	49.99	50.02	49.99	49.98	49.99	49.99	6.15	79.13	14.72	79.13	50.17	06:02:10	49.75	18:48:30	50.07	0:00	49.82	0:00
MAX	50.03	50.02	50.03	50.04	50.04	50.01	15.29	81.96	28.72	81.96	50.28		49.85	50.19		49.95		
MIN	49.95	49.91	49.96	49.96	49.94	49.97	1.42	62.11	9.29	62.11	50.14		49.65	50.05		49.74		
AVG	49.99	49.99	49.99	50.00	49.99	49.99	5.84	75.66	18.51	75.66	50.21		49.76	50.10		49.85		

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

Maximum Frequency : 50.28 Hz at 22:00 Hrs.

Minimum Frequency : 49.65 Hz at 09:09 Hrs.

**15 Minutes Integrated Frequency :**

Maximum Frequency : 50.19 Hz On 00/01/00 at 00:00 Hrs.

Minimum Frequency : 49.74 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	5.84	75.66	18.51

## VOLTAGE ANALYSIS

## MAXIMUM &amp; MINIMUM VOLTAGES RECORDED AT IMPORTANT 400 kV S/S IN THE MONTH OF JAN'2022

( All figs. in kV )

PGCIL	BINAGURI		MAITHON		JEERAT		BIHARSHARIFF	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	426	398	414	401	416	393	423	399

PGCIL	MUZAFFARPUR		JAMSHEDPUR		ROURKELA		JEYPORE	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	418	390	428	407	407	395	407	407

## 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
<b>TOTAL</b>	<b>820</b>	<b>830</b>	<b>830</b>	<b>840</b>	<b>3320</b>

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  
Jan-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	
			(31-01-22)	(31-01-21)		
Hirakud	192	180	191.03	189.74	191.37	01.01.22
Balimela	462	439	451.71	454.73	451.53	01.01.22
Rengali	123	109	121.78	118.02	121.78	01.01.22
Upperkolab	858	844	851.33	851.09	852.10	01.01.22
Indravati	642	625	632.01	637.14	632.09	01.01.22
Subernrekha	590	580	586.65	585.46	586.53	01.01.22

B.

**CPP/IPP IMPORT by Eastern Region Constituents during  
Jan-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	43.56
West Bengal	77.39	25.22	0	0	0	0	0	146.96	249.57
ODISHA	0	0	24.25	525.15	3.81	0.00	0	344.44	897.65
DVC	0	0	0	0	0	0	16.45	0	16.45
<b>TOTAL</b>	<b>77.39</b>	<b>25.22</b>	<b>24.25</b>	<b>525.15</b>	<b>3.81</b>	<b>0.00</b>	<b>16.45</b>	<b>491.40</b>	<b>1207.23</b>

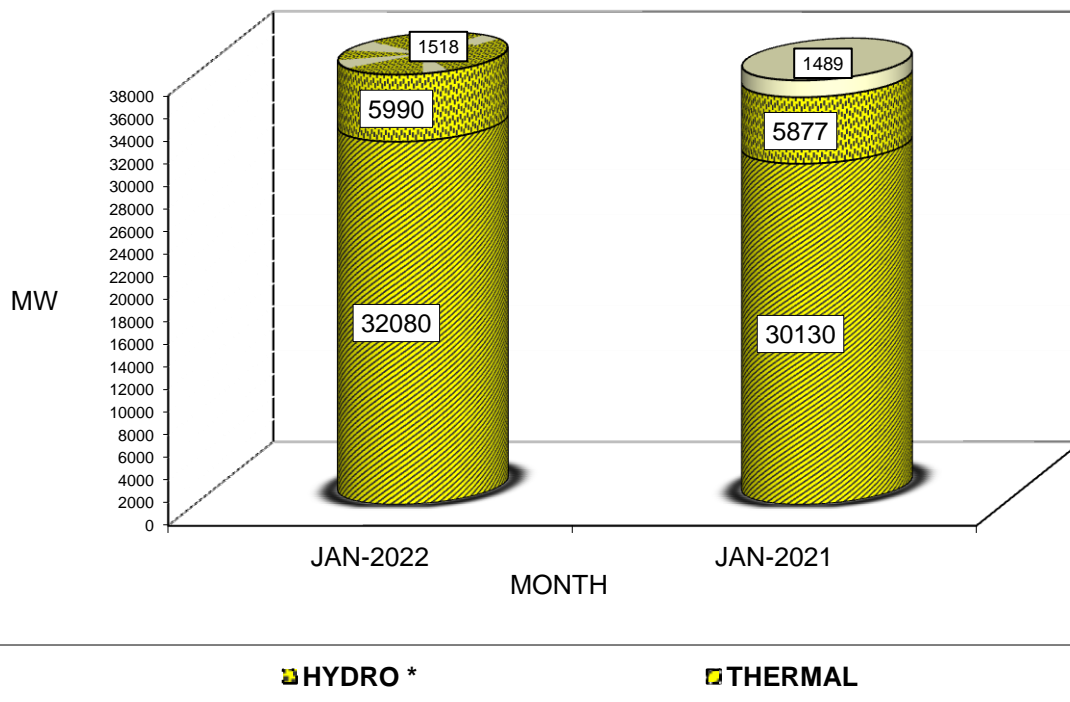
C.

