



सत्यमेव जयते

Government of India

विद्युत मंत्रालय

Ministry of Power

पूर्वी क्षेत्रीय विद्युत समिति

EASTERN REGIONAL POWER COMMITTEE

मासिक प्रगति रिपोर्ट

PROGRESS REPORT FOR THE MONTH OF

जनवरी- 2019

January-2019



14, गोल्फ क्लब रोड, टोलीगंज

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Highlights of Eastern Regional Power System for January-2019

- The **Maximum Net Demand** met of **Eastern Region (ER)** during the month of **Jan, 2019** was **18702 MW** which is 2.55% more than the **Jan, 2018** (18238 MW). Individual **Peak Demand (MW)** of most of constituents **increased** compared to the corresponding period of last year.
- The **Average Net Energy Consumption** per day in ER for the month of **Jan, 2019** was **355.14 MU** excluding export, which is 0.34% more than the corresponding period of last year (353.94 MU).
- The **Average regional PLF of thermal units during the month** is **65.36%**, which is 3.11% more than the corresponding period of the last year (**62.25%**).
- NTPC (BARH STPS) registered the highest **PLF** of 93.87%, followed by CESC (Budge-Budge) 90.44% Odisha (IBTPS) 89.08 %, and NTPC (FSTPP# I-II) 88.16% during the month of Jan, **2019**.
- **Maximum Net generation** of ER was **21496 MW** against total **Effective Capacity of 35328.43 MW** (including import from Bhutan). At the time of Regional peak (18702 MW on 29.01.2019 at 19.00 hrs.) the generation was 20564 MW and import from CPP was 1452 MW, Net export was 3314 MW.
- The system frequency in the IEGC recommended band (49.9 Hz to 50.05 Hz) remained for 70.21% of time during the month. **Average frequency** for the month was **49.98 Hz**. The instantaneous maximum and the minimum frequency touched were 50.28 Hz and 49.58 Hz respectively. The integrated (Fifteen minutes time block average) maximum and minimum frequency were **50.17Hz** and **49.71 Hz** respectively (**refer Annexure-I**).
- The **Maximum Voltage** recorded **423 KV** at Rourkela 400 KV S/s whereas the minimum voltage recorded 383 KV at Jeypore 400 KV S/s of Power grid.
- The **Maximum Export from ER to outside region** was **7044 MW (including Nepal and Bangladesh)** on **23rd Jan, 2019** at 10:00 hrs. Total net energy export during the month was 2797.16 MU which is corresponds to 21.45 % of ex-bus total generation 13043.57 MU) of Eastern Region.
- The import from CPPs was 762.96 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	4385	0	2013.74
WR	271	2595	-783.92
SR	3005	0	1376.36
NER	139	867	-363.93
BANGLADESH	712	0	367.22
NEPAL (via-CTU)	278	0	186.68
Total(Net)	6374		2797.16
NEPAL by Bihar(NBPDCL)			146.02

SALIENT FEATURES

(YEAR TO YEAR COMPARISON)

		Jan-19	Jan-2018	CHANGE	% CHANGE
1)	Effective Capacity (end of the Month)				
	THERMAL (MW)	27090	27810	-720	-2.59
	HYDRO (MW)	5876	\$ 5947	-71	-1
	DIESEL (MW)	0	7	-7	0
	RES (MW)	886	10	0	0
	TOTAL (MW)	33852	33774	78	0.23
2)	Peak Demand (MW)	18783	18539	244	1.32
3)	Peak Demand Met (MW)	18702	18238	464	2.55
4)	Shortage (MW)	81	301	-220	-73.07
5)	% Shortage	0.43	1.63	-1.19	-73.42
6)	Average Energy Requirement Per Day (MU)	357.42	356.68	0.75	0.21
7)	Average Energy Availability Per Day (MU)	355.14	353.94	1.20	0.34
8)	Average Shortage Per Day (MU)	2.29	1.32	0.97	73.76
9)	% Shortage	0.64	0.37	0.27	72.70
10)	Net Generation for the Month				
	Thermal (MU)	12203.65	11873.78	329.87	2.78
	Hydro (MU)	769.94	* 717.22	52.71	7.35
	RES (MU)	69.95	0.00	0.00	-
	Total (MU)	13043.54	12614.87	428.67	3.40
11)	Generation at the Time of Max. Regional Demand Met (29-01-19 at 19.00 Hrs.)				
	Thermal (MW)	17245	17025	219	1.29
	Hydro (MW)	3305	* 2759	546	19.77
	RES(MW)	14	0	14	-
	Total (MW)	20564	19785	779	3.94
12)	Inter-Regional Energy Transfer				
	Export (MU)	3945.01	2991.38	953.63	31.88
	Import (MU)	1147.84	437.66	710.18	162.27
	Net Exp.(+)/Net Imp.(-) (MU)	2797.16	2553.72	243.44	9.53
13)	Import From Captive(MU)	762.96	536.54	226.42	42.20
14)	Peak Inter Regional Power Transfer				
	Max Export (MW) on 23-01-19 at 10.00Hrs	7044	5780	1263	21.85
	Max Import (MW) on 27-01-19 at 22.00Hrs	2928	2362	567	23.99
	Max Net Export(+)/Import (-) (MW)	6374	6064	310	5.11
15)	Maximum voltage recorded	423	ROURKELA	400 kv	s/s
16)	Minimum voltage recorded	383	JEYPORE	400 kv	s/s

\$ Excludes 1566 MW contribution from HEPs of Bhutan

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

Due to de-commissioning of Units

POWER SUPPLY POSITION FOR THE MONTH OF JANUARY'2019

A) Net Average Energy Per Day

System	Demand Met (MU/Day)	Requirement (MU/Day)	Shortage (MU/Day)	% Shortage
BSPHCL	75.69	75.92	0.22	0.29
JUVNL	24.16	26.08	1.92	7.37
DVC	63.40	63.65	0.25	0.39
ODISHA	72.87	72.92	0.05	0.06
WBSIEDCL	95.37	95.60	0.24	0.25
CESC	21.52	21.53	0.01	0.06
SIKKIM	1.72	1.72	0.00	0.06
REGION	355.14	357.42	2.29	0.64

B) Peak Demand in MW:

System	Demand Met (MW)	Requirement (MW)	Shortage (MW)	% Shortage
BSPHCL	4249	4251	2	0.05
JUVNL	1260	1260	0	0.00
DVC	2871	2873	2	0.06
ODISHA	4198	4198	0	0.00
WBSIEDCL	5259	5273	13	0.26
CESC	1292	1295	3	0.2
SIKKIM	106	106	0	0.00
REGION	18702	18783	81	0.43

➤ **DIVERSITY FACTOR** **1.03**

➤ **Regional Peak Demand Met on 29-1-2019 at 19.00 hrs. at 49.89 Hz.**

CONSTITUENT-WISE PERFORMANCE DATA JANUARY-19

SYSTEM	Gross Generation(MU)				Auxiliary power Consumption(MU)				Net Generation (MU)				Import from	Exchange	Energy	Per Day	Net Peak	Gross Peak
	HYDRO	Thermal	RES (Hy+Solar)	Total	HYDRO	Thermal	Solar	Total	HYDRO	Thermal	Solar	Total	Captive (MU)	Net Import(+)	Consumption(MU)	Cons.(MU)	Demand	Demand
														Net Export(-)			Met (MW)	Met (MW)
BSPHCL	0.00	113.70	49.38	163.08	0.00	12.48	0.00	12.48	0.00	101.22	49.38	150.61	0.00	2195.91	2346.52	75.7	4249	4259
JUVNL	0.00	122.32	0.00	122.32	0.00	15.83	0.00	15.83	0.00	106.49	0.00	106.49	40.58	601.92	748.99	24.2	1260	1288
DVC	5.08	3364.23	0.00	3369.31	0.07	219.98	0.00	220.05	5.01	3144.25	0.00	3149.26	10.92	-1194.65	1965.53	63.4	2871	3177
ODISHA(OPGC+OHPC+TTPS)	322.32	567.57	17.87	907.76	2.84	61.99	0.00	64.82	319.48	505.59	17.87	842.93	584.87	831.33	2259.13	72.9	4198	4286
WBPDC+WBSEDCL+DPL	143.83	1982.86	0.48	2127.16	0.00	185.02	0.00	185.02	143.83	1797.85	0.48	1942.15	126.59	887.66	2956.40	95.4	5259	5583
CESC	0.00	518.15	0.00	518.15	0.00	38.56	0.00	38.56	0.00	479.60	0.00	479.60	0.00	187.38	666.98	21.5	1292	1355
HEL	0.00	295.61	0.00	295.61	0.00	22.49	0.00	22.49	0.00	273.12	0.00	273.12	0.00	-273.12				
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	52.33	53.33	1.7	106	106
NTPC	0.00	4772.14	0.00	4772.14	0.00	324.50	0.00	324.50	0.00	4447.64	0.00	4447.64	0.00	-4447.64				
MPL	0.00	584.55	0.00	584.55	0.00	33.61	0.00	33.61	0.00	550.94	0.00	550.94	0.00	-550.94				
APNRL	0.00	139.09	0.00	139.09	0.00	12.22	0.00	12.22	0.00	126.87	0.00	126.87	0.00	-126.87				
GMR	0.00	331.89	0.00	331.89	0.00	19.08	0.00	19.08	0.00	312.81	0.00	312.81	0.00	-312.81				
JITPL	0.00	380.31	0.00	380.31	0.00	23.02	0.00	23.02	0.00	357.29	0.00	357.29	0.00	-357.29				
NHPC (Inc TLDP= 31.06 MU)	123.93	0.00	0.00	123.93	0.00	0.00	0.00	0.00	123.93	0.00	0.00	123.93	0.00	-123.93	0.00			
CHPC(Birpara Receipt)	1.41	0.00	0.00	1.41	0.00	0.00	0.00	0.00	1.41	0.00	0.00	1.41	0.00	-1.41	0.00			
KHPS	-15.28	0.00	0.00	-15.28	0.00	0.00	0.00	0.00	-15.28	0.00	0.00	-15.28	0.00	15.28	0.00			
THPS	0.79	0.00	0.00	0.79	0.00	0.00	0.00	0.00	0.79	0.00	0.00	0.79	0.00	-0.79	0.00			
DAGACHU HPS	12.38	0.00	0.00	12.38	0.00	0.00	0.00	0.00	12.38	0.00	0.00	12.38	0.00	-12.38	0.00			
CHUZACHEN HPS	7.36	0.00	0.00	7.36	0.00	0.00	0.00	0.00	7.36	0.00	0.00	7.36	0.00	-7.36	0.00			
JORHANG HPS	10.43	0.00	0.00	10.43	0.00	0.00	0.00	0.00	10.43	0.00	0.00	10.43	0.00	-10.43	0.00			
TEESTA-III HPS	141.08	0.00	0.00	141.08	0.00	0.00	0.00	0.00	141.08	0.00	0.00	141.08	0.00	-141.08	0.00			
DIKCHU HPS	7.21	0.00	0.00	7.21	0.00	0.00	0.00	0.00	7.21	0.00	0.00	7.21	0.00	-7.21	0.00			
TASHIDING HPS	12.35	0.00	0.00	12.35	0.00	0.00	0.00	0.00	12.35	0.00	0.00	12.35	0.00	-12.35	0.00			
TALCHER SOLAR	0.00	0.00	1.21	1.21	0.00	0.00	0.00	0.00	0.00	0.00	1.21	1.21	0.00	-1.21				
Total Drawal by HVDC Sahsaram,Alipurduar,BRBCL,Indbharat and OPGC														12.48	12.48			
Total	772.88	13172.43	69.94	14015.25	2.91	968.77	0.00	971.69	769.97	12203.65	69.94	13043.57	762.96	-2797.16	11009.36	355.14	18702	19579

