



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

फरवरी- 2019

February-2019



14, गोल्फ क्लब रोड, टोलीगंज

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Highlights of Eastern Regional Power System for February-2019

- The **Maximum Net Demand** met of **Eastern Region (ER)** during the month of **Feb, 2019** was **18921 MW** which is marginally more than the **Feb, 2018** (18918 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 **Feb, 2019** was **356.66 MU** excluding export, which is 1.3% less than the corresponding period of last year (361.36 MU).
- **The Average regional PLF of thermal units during the month is 66.58%**, which is 1.39% less than the corresponding period of the last year (**67.97%**).
- NTPC (TTPS) registered the highest **PLF** of 101.44%, followed by CESC(Budge-Budge) 93.71% WBPDC (Santalidih TPS) 90.33%, and WBPDC(Bakreswar TPP) 88.30% during the month of **Feb, 2019**.
- **Maximum Net generation** of ER was **22881 MW** against total **Effective Capacity of 35578.43 MW** (including import from Bhutan). At the time of Regional peak (18921 MW on 22.02.2019 at 20.00 hrs.) the generation was 22623 MW and import from CPP was 1181 MW, Net export was 4883 MW.
- The system frequency in the IEGC recommended band (49.9 Hz to 50.05 Hz) remained for 70.73% of time during the month. **Average frequency** for the month was **49.99 Hz**. The instantaneous maximum and the minimum frequency touched were 50.26 Hz and 49.68 Hz respectively. The integrated (Fifteen minutes time block average) maximum and minimum frequency were **50.17 Hz** and **49.75 Hz** respectively (**refer Annexure-I**).
- The **Maximum Voltage** recorded **431 KV** at Binaguri 400 KV S/s whereas the minimum voltage recorded 386 KV at Muzaffarpur 400 KV S/s of Power grid.
- The **Maximum Export** from ER to outside region was 7259 MW (including Nepal and Bangladesh) on 11th Feb, 2019 at 13:00 hrs. Total net energy export during the month was 2804.70 MU which corresponds to 23.24 % of ex-bus total generation 12073.76 MU) of Eastern Region.
- The import from CPPs was 717.37 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	4323	0	1687.80
WR	856	2783	-628.58
SR	3441	0	1434.4
NER	606	871	-286.34
BANGLADESH	873	0	433.81
NEPAL (via-CTU)	266	0	163.03
Total(Net)	6454		2804.7
NEPAL by Bihar(NBPDCL)			112.62

SALIENT FEATURES

(YEAR TO YEAR COMPARISON)

		Feb-19	FEB-2018	CHANGE	% CHANGE
1)	Effective Capacity (end of the Month)				
	THERMAL (MW)	27340	27810	-470	-1.69
	HYDRO (MW)	5876 \$	5947	-71	-1
	DIESEL (MW)	0	7	-7	0
	RES (MW)	886	10	0	0
	TOTAL (MW)	34102	33774	328	0.97
2)	Peak Demand (MW)	18923	19226	-304	-1.58
3)	Peak Demand Met (MW)	18921	18918	3	0.01
4)	Shortage (MW)	2	308	-306	-99.48
5)	% Shortage	0.01	1.60	-1.59	-99.47
6)	Average Energy Requirement Per Day (MU)	357.25	364.11	-6.85	-1.88
7)	Average Energy Availability Per Day (MU)	356.66	361.36	-4.70	-1.30
8)	Average Shortage Per Day (MU)	0.59	2.13	-1.53	-72.02
9)	% Shortage	0.17	0.59	-0.42	-71.57
10)	Net Generation for the Month				
	Thermal (MU)	11274.86	11760.85	-485.99	-4.13
	Hydro (MU)	724.03 *	645.92	78.11	12.09
	RES (MU)	74.86	0.00	0.00	-
	Total (MU)	12073.76	12432.75	-359.00	-2.89
11)	Generation at the Time of Max. Regional Demand Met (22-02-19 at 20.00 Hrs.)				
	Thermal (MW)	18676	19108	-431	-2.26
	Hydro (MW)	3922 *	2349	1572	66.93
	RES(MW)	25	0	25	-
	Total (MW)	22623	21457	1166	5.44
12)	Inter-Regional Energy Transfer				
	Export (MU)	3719.62	3134.87	584.74	18.65
	Import (MU)	914.92	285.73	629.19	220.20
	Net Exp.(+)/Net Imp.(-) (MU)	2804.70	2849.14	-44.44	-1.56
13)	Import From Captive(MU)	717.37	560.19	157.18	28.06
14)	Peak Inter Regional Power Transfer				
	Max Export (MW) on 11-02-19 at 13.00Hrs	7259	6083	1176	19.33
	Max Import (MW) on 21-02-19 at 01.00Hrs	3196	1958	1238	63.22
	Max Net Export(+)/Import (-) (MW)	6454	6669	-215	-3.22
15)	Maximum voltage recorded	431	BINAGURI	400 kv	s/s
16)	Minimum voltage recorded	386	MUZAFFARPUR	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 FEBRUARY'2019

A) Net Average Energy Per Day

System	Demand Met (MU/Day)	Requirement (MU/Day)	Shortage (MU/Day)	% Shortage
BSPHCL	70.96	71.17	0.21	0.30
JUVNL	22.94	23.29	0.35	1.52
DVC	62.15	62.20	0.05	0.08
ODISHA	75.39	75.41	0.02	0.03
WBSIEDCL	100.35	100.78	0.42	0.42
CESC	22.74	22.74	0.01	0.03
SIKKIM	1.66	1.66	0.00	0.03
REGION	356.66	357.25	0.59	0.17

B) Peak Demand in MW:

System	Demand Met (MW)	Requirement (MW)	Shortage (MW)	% Shortage
BSPHCL	4126	4130	4	0.10
JUVNL	1264	1265	1	0.07
DVC	3098	3100	2	0.06
ODISHA	4264	4272	8	0.18
WBSIEDCL	5611	5620	9	0.17
CESC	1439	1439	0	0.0
SIKKIM	104	104	0	0.00
REGION	18921	18923	2	0.01

➤ **DIVERSITY FACTOR** **1.05**

➤ **Regional Peak Demand Met on 22-2-2019 at 20.00 hrs. at 50 Hz.**

CONSTITUENT-WISE PERFORMANCE DATA FEBRUARY-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(+) Net Export(-)	Consumption(MU)	Cons.(MU)	Demand Met (MW)	Demand Met (MW)
BSPHCL	0.00	102.29	48.24	150.53	0.00	11.12	0.00	11.12	0.00	91.17	48.24	139.41	0.00	1847.35	1986.76	71.0	4126	4148
JUVNL	1.29	130.14	0.00	131.43	0.00	15.83	0.00	15.83	1.29	114.31	0.00	115.60	42.92	483.80	642.32	22.9	1264	1291
DVC	3.80	3146.79	0.00	3150.59	0.05	201.97	0.00	202.01	3.75	2944.82	0.00	2948.58	19.18	-1227.51	1740.25	62.2	3098	3454
ODISHA(OPGC+OHPC+TTPS)	347.17	536.65	23.93	907.75	3.43	58.02	0.00	61.46	343.74	478.63	23.93	846.29	537.61	726.93	2110.82	75.4	4264	4362
WBPDC+WBSEDCL+DPL	97.62	1996.10	0.48	2094.20	0.00	177.13	0.00	177.13	97.62	1818.97	0.48	1917.06	117.67	775.13	2809.86	100.4	5611	5946
CESC	0.00	482.73	0.00	482.73	0.00	35.32	0.00	35.32	0.00	447.41	0.00	447.41	0.00	189.24	636.65	22.7	1439	1505
HEL	0.00	311.69	0.00	311.69	0.00	23.38	0.00	23.38	0.00	288.32	0.00	288.32	0.00	-288.32				
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	45.55	46.55	1.7	104	104
NTPC	0.00	4041.39	0.00	4041.39	0.00	287.35	0.00	287.35	0.00	3754.04	0.00	3754.04	0.00	-3754.04				
MPL	0.00	593.43	0.00	593.43	0.00	33.02	0.00	33.02	0.00	560.41	0.00	560.41	0.00	-560.41				
APNRL	0.00	181.49	0.00	181.49	0.00	14.85	0.00	14.85	0.00	166.64	0.00	166.64	0.00	-166.64				
GMR	0.00	343.77	0.00	343.77	0.00	19.77	0.00	19.77	0.00	324.00	0.00	324.00	0.00	-324.00				
JITPL	0.00	304.55	0.00	304.55	0.00	18.42	0.00	18.42	0.00	286.13	0.00	286.13	0.00	-286.13				
NHPC (Inc TLDP= 31.06 MU)	118.63	0.00	0.00	118.63	0.00	0.00	0.00	0.00	118.63	0.00	0.00	118.63	0.00	-118.63	0.00			
CHPC(Birpara Receipt)	4.82	0.00	0.00	4.82	0.00	0.00	0.00	0.00	4.82	0.00	0.00	4.82	0.00	-4.82	0.00			
KHPS	-12.76	0.00	0.00	-12.76	0.00	0.00	0.00	0.00	-12.76	0.00	0.00	-12.76	0.00	12.76	0.00			
THPS	3.38	0.00	0.00	3.38	0.00	0.00	0.00	0.00	3.38	0.00	0.00	3.38	0.00	-3.38	0.00			
DAGACHU HPS	10.58	0.00	0.00	10.58	0.00	0.00	0.00	0.00	10.58	0.00	0.00	10.58	0.00	-10.58	0.00			
CHUZACHEN HPS	3.71	0.00	0.00	3.71	0.00	0.00	0.00	0.00	3.71	0.00	0.00	3.71	0.00	-3.71	0.00			
JORHANG HPS	8.85	0.00	0.00	8.85	0.00	0.00	0.00	0.00	8.85	0.00	0.00	8.85	0.00	-8.85	0.00			
TEESTA-III HPS	125.68	0.00	0.00	125.68	0.00	0.00	0.00	0.00	125.68	0.00	0.00	125.68	0.00	-125.68	0.00			
DIKCHU HPS	4.94	0.00	0.00	4.94	0.00	0.00	0.00	0.00	4.94	0.00	0.00	4.94	0.00	-4.94	0.00			
TASHIDING HPS	9.79	0.00	0.00	9.79	0.00	0.00	0.00	0.00	9.79	0.00	0.00	9.79	0.00	-9.79	0.00			
TALCHER SOLAR	0.00	0.00	1.22	1.22	0.00	0.00	0.00	0.00	0.00	0.00	1.22	1.22	0.00	-1.22				
Total Drawal by HVDC Sahsaram, Alipurduar, BRBCL, Indbharat and OPGC														13.21	13.21			
Total	727.51	12171.03	74.86	12973.40	3.48	896.18	0.00	899.66	724.03	11274.85	74.86	12073.74	717.37	-2804.70	9986.41	356.66	18921	20424

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	356.66	357.25	0.59	0.17	49.99
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	18921	18923	2	0.01	49.99
MARCH	20567	20951	384	1.87	49.97	-	-	-	-	-