**Distribution of Schedule Supply among Key Customers by IPPs during  
Jan-22**

(All figs. are in MU)

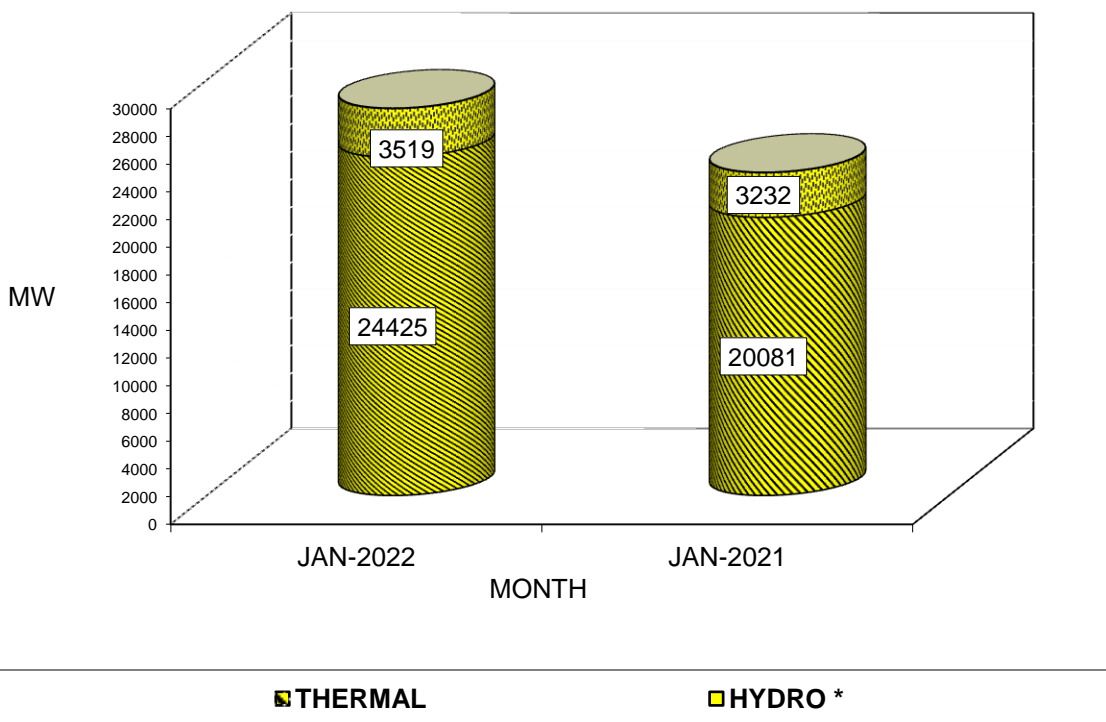
IPP	TPDDL	WBSIEDCL/ WBPDCCL	DVC	Sale at IEX/NPCL	ODISHA	JSEB	CTU/Others	Total (Excl. Tr. Loss)
MPL	169.02	170.21	97.25	0.00	0	0	148.03	584.51
Sterlite	0	0	0	0	0.00	0	0.00	0.00
APNRL	0	0.00	0	0.00	0.00	0.00	0.00	0.00
<b>Total</b>	<b>169.02</b>	<b>170.21</b>	<b>97.25</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>148.03</b>	<b>584.51</b>