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

A) Net Average Energy

Month	2017-18					2018-19				
	Demand Met	Requirement	Shortage	Shortage	Avg. Freq.	Demand Met	Requirement	Shortage	Shortage	Avg. Freq.
	(MU/Day)	(MU/Day)	(MU/Day)	(%)	(HZ)	(MU/Day)	(MU/Day)	(MU/Day)	(%)	(HZ)
APRIL	394.05	397.91	3.86	0.97	49.98	393.59	396.98	3.39	0.85	49.96
MAY	389.99	394.80	4.81	1.22	49.98	420.52	425.36	4.84	1.14	49.94
JUNE	398.64	401.43	2.79	0.70	49.99	437.39	441.13	3.74	0.85	49.97
JULY	381.05	383.05	2.00	0.52	49.98	425.68	427.31	1.63	0.38	49.97
AUGUST	394.80	396.81	2.01	0.51	49.98	446.36	449.17	2.81	0.63	49.97
SEPTEMBER	418.67	420.99	2.32	0.55	49.97	440.53	448.47	7.94	1.77	49.96
OCTOBER	390.86	393.65	2.79	0.71	49.96	419.33	423.20	3.87	0.91	49.96
NOVEMBER	332.17	336.69	4.53	1.34	49.96	368.99	371.76	2.77	0.75	49.97
DECEMBER	329.55	331.98	2.43	0.73	49.98	340.51	342.17	1.66	0.49	49.96
JANUARY	353.94	356.68	2.74	0.77	49.98	355.14	357.42	2.29	0.64	49.98
FEBRUARY	361.36	364.11	2.75	0.76	49.98	-	-	-	-	-
MARCH	393.97	396.42	2.45	0.62	49.97	-	-	-	-	-

B) Peak in MW:

Month	2017-18					2018-19				
	Demand Met	Requirement	Shortage	Shortage	Avg. Freq.	Demand Met	Requirement	Shortage	Shortage	Avg. Freq.
	(MW)	(MW)	(MW)	(%)	(HZ)	(MW)	(MW)	(MW)	(%)	(HZ)
APRIL	19164	19387	224	1.15	49.98	21058	21128	70	0.33	49.96
MAY	19509	19664	155	0.79	49.98	21902	22012	111	0.50	49.94
JUNE	18994	19047	53	0.28	49.99	22080	22964	884	3.85	49.97
JULY	19110	19200	91	0.47	49.98	21790	21849	59	0.27	49.97
AUGUST	19221	19514	293	1.50	49.98	22580	22794	215	0.94	49.97
SEPTEMBER	20283	20670	387	1.87	49.97	22286	22815	529	2.32	49.96
OCTOBER	19882	19966	84	0.42	49.96	22733	23093	360	1.56	49.96
NOVEMBER	18377	18866	489	2.66	49.96	20322	20512	190	0.93	49.97
DECEMBER	17837	18195	358	2.01	49.98	18023	18049	25	0.14	49.96
JANUARY	18238	18508	270	1.48	49.98	18702	18783	81	0.43	49.98
FEBRUARY	18918	19196	278	1.47	49.98	-	-	-	-	-
MARCH	20567	20951	384	1.87	49.97	-	-	-	-	-

	FROM	Cumulative from 01-Apr-18 to 31/Jan/19		BILATERAL [EXPORT(-) / IMPORT(+)] (EX-SELLER BUS)	NET DRAWAL SCHEDULE (AFTER LOSS)	ACTUAL DRAWAL FROM GRID	During January -19				
		ENTITLEMENT (EX-BUS)	DRAWAL SCHEDULE (EX-BUS)				ENTITLEMENT (EX-BUS)	DRAWAL SCHEDULE (EX-BUS)	BILATERAL [EXPORT(-) / IMPORT(+)] (EX-SELLER BUS)	NET DRAWAL SCHEDULE (AFTER LOSS)	ACTUAL DRAWAL FROM GRID
BSPHCL	FARAKKA STPS I	2948.26	2802.09				333.52	287.04			
	FARAKKA STPS III	822.04	735.25				88.83	71.01			
	KAHALGAON STPS I	2145.86	1909.72				229.61	208.28			
	KAHALGAON STPS II	452.15	475.55				51.83	52.32			
	TALCHER STPS I	2187.09	2177.21				156.83	155.86			
	MTPS-II	1540.96	1420.66				179.42	147.38			
	BRBCL	199.93	195.54				33.64	33.51			
	Riy BRBCL	202.87	185.91				35.21	34.19			
	BARH STPS II	6368.34	6065.62				682.67	673.76			
	RANGIT HEP	108.22	224.98				4.54	4.54			
	CHUKHA HEP	254.16	420.36				0.00	0.00			
	KIRUCHHU HEP	0.00	0.00				0.00	0.00			
	TALA HPS	815.14	647.78				0.00	0.00			
	TEESTA HEP	508.02	508.02				16.45	16.45			
	TOTAL	18553.05	17768.70	7121.06	24730.46	24634.03	1812.53	1684.33	490.25	2154.35	2154.07
JUVNL	FARAKKA STPS I	805.10	739.44				91.05	92.16			
	FARAKKA STPS III	523.39	440.59				56.77	56.76			
	KAHALGAON STPS I	164.11	174.32				17.55	19.06			
	KAHALGAON STPS II	113.37	154.50				12.99	24.06			
	TALCHER STPS I	406.59	402.54				29.16	29.16			
	MTPS-II	70.57	72.07				8.22	8.22			
	BARH STPS II	592.99	520.06				63.57	61.54			
	RANGIT HEP	41.23	41.23				1.73	1.73			
	CHUKHA HEP	92.13	152.36				0.00	0.00			
	KIRUCHHU HEP	0.00	0.00				0.00	0.00			
	TALA HPS	366.33	281.13				0.00	0.00			
	TEESTA HEP	294.86	294.86				9.55	9.55			
	TOTAL	3470.66	3273.09	1274.10	5163.59	5346.49	290.58	302.23	199.83	560.43	590.45
DVC	FARAKKA STPS I	16.79	0.00				0.00	0.00			
	FARAKKA STPS III	144.77	164.87				0.00	0.00			
	KAHALGAON STPS I	0.00	0.00				0.00	0.00			
	KAHALGAON STPS II	1.84	0.00				0.00	0.00			
	TALCHER STPS I	16.47	21.07				0.76	0.61			
	MTPS-II	82.09	65.88				6.22	5.13			
	BRBCL	359.24	381.31				52.81	53.89			
	RANGIT HEP	38.98	30.92				1.30	1.30			
	CHUKHA HEP	86.00	147.13				0.00	0.00			
	KIRUCHHU HEP	50.20	32.54				0.00	0.00			
	TALA HPS	186.22	140.73				0.00	0.00			
	TEESTA HEP	304.16	206.45				6.68	6.68			
	TOTAL	1159.38	1190.89	-11335.47	-9981.92	-9326.71	67.77	67.61	-1267.68	-1201.63	-1194.65
GRIDCO	FARAKKA STPS I	1331.83	1317.36				150.65	145.75			
	FARAKKA STPS III	531.88	494.79				57.45	49.54			
	KAHALGAON STPS I	808.72	779.21				86.53	80.18			
	KAHALGAON STPS II	237.93	347.06				27.27	27.46			
	TALCHER STPS (Stg-I)	1719.46	1712.56				122.99	123.97			
	TALCHER STPS (Stg-I)	0.00	0.00				0.00	0.00			
	MTPS-II	175.27	12.76				20.41	0.90			
	BARH STPS II	1229.26	1151.49				131.10	131.10			
	RANGIT HEP	0.00	0.00				0.00	0.00			
	CHUKHA HEP	169.60	215.50				0.00	0.00			
	KIRUCHHU HEP	0.00	0.00				0.00	0.00			
	TALA HPS	135.85	116.37				0.00	0.00			
	TEESTA HEP	492.00	492.00				15.93	15.93			
	TOTAL	6831.79	6639.08	3585.45	10696.07	11506.53	612.32	574.83	238.08	814.57	815.49
WBSDECL	FARAKKA STPS I	2978.84	2888.70				348.91	351.70			
	FARAKKA STPS III	1034.30	965.68				129.16	129.34			
	KAHALGAON STPS I	102.65	111.30				38.34	40.88			
	KAHALGAON STPS II	83.46	106.84				9.57	14.25			
	TALCHER STPS I	531.86	519.29				38.51	38.51			
	MTPS-II	198.02	155.04				23.06	22.76			
	RANGIT HEP	87.63	85.49				3.68	3.68			
	CHUKHA HEP	273.21	451.85				0.00	0.00			
	KIRUCHHU HEP	20.27	32.53				0.00	0.00			
	TALA HPS	1222.69	650.29				0.00	0.00			
	TEESTA HEP	572.45	573.01				18.55	18.55			
	TOTAL	7105.40	6540.02	5697.76	12328.72	12948.76	609.77	619.66	138.26	750.72	756.17
SIKKIM	FARAKKA STPS I	153.05	136.78				17.31	15.49			
	FARAKKA STPS III	8.36	8.00				0.00	0.00			
	KAHALGAON STPS I	74.50	73.00				8.50	8.29			
	KAHALGAON STPS II	26.58	26.28				3.43	3.29			
	TALCHER STPS I	127.26	127.21				9.13	9.13			
	MTPS-II	11.39	11.35				1.33	1.33			
	BARH STPS II	110.36	103.10				11.83	9.88			
	RANGIT HEP	41.23	41.23				1.73	1.73			
	CHUKHA HEP	19.04	31.83				0.00	0.00			
	KIRUCHHU HEP	0.00	0.00				0.00	0.00			
	TEESTA HEP	315.17	315.17				10.20	10.20			
	TOTAL	886.95	873.95	-271.05	433.79	413.92	63.47	59.34	15.27	55.64	51.34
WR	FARAKKA STPS I	0.00	0.00				0.00	0.00			
	KAHALGAON STPS I	0.00	0.00				0.00	0.00			
	KAHALGAON STPS II	-2408.75	-2135.54				-276.11	-215.69			
	TALCHER STPS I	0.00	0.00				0.00	0.00			
	BARH STPS II	0.00	0.00				0.00	0.00			
	BRBCL	-744.28	-621.67				-118.26	-104.99			
	TOTAL	-3153.02	-2757.21	834.66	2116.66	12389.45	-394.37	-320.68	-252.86	265.36	783.92
SR	FARAKKA STPS I	-191.70	-185.17				-21.68	-22.39			
	FARAKKA STPS III	-22.75	-26.31				-2.46	-2.92			
	KAHALGAON STPS I	-70.84	-86.38				-7.58	-8.90			
	KAHALGAON STPS II	-69.29	-85.84				-7.94	-9.12			
	TALCHER STPS STG-I	-82.88	-83.13				-5.94	-5.90			
	MTPS-II	-5.73	-19.14				-0.67	-2.18			
	BARH STPS II	-56.53	-62.00				-6.06	-5.96			
	TOTAL	-499.72	-542.83	-4509.64	-6605.77	-10190.09	-52.34	-57.37	-891.56	-1175.22	-1350.13
NR	FARAKKA STPS I	-640.90	-507.42				-60.54	-45.91			
	KAHALGAON STPS I	-1534.73	-1220.20				-136.86	-103.84			
	KAHALGAON STPS II	-5071.05	-4139.06				-583.75	-481.07			
	TALCHER STPS I	0.00	0.00				0.00	0.00			
	BRBCL	-369.62	-347.62				-95.06	-97.39			
	TALA HPS	-479.50	-381.05				0.00	0.00			
	TOTAL	-8095.79	-6595.36	-12163.78	-11972.10	-16630.30	-876.21	-728.21	-465.98	-1352.66	-1975.14
	WR+SR+NR (GRAND TOTAL)	-11748.53	-9895.40	-15838.75	-16461.22	-14430.95	-1322.91	-1106.26	-1610.40	-2262.52	-2541.36
NER	FARAKKA STPS I	-310.87	-243.11				-35.17	-31.65			
	FARAKKA STPS III	-2.85	-2.97				-0.31	-0.30			
	KAHALGAON STPS I	-151.46	-159.59				-16.21	-16.01			
	KAHALGAON STPS II	-470.80	-400.42				-53.97	-52.93			
	TALCHER STPS I	-155.04	-150.97				-11.22	-11.22			
	TOTAL	-1091.02	-957.05	87.66	-109.96	-2241.07	-116.87	-112.11	-137.23	-72.17	363.93