	FROM	Cumulative from	01-Apr-18	to	28/Feb/19	During February -19						
		ENTITLEMENT (EX-BUS)	DRAWAL SCHEDULE (EX-BUS)	BILATERAL [EXPORT(-) / IMPORT(+)] (EX-SELLER BUS)	NET DRAWAL SCHEDULE (AFTER LOSS)	ACTUAL DRAWAL	ENTITLEMENT (EX-BUS)	DRAWAL SCHEDULE (EX-BUS)	BILATERAL [EXPORT(-) / IMPORT(+)] (EX-SELLER BUS)	NET DRAWAL SCHEDULE (AFTER LOSS)	ACTUAL DRAWAL	
						FROM GRID					FROM GRID	
BSPHCL	FARAKKA STPS I	3250.52	3045.78				302.26	243.69				
	FARAKKA STPS III	897.94	792.13				75.90	56.88				
	KAHALGAON STPS I	2355.86	2081.26				210.00	171.54				
	KAHALGAON STPS II	498.27	519.10				46.12	43.55				
	TALCHER STPS I	2406.14	2387.79				219.05	210.58				
	MTPS-II	1714.40	1558.11				173.44	137.45				
	BRBCL	229.89	226.03				29.96	30.49				
	Rly BRBCL	234.23	216.43				31.36	30.52				
	BARH STPS II	6882.26	6553.79				513.92	488.17				
	RANGIT HEP	112.18	228.94				3.96	3.96				
	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	524.28	524.28				16.26	16.26				
	TOTAL	20175.28	19201.79	7534.43	26554.86	26445.83	1622.23	1433.09	413.37	1824.40	1811.80	
JUVNL	FARAKKA STPS I	887.66	808.15				82.56	68.71				
	FARAKKA STPS III	571.90	486.81				48.51	46.22				
	KAHALGAON STPS I	180.17	189.81				16.06	15.49				
	KAHALGAON STPS II	124.93	167.53				11.56	13.03				
	TALCHER STPS I	447.34	440.99				40.75	38.45				
	MTPS-II	78.51	79.93				7.94	7.86				
	BARH STPS II	639.11	558.14				46.12	38.08				
	RANGIT HEP	42.74	42.74				1.51	1.51				
	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	304.30	304.30				9.44	9.44				
	TOTAL	3735.11	3511.88	1448.03	5633.56	5820.96	264.45	238.79	173.93	469.97	474.47	
	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		17.53	21.84				1.06	0.77				
MTPS-II		88.10	70.30				6.01	4.42				
BRBCL		406.28	429.84				47.04	48.53				
RANGIT HEP		40.11	32.05				1.13	1.13				
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		310.77	213.06				6.61	6.61				
TOTAL		1221.23	1252.35	-12629.62	-11216.87	-10554.22	61.85	61.46	-1294.15	-1234.95	-1227.51	
GRIDCO		FARAKKA STPS I	1468.38	1442.69				136.55	125.33			
		FARAKKA STPS III	580.97	535.43				49.09	40.64			
	KAHALGAON STPS I	887.86	845.89				79.14	66.68				
	KAHALGAON STPS II	262.20	384.36				24.27	37.30				
	TALCHER STPS (Stg-I	1891.25	1879.06				171.79	166.50				
	TALCHER STPS (Stg-II	0.00	0.00				0.00	0.00				
	MTPS-II	195.00	13.71				19.73	0.95				
	BARH STPS II	1306.31	1225.95				77.05	74.46				
	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	507.74	507.74				15.74	15.74				
	TOTAL	7405.15	7166.68	3655.60	11391.48	12219.45	573.36	527.60	70.15	695.41	712.92	
	WBSEDCL	FARAKKA STPS I	3295.09	3191.40				316.25	302.70			
FARAKKA STPS III		1144.66	1067.34				110.36	101.66				
KAHALGAON STPS I		137.71	145.90				35.06	34.60				
KAHALGAON STPS II		91.97	115.94				8.51	9.10				
TALCHER STPS I		585.66	570.45				53.80	51.16				
MTPS-II		220.31	172.17				22.29	17.13				
RANGIT HEP		90.84	88.70				3.21	3.21				
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		590.79	591.35				18.34	18.34				
TOTAL		7673.22	7077.92	5812.06	12970.56	13583.93	567.82	537.90	114.30	641.84	635.17	
SIKKIM		FARAKKA STPS I	168.74	149.31				15.69	12.53			
		FARAKKA STPS III	8.36	8.00				0.00	0.00			
		KAHALGAON STPS I	82.28	79.35				7.78	6.35			
	KAHALGAON STPS II	29.64	28.85				3.06	2.57				
	TALCHER STPS I	140.01	139.54				12.75	12.33				
	MTPS-II	12.67	12.59				1.28	1.24				
	BARH STPS II	118.94	109.86				8.58	6.76				
	RANGIT HEP	42.74	42.74				1.51	1.51				
	CHUKHA HEP	19.04	31.83				0.00	0.00				
	KIRUCHHU HEP	0.00	0.00				0.00	0.00				
	TEESTA HEP	325.26	325.26				10.09	10.09				
	TOTAL	947.69	927.33	-248.33	479.49	458.59	60.74	53.38	22.72	45.70	44.67	
	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	-2654.46	-2341.61				-245.71	-206.07			
TALCHER STPS I		0.00	0.00				0.00	0.00				
BARH STPS II		0.00	0.00				0.00	0.00				
BRBCL		-847.81	-527.33				-103.53	94.34				
TOTAL		-3502.26	-2868.94	727.36	2344.68	13018.03	-349.24	-111.73	-107.30	228.02	628.58	
SR	FARAKKA STPS I	-211.35	-208.07				-19.65	-22.90				
	FARAKKA STPS III	-24.85	-29.14				-2.10	-2.83				
	KAHALGAON STPS I	-77.77	-95.40				-6.93	-9.02				
	KAHALGAON STPS II	-76.36	-99.60				-7.07	-13.76				
	TALCHER STPS STG-I	-91.18	-91.18				-8.30	-8.05				
	MTPS-II	-6.38	-20.88				-0.65	-1.74				
	BARH STPS II	-60.93	-66.39				-4.40	-4.39				
	TOTAL	-548.82	-605.52	-5366.57	-7997.56	-11597.16	-49.10	-62.69	-856.93	-1391.79	-1407.07	
	NR	FARAKKA STPS I	-695.78	-539.99				-54.88	-32.57			
KAHALGAON STPS I		-1659.90	-1301.91				-125.17	-81.71				
KAHALGAON STPS II		-5590.53	-4504.78				-519.48	-365.72				
TALCHER STPS I		0.00	0.00				0.00	0.00				
BRBCL		-431.11	-413.52				-61.49	-65.90				
TALA HPS		-479.50	-381.05				0.00	0.00				
TOTAL	-8856.81	-7141.26	-12549.73	-12947.39	-18285.58	-761.02	-545.90	-385.95	-975.29	-1655.28		
WR+SR+NR (GRAND TOTAL)		-12907.89	-10615.72	-17188.93	-18600.28	-16864.72	-1159.36	-720.32	-1350.18	-2139.06	-2433.77	
NER	FARAKKA STPS I	-342.75	-269.10				-31.88	-25.99				
	FARAKKA STPS III	-3.11	-3.23				-0.26	-0.26				
	KAHALGAON STPS I	-166.28	-173.81				-14.82	-14.22				
	KAHALGAON STPS II	-518.82	-445.87				-48.02	-45.45				
	TALCHER STPS I	-170.71	-166.10				-15.67	-15.13				
TOTAL		-1201.67	-1058.10	-35.54	-251.18	-1954.73	-110.65	-101.05	-123.20	-141.22	286.34	