**EFFECTIVE CAPACITY OF EASTERN REGIONAL GRID**



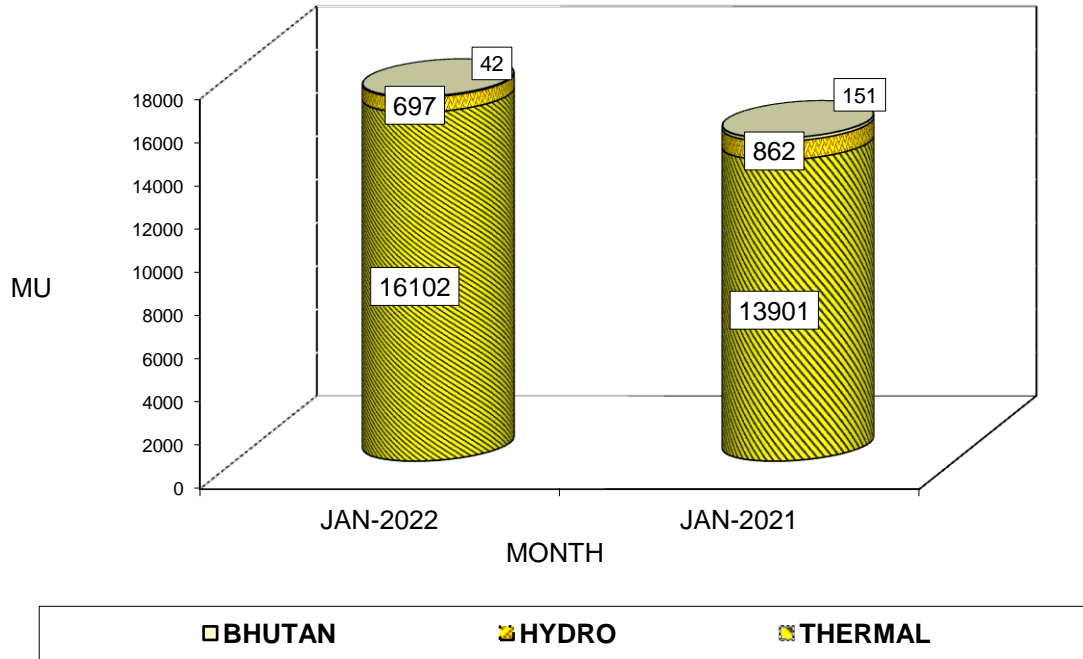
\*Excludes contribution from HEPs of Bhutan