PERFORMANCE OF GENERATING STATIONS IN THE EASTERN REGION DURING THE MONTH OF JANUARY 2019

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	(2018-19) in MU	(2018-19) in MU
BIHAR	Thermal	Barauni (U# 6&7)	220.00	210.00	0.00	0.00	44.86	39.47
		Muzaffarpur Stg-I	220.00	220.00	113.70	101.22	532.09	465.34
		Thermal Total	440.00	430.00	113.70	101.22	576.95	504.82
	RES		327.40	327.40	49.38	49.38	254.46	254.46
		Total BIHAR	767.40	757.40	163.08	150.61	831.41	759.28
JHARKHAND								
TVNL	Thermal	TVNL	420.00	420.00	122.32	106.49	1438.60	1254.64
JSEB	Hydro	Subarnrekha (U#1,2)	130.00	130.00	0.00	0.00	95.22	95.22
	RES		29.72	29.72	0.00	0.00	0.00	0.00
	Total	159.72	159.72	0.00	0.00	95.22	95.22	
DVC	Thermal	Bokaro-B(3)	210.00	210.00	26.69	23.24	608.79	533.42
		Chandrapura (3)	140.00	130.00	0.00	0.00	0.00	0.00
		Chandrapura(U7 # 8)	500.00	500.00	282.01	256.06	3164.78	2875.67
		Durgapur(4)	210.00	210.00	131.80	116.90	847.80	741.56
		Mezia(1,2,3,4,5,6)	1340.00	1340.00	593.37	532.94	5704.59	5114.27
		Mezia(U # 7,8)	1000.00	1000.00	602.03	574.38	4552.10	4315.44
		Bokaro-A(1,2)	500.00	500.00	299.43	282.61	2342.26	2205.64
		Durgapur STPS (U#1,2)	1000.00	1000.00	587.09	560.53	5155.28	4897.14
		Raghunathpur TPS (U#1,2)	1200.00	1200.00	274.47	256.80	2381.41	2213.84
	Koderma STPS (U#1,2)	1000.00	1000.00	567.35	540.79	5099.77	4851.82	
	Total Thermal	7100.00	7090.00	3364.23	3144.25	29856.78	27748.13	
	Hydro	Maithon (U#1,2,3)	63.20	63.20	2.95	2.92	96.02	95.64
		Panchet (U#1,2)	80.00	80.00	1.33	1.29	77.34	76.60
		Tilaya (U#1,2)	4.00	4.00	0.81	0.80	5.30	5.24
Hydro Total		147.20	147.20	5.08	5.01	178.66	177.44	
Total DVC	7247.20	7237.20	3369.31	3149.26	30035.44	27925.57		
WEST BENGAL								
WBPDCCL	Thermal	Bandel TPS	380.00	335.00	92.80	82.36	1122.35	994.77
		Santaldih TPS(U#5&6)	500.00	500.00	259.62	237.05	2873.01	2626.59
		Kolaghat TPS	1260.00	1260.00	365.73	328.95	3851.24	3418.90
		Bakreswar TPP	1050.00	1050.00	632.71	578.56	5832.41	5292.22
		Sagardighi TPP	1600.00	1600.00	390.13	353.32	4947.90	4464.09
		Thermal Total	4790.00	4745.00	1740.99	1580.24	18626.92	16796.56
WBSIEDCL	Hydro	Jaldhaka (3x9+2x4)	35.00	35.00	0.12	0.12	181.78	181.78
		Ramam (4x12.73)	51.00	51.00	9.20	9.20	219.45	219.45
		Teesta C.F. (3x3x7.3)	67.30	67.30	0.00	0.00	85.46	85.46
		Purulia PSS (4x225)	900.00	900.00	134.51	134.51	956.65	956.65
		Total Hydro	1053.30	1053.30	143.83	143.83	1443.34	1443.34
		RES	277.52	277.52	0.00	0.00	0.00	0.00
DPL	Thermal	DPPS (110+300+250 *)	660.00	660.00	241.88	217.61	2014.58	1803.21
	RES	5.00	5.00	0.48	0.48	5.07	5.07	
	➤	Chandrapura #1 is retired on 17.01.17						
	➤	Patratu # 1,2,3,5,8 are retired on 21.12.16						

PERFORMANCE OF GENERATING STATIONS IN THE EASTERN REGION DURING THE MONTH OF JANUARY 2019

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 (2018-19) in MU	Cummulative Net Energy Generation upto Current Month (2018-19) 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	13.51	12.20	259.08	235.10	
		Budge-Budge (3x250)	750.00	750.00	504.64	467.40	5063.39	4672.24	
		Total CESC	1125.00	1125.00	518.15	479.60	5322.47	4907.34	
HEL	Thermal	HEL	600.00	600.00	295.61	273.12	3951.72	3652.48	
		Total West Bengal	8510.82	8465.82	2940.45	2694.39	31360.69	28604.59	
ODISHA (NTPC)	Thermal	Talcher-I	250.00	240.00	182.05	160.62	1608.73	1433.52	
		Talcher-II	220.00	220.00	107.17	94.56	1366.51	1216.20	
		Total Thermal	470.00	460.00	289.22	255.18	2975.24	2649.72	
OPGC	Thermal	IB TPS	420.00	420.00	278.35	250.41	2587.81	2310.93	
OHPC	Hydro	Hirakud-I (Burla)	275.50	275.50	13.62	13.47	350.78	348.64	
		Hirakud-II (Chiplima)	72.00	72.00	8.58	8.52	146.15	145.48	
		Balimela (6x60+2x75)	510.00	510.00	87.18	86.57	1551.94	1546.49	
		Rengali (5x50)	250.00	250.00	15.70	15.60	798.84	797.69	
		Upper Kolab (4x80)	320.00	320.00	60.82	60.47	774.57	771.64	
		Indravati HPS (4x150)	600.00	600.00	108.24	106.64	1776.22	1742.33	
		Mckd.(Odisha drawal)	57.38	57.38	28.18	28.18	217.95	217.95	
		Total Hydro	2084.88	2084.88	322.32	319.45	5616.44	5570.22	
		RES	184.30	184.30	17.87	17.87	145.95	145.95	
		Total Odisha	3159.18	3149.18	907.76	842.90	11325.44	10676.82	
(**) SIKKIM	Hydro	RES	52.11	52.11	1.00	1.00	24.00	24.00	
NTPC		MTPS Stg-II	390.00	390.00	209.34698	187.64	1919.78	1713.72	
		FSTPP# I&II (3x200+2x500)	1600.00	1600.00	1049.51	981.31	9441.38	8797.12	
		FSTPP (U# 6)	500.00	500.00	327.87	305.63	3025.47	2821.87	
		KhSTPP (4x210+3x500)	2340.00	2340.00	1493.01	1388.27	13839.96	12847.68	
		TSTPP (2x500)	1000.00	1000.00	414.26	376.97	5762.18	5286.67	
		BARH STPS II (2X660)	1320.00	1320.00	921.84	876.54	8430.40	7995.50	
		BRBCL # 1,2(2X250 MW)	500	500	356.31	331.28	2060.273	1898.83	
		Total NTPC	7650.00	7650.00	4772.14	4447.64	44479.43	41361.40	
NHPC	HYDRO	Rangit (3x20)	60.00	60.00	13.12	13.12	319.45	319.45	
		Teesta (3x170)	510.00	510.00	79.75	79.75	2469.35	2469.35	
		TLDP -(4x33+4x40)	292.00	292.00	31.06	31.06	1177.79	1177.79	
		Total NHPC	862.00	862.00	123.93	123.93	3966.59	3966.59	
		MPL (U#1&2)	1050.00	1050.00	584.55	550.94	6013.17	5671.40	
		APNRL (U#1,2)	540.00	540.00	139.09	126.87	2448.83	2244.38	
		GMR (2x350)	700.00	700.00	331.89	312.81	3725.31	3511.11	
		JITPL (2X600)	1200.00	1200.00	380.31	357.29	3523.60	3282.04	
		CHUZACHEN** (2x55)	110.00	110.00	7.36	7.36	400.31	399.08	
		JORETHANG (2x48)	96.00	96.00	10.43	10.43	391.18	391.18	
		TEESTA URJA St III (6x200)	1200.00	1200.00	141.08	141.08	3897.99	3897.99	
		Tashilding (2x48.5)	97.00	97.00	12.35	12.35	400.68	400.68	
		DICKCHU (2x48)	96.00	96.00	7.21	7.21	444.73	444.73	
		TALCHER SOLAR	10.00	10.00	1.21	1.21	11.19	11.19	
		Total Thermal (E.R)	27165.00	27090.00	13172.43	12203.65	127541.41	117698.16	
		EASTERN REGIONAL	Total Hydro (E.R)	5876.38	5876.38	773.59	770.64	16835.16	16786.48
			Total RES	886.05	886.05	69.95	69.95	440.67	440.67
			TOTAL (E.R)	33927.43	33852.43	14015.96	13044.24	144817.24	134925.32
BHUTAN		Hydro	CHPC(4x90)	360.00	270.00	1.41	1.41	1314.79	1314.79
	Hydro	Kurichu (4x15)	60.00	60.00	-15.28	-15.28	308.81	308.81	
	Hydro	TALA (6x170)	1020.00	1020.00	0.79	0.79	2389.96	2389.96	
	Hydro	DAGACHU (2x63)	126.00	126.00	12.38	12.38	327.70	327.70	
		Grand Total	35493.43	35328.43	14015.26	13043.54	149158.51	139266.59	

PLANT LOAD FACTOR (PLF) OF THERMAL POWER STATIONS IN EASTERN REGION DURING THE MONTH OF JANUARY' 2019

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 (2018-19) in MU	Cummulative PLF upto Current Month (%)
BIHAR	Thermal	Barauni (U# 6&7)	220.00	210.00	0.00	0.00	44.86	2.91
		Muzaffarpur Stg-I	220.00	220.00	113.70	69.46	532.09	32.93
		Thermal Total	440.00	430.00	113.70	35.54	576.95	18.27
	RES		327.40	327.40	49.38		254.46	
		Total BIHAR	767.40	757.40	163.08		831.41	
JHARKHAND								
TVNL	Thermal	TVNL	420.00	420.00	122.32	39.14	1438.60	46.64
JSEB	Hydro	Subarnrekha (U#1,2)	130.00	130.00	0.00		95.22	
	RES		29.72	29.72	0.00		0.00	
	Total	159.72	159.72	0.00		95.22		
DVC	Thermal	Bokaro-B(3)	210.00	210.00	26.69	17.08	608.79	39.47
		Chandrapura (3)	140.00	130.00	0.00	0.00	0.00	0.00
		Chandrapura(U7 # 8)	500.00	500.00	282.01	75.81	3164.78	86.19
		Durgapur(4)	210.00	210.00	131.80	84.35	847.80	54.97
		Mezia(1,2,3,4,5,6)	1340.00	1340.00	593.37	59.52	5704.59	57.97
		Mezia(U # 7,8)	1000.00	1000.00	602.03	80.92	4552.10	61.98
		Bokaro-A(1,2)	500.00	500.00	299.43	80.49	2342.26	63.79
		Durgapur STPS (U#1,2)	1000.00	1000.00	587.09	78.91	5155.28	70.20
		Raghunathpur TPS (U#1,2)	1200.00	1200.00	274.47	30.74	2381.41	27.02
		Koderma STPS (U#1,2)	1000.00	1000.00	567.35	76.26	5099.77	69.44
	Total Thermal	7100.00	7090.00	3364.23	63.78	29856.78	57.34	
	Hydro	Maithon (U#1,2,3)	63.20	63.20	2.95		96.02	
		Panchet (U#1,2)	80.00	80.00	1.33		77.34	
		Tilaya (U#1,2)	4.00	4.00	0.81		5.30	
		Hydro Total	147.20	147.20	5.08		178.66	
Total DVC		7247.20	7237.20	3369.31		30035.44		
WEST BENGAL								
WBPDC	Thermal	Bandel TPS	380.00	335.00	92.80	37.23	1122.35	45.62
		Santalidih TPS(U#5&6)	500.00	500.00	259.62	69.79	2873.01	78.24
		Kolaghat TPS	1260.00	1260.00	365.73	39.01	3851.24	41.62
		Bakreswar TPP	1050.00	1050.00	632.71	80.99	5832.41	75.64
		Sagardighi TPP	1600.00	1600.00	390.13	32.77	4947.90	42.11
		Thermal Total	4790.00	4745.00	1740.99	49.32	18626.92	53.45
WBSEDCL	Hydro	Jaldhaka (3x9+2x4)	35.00	35.00	0.12		181.78	
		Ramam (4x12.73)	51.00	51.00	9.20		219.45	
		Teesta C.F. (3x3x7.3)	67.30	67.30	0.00		85.46	
		Purulia PSS (4x225)	900.00	900.00	134.51		956.65	
		Total Hydro	1053.30	1053.30	143.83		1443.34	
		RES	277.52	277.52	0.00		0.00	
DPL	Thermal	TLDP -(4x33+4x40)	292.00	292.00	31.06		1177.79	
		DPPS (110+300+250 *)	660.00	660.00	241.88	49.26	2014.58	41.56
		RES	5.00	5.00	0.48		5.07	

WBPDC, Bandel TPS Unit #3 & Unit #4 (IC=2X82.5 MW, EC=2X60 MW) decommissioned from 01.04.2018.