PERFORMANCE OF GENERATING STATIONS IN THE EASTERN REGION DURING THE MONTH OF FEBRUARY'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
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	102.29	91.17	634.38	556.52
		Thermal Total	440.00	430.00	102.29	91.17	679.24	595.99
	RES		327.40	327.40	48.24	48.24	302.70	302.70
		Total BIHAR	767.40	757.40	150.53	139.41	981.94	898.69
JHARKHAND								
TVNL	Thermal	TVNL	420.00	420.00	130.14	114.31	1568.74	1368.95
JSEB	Hydro	Subarnrekha (U#1,2)	130.00	130.00	1.29	1.29	96.51	96.51
	RES		29.72	29.72	0.00	0.00	0.00	0.00
	Total	159.72	159.72	1.29	1.29	96.51	96.51	
DVC	Thermal	Bokaro-B(3)	210.00	210.00	11.27	9.68	620.06	543.10
		Chandrapura (3)	140.00	130.00	0.00	0.00	0.00	0.00
		Chandrapura(U7 # 8)	500.00	500.00	208.98	189.15	3373.76	3064.82
		Durgapur(4)	210.00	210.00	33.17	27.91	880.97	769.47
		Mezia(1,2,3,4,5,6)	1340.00	1340.00	642.07	578.59	6346.66	5692.87
		Mezia(U # 7,8)	1000.00	1000.00	557.25	531.67	5109.34	4847.12
		Bokaro-A(1,2)	500.00	500.00	264.73	250.41	2606.99	2456.05
		Durgapur STPS (U#1,2)	1000.00	1000.00	545.44	521.22	5700.71	5418.35
		Raghunathpur TPS (U#1,2)	1200.00	1200.00	350.59	327.98	2732.00	2541.81
		Koderma STPS (U#1,2)	1000.00	1000.00	533.31	508.21	5633.07	5360.04
	Total Thermal	7100.00	7090.00	3146.79	2944.83	33003.57	30692.96	
	Hydro	Maithon (U#1,2,3)	63.20	63.20	2.79	2.76	98.81	98.40
		Panchet (U#1,2)	80.00	80.00	1.01	1.00	78.36	77.60
		Tilaya (U#1,2)	4.00	4.00	0.00	-0.01	5.30	5.23
		Hydro Total	147.20	147.20	3.80	3.75	182.46	181.19
Total DVC		7247.20	7237.20	3150.59	2948.58	33186.03	30874.15	
WEST BENGAL								
WBPDC	Thermal	Bandel TPS	380.00	335.00	115.81	104.20	1238.16	1098.96
		Santalidih TPS(U#5&6)	500.00	500.00	303.50	279.90	3176.52	2906.49
		Kolaghat TPS	1260.00	1260.00	284.13	253.69	4135.37	3672.59
		Bakreswar TPP	1050.00	1050.00	623.07	569.50	6455.48	5861.72
		Sagardighi TPP	1600.00	1600.00	494.00	454.97	5441.91	4919.06
		Thermal Total	4790.00	4745.00	1820.51	1662.26	20447.43	18458.82
WBSEDCL	Hydro	Jaldhaka (3x9+2x4)	35.00	35.00	6.79	6.79	188.58	188.58
		Ramam (4x12.73)	51.00	51.00	8.59	8.59	228.04	228.04
		Teesta C.F. (3x3x7.3)	67.30	67.30	0.00	0.00	85.46	85.46
		Purulia PSS (4x225)	900.00	900.00	82.24	82.24	1038.89	1038.89
		Total Hydro	1053.30	1053.30	97.62	97.62	1540.96	1540.96
		RES	277.52	277.52	0.00	0.00	0.00	0.00
DPL	Thermal	DPPS (110+300+250 *)	660.00	660.00	175.59	156.71	2190.17	1959.92
		RES	5.00	5.00	0.48	0.48	5.55	5.55
	➤	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 FEBRUARY'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	10.41	9.46	269.49	244.56
		Budge-Budge (3x250)	750.00	750.00	472.32	437.95	5535.71	5110.19
		Total CESC	1125.00	1125.00	482.73	447.41	5805.20	5354.75
HEL	Thermal	HEL	600.00	600.00	311.69	288.32	4263.41	3940.80
		Total West Bengal	8510.82	8465.82	2916.55	2680.72	34277.24	31285.31
ODISHA (NTPC)	Thermal	Talcher-I	250.00	240.00	164.58	146.77	1773.32	1580.29
		Talcher-II	220.00	220.00	148.98	132.75	1515.49	1348.95
		Total Thermal	470.00	460.00	313.57	279.52	3288.81	2929.24
OPGC	Thermal	IB TPS	420.00	420.00	223.08	199.10	2810.89	2510.04
OHPC	Hydro	Hirakud-I (Burla)	275.50	275.50	14.77	14.63	365.55	363.26
		Hirakud-II (Chiplima)	72.00	72.00	9.27	9.22	155.42	154.69
		Balimela (6x60+2x75)	510.00	510.00	60.88	60.39	1612.81	1606.88
		Rengali (5x50)	250.00	250.00	19.29	19.20	818.13	816.89
		Upper Kolab (4x80)	320.00	320.00	66.44	66.10	841.00	837.74
		Indravati HPS (4x150)	600.00	600.00	150.31	148.01	1926.53	1890.34
		Mckd.(Odisha drawal)	57.38	57.38	26.21	26.21	244.16	244.16
		Total Hydro	2084.88	2084.88	347.17	343.74	5963.62	5913.96
		RES	184.30	184.30	23.93	23.93	169.87	169.87
		Total Odisha	3159.18	3149.18	660.74	599.28	11986.18	11276.11
(**) SIKKIM	Hydro	RES	52.11	52.11	1.00	1.00	25.00	25.00
NTPC		MTPS Stg-II	390.00	390.00	181.2598	161.86	2101.04	1875.58
		FSTPP# I&II (3x200+2x500)	1600.00	1600.00	867.33	808.89	10308.71	9606.01
		FSTPP (U# 6)	500.00	500.00	257.93	238.36	3283.39	3060.23
		KhSTPP (4x210+3x500)	2340.00	2340.00	1225.86	1137.22	15065.82	13984.89
		TSTPP (2x500)	1000.00	1000.00	547.67	505.56	6309.85	5792.23
		BARH STPS II (2X660)	1320.00	1320.00	634.53	599.34	9064.93	8594.85
		BRBCL # 1,2(2X250 MW)	500	500	293.43	276.97	2345.12	2175.80
		BRBCL # 3 (250MW)	250	250	33.38	25.84	42.56	32.11
		Total NTPC	7900.00	7900.00	4041.39	3754.05	48521.42	45121.71
NHPC	HYDRO	Rangit (3x20)	60.00	60.00	11.52	11.52	330.97	330.97
		Teesta (3x170)	510.00	510.00	78.71	78.71	2548.06	2548.06
		TLDP -(4x33+4x40)	292.00	292.00	28.41	28.41	1206.20	1206.20
		Total NHPC	862.00	862.00	118.63	118.63	4085.23	4085.23
		MPL (U#1&2)	1050.00	1050.00	593.43	560.41	6606.60	6231.81
		APNRL (U#1,2)	540.00	540.00	181.49	166.64	2630.32	2411.03
		GMR (2x350)	700.00	700.00	343.77	324.00	4069.08	3835.11
		JITPL (2X600)	1200.00	1200.00	304.55	286.13	3828.15	3568.17
		CHUZACHEN** (2x55)	110.00	110.00	3.71	3.71	404.02	402.79
		JORETHANG (2x48)	96.00	96.00	8.85	8.85	400.03	400.03
		TEESTA URJA St III (6x200)	1200.00	1200.00	125.68	125.68	4023.67	4023.67
		Tashilding (2x48.5)	97.00	97.00	9.79	9.79	410.47	410.47
		DICKCHU (2x48)	96.00	96.00	4.94	4.94	449.68	449.68
		TALCHER SOLAR	10.00	10.00	1.22	1.22	12.41	12.41
		Total Thermal (E.R)	27415.00	27340.00	12171.02	11274.86	139713.04	128979.29
		Total Hydro (E.R)	5876.38	5876.38	721.49	718.01	17556.65	17504.49
		Total RES	886.05	886.05	74.86	74.86	515.54	515.54
		TOTAL (E.R)	34177.43	34102.43	12967.38	12067.73	157785.22	146999.32
BHUTAN	Hydro	CHPC(4x90)	360.00	270.00	4.82	4.82	1319.62	1319.62
		Kurichu (4x15)	60.00	60.00	-12.76	-12.76	296.06	296.06
		TALA (6x170)	1020.00	1020.00	3.38	3.38	2393.34	2393.34
		DAGACHU (2x63)	126.00	126.00	10.58	10.58	338.28	338.28
		Grand Total	35743.43	35578.43	12973.40	12073.76	162132.51	151346.60

PLANT LOAD FACTOR (PLF) OF THERMAL POWER STATIONS IN EASTERN REGION DURING THE MONTH OF FEBRUARY' 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	2.66
		Muzaffarpur Stg-I	220.00	220.00	102.29	69.19	634.38	35.97
		Thermal Total	440.00	430.00	102.29	35.40	679.24	19.71
	RES		327.40	327.40	48.24		302.70	
	Total BIHAR		767.40	757.40	150.53		981.94	
JHARKHAND								
TVNL	Thermal	TVNL	420.00	420.00	130.14	46.11	1568.74	46.60
JSEB	Hydro	Subarnrekha (U#1,2)	130.00	130.00	1.29		96.51	
	RES		29.72	29.72	0.00		0.00	
	Total		159.72	159.72	1.29		96.51	
DVC	Thermal	Bokaro-B(3)	210.00	210.00	11.27	7.99	620.06	36.83
		Chandrapura (3)	140.00	130.00	0.00	0.00	0.00	0.00
		Chandrapura(U7 # 8)	500.00	500.00	208.98	62.20	3373.76	84.18
		Durgapur(4)	210.00	210.00	33.17	23.51	880.97	52.33
		Mezia(1,2,3,4,5,6)	1340.00	1340.00	642.07	71.30	6346.66	59.09
		Mezia(U # 7,8)	1000.00	1000.00	557.25	82.92	5109.34	63.74
		Bokaro-A(1,2)	500.00	500.00	264.73	78.79	2606.99	65.04
		Durgapur STPS (U#1,2)	1000.00	1000.00	545.44	81.17	5700.71	71.12
		Raghunathpur TPS (U#1,2)	1200.00	1200.00	350.59	43.48	2732.00	28.40
		Koderma STPS (U#1,2)	1000.00	1000.00	533.31	79.36	5633.07	70.27
	Total Thermal		7100.00	7090.00	3146.79	66.05	33003.57	58.07
	Hydro	Maithon (U#1,2,3)	63.20	63.20	2.79		98.81	
		Panchet (U#1,2)	80.00	80.00	1.01		78.36	
		Tilaya (U#1,2)	4.00	4.00	0.00		5.30	
		Hydro Total		147.20	147.20	3.80		182.46
Total DVC			7247.20	7237.20	3150.59		33186.03	
WEST BENGAL								
WBPDC	Thermal	Bandel TPS	380.00	335.00	115.81	51.44	1238.16	46.11
		Santalidih TPS(U#5&6)	500.00	500.00	303.50	90.33	3176.52	79.25
		Kolaghat TPS	1260.00	1260.00	284.13	33.56	4135.37	40.94
		Bakreswar TPP	1050.00	1050.00	623.07	88.30	6455.48	76.70
		Sagardighi TPP	1600.00	1600.00	494.00	45.95	5441.91	42.43
		Thermal Total	4790.00	4745.00	1820.51	57.09	20447.43	55.35
WBSEDCL	Hydro	Jaldhaka (3x9+2x4)	35.00	35.00	6.79		188.58	
		Ramam (4x12.73)	51.00	51.00	8.59		228.04	
		Teesta C.F. (3x3x7.3)	67.30	67.30	0.00		85.46	
		Purulia PSS (4x225)	900.00	900.00	82.24		1038.89	
		Total Hydro	1053.30	1053.30	97.62		1540.96	
		RES	277.52	277.52	0.00		0.00	
	TLDP -(4x33+4x40)	292.00	292.00	28.41		1206.20		
DPL	Thermal	DPPS (110+300+250 *)	660.00	660.00	175.59	39.59	2190.17	41.40
		RES	5.00	5.00	0.48		5.55	

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	10.41	11.47	269.49	24.90
		Budge-Budge (3x250)	750.00	750.00	472.32	93.71	5535.71	92.08
		Total CESC	1125.00	1125.00	482.73	63.85	5805.20	64.37
HEL	Thermal		600.00	600.00	311.69	77.30	4263.41	88.64
		Total West Bengal	8510.82	8465.82	2916.55		34277.24	
ODISHA (NTPC)	Thermal	Talcher-I	250.00	240.00	164.58	102.05	1773.32	92.18
		Talcher-II	220.00	220.00	148.98	100.77	1515.49	85.94
		Total Thermal	470.00	460.00	313.57	101.44	3288.81	89.19
OPGC	Thermal	IB TPS	420.00	420.00	223.08	79.04	2810.89	83.49
OHPC	Hydro	Hirakud-I (Burla)	275.50	275.50	14.77		365.55	
		Hirakud-II (Chiplima)	72.00	72.00	9.27		155.42	
		Balimela (6x60+2x75)	510.00	510.00	60.88		1612.81	
		Rengali (5x50)	250.00	250.00	19.29		818.13	
		Upper Kolab (4x80)	320.00	320.00	66.44		841.00	
		Indravati HPS (4x150)	600.00	600.00	150.31		1926.53	
		Mckd.(Odisha drawal)	57.38	57.38	26.21		244.16	
		Total Hydro	2084.88	2084.88	347.17		5963.62	
		RES	184.30	184.30	23.93		169.87	
		Total Odisha	3159.18	3149.18	660.74		11986.18	
(**) SIKKIM	Hydro	RES	52.11	52.11	1.00		25.00	
NTPC		MTPS Stg-II	390	390	181.2598	69.16	2101.04048	67.21
		FSTPP# I&II (3x200+2x500)	1600.00	1600.00	867.33	80.67	10308.71	80.38
		FSTPP (U# 6)	500.00	500.00	257.93	76.76	3283.39	81.92
		KhSTPP (4x210+3x500)	2340.00	2340.00	1225.86	77.96	15065.82	80.32
		TSTPP (2x500)	1000.00	1000.00	547.67	81.50	6309.85	78.72
		BARH STPS II (2X660)	1320.00	1320.00	634.53	71.53	9064.93	85.67
		BRBCL # I,2(2X250 MW)	500.00	500.00	293.43	87.33	2345.12	58.51
		BRBCL # 3 (250MW)	250.00	250.00	33.38	18.8	42.56	18.80
		Total NTPC	7900.00	7900.00	4041.39	77.76	48521.42	79.04
NHPC	HYDRO	Rangit (3x20)	60.00	60.00	11.52		330.97	
		Teesta (3x170)	510.00	510.00	78.71		2548.06	
		TLDP -(4x33+4x40)	292.00	292.00	28.41		1206.20	
		Total NHPC	862.00	862.00	118.63		4085.23	
	Thermal	MPL (U#1&2)	1050.00	1050.00	593.43	84.10	6606.60	78.49
		APNRL (U#1,2)	540.00	540.00	181.49	50.01	2630.32	60.77
		GMR (2x350)	700.00	700.00	343.77	73.08	4069.08	72.52
		JITPL (2X600)	1200.00	1200.00	304.55	37.77	3828.15	39.80
		CHUZACHEN** (2x55)	110.00	110.00	3.71		404.02	
		JORETHANG (2x48)	96.00	96.00	8.85		400.03	
		TEESTA URJA St III (6x200)	1200.00	1200.00	125.68		4023.67	
		Tashilding (2x48.5)	97.00	97.00	9.79		410.47	
		DICKCHU (2x48)	96.00	96.00	4.94		449.68	
		TALCHER SOLAR	10.00	10.00	1.22		12.41	
		Total Thermal (E.R)	27415.00	27340.00	12171.02	66.58	139713.04	64.32
EASTERN REGIONAL		Total Hydro (E.R)	5876.38	5876.38	721.49		17556.65	
		Total RES	886.05	886.05	74.86		515.54	
		TOTAL (E.R)	34177.43	34102.43	12967.38		157785.22	
BHUTAN	Hydro	CHPC(4x90)	360.00	270.00	4.82		1319.62	
	Hydro	Kurichu (4x15)	60.00	60.00	-12.76		296.06	
	Hydro	TALA (6x170)	1020.00	1020.00	3.38		2393.34	
	Hydro	DAGACHU (2x63)	126.00	126.00	10.58		338.28	
		Grand Total	35743.43	35578.43	12973.40		162132.51	
		BRBCL U#3(250 MW)		Jan-19	Feb-19	Total		
		Infirm Generation (MU)		9.179	30.001	39.18		
		Firm Generation (MU)		Nil	3.383	3.383		
		Date of Commercial Operation		26.02.2019				