**GENERATION CORRESPONDING TO PEAK DEMAND MET**

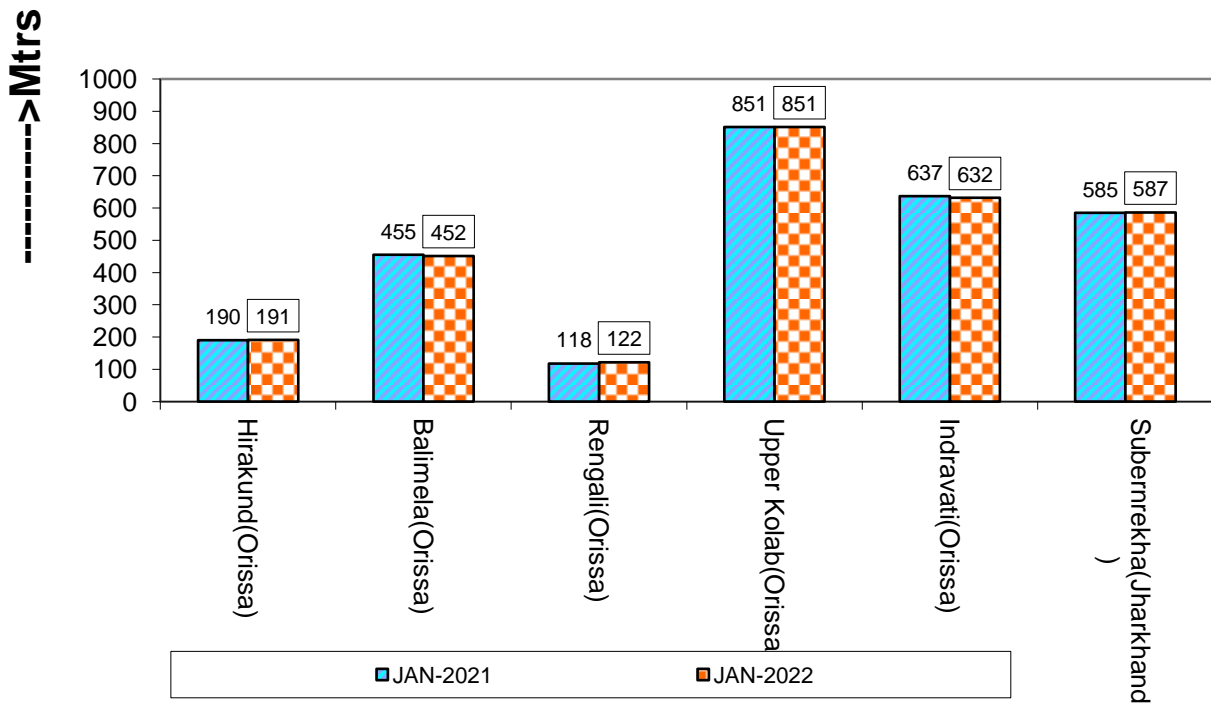


\*Includes contribution from HEP of Bhutan

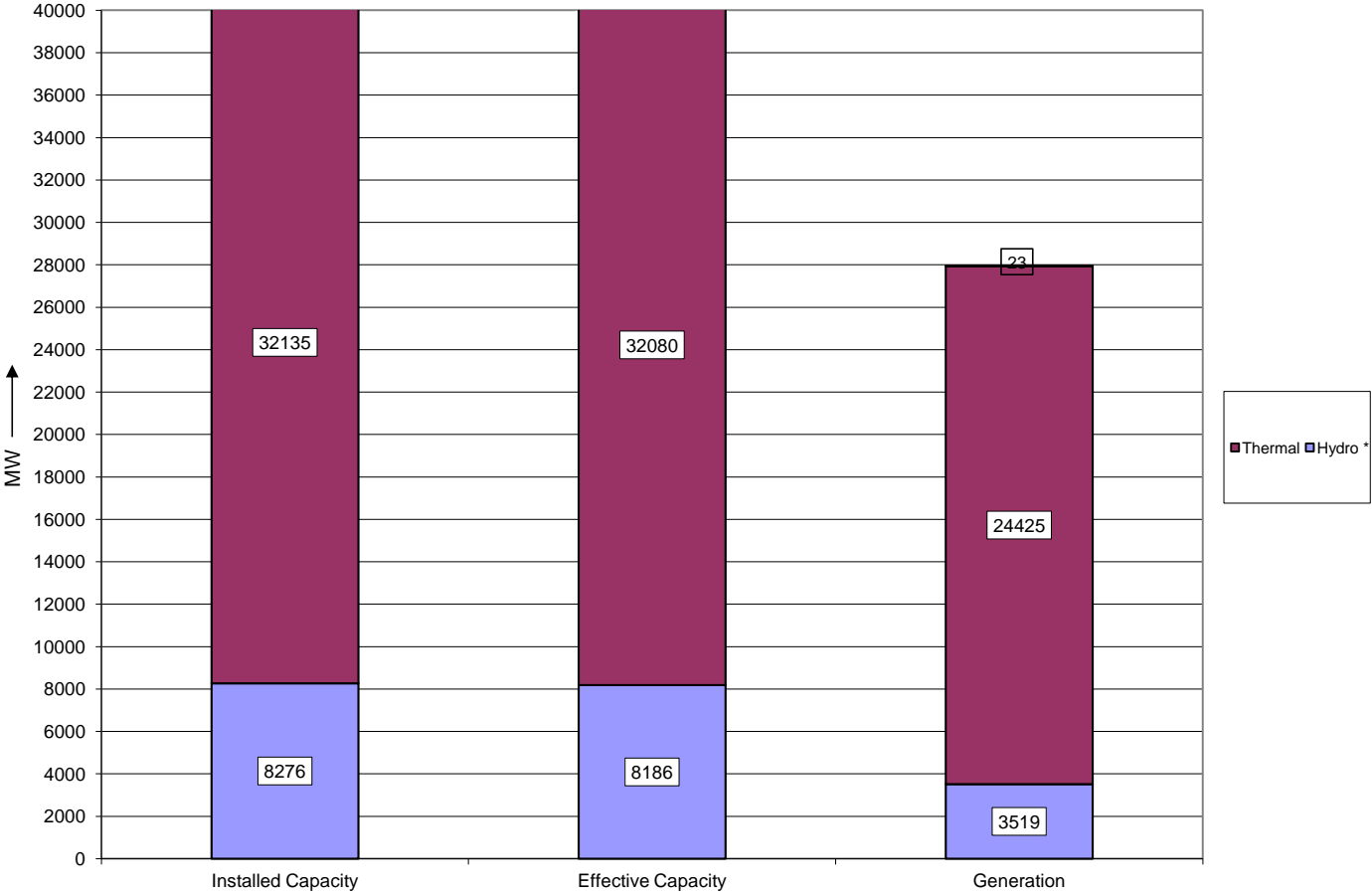