ORGANI- SATION	TYPE	POWER STATION	INSTALLED CAPACITY	EFFECTIVE CAPACITY	Gross Energy Generation in MU	PLF of Current Month (%)	Cummulative Gross Energy Generation upto Current Month (2018-19) in MU	Cummulative PLF 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	13.51	13.45	259.08	26.13
		Budge-Budge (3x250)	750.00	750.00	504.64	90.44	5063.39	91.93
		Total CESC	1125.00	1125.00	518.15	61.91	5322.47	64.42
HEL	Thermal		600.00	600.00	295.61	66.22	3951.72	89.68
		Total West Bengal	8510.82	8465.82	2940.45		31360.69	
ODISHA (NTPC)	Thermal	Talcher-I	250.00	240.00	182.05	101.96	1608.73	91.27
		Talcher-II	220.00	220.00	107.17	65.48	1366.51	84.58
		Total Thermal	470.00	460.00	289.22	84.51	2975.24	88.07
OPGC	Thermal	IB TPS	420.00	420.00	278.35	89.08	2587.81	83.90
OHPC	Hydro	Hirakud-I (Burla)	275.50	275.50	13.62		350.78	
		Hirakud-II (Chiplima)	72.00	72.00	8.58		146.15	
		Balimela (6x60+2x75)	510.00	510.00	87.18		1551.94	
		Rengali (5x50)	250.00	250.00	15.70		798.84	
		Upper Kolab (4x80)	320.00	320.00	60.82		774.57	
		Indravati HPS (4x150)	600.00	600.00	108.24		1776.22	
		Mckd.(Odisha drawal)	57.38	57.38	28.18		217.95	
		Total Hydro	2084.88	2084.88	322.32		5616.44	
		RES	184.30	184.30	17.87		145.95	
		Total Odisha	3159.18	3149.18	907.76		11325.44	
(**) SIKKIM	Hydro	RES	52.11	52.11	1.00		24.00	
NTPC		MTPS Stg-II	390	390	209.34698	72.15	1919.78068	67.03
		FSTPP# I&II (3x200+2x500)	1600.00	1600.00	1049.51	88.16	9441.38	80.35
		FSTPP (U# 6)	500.00	500.00	327.87	88.14	3025.47	82.39
		KhSTPP (4x210+3x500)	2340.00	2340.00	1493.01	85.76	13839.96	80.54
		TSTPP (2x500)	1000.00	1000.00	414.26	55.68	5762.18	78.46
		BARH STPS II (2X660)	1320.00	1320.00	921.84	93.87	8430.40	86.96
		BRBCL # I,2(2X250 MW)	500.00	500.00	356.31	93.31	2060.27	55.86
		Total NTPC	7650.00	7650.00	4772.14	83.85	44479.43	79.17
NHPC	HYDRO	Rangit (3x20)	60.00	60.00	13.12		319.45	
		Teesta (3x170)	510.00	510.00	79.75		2469.35	
		TLDP -(4x33+4x40)	292.00	292.00	31.06		1177.79	
		Total NHPC	862.00	862.00	123.93		3966.59	
	Thermal	MPL (U#1&2)	1050.00	1050.00	584.55	74.83	6013.17	77.98
		APNRL (U#1,2)	540.00	540.00	139.09	34.62	2448.83	61.75
		GMR (2x350)	700.00	700.00	331.89	63.73	3725.31	72.47
		JITPL (2X600)	1200.00	1200.00	380.31	42.60	3523.60	39.98
		CHUZACHEN** (2x55)	110.00	110.00	7.36		400.31	
		JORETHANG (2x48)	96.00	96.00	10.43		391.18	
		TEESTA URJA St III (6x200)	1200.00	1200.00	141.08		3897.99	
		Tashilding (2x48.5)	97.00	97.00	12.35		400.68	
		DICKCHU (2x48)	96.00	96.00	7.21		444.73	
		TALCHER SOLAR	10.00	10.00	1.21		11.19	
		Total Thermal (E.R)	27165.00	27090.00	13172.43	65.36	127541.41	64.11
EASTERN REGIONAL		Total Hydro (E.R)	5876.38	5876.38	773.59		16835.16	
		Total RES	886.05	886.05	69.95		440.67	
		TOTAL (E.R)	33927.43	33852.43	14015.96		144817.24	
BHUTAN	Hydro	CHPC(4x90)	360.00	270.00	1.41		1314.79	
	Hydro	Kurichu (4x15)	60.00	60.00	-15.28		308.81	
	Hydro	TALA (6x170)	1020.00	1020.00	0.79		2389.96	
	Hydro	DAGACHU (2x63)	126.00	126.00	12.38		327.70	
		Grand Total	35493.43	35328.43	14015.26		149158.51	

➤ BRBCL U#3 (250 MW) infirm generation of 9.179 MU during the month of January'19. The infirm generation of BRBCL U#3 (250 MW) has not taken for calculation of PLF.

**CONTRIBUTIONS OF DIFFERENT CONSTITUENTS AT THE TIME OF REGIONAL PEAK
DURING THE MONTH OF JANUARY'2019 (29-1-2019)**

Date **29-Jan-19**
Time **19.00** **Hrs.**
Frequency **49.89** **Hz.**

(All Fig. in MW)

	Installed	Effective				
System/State	Capacity	Capacity	Hydro	Thermal	RES	Total
BSPHCL	767	757	0	73	0	73
JUVNL	580	580	0	168	0	168
DVC	7247	7237	39	4657	0	4696
ODISHA	3159	3149	985	633	14	1633
WBSEDCL	6121	6076	706	2673	0	3379
TLDP	292	292	157	0	0	157
HEL HALDIA	600	600	0	544	0	544
CESC	1125	1125	0	668	0	668
DPL	665	665	0	0	0	0
SIKKIM	52	52	0	0	0	0
NTPC	7650	7650	0	5872	0	5872
NHPC	570	570	573	0	0	573
CHUKHA	360	270	19	0	0	19
KURICHU	60	60	-38	0	0	-38
TALA	1020	1020	11	0	0	11
MPL	1050	1050	0	987	0	987
APNRL	540	540	0	250	0	250
Kamalganga (GMR)	700	700	0	321	0	321
JITPL	1200	1200	0	400	0	400
Chuzachen	110	110	112	0	0	112
Jorethang	96	96	5	0	0	5
TEESTA URJA St III	1200	1200	631	0	0	631
Tashilding	97	97	64	0	0	64
DICKCHU	96	96	27	0	0	27
<u>Daghachu</u>	126	126	15	0	0	15
<u>Solar</u>	10	10	0	0	0	0
<u>0</u>	0	0	0	0	0	0
<u>Total</u>	35493	35328	3305	17245	14	20564
Import From Captive:						1452
Export To:						
NER						-622
SR						2241
WR						-1700
NR						2553.47
Bangladesh						684.44
Nepal						156.03
Total						3314

➤ **I Net Peak Demand Met (MW) :**

18702

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

Hourly Load Generation Data OF ER On Regional Peak Day During The Month of JANUARY'2019 (29-1-2019)

(All Figures in MW)

Generation				Import	Net	Net	Demand	Freq.	Load	
Hrs.	Hydro	Thermal	Total	from Captive	Import From CHPS, KHPS & TALA	Export to other region	Met	Correction	Shed	Requirement
1	232	14693	14925	1274	19	1622	14595	-5	0	14595
2	206	13984	14189	1266	25	1304	14176	10	0	14186
3	276	13781	14057	1248	42	1327	14020	40	1	14061
4	246	13886	14132	1235	60	1489	13938	32	1	13971
5	190	15021	15211	1248	82	2199	14342	3	2	14347
6	467	16067	16533	1276	71	3135	14746	31	3	14780
7	770	17027	17797	1377	54	3386	15843	10	276	16129
8	1774	17922	19695	1418	52	4278	16888	25	286	17199
9	2235	17563	19798	1423	45	4627	16638	-12	623	17250
10	2495	17727	20222	1382	5	5281	16327	-20	743	17051
11	950	17519	18469	1385	-27	4377	15451	-18	618	16051
12	724	17300	18025	1381	-16	4106	15284	19	642	15945
13	420	16978	17398	1332	8	4135	14603	17	627	15246
14	569	16930	17499	1288	12	4533	14266	9	229	14504
15	216	16645	16861	1277	-10	4712	13416	18	10	13444
16	379	16862	17242	1255	-27	4612	13857	50	16	13923
17	787	16810	17597	1321	-31	4579	14307	74	413	14794
18	1644	17368	19013	1349	-31	3456	16875	58	13	16945
19	3328	17245	20573	1452	-8	3314	18702	72	9	18783
20	3404	17501	20906	1444	13	3888	18474	-2	9	18481
21	1961	17486	19447	1393	21	2717	18144	25	3	18172
22	1017	16966	17983	1345	14	2422	16921	-1	0	16921
23	829	15749	16578	1259	0	3127	14711	-3	61	14769
24	481	15159	15640	1261	-33	2767	14100	-9	0	14100

Hourly Load Generation Data of ER On Regional Lean Day During The Month of JANUARY'2019 (2-1-2019)

(All Figures in MW)

Generation				Import	Net	Net	Demand	Freq.	Load	
Hrs.	Hydro	Thermal	Total	from Captive	Import From CHPS, KHPS & TALA	Export to other region	Met	Correction	Shed	Requirement
1	253	14281	14533	883	-13	2714	12689	4	1	12695
2	191	13786	13978	901	-16	2492	12370	-6	1	12371
3	193	13432	13626	893	-27	2247	12245	-12	1	12246
4	167	13360	13527	926	-20	2106	12326	15	1	12342
5	272	14229	14501	899	-26	2918	12456	1	1	12458
6	1164	14906	16070	894	-38	3964	12962	20	1	12983
7	1046	15739	16784	1007	-63	3893	13836	13	1	13850
8	999	16998	17997	1042	-85	3838	15115	60	6	15181
9	1377	17326	18703	1015	-78	4280	15359	48	69	15477
10	1545	17288	18833	1003	-61	4667	15108	36	147	15291
11	1159	17125	18284	981	-35	4406	14824	-12	149	14961
12	997	17123	18120	930	-47	4327	14675	0	13	14688
13	634	16928	17561	899	-42	4220	14199	22	9	14231
14	500	16698	17198	830	-41	4434	13552	23	15	13590
15	300	16843	17143	787	-29	4605	13296	1	18	13315
16	443	17096	17539	802	-43	4739	13559	46	6	13612
17	879	17485	18364	926	-61	4842	14387	23	3	14412
18	2248	17311	19560	950	11	3540	16980	56	236	17273
19	3082	17213	20295	955	28	3639	17639	23	350	18012
20	3501	17191	20692	943	41	3666	18011	-6	78	18083
21	2882	17338	20220	937	53	4113	17097	24	211	17332
22	2139	17142	19282	912	73	4491	15776	-11	353	16118
23	1220	16630	17850	932	40	4201	14622	1	402	15026
24	375	16050	16426	1042	-5	3660	13803	4	275	14082

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

FOR THE MONTH OF JANUARY'2019

POWER CUT / RESTRICTIONS

BSPHCL	NO NOTIFIED CUTS/RESTRICTIONS However there was loadshedding of 5.38 MU
JUVNL	NO NOTIFIED CUTS/RESTRICTIONS However there was loadshedding of 59.08 MU
DVC	NO NOTIFIED CUTS/RESTRICTIONS. However there was loadshedding of 6.43 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 5.40 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