CONTRIBUTIONS OF DIFFERENT CONSTITUENTS AT THE TIME OF REGIONAL PEAK
DURING THE MONTH OF FEBRUARY'2019 (22-2-2019)

Date **22-Feb-19**
Time **20.00** Hrs.
Frequency **50.00** Hz.

(All Fig. in MW)

System/State	Installed Capacity	Effective Capacity	Hydro	Thermal	RES	Total
BSPHCL	767	757	0	139	0	139
JUVNL	580	580	0	171	0	171
DVC	7247	7237	39	5110	0	5149
ODISHA	3159	3149	1272	731	25	2029
WBSEDCL	6121	6076	618	2880	0	3498
TLDP	292	292	162	0	0	162
HEL HALDIA	600	600	0	536	0	536
CESC	1125	1125	0	783	0	783
DPL	665	665	0	0	0	0
SIKKIM	52	52	0	0	0	0
NTPC	7900	7900	0	6085	0	6085
NHPC	570	570	562	0	0	562
CHUKHA	360	270	23	0	0	23
KURICHU	60	60	-3	0	0	-3
TALA	1020	1020	16	0	0	16
MPL	1050	1050	0	988	0	988
APNRL	540	540	0	247	0	247
Kamalganga (GMR)	700	700	0	603	0	603
JITPL	1200	1200	0	402	0	402
Chuzachen	110	110	110	0	0	110
Jorethang	96	96	47	0	0	47
TEESTA URJA St III	1200	1200	980	0	0	980
Tashilding	97	97	23	0	0	23
DICKCHU	96	96	56	0	0	56
<u>Daghachu</u>	126	126	16	0	0	16
<u>Solar</u>	10	10	0	0	0	0
<u>0</u>	0	0	0	0	0	0
<u>Total</u>	35743	35578	3922	18676	25	22623
Import From Captive:						1181
Export To:						
NER						545
SR						2707
WR						-1685
NR						2335.17
Bangladesh						744.87
Nepal						237.06
Total						4883
➤ I Net Peak Demand Met (MW) :						18921

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

Hourly Load Generation Data OF ER On Regional Peak Day During The Month of FEBRUARY'2019 (22-2-2019)

(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	565	16288	16853	1084	25	2998	14964	35	3	15002
2	353	16011	16364	1089	19	2787	14684	15	3	14702
3	367	15997	16364	1083	21	3007	14461	28	4	14493
4	393	16105	16498	1076	17	2922	14669	51	4	14724
5	454	16170	16624	1093	3	2879	14840	19	4	14864
6	970	16850	17820	1099	-6	3574	15339	70	279	15688
7	1155	17429	18584	1105	-38	4095	15556	15	242	15813
8	2102	18084	20186	1103	-47	5140	16102	3	288	16393
9	2199	17834	20033	1106	-45	4861	16234	-6	286	16514
10	1999	18257	20256	1110	-41	5323	16002	10	5	16017
11	1113	17862	18975	1175	-23	3820	16307	-24	4	16311
12	1211	17810	19021	1188	-19	4284	15907	0	9	15915
13	912	17845	18757	1188	-12	4379	15555	15	0	15570
14	386	17076	17462	1189	0	3795	14856	3	2	14860
15	376	16818	17194	1142	21	3781	14576	-8	1	14577
16	573	17074	17648	1167	16	4161	14670	-1	4	14673
17	923	17869	18792	1138	-8	4792	15130	9	3	15142
18	1704	17838	19542	1155	20	4194	16522	-3	2	16524
19	3215	18419	21634	1191	22	3928	18918	-10	93	19001
20	3910	18676	22586	1182	37	4883	18921	-2	3	18923
21	2420	18308	20728	1176	50	3705	18250	-19	42	18273
22	1379	18333	19712	1157	78	3796	17152	-30	61	17183
23	1071	17811	18882	1181	110	4133	16041	-10	47	16078
24	976	16585	17562	1170	117	3260	15588	33	40	15661

Hourly Load Generation Data of ER On Regional Lean Day During The Month of FEBRUARY'2019 (9-2-2019)

(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	298	14735	15034	1025	82	4193	11947	3	31	11981
2	259	14112	14372	1033	21	3799	11627	-6	36	11657
3	240	13824	14063	1040	13	3838	11278	-33	44	11289
4	280	13643	13923	1037	11	3878	11093	-24	49	11118
5	335	13562	13897	1051	12	3855	11105	-17	52	11139
6	535	13880	14415	1047	39	4195	11307	-5	52	11354
7	843	14622	15464	1078	22	4189	12375	-18	52	12408
8	2059	15824	17884	1085	8	5211	13766	10	45	13821
9	2521	16916	19437	1060	2	6408	14091	1	31	14123
10	2182	17095	19277	1045	4	6454	13871	-24	21	13893
11	1134	17648	18783	1049	11	5859	13985	-37	16	14000
12	604	17914	18518	1014	14	5657	13889	-5	13	13897
13	586	17663	18249	1027	3	5585	13694	-28	8	13702
14	552	16886	17438	1103	16	5538	13019	-32	9	13029
15	321	16343	16664	994	20	5142	12536	0	12	12548
16	521	16429	16950	1035	41	5313	12712	4	17	12734
17	789	17090	17880	1025	48	5538	13414	6	20	13440
18	1977	17283	19260	1051	27	5077	15261	13	18	15293
19	3536	17878	21414	1025	54	4967	17526	43	12	17581
20	3227	17928	21155	1018	77	4552	17698	-14	10	17708
21	2243	17845	20088	999	122	4023	17186	-27	7	17193
22	1442	17658	19100	953	131	4095	16089	-10	1	16090
23	926	17154	18080	942	110	4488	14645	-9	2	14647
24	644	16045	16688	922	36	3566	14081	-16	1	14082

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

FOR THE MONTH OF FEBRUARY'2019

POWER CUT / RESTRICTIONS

BSPHCL	NO NOTIFIED CUTS/RESTRICTIONS However there was loadshedding of 5.52 MU
JUVNL	NO NOTIFIED CUTS/RESTRICTIONS However there was loadshedding of 9.78 MU
DVC	NO NOTIFIED CUTS/RESTRICTIONS. However there was loadshedding of 0.89 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 11.19 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