**NET ENERGY GENERATION**



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

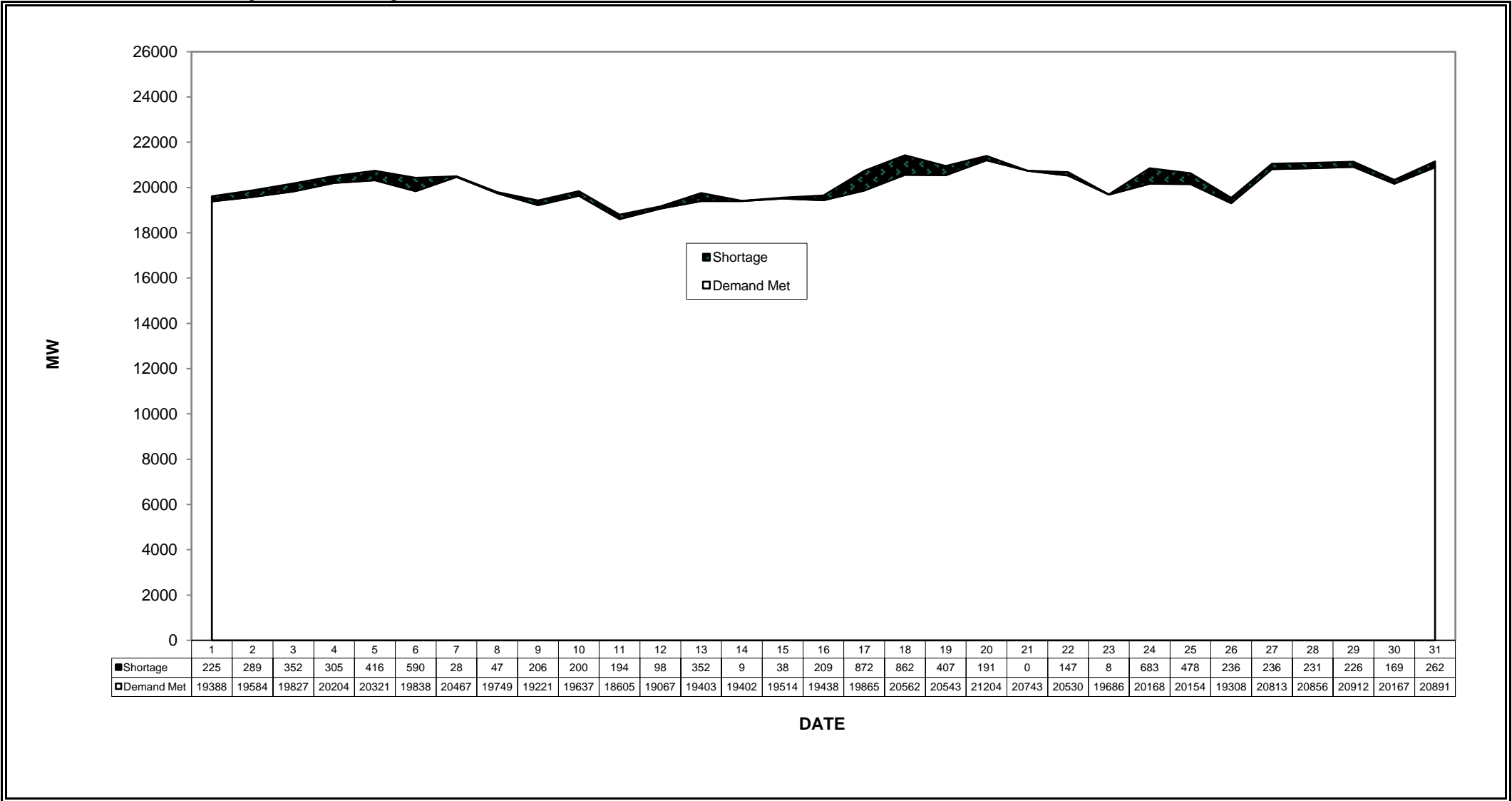


Capacity / Actual Generation Pattern of ER on Peak Day (20-1-2022) at 19.00 hrs.