Jan-19

D A T E	H O U R S										INST. FREQ.				15 MIN. INTEGRATED			
	00	05	10	17	22	00	<49.9	49.9 TO 50.1	>50.05 TO 50.05	49.9	MAX HZ	HRS.	MIN HZ	HRS.	MAX HZ	HRS.	MIN HZ	HRS.
	TO 05	TO 10	TO 17	TO 22	TO 24	TO 24												
01-Jan	49.98	49.91	50.01	50.01	50.00	49.98	10.00	71.70	18.30	71.70	50.27	22:01:10	49.69	08:22:30	50.15	0:00	49.78	0:00
02-Jan	50.00	49.93	49.97	49.97	50.00	49.97	15.80	78.40	5.70	78.40	50.13	12:03:40	49.78	21:10:50	50.07	0:00	49.85	0:00
03-Jan	49.97	49.88	49.97	49.94	50.03	49.95	22.40	62.30	15.30	62.30	50.18	22:00:10	49.67	20:17:10	50.10	0:00	49.77	0:00
04-Jan	50.01	49.90	49.95	49.95	49.97	49.95	22.00	65.00	12.00	65.00	50.17	00:03:10	49.58	07:32:20	50.10	0:00	49.71	0:00
05-Jan	50.00	50.03	49.94	50.03	50.01	49.99	7.00	68.40	24.00	68.40	50.23	06:03:20	49.75	11:51:20	50.13	0:00	49.84	0:00
06-Jan	50.01	49.99	50.01	50.01	50.03	50.01	4.40	67.40	28.20	67.40	50.19	06:02:10	49.80	11:12:00	50.10	0:00	49.85	0:00
07-Jan	50.01	50.00	49.98	49.99	50.01	49.99	7.3	71.20	21.50	71.20	50.20	21:50:00	49.73	05:13:00	50.16	0:00	49.83	0:00
08-Jan	49.96	49.99	49.99	50.01	49.99	49.99	6.50	74.30	19.20	74.30	50.19	18:01:40	49.80	12:16:30	50.11	0:00	49.87	0:00
09-Jan	49.98	49.97	49.96	49.99	49.99	49.97	11.80	75.80	12.40	75.80	50.17	12:59:50	49.76	19:35:50	50.06	0:00	49.85	0:00
10-Jan	49.98	49.97	49.94	49.96	50.00	49.96	12.30	77.70	10.00	77.70	50.21	06:03:10	49.74	12:12:00	50.09	0:00	49.82	0:00
11-Jan	49.98	49.92	49.95	49.95	50.02	49.96	20.90	69.80	9.30	69.80	50.17	17:04:40	49.75	07:36:00	50.09	0:00	49.81	0:00
12-Jan	49.93	49.97	49.96	50.00	50.01	49.97	17.00	66.80	15.40	66.80	50.23	22:00:30	49.74	05:11:30	50.12	0:00	49.81	0:00
13-Jan	49.98	50.01	50.00	50.00	49.99	50.00	5.60	69.60	24.80	69.60	50.25	06:02:40	49.78	05:11:40	50.15	0:00	49.86	0:00
14-Jan	49.97	50.00	50.01	50.02	50.01	50.00	4.40	66.40	29.10	66.40	50.23	13:03:30	49.79	04:11:40	50.14	0:00	49.86	0:00
15-Jan	49.97	50.02	49.99	50.02	49.98	50.00	6.30	67.00	26.70	67.00	50.18	17:32:40	49.78	02:40:30	50.10	0:00	49.83	0:00
16-Jan	50.01	50.01	49.98	49.95	50.02	49.99	8.80	66.20	25.00	66.20	50.17	02:01:30	49.80	07:33:30	50.10	0:00	49.87	0:00
17-Jan	50.00	49.99	49.99	49.97	49.98	49.99	8.40	74.10	17.40	74.10	50.19	06:02:10	49.73	15:41:10	50.09	0:00	49.85	0:00
18-Jan	49.97	49.91	49.94	49.95	50.00	49.95	20.40	72.20	7.40	72.20	50.11	23:44:30	49.67	05:43:00	50.05	0:00	49.79	0:00
19-Jan	49.98	49.97	49.98	49.98	50.01	49.98	8.10	75.80	16.10	75.80	50.21	06:02:20	49.78	07:37:10	50.08	0:00	49.78	0:00
20-Jan	50.02	50.00	50.00	49.99	50.02	50.00	2.90	72.00	25.10	72.00	50.20	14:03:10	49.68	21:04:40	50.10	0:00	49.88	0:00
21-Jan	50.01	49.97	49.95	50.02	50.02	49.99	10.30	67.30	22.10	67.30	50.28	02:01:20	49.68	06:39:50	50.15	0:00	49.78	0:00
22-Jan	50.00	49.98	49.98	49.96	50.03	49.99	11.90	64.60	23.50	64.60	50.28	02:01:20	49.79	06:39:50	50.14	0:00	49.78	0:00
23-Jan	49.95	49.97	50.02	49.98	49.98	49.98	9.40	71.60	19.00	71.60	50.24	12:00:40	49.79	07:19:20	50.14	0:00	49.84	0:00
24-Jan	49.98	49.96	50.00	49.98	50.00	49.98	8.70	72.00	19.20	72.00	50.17	13:03:30	49.72	09:10:30	50.08	0:00	49.78	0:00
25-Jan	50.00	49.97	49.94	50.00	49.98	49.97	11.40	74.10	14.50	74.10	50.18	06:02:00	49.79	11:41:00	50.09	0:00	49.85	0:00
26-Jan	49.97	49.98	50.01	50.02	50.02	50.00	6.70	64.30	29.00	64.30	50.24	13:02:50	49.74	09:11:20	50.17	0:00	49.82	0:00
27-Jan	50.06	49.92	50.00	49.98	49.99	49.99	11.40	58.50	30.10	58.50	50.22	00:00:10	49.65	08:21:30	50.11	0:00	49.74	0:00
28-Jan	50.00	49.95	50.00	49.95	49.97	49.98	13.30	67.60	19.00	67.60	50.17	13:00:50	49.75	18:35:50	50.12	0:00	49.80	0:00
29-Jan	49.97	49.99	49.95	49.95	50.01	49.97	13.80	72.40	13.70	72.40	50.16	06:02:50	49.72	16:56:50	50.09	0:00	49.79	0:00
30-Jan	50.00	49.97	49.98	49.99	50.00	49.99	6.85	77.65	15.50	77.65	50.18	12:01:10	49.79	10:09:40	50.12	0:00	49.85	0:00
31-Jan	50.01	49.98	50.00	49.97	49.96	50.00	3.80	74.40	21.80	74.40	50.18	22:01:00	49.79	11:36:10	50.11	0:00	49.89	0:00
MAX	50.06	50.03	50.02	50.03	50.03	50.01	22.40	78.40	30.10	78.40	50.28		49.80		50.17		49.89	
MIN	49.93	49.88	49.94	49.94	49.96	49.95	2.90	58.50	5.70	58.50	50.11		49.58		50.05		49.71	
AVG	49.99	49.97	49.98	49.98	50.00	49.98	10.75	70.21	19.04	70.21	50.20		49.74		50.11		49.82	

SUMMARY:

Avg. Frequency : 49.98 Hz.

Instantaneous Frequency :

Maximum Frequency : 50.28 Hz at 02:01 Hrs.

Minimum Frequency : 49.58 Hz at 07:32 Hrs.

15 Minutes Integrated Frequency :

Maximum Frequency : 50.17 Hz On 00/01/00 at 00:00 Hrs.

Minimum Frequency : 49.71 Hz On 00/01/00 at 00:00 Hrs

Frequency Distribution in % of Time			
Hz	<49.9	49.9-50.05	>50.05
% of Time	10.75	70.21	19.04

VOLTAGE ANALYSIS

MAXIMUM & MINIMUM VOLTAGES RECORDED AT IMPORTANT 400 kV S/S IN THE MONTH OF JANUARY'2019

(All figs. in kV)

PGCIL	BINAGURI		MAITHON		JEERAT		BIHARSHARIFF	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	413	399	419	393	419	400	414	396

PGCIL	MUZAFFARPUR		JAMSHEDPUR		ROURKELA		JEYPORE	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	422	404	417	402	423	390	413	383

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 (49.2 Hz) (Inst.)	STAGE-II (49.0 Hz) (Inst.)	STAGE-III (48.8 Hz) (Inst.)	STAGE-IV 48.6 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.

A.

WATER LEVEL OF MAJOR HYDEL RESERVOIRS OF THE REGION IN

Jan-19

(All figs.in mtrs.)

Name of the Reservoirs	FRL	MDDL	As on last day of the		As on first day of this month & date	
			(31-01-19)	(31-01-18)		
Hirakud	192	180	189.81	190.20	190.51	01.01.19
Balimela	462	439	458.24	447.39	459.55	01.01.19
Rengali	123	109	117.22	122.25	117.79	01.01.19
Upperkolab	858	844	854.24	853.05	855.07	01.01.19
Indravati	642	625	638.03	635.24	638.64	01.01.19
Subernrekha	590	580	585.95	585.67	585.98	01.01.19

B.

CPP/IPP IMPORT by Eastern Region Constituents during

Jan-19

(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	40.58
West Bengal	65.78	26.73	0	0	0	0	0	34.08	126.59
ODISHA	0	0	58.42	138.08	8.11	0.30	0	379.94	584.87
DVC	0	0	0	0	0	0	10.92	0	10.92
TOTAL	65.78	26.73	58.42	138.08	8.11	0.30	10.92	414.03	762.96

C.

Distribution of Schedule Supply among Key Customers by IPPs during

Jan-19

(All figs. are in MU)

IPP	TPDDL	WBSEDCL/ WBPDCCL	DVC *	Sale at IEX/NPCL	ODISHA	JSEB	CTU/Others	Total (Excl. Tr. Loss)
MPL	149.28	154.83	75.18	0.00	0	0	172.62	551.91
Sterlite	0	0	0	0	0.00	0	0.00	0.00
APNRL	0	3.59	0	1.61	0.00	108.79	13.98	127.97
Total	149.28	158.42	75.18	1.61	0.00	108.79	186.60	679.88

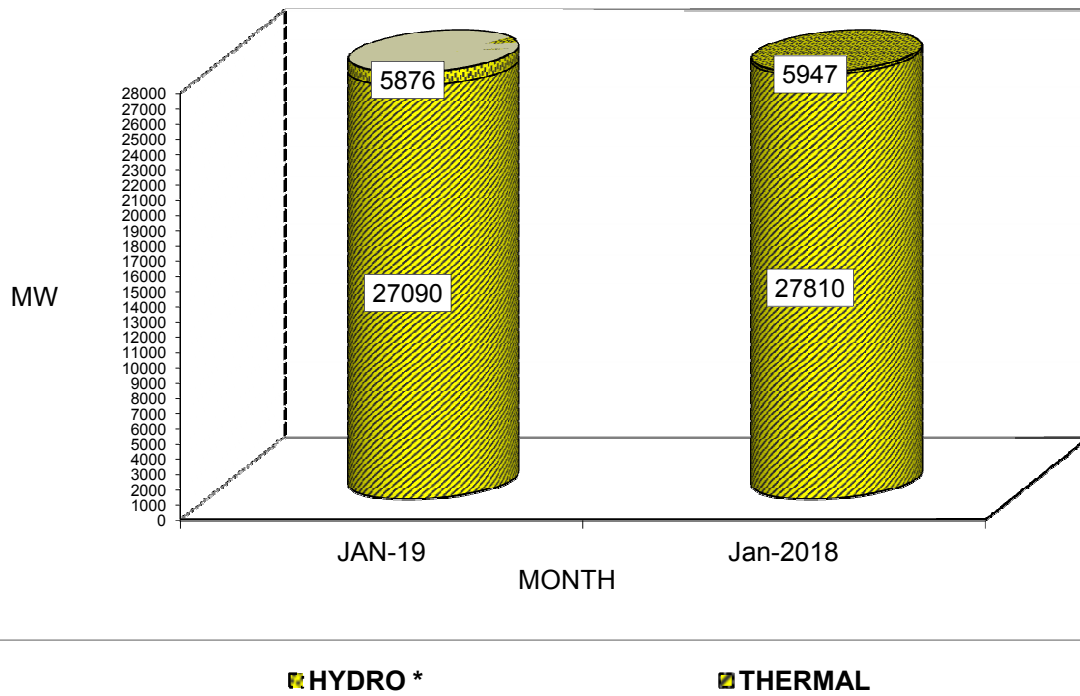
Task/work performed by ERPC during January-2019