Feb-19

D A T E											INST. FREQ.				15 MIN. INTEGRATED			
	H O U R S																	
	00 TO 05	05 TO 10	10 TO 17	17 TO 22	22 TO 24	00 TO 24	<49.9 TO 50.1	49.9 TO 50.1	>50.05 TO 50.05	49.9 TO 50.05	MAX HZ	HRS.	MIN HZ	HRS.	MAX HZ	HRS.	MIN HZ	HRS.
01-Feb	49.99	49.96	49.96	49.97	49.99	49.97	11.50	75.60	12.90	75.60	50.17	0:28	49.68	10:04	50.08	0:00	49.81	0:00
02-Feb	49.99	49.98	49.95	50.00	49.99	49.98	7.39	78.29	14.32	78.29	50.19	0:14	49.80	4:33	50.09	0:00	49.86	0:00
03-Feb	49.98	49.93	49.98	50.00	49.99	49.97	12.30	71.70	16.00	71.70	50.23	0:43	49.71	4:33	50.13	0:00	49.79	0:00
04-Feb	50.02	50.00	50.00	49.99	50.00	50.00	3.00	73.70	23.30	73.70	50.17	0:14	49.80	2:52	50.13	0:00	49.92	0:00
05-Feb	50.01	50.00	49.98	49.97	49.99	49.99	7.70	73.00	19.30	73.00	50.21	0:14	49.76	1:26	50.09	0:00	49.87	0:00
06-Feb	49.95	49.98	49.99	50.00	49.99	49.98	11.10	69.70	19.20	69.70	50.20	0:43	49.72	2:52	50.09	0:00	49.85	0:00
07-Feb	50.00	50.03	50.02	49.99	50.04	50.01	2.20	65.30	32.50	65.30	50.24	0:43	49.83	1:26	50.16	0:00	49.91	0:00
08-Feb	50.04	49.96	50.02	50.00	50.03	50.01	4.40	66.10	29.50	66.10	50.24	0:43	49.79	8:38	50.12	0:00	49.86	0:00
09-Feb	50.04	50.02	50.03	50.00	50.03	50.02	2.90	57.70	39.40	57.70	50.25	0:57	49.79	9:36	50.14	0:00	49.86	0:00
10-Feb	50.00	49.99	50.02	50.02	50.04	50.01	1.30	72.40	26.30	72.40	50.20	0:14	49.81	4:48	50.10	0:00	49.91	0:00
11-Feb	50.04	50.01	50.00	50.00	50.02	50.01	1.60	67.60	30.80	67.60	50.24	6:28	49.85	6:00	50.17	0:00	49.92	0:00
12-Feb	49.99	49.99	49.98	49.99	49.97	49.98	6.00	77.00	17.00	77.00	50.17	0:14	49.82	4:04	50.10	0:00	49.87	0:00
13-Feb	49.96	49.98	50.00	49.96	49.99	49.98	10.20	76.10	13.70	76.10	50.21	13:02:10	49.77	04:11:00	50.13	0:00	49.84	0:00
14-Feb	49.96	49.99	49.96	49.97	49.97	49.97	11.20	74.50	14.30	74.50	50.18	06:02:50	49.75	18:40:30	50.08	0:00	49.82	0:00
15-Feb	49.97	49.94	50.02	49.97	50.03	49.98	12.10	69.80	18.10	69.80	50.22	13:02:40	49.79	09:16:40	50.15	0:00	49.83	0:00
16-Feb	50.01	49.99	49.99	49.99	49.96	49.99	7.20	74.40	18.40	74.40	50.16	06:35:00	49.77	18:45:10	50.08	0:00	49.85	0:00
17-Feb	49.98	49.98	50.03	49.99	50.05	50.00	3.40	69.80	26.80	69.80	50.18	06:07:20	49.81	18:49:40	50.13	0:00	49.88	0:00
18-Feb	49.99	49.98	49.98	50.00	49.95	49.98	7.80	76.30	16.00	76.30	50.23	18:03:10	49.75	05:57:40	50.10	0:00	49.86	0:00
19-Feb	49.99	49.97	49.99	49.97	49.98	49.98	8.60	74.70	16.70	74.70	50.18	18:02:10	49.80	21:08:00	50.08	0:00	49.83	0:00
20-Feb	49.97	49.98	50.03	49.99	50.01	50.00	8.00	66.80	25.20	66.80	50.21	22:01:40	49.72	00:11:20	50.14	0:00	49.88	0:00
21-Feb	49.91	49.99	49.97	49.98	49.95	49.96	20.50	66.50	13.00	66.50	50.14	22:00:30	49.75	00:57:30	50.12	0:00	49.75	0:00
22-Feb	49.94	49.97	50.00	50.02	49.98	49.98	8.50	73.50	18.00	73.50	50.17	17:01:30	49.79	05:43:10	50.11	0:00	49.83	0:00
23-Feb	50.00	49.99	49.98	50.02	49.98	49.99	7.20	72.00	20.70	72.00	50.19	06:03:00	49.79	18:47:40	50.11	0:00	49.87	0:00
24-Feb	49.98	50.01	50.01	50.00	49.98	50.00	6.10	69.40	24.60	69.40	50.24	14:04:30	49.75	15:55:50	50.17	0:00	49.80	0:00
25-Feb	50.03	50.01	50.02	49.99	50.05	50.02	2.60	63.70	33.70	63.70	50.23	13:01:40	49.75	18:44:30	50.13	0:00	49.88	0:00
26-Feb	49.99	49.98	49.99	49.98	50.03	49.99	9.00	70.20	20.90	70.20	50.26	13:02:00	49.79	16:35:20	50.16	0:00	49.87	0:00
27-Feb	49.99	50.02	50.03	50.03	49.99	50.01	1.60	69.10	29.30	69.10	50.26	06:03:40	49.84	18:43:50	50.13	0:00	49.91	0:00
28-Feb	50.01	50.04	50.01	50.01	50.06	50.02	1.00	65.60	33.30	65.60	50.23	06:04:30	49.85	05:11:20	50.13	0:00	49.93	0:00
MAX	50.04	50.04	50.03	50.03	50.06	50.02	20.50	78.29	39.40	78.29	50.26		49.85		50.17		49.93	
MIN	49.91	49.93	49.95	49.96	49.95	49.96	1.00	57.70	12.90	57.70	50.14		49.68		50.07		49.75	
AVG	49.99	49.99	50.00	49.99	50.00	49.99	7.01	70.73	22.26	70.73	50.21		49.78		50.12		49.86	

SUMMARY:

Avg. Frequency :

49.99 Hz.

Instantaneous Frequency :

Maximum Frequency : 50.26 Hz at 13:02 Hrs.

Minimum Frequency : 49.68 Hz at 10:04 Hrs.

15 Minutes Integrated Frequency :

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

Minimum Frequency : 49.75 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	7.01	70.73	22.26

VOLTAGE ANALYSIS

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

(All figs. in kV)

PGCIL	BINAGURI		MAITHON		JEERAT		BIHARSHARIFF	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	431	399	422	404	429	391	422	400

PGCIL	MUZAFFARPUR		JAMSHEDPUR		ROURKELA		JEYPORE	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	418	386	418	401	416	405	419	390

ANNEXURE-III

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

Feb-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	
			(28-02-19)	(28-02-18)		
Hirakud	192	180	189.00	189.31	189.76	01.02.19
Balimela	462	439	456.62	444.70	458.18	01.02.19
Rengali	123	109	116.38	121.67	117.20	01.02.19
Upperkolab	858	844	853.08	852.03	854.22	01.02.19
Indravati	642	625	636.72	634.12	638.00	01.02.19
Subernrekha	590	580	585.86	584.82	585.95	01.02.19

B.

CPP/IPP IMPORT by Eastern Region Constituents during

Feb-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	42.92
West Bengal	61.35	23.26	0	0	0	0	0	33.05	117.67
ODISHA	0	0	33.22	359.27	6.27	0.13	0	138.72	537.60
DVC	0	0	0	0	0	0	19.18	0	19.18
TOTAL	61.35	23.26	33.22	359.27	6.27	0.13	19.18	171.78	717.37

C.

Distribution of Schedule Supply among Key Customers by IPPs during

Feb-19

(All figs. are in MU)

IPP	TPDDL	WBSEDCL/ WBPDCCL	DVC *	Sale at IEX/NPCL	ODISHA	JSEB	CTU/Others	Total (Excl. Tr. Loss)
MPL	160.20	138.89	71.40	0.00	0	0	189.26	559.75
Sterlite	0	0	0	0	0.00	0	0.00	0.00
APNRL	0	9.55	0	0.00	0.00	118.73	38.79	167.07
Total	160.20	148.44	71.40	0.00	0.00	118.73	228.05	726.82

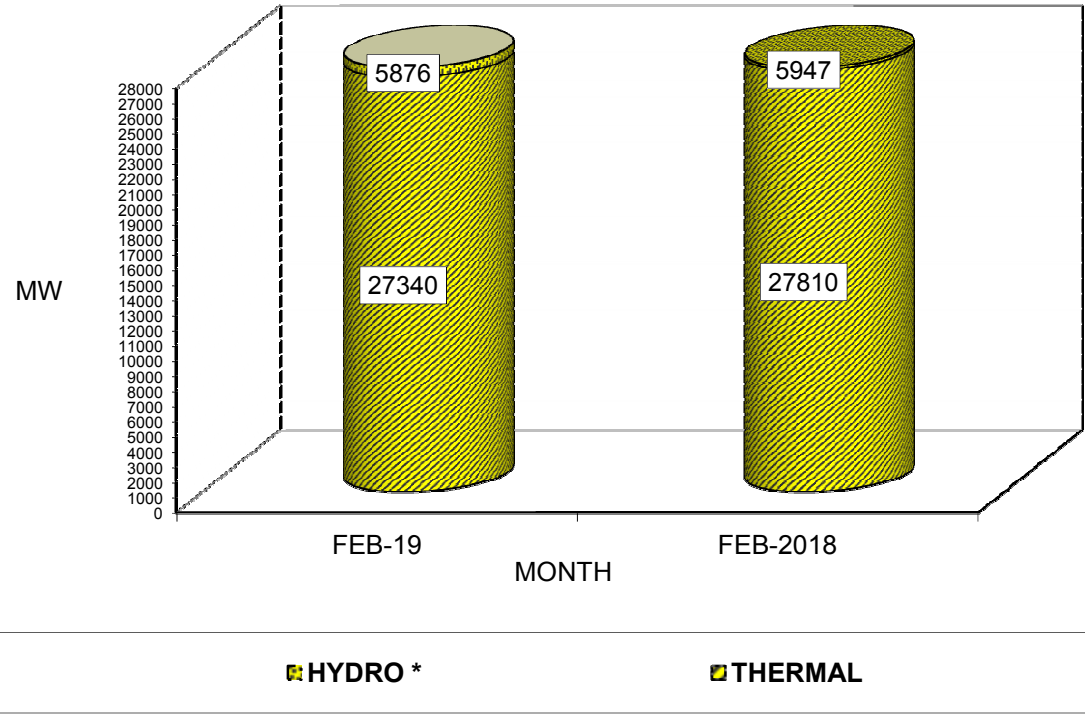
Task/work performed by ERPC during February-2019

February, 2019		
	Period	Date of Report
1	RTA January-19	05.02.2019
2	REA January 2019	05.02.2019
3	Bilateral REA for January -2019	06.02.2019
4	DC-MPL-January 2019	06.02.2019
5	DC- Teesta III – January 2019	06.02.2019
6	RTA January-19 (Rev-1)	07.02.2019
7	REA Bhutan January-19	08.02.2019
8	Deviation Account, RRAS & FRAS Account 210119-270119	08/02/2019
9	VAR Account 210119-270119	08.02.2019
10	VAR Account 280119-030219	14.02.2019
11	Deviation Account, RRAS & FRAS Account 280119-030219	14/02/2019
12	AS-3 Format 16.02.19-15.03.19	14.02.2019
13	Deviation Account, RRAS & FRAS Account 040219-100219	20/02/2019
14	Re-allocation of share for BARH-II w.e.f 20.02.2019	20.02.2019
15	VAR Account 040219-100219	20.02.2019
16	BRBCL share allocation w.e.f 26.02.2019	25.02.2019
17	URS January-19	26.02.2019
18	RTA October-18(Revision-II)	26.02.2019
19	Deviation Account, RRAS & FRAS Account 110219-170219	27/02/2019
20	VAR Account 110219-170219	27.02.2019
21	Transmission System Availability Certificate for CBPTCL Transmission Elements for Dec-18	06.02.2019
22	Transmission System Availability Certificate for Powerlinks Transmission Elements for Dec-18	06.02.2019
23	Transmission System Availability Certificate for TPTL Transmission Elements for Dec-18	06.02.2019
24	Transmission System Availability Certificate for PKTCL Transmission Elements for DEC-18	20.02.2019
25	Transmission System Availability Certificate for OPGCL Transmission Elements for Dec-18	20.02.2019
26	Transmission System Availability Certificate for DMTCL Transmission Elements for Dec-18	06.02.2019
27	Provisional Power Supply Position for January-2019	05.02.2019.
28	Revised Power Supply Position for January-2019	22.02.2019
29	Progress Report January-2019	28.02.2019