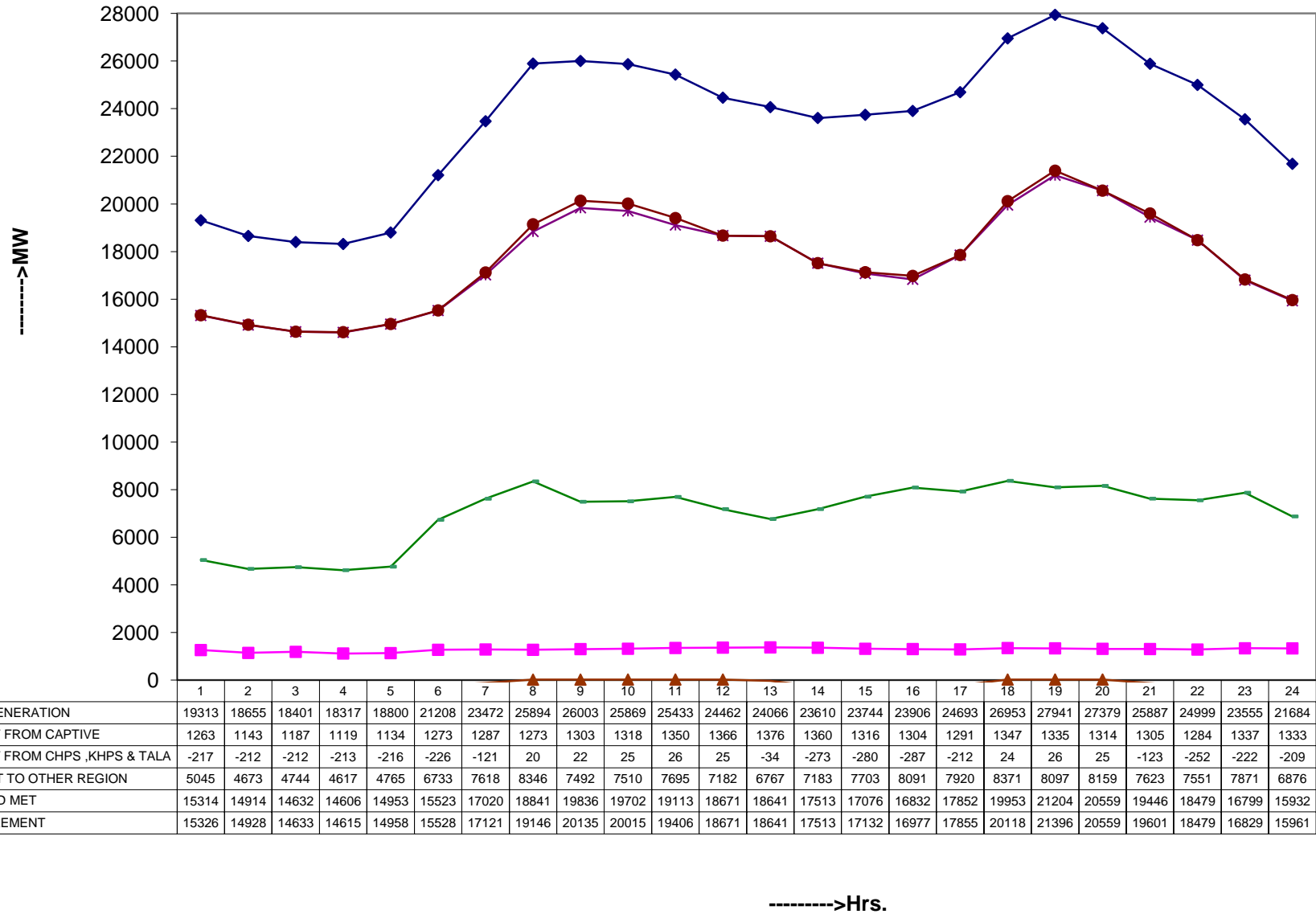


(\*)--Includes contribution from HEP of Bhutan (Chukka, Kurichhu & Tala)

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

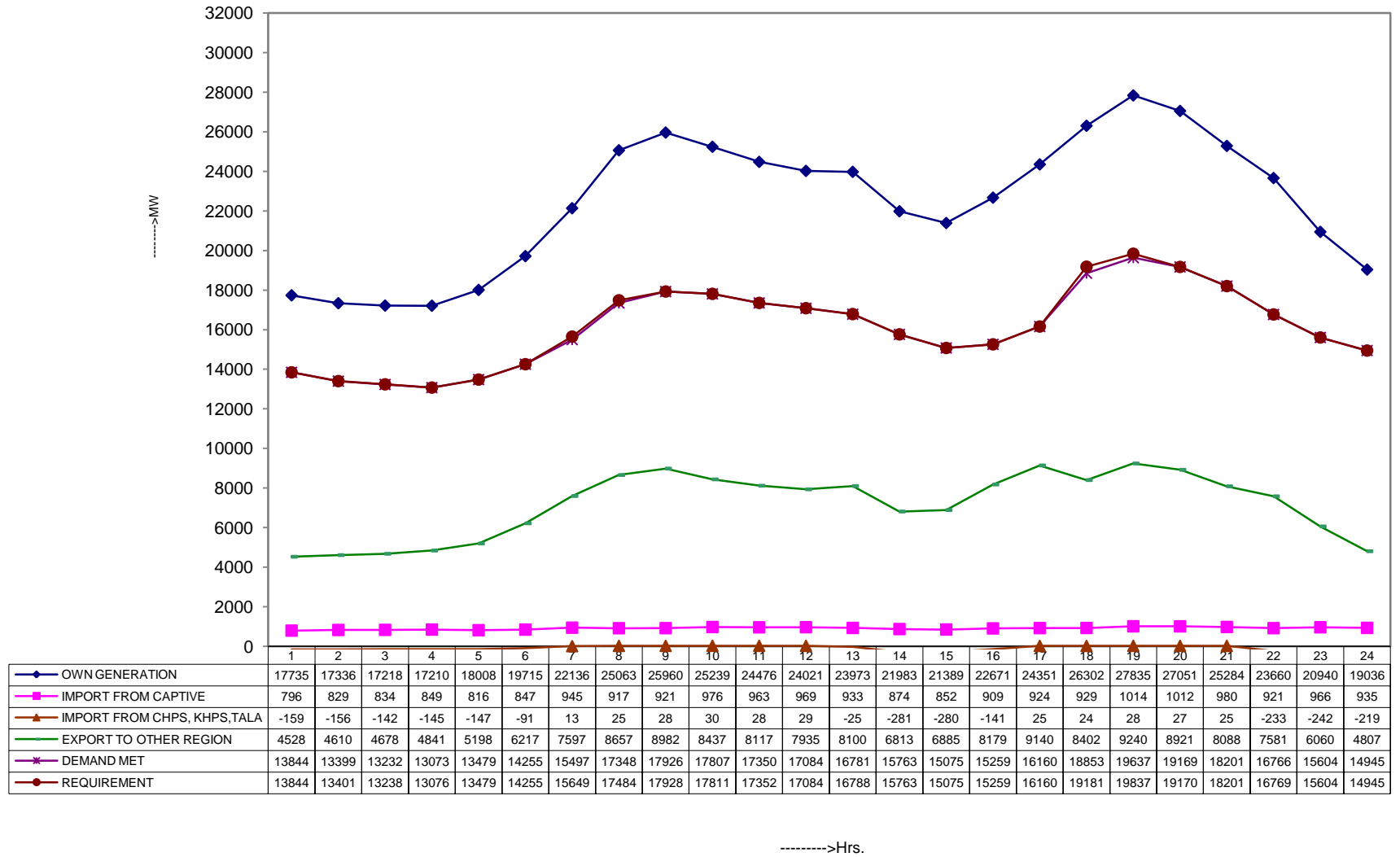


Hourly Load Generation Data OF ER On Regional Peak Day During The Month of JAN'2022 (20-1-2022)