JANUARY, 2019		
	Period	Date of Report
1	URS November-18	02/01/2019
2	Compensation statement for November-18	03.01.2019
3	DC Teesta III December 2018	03.01.2019
4	REA December 2018	03.01.2019
5	DC-MPL-December	04.01.2019
6	RTA December-18	04.01.2019
7	Provisional Power Supply Position for Decmber-2018	04.01.2019
8	Bilateral REA for December -2018	04.01.2019
9	VARH-Account-031218-091218	04.01.2019
10	VARH-Account-101218-161218	04.01.2019
11	AS-3 Format 16.01.19-15.02.19	05.01.2019
12	Revised Bilateral REA for December -2018	07.01.2019
13	VAR Account 171218-231218	08.01.2019
14	Deviation Account , RRAS & FRAS Account 17.12.18-23.12.18	08/01/2019
15	REA Bhutan December-18	08.01.2019
16	RTDA for the month of July, August & September- 2018	10/01/2019
17	VAR Account 241218-301218	11.01.2019
18	Deviation Account, RRAS & FRAS Account 241218-301218	11/01/2019
19	Transmission System Availability Certificate for CBPTCL Transmission Elements for Nov-18	14.01.2019
20	Transmission System Availability Certificate for Powerlinks Transmission Elements for Nov-1	14.01.2019
21	Transmission System Availability Certificate for TPTL Transmission Elements for Nov-18	14.01.2019
22	Transmission System Availability Certificate for PKTCL Transmission Elements for Nov-18	14.01.2019
23	Transmission System Availability Certificate for OPGCL Transmission Elements for Nov-18	14.01.2019
24	Deviation Account, RRAS & FRAS Account 311218-060119	17/01/2019
25	VAR Account 311218-060119	17.01.2019
26	URS December-18	24/01/2019
27	Revised Power Supply Position for December-2018	24.01.2019
28	Deviation Account, RRAS & FRAS Account 070119-130119	25/01/2019
29	VAR Account 070119-130119	25.01.2019
30	Deviation Account, RRAS & FRAS Account 140119-200119	31/01/2019
31	VAR Account 140119-200119	31.01.2019
32	Progress Report December-2018	31/01/2019

List of Meetings / Workshops held during the month of January, 2019

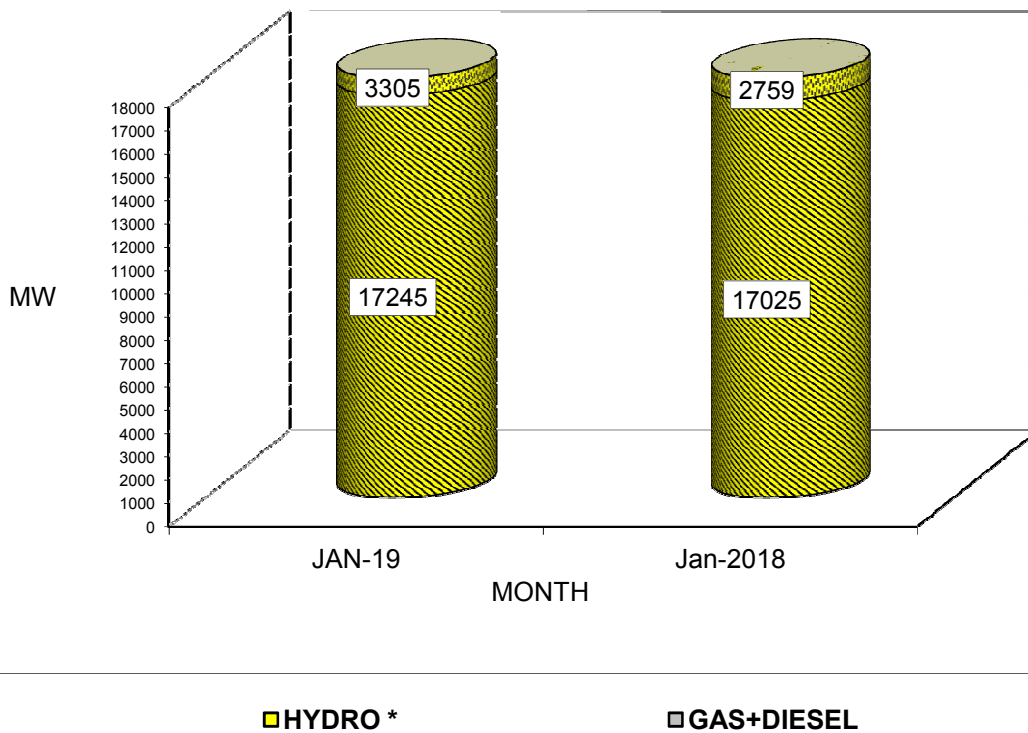
Sl. No.	Description	Date	Venue
1	Review Mtg. to be taken by Member Secretary, ERPC	01.01.2019	ERPC, Kolkata
2	Mtg. on e-office Implementation	03.01.2019	ERPC, Kolkata
3	Presentation by PWC	07.01.2019	ERPC, Kolkata
4	Discussion with MPL	08.01.2019	ERPC, Kolkata
5	Prsensation by Sh. Lenin B., AEE on Tariff Regulations 2019 - 24	09.01.2019	ERPC, Kolkata
6	ISO Meeting	09.01.2019	ERPC, Kolkata
7	Workshop by NPTI	11.01.2019	Bhubaneshwar
8	Meeting on Operationalization of Bus splitting scheme in Durgapur S/s	17.01.2019	ERPC, Kolkata
9	Meeting on Maintainance Program of Trans. Lines	18.01.2019	ERLDC, Kolkata
10	153rd OCC Meeting	21.01.2019	ERPC, Kolkata
11	75th PCC Meeting	22.01.2019	ERPC, Kolkata
12	Mtg. with PTC	24.01.2019	ERPC, Kolkata
13	Presentation on Tariff Regulations	28.01.2019	ERPC, Kolkata
14	Workshop on PoC Charges Bills	29.01.2019	ERPC, Kolkata
15	Workshop on PoC charges Calculation	30.01.2019	ERPC, Kolkata
16	Mtg. with NTPC	30.01.2019	ERPC, Kolkata
17	Special Meeting on RGMO/FGMO & PSS Tuning of Generators in ER	31.01.2019	ERPC, Kolkata

EFFECTIVE CAPACITY OF EASTERN REGIONAL GRID



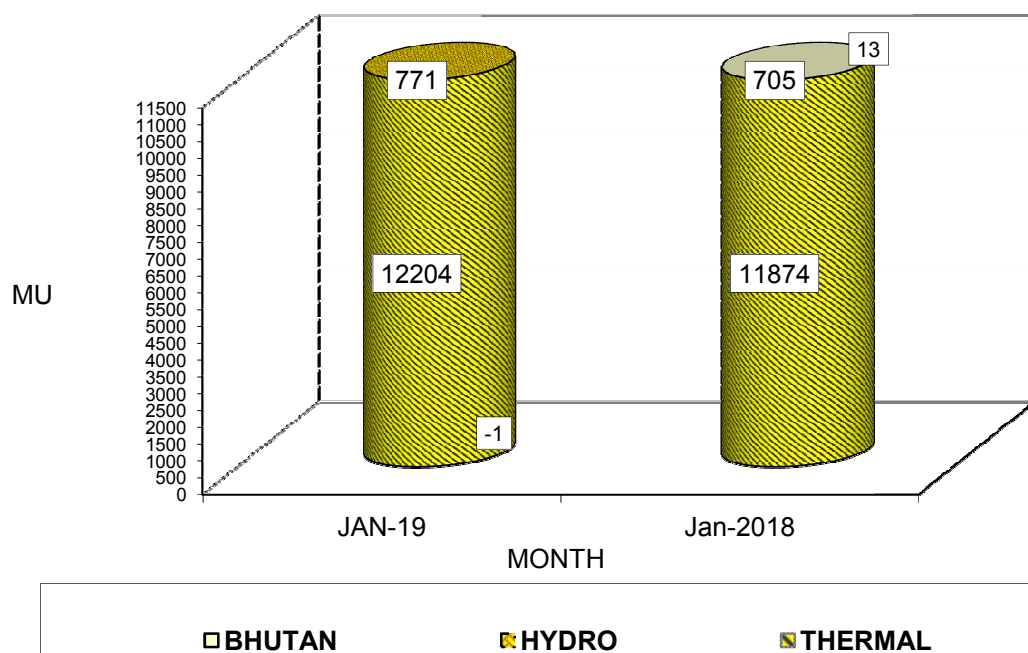
*Excludes 1350 MW contribution from HEPs of Bhutan