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

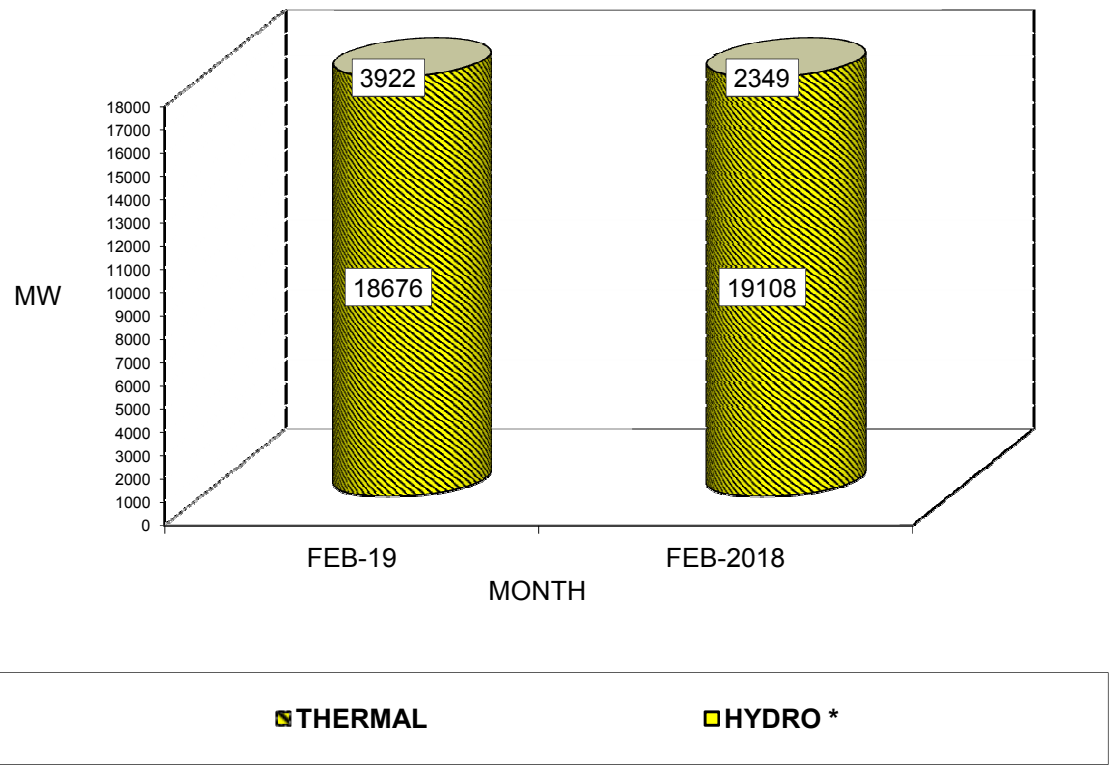
Sl.	Description	Date	Venue
1	Workshop on Enhancing Managerial Skill	04.02.2019	IMI, Kolkata
2	Presentation on FRAS by Sh. S.K.Pradhan, AE	05.02.2019	ERPC, Kolkata
3	ISO Meeting	05.02.2019	ERPC, Kolkata
4	Meeting on APNRL & WBSEDCL Issue	08.02.2019	ERPC, Kolkata
5	Training on Substation and Tr. Line Protection	11.02.2019 to 13.02.2019	ERPC, Kolkata
6	Mtg. with CPWD	11.02.2019	ERPC, Kolkata
7	Mtg. on Transmission Availability	13.02.2019	ERPC, Kolkata
8	76th PCC Meeting	14.02.2019	ERPC, Kolkata
9	Workshop on Restoration Procedure	15.02.2019	ERPC, Kolkata
10	39th Commercial Committee Meeting	18.02.2019	ERPC, Kolkata
11	Meeting on OCC Shut down through VC	19.02.2019	ERLDC, Kolkata
12	Special Meeting on "RGMO/FGMO" of Budge-Budge units of CESC	19.02.2019	ERPC, Kolkata
13	154th OCC Meeting	21.02.2019	Mejia TPS, DVC
14	Validation Committee Meeting	21.02.2019	ERLDC, Kolkata
15	Workshop by PRDC	28.02.2019	New Town, Kolkata

EFFECTIVE CAPACITY OF EASTERN REGIONAL GRID



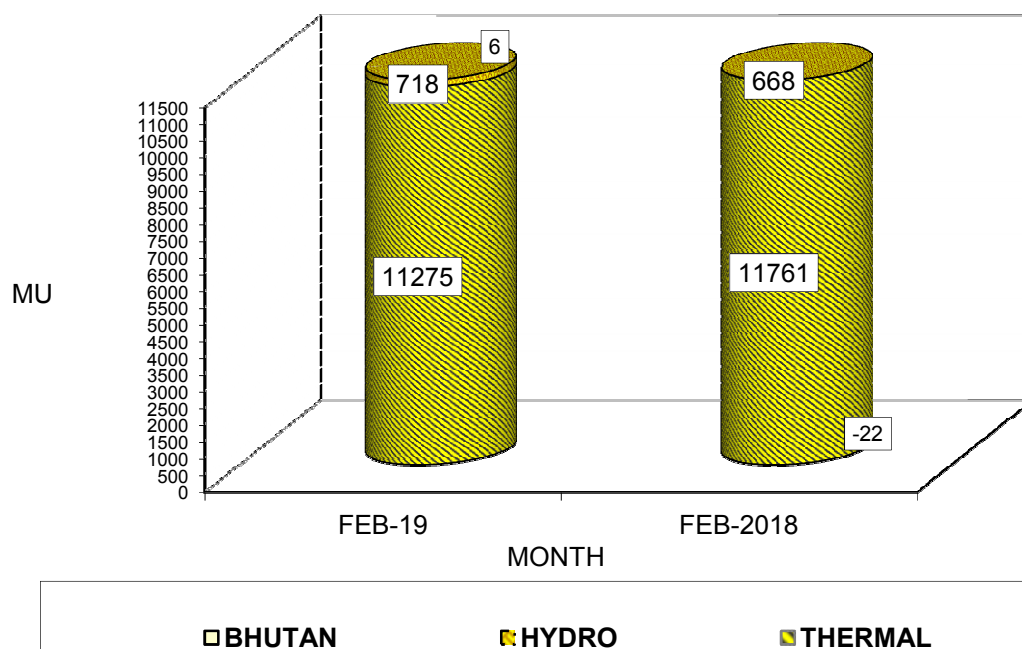
*Excludes 1350 MW contribution from HEPs of Bhutan