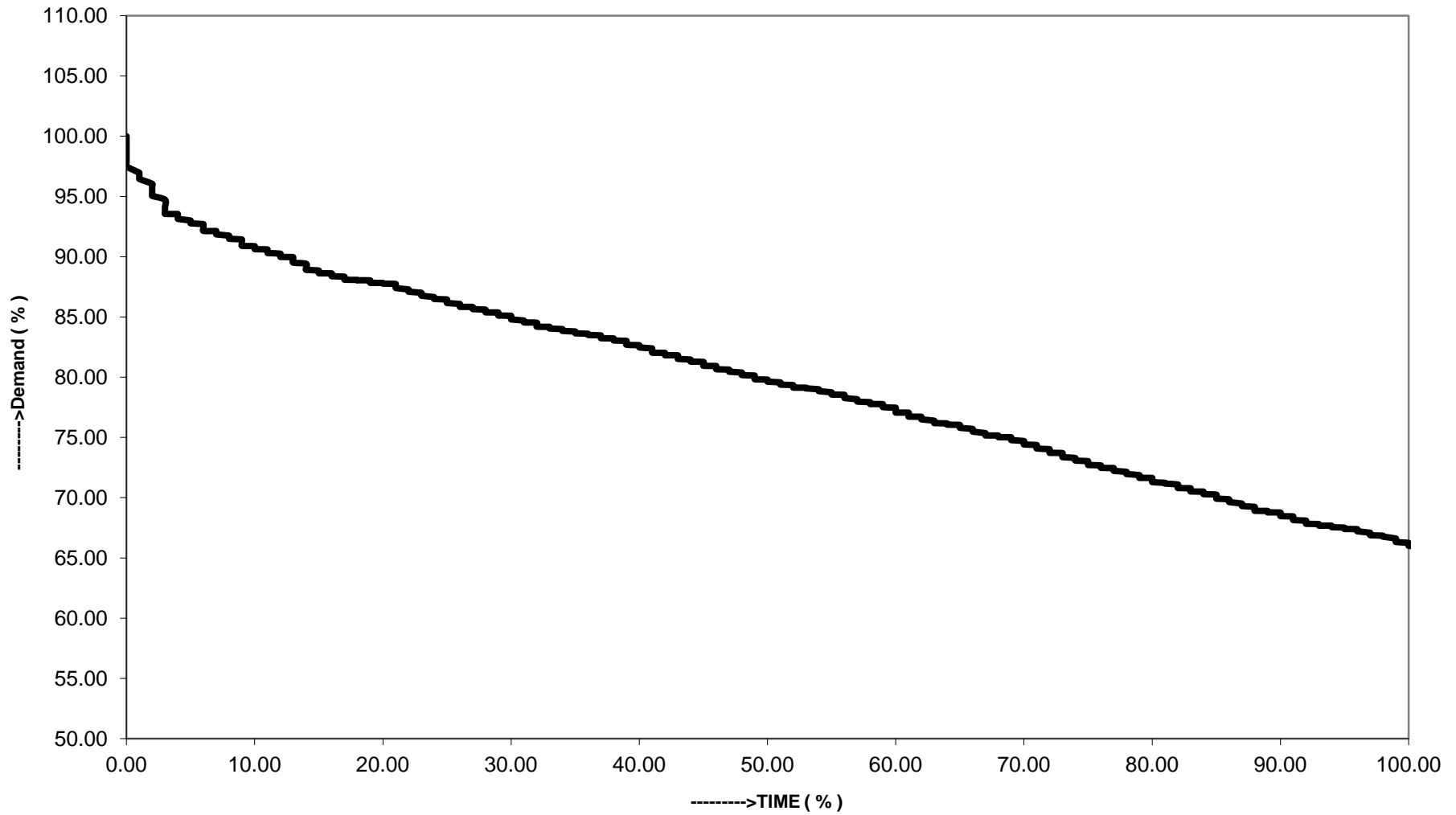


Hourly Load Generation Data of ER On Regional Lean Day During The Month of JAN'2022 (10-1-2022)