GENERATION CORRESPONDING TO PEAK DEMAND MET

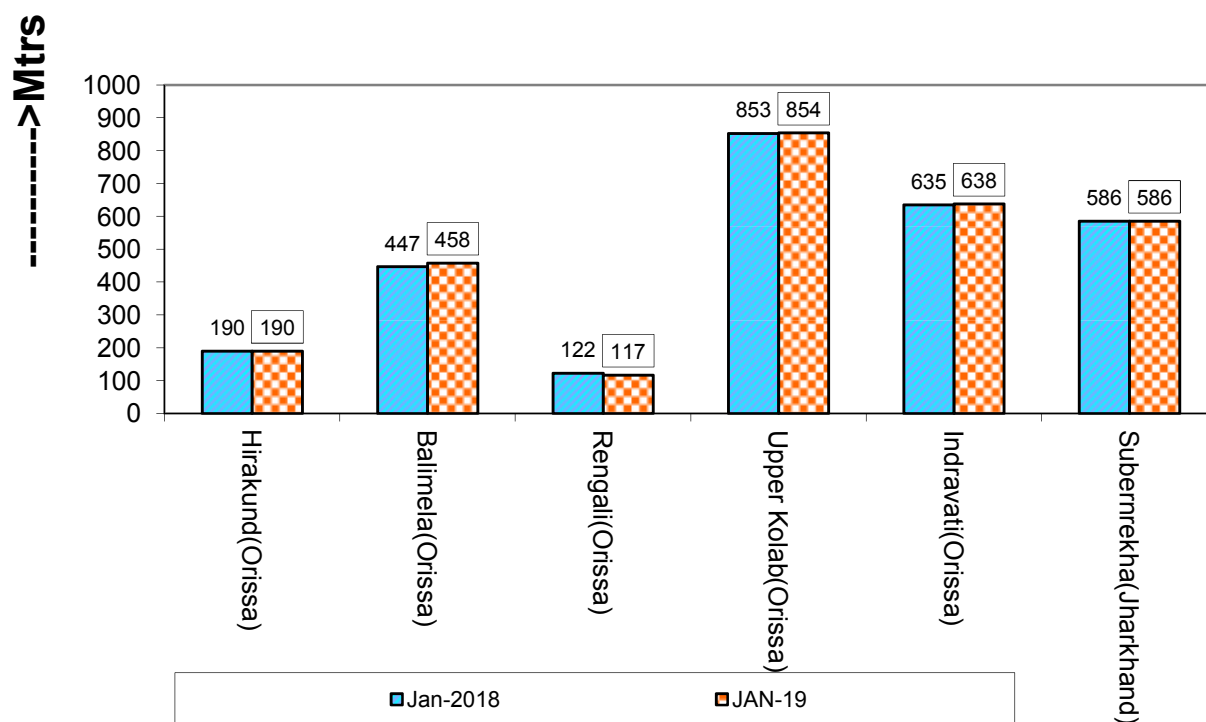


*Includes contribution from HEP of Bhutan

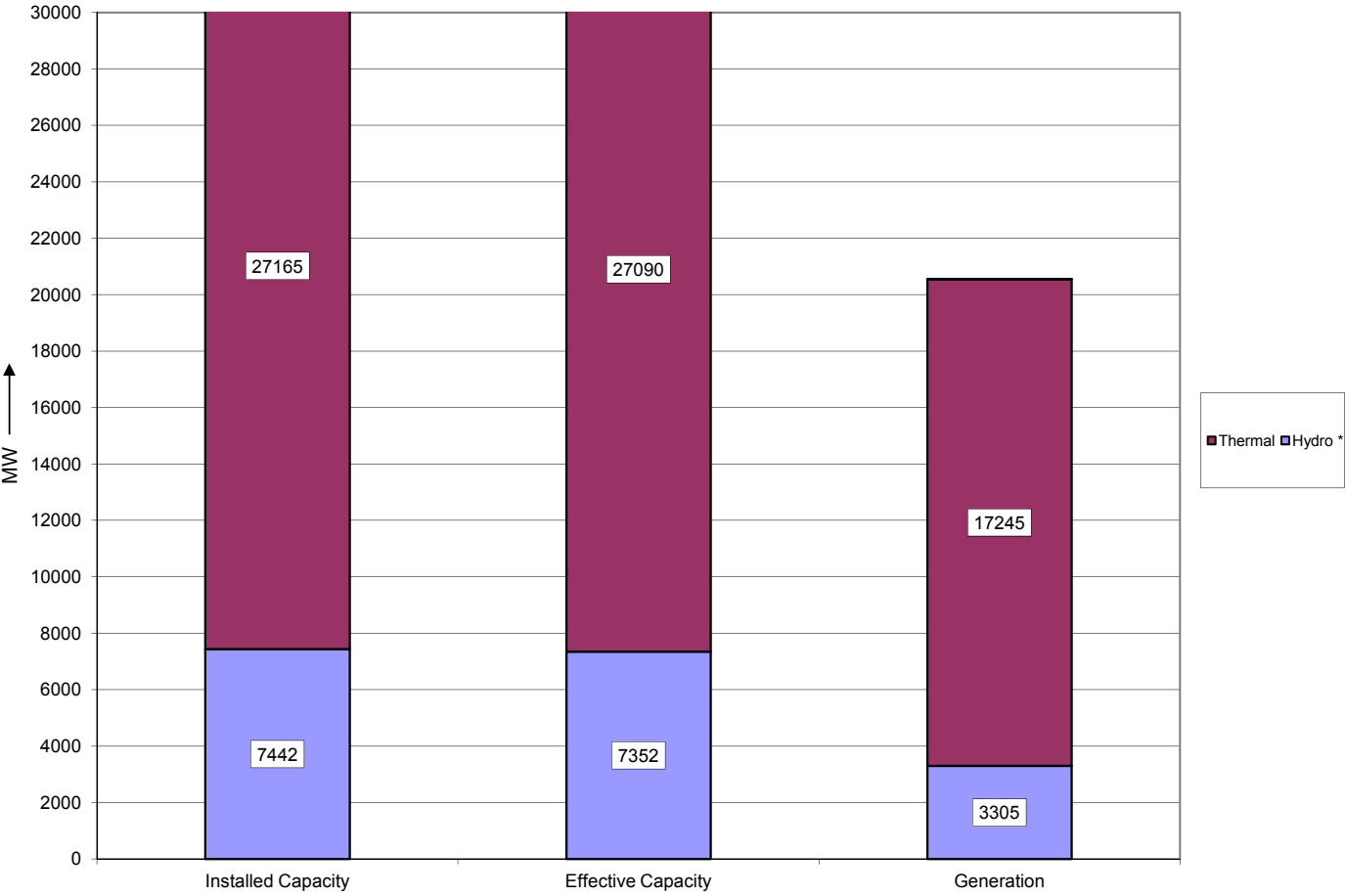
NET ENERGY GENERATION



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

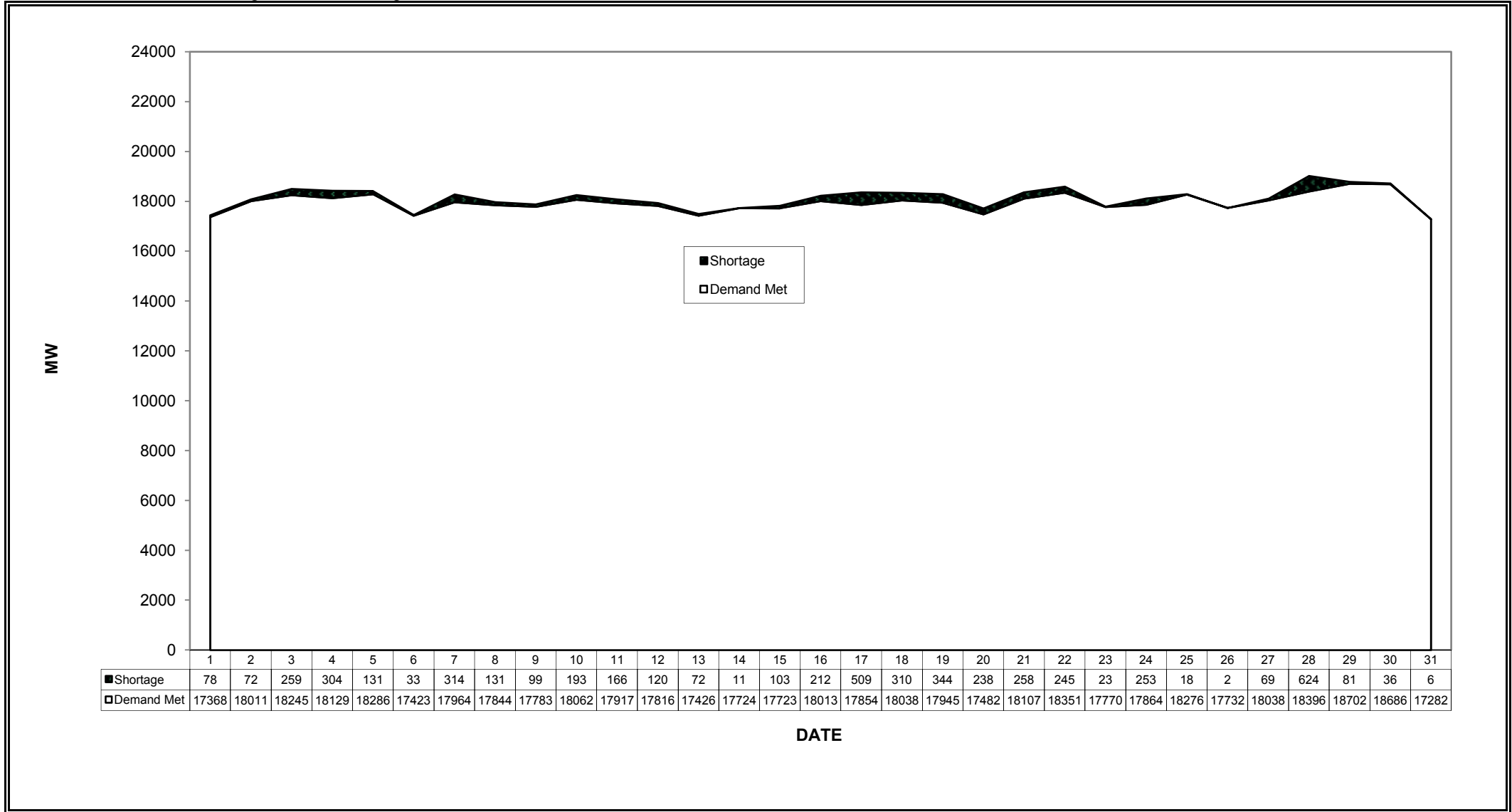


Capacity / Actual Generation Pattern of ER on Peak Day (29-1-2019) at 19.00 hrs.

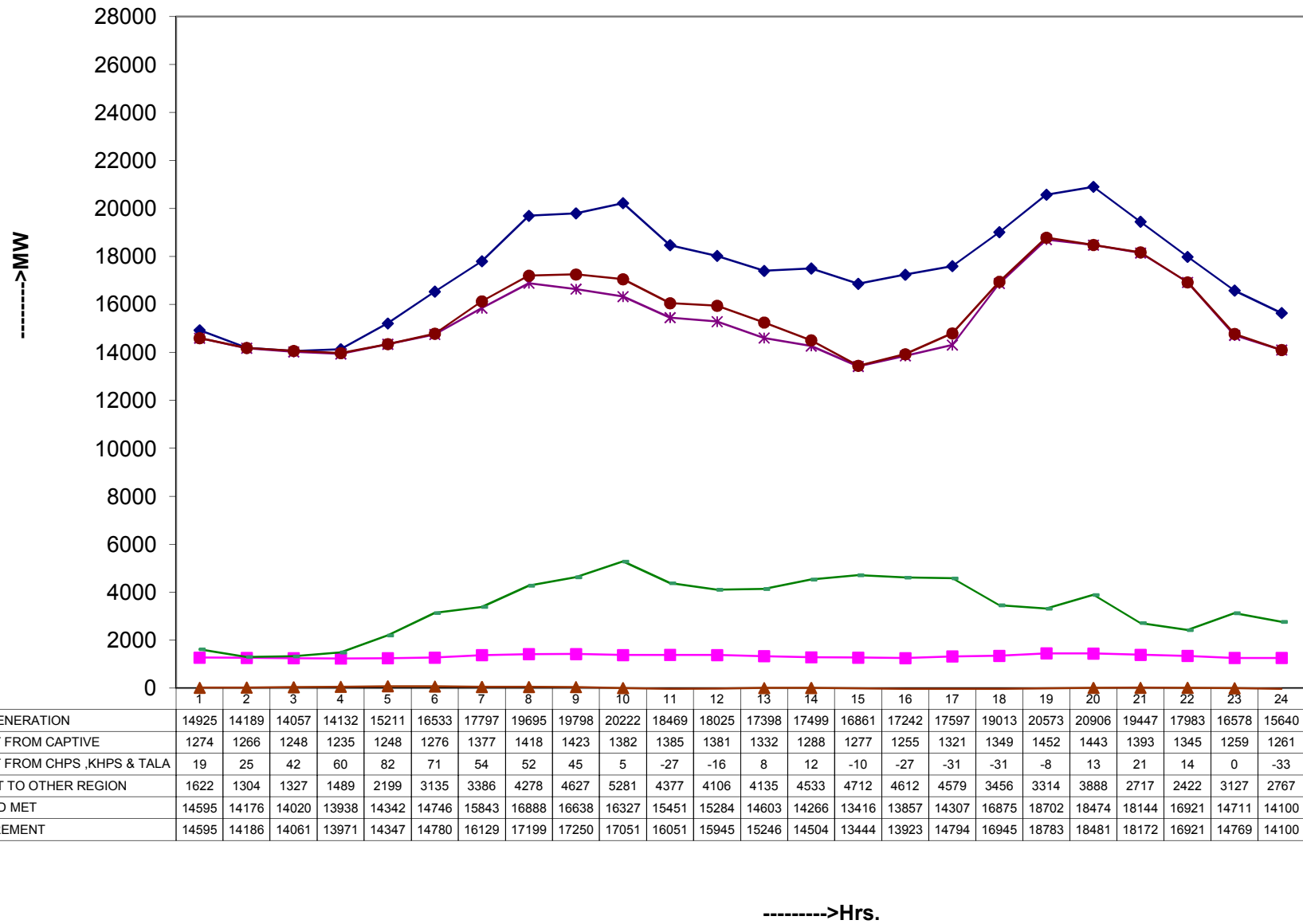


(*)--Includes contribution from HEP of Bhutan (Chukka, Kurichhu & Tala)