GENERATION CORRESPONDING TO PEAK DEMAND MET

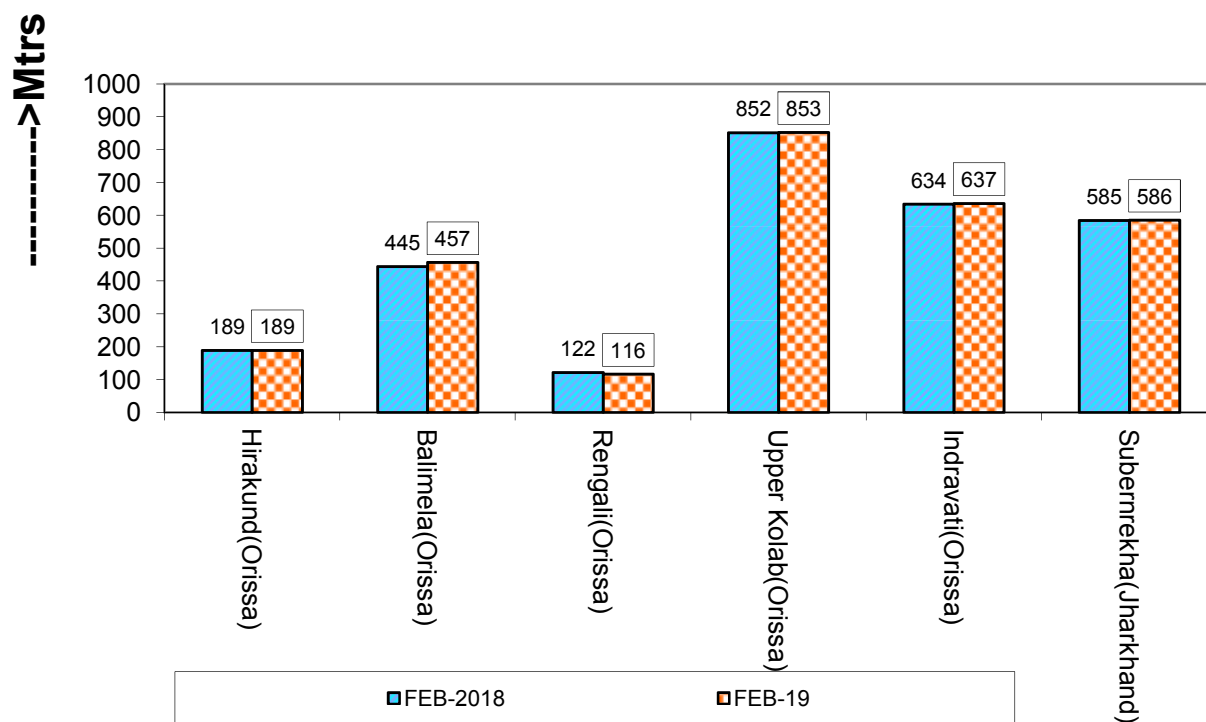


*Includes contribution from HEP of Bhutan

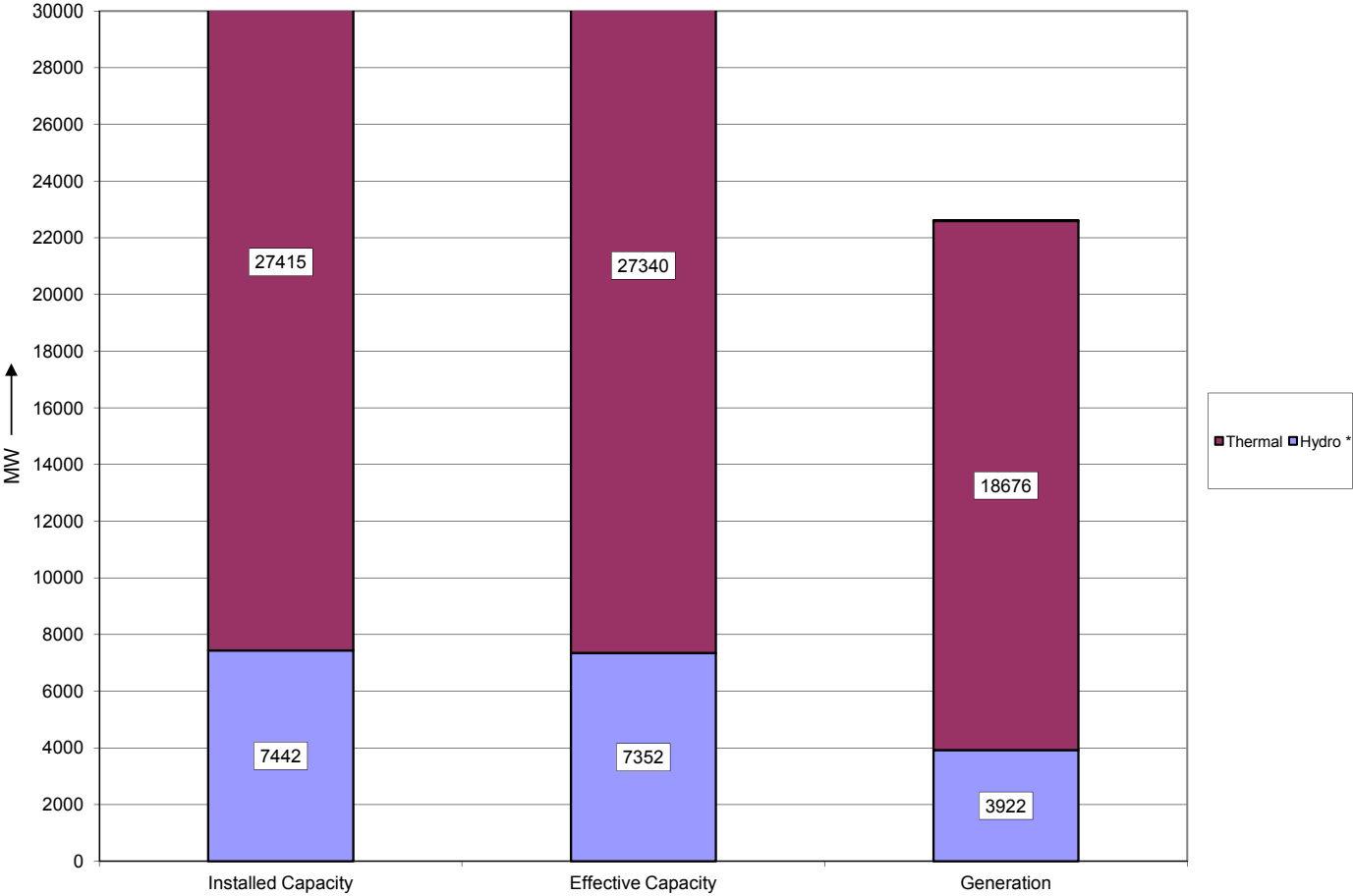
NET ENERGY GENERATION



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

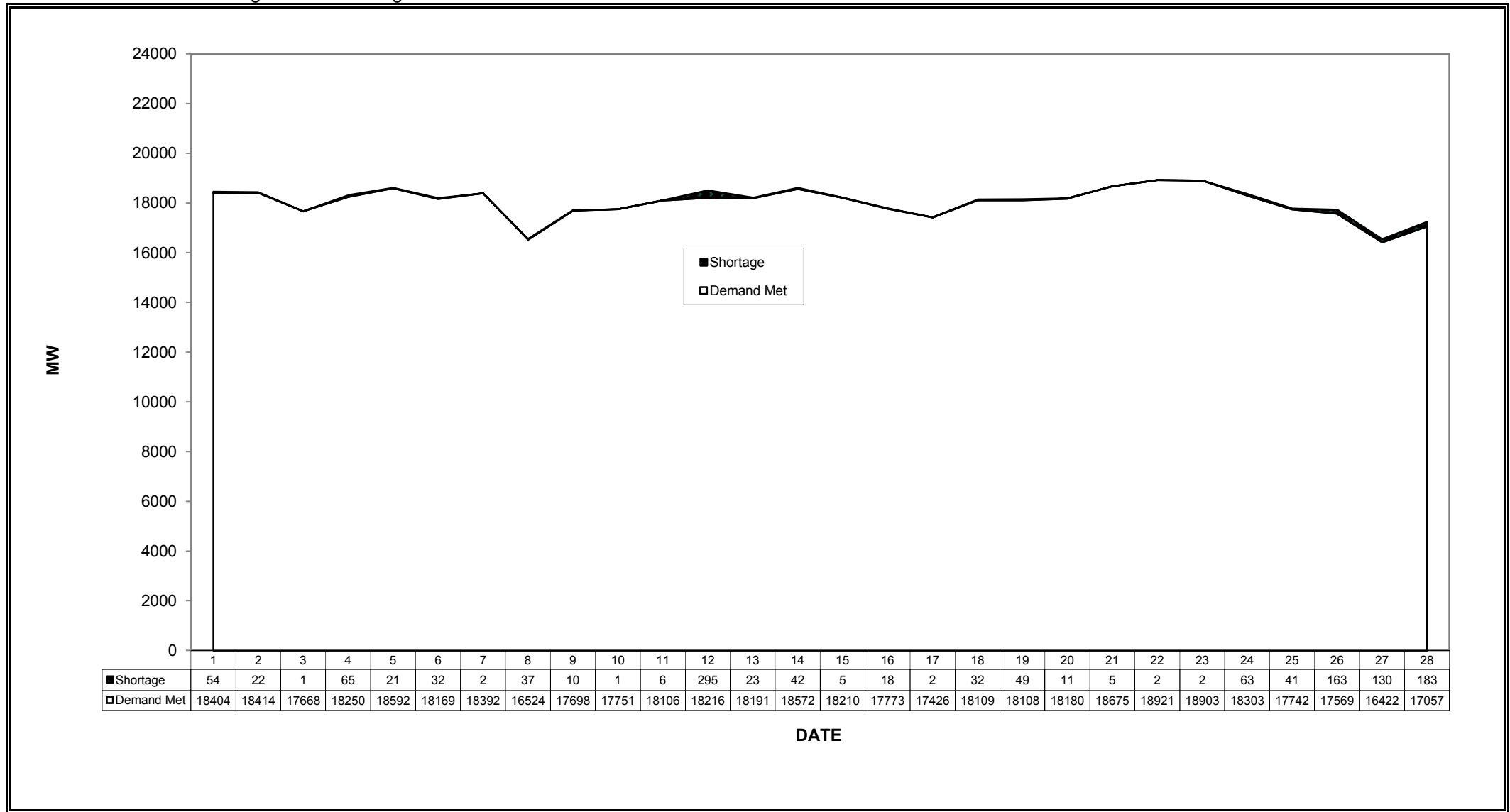


Capacity / Actual Generation Pattern of ER on Peak Day (22-2-2019) at 20.00 hrs.

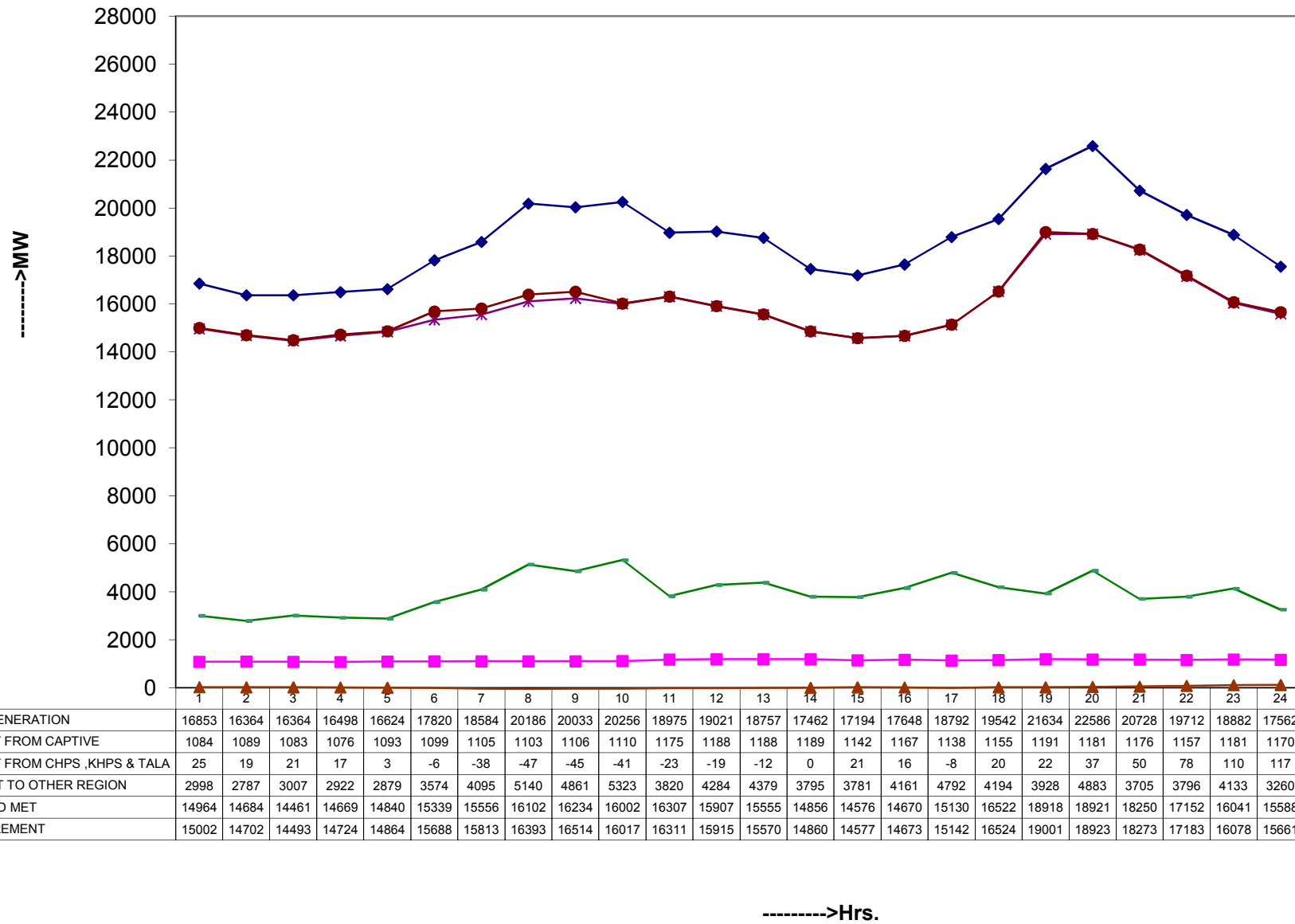


(*)--Includes contribution from HEP of Bhutan (Chukka, Kurichhu & Tala)

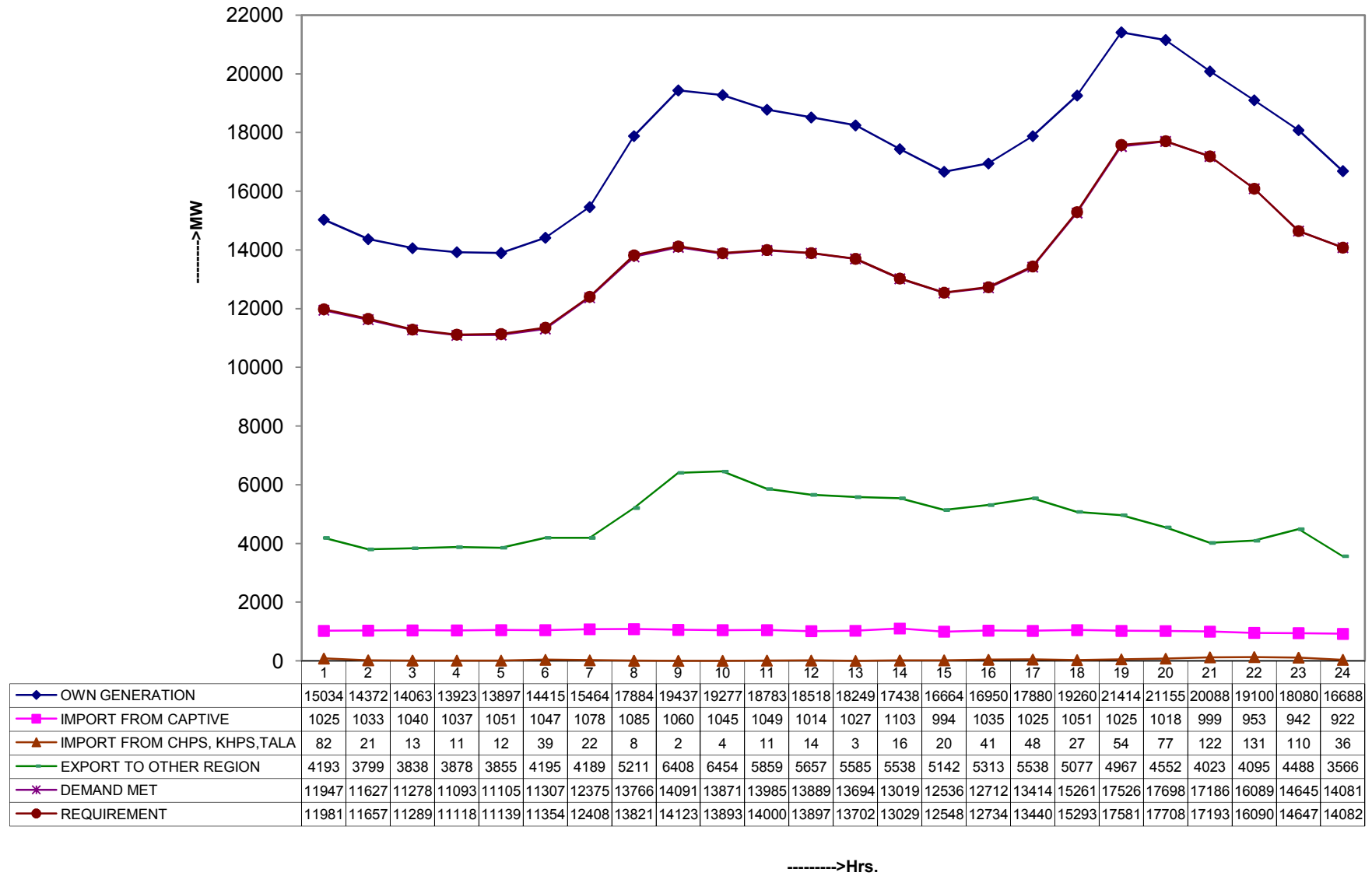
Peak Demand Met / Shortage of Eastern Region For The Month Of FEBRUARY'2019