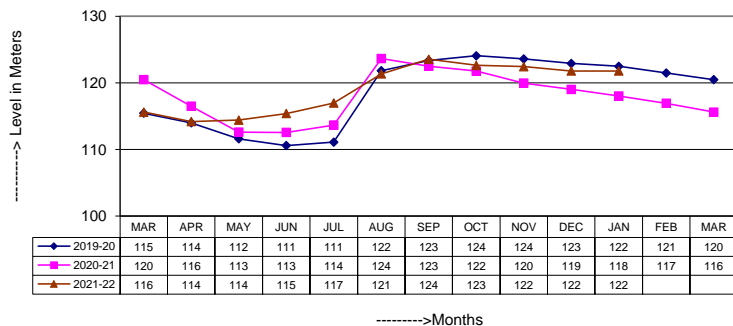
Monthly Load Duration Curve of Eastern Region for JAN-2022

Maximum Demand met : 21204 MW  
Minimum Demand met: 13073 MW

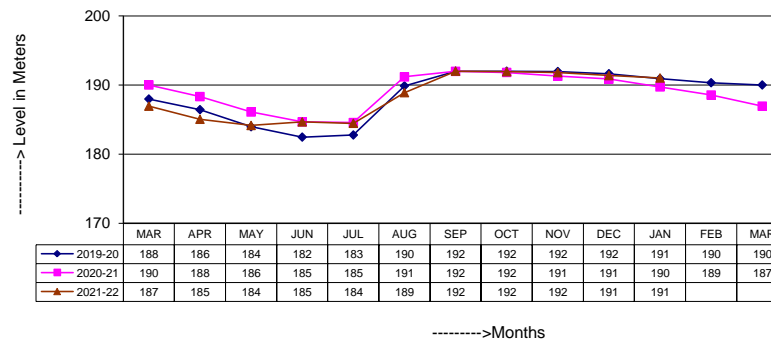


WATER LEVEL IN MAJOR RESERVOIRS ON LAST DATE OF MONTH

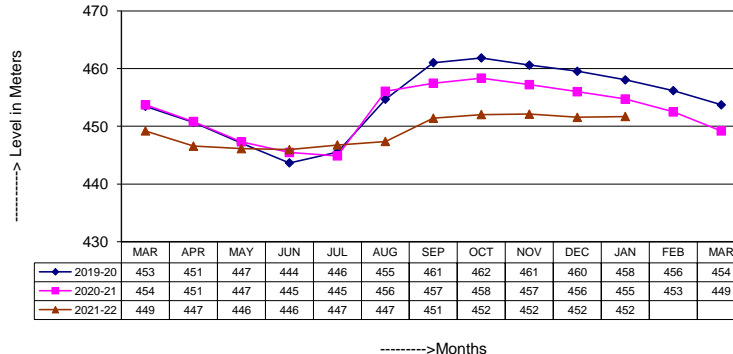
RENGALI RESERVOIR LEVEL



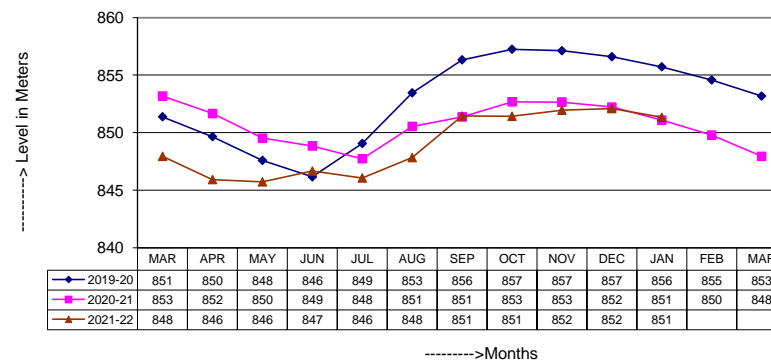
HIRAKUD RESERVOIR LEVEL



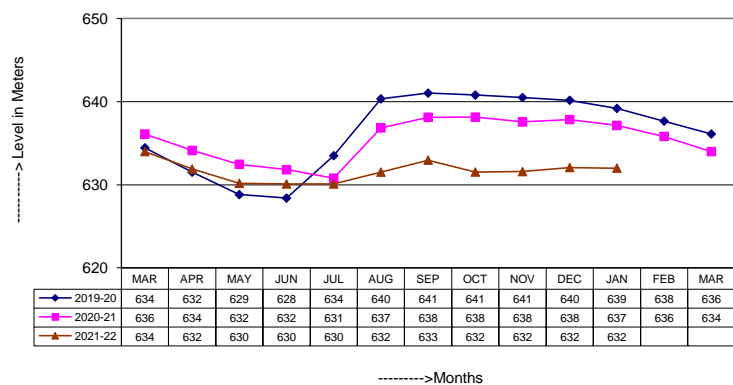
BALIMELA RESERVOIR LEVEL



UPPER KOLAB RESERVOIR LEVEL



INDRAVATI RESERVOIR LEVEL



SUBERNREKHA RESERVOIR LEVEL