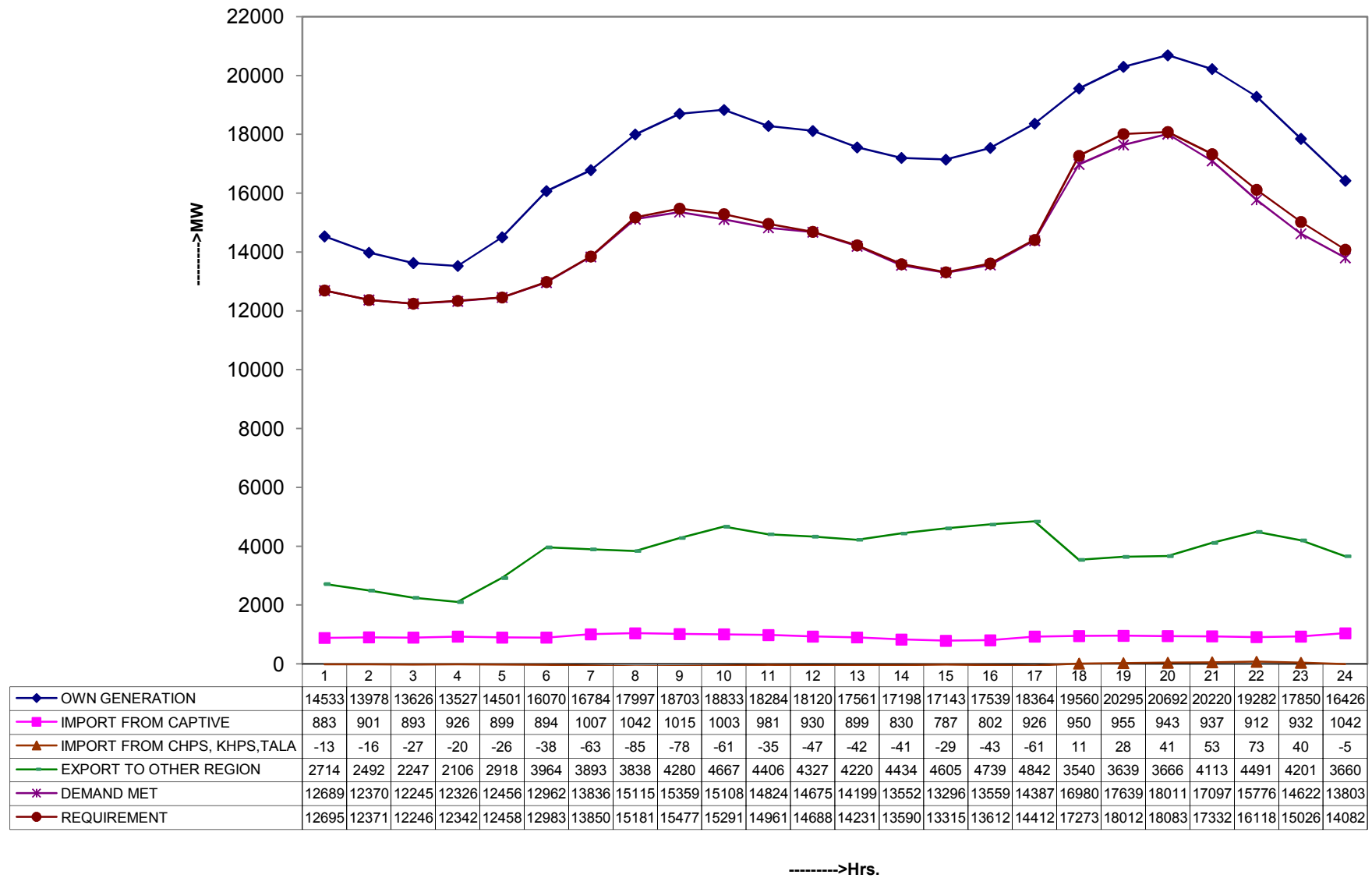
Peak Demand Met / Shortage of Eastern Region For The Month Of JANUARY'2019



Hourly Load Generation Data OF ER On Regional Peak Day During The Month of JANUARY'2019 (29-1-2019)

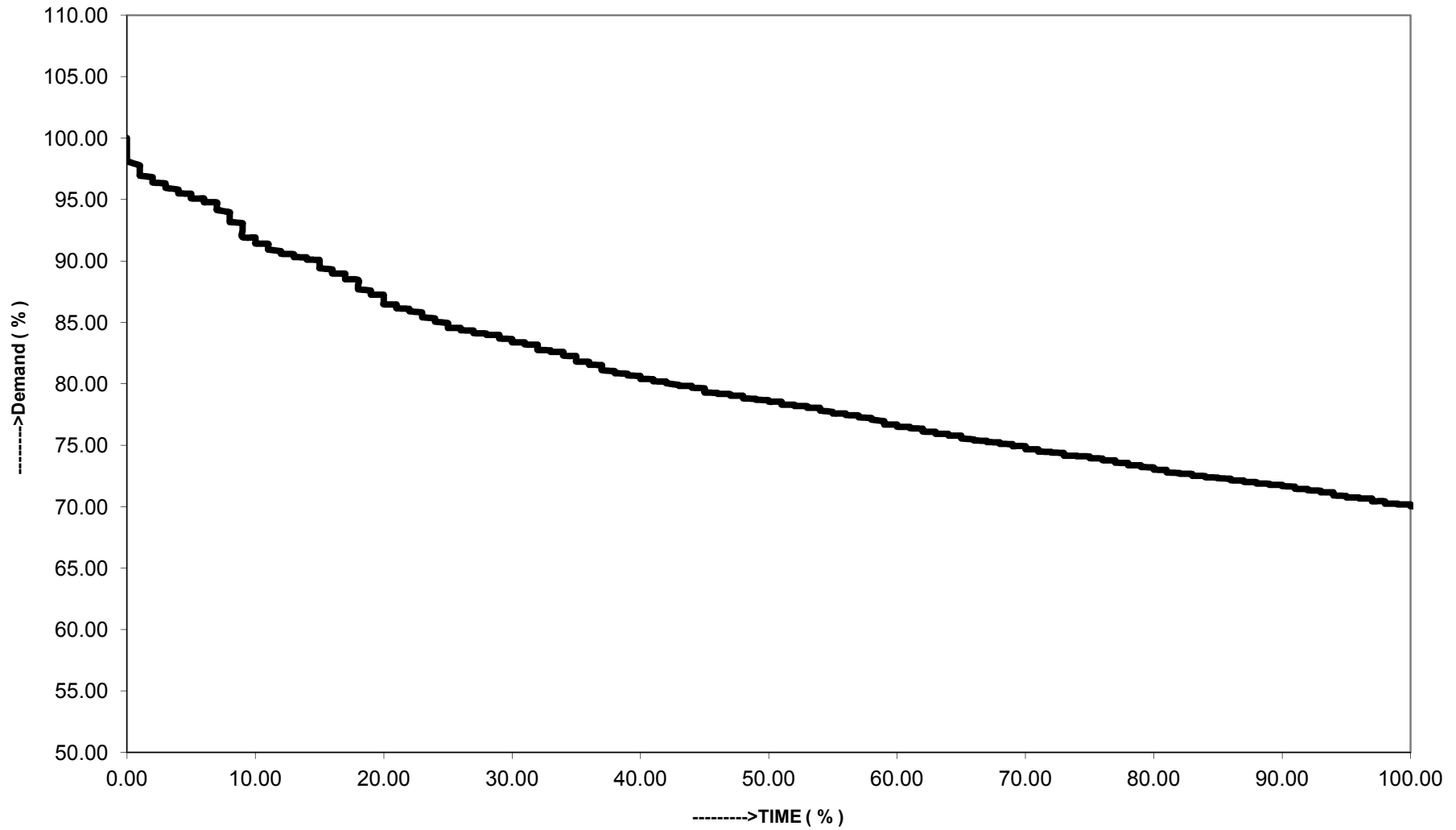


Hourly Load Generation Data of ER On Regional Lean Day During The Month of JANUARY'2019 (2-1-2019)



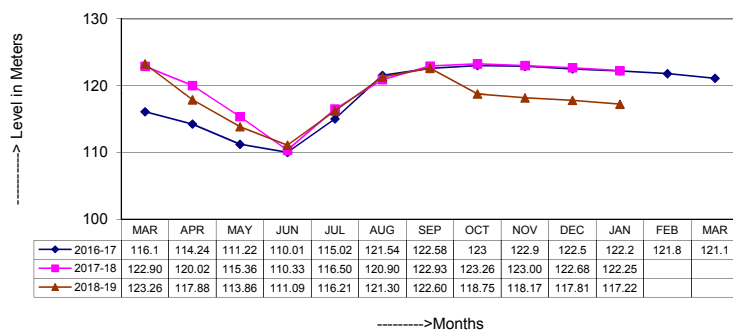
Monthly Load Duration Curve of Eastern Region for JAN-19

Maximum Demand met : 18702 MW
Minimum Demand met: 12245 MW

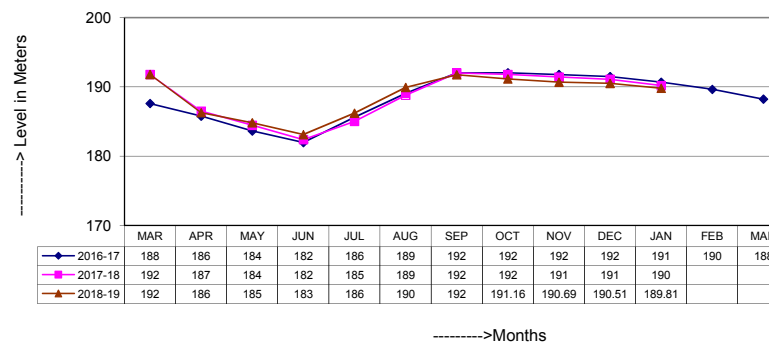


WATER LEVEL IN MAJOR RESERVOIRS ON LAST DATE OF MONTH

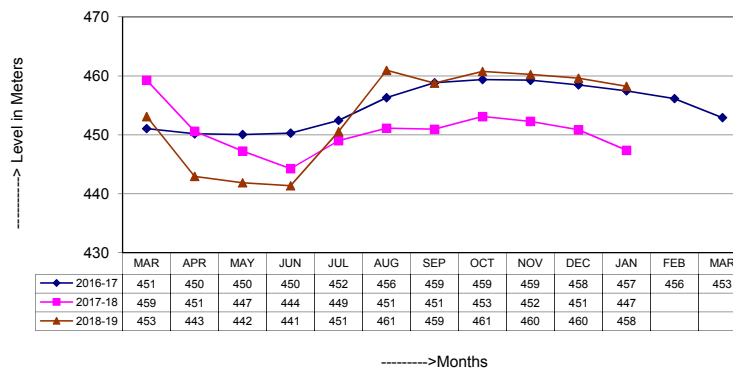
RENGALI RESERVOIR LEVEL



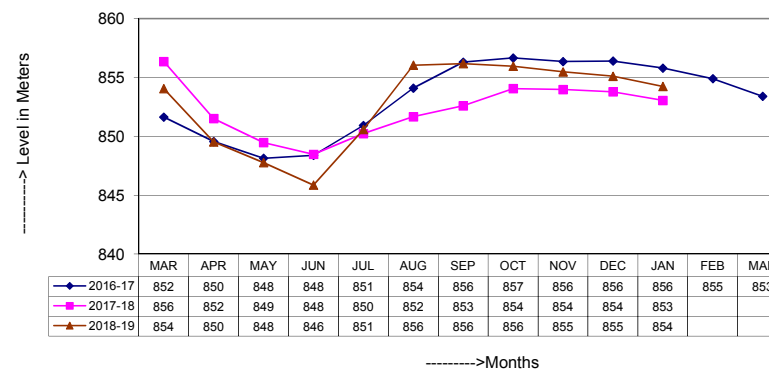
HIRAKUD RESERVOIR LEVEL



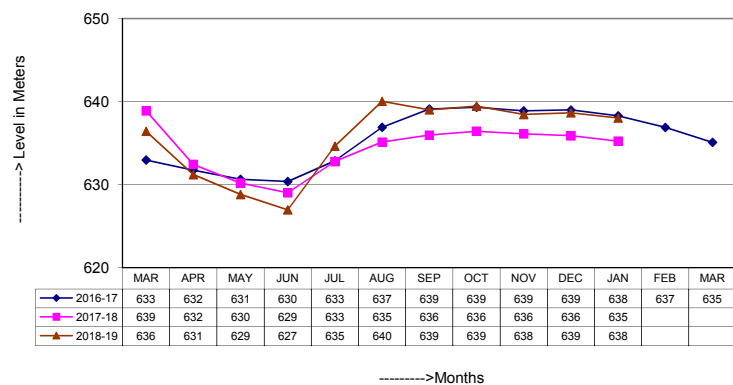
BALIMELA RESERVOIR LEVEL



UPPER KOLAB RESERVOIR LEVEL



INDRAVATI RESERVOIR LEVEL



SUBERNREKHA RESERVOIR LEVEL