Hourly Load Generation Data OF ER On Regional Peak Day During The Month of FEBRUARY'2019 (22-2-2019)

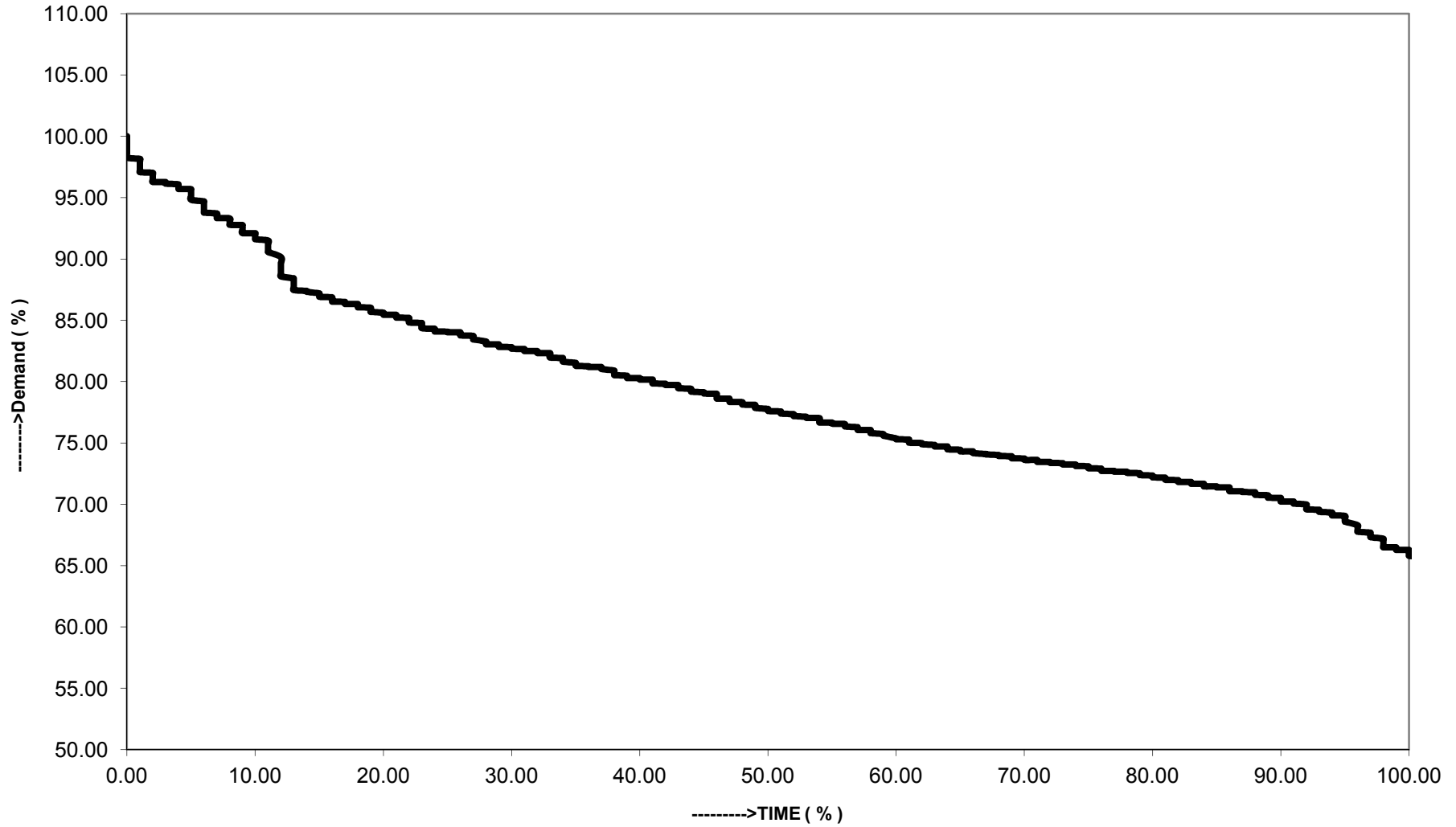


Hourly Load Generation Data of ER On Regional Lean Day During The Month of FEBRUARY'2019 (9-2-2019)



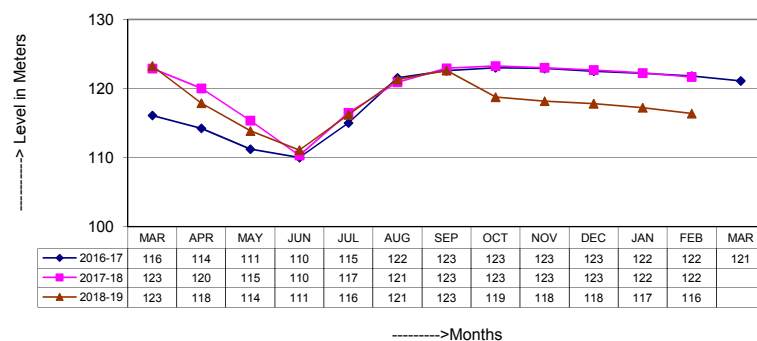
Monthly Load Duration Curve of Eastern Region for FEB-19

Maximum Demand met : 18921 MW
Minimum Demand met: 11093 MW

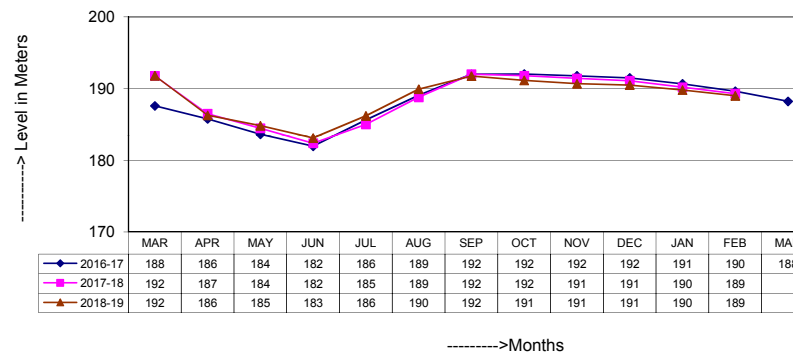


WATER LEVEL IN MAJOR RESERVOIRS ON LAST DATE OF MONTH

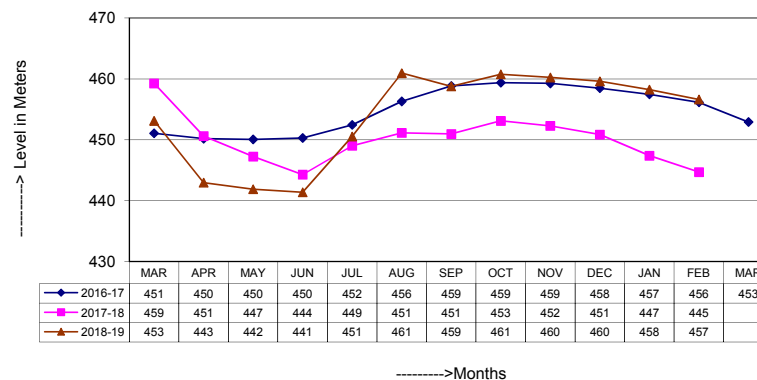
RENGALI RESERVOIR LEVEL



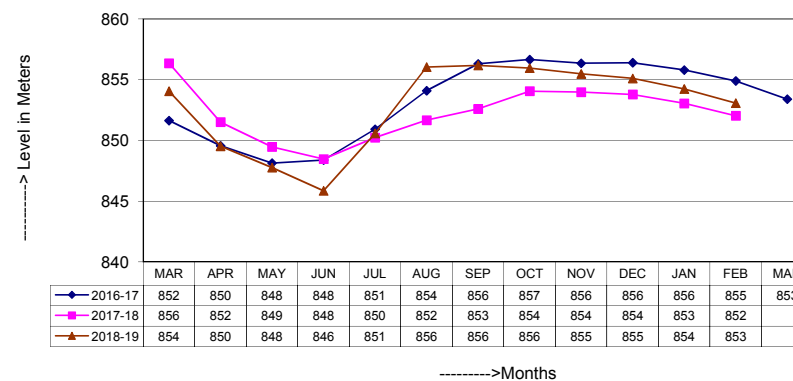
HIRAKUD RESERVOIR LEVEL



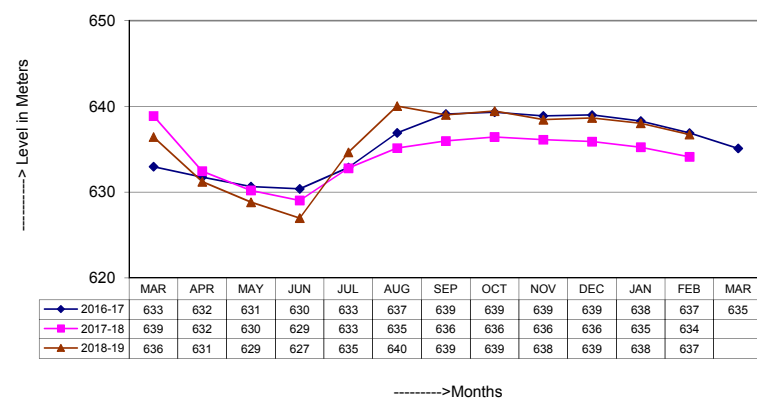
BALIMELA RESERVOIR LEVEL



UPPER KOLAB RESERVOIR LEVEL



INDRAVATI RESERVOIR LEVEL



SUBERNREKHA RESERVOIR LEVEL

