



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

अक्टूबर- 2018

October - 2018



14, गोल्फ क्लब रोड, टोलीगंज

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Highlights of Eastern Regional Power System for October-2018

- The **Maximum Net Demand** met of **Eastern Region (ER)** during the month of **Oct, 2018** was **22733MW** which is 14.34% more than the **Oct, 2017** (19882 MW). Individual **Peak Demand (MW)** of most of the constituents **increased** compared to the corresponding period of last year.
- The **Average Net Energy Consumption** per day in ER for the month of **Oct, 2018** was **419.60 MU** excluding export, which is 7.36% more than the corresponding period of last year (390.36 MU).
- The **Average regional PLF of thermal units during the month is 62.65%**, which is 8.20% more than the corresponding period of the last year (**54.45%**).
- **CESC (Budge- Budge)** registered the highest **PLF of 95.76 %**, followed by DVC, (CTPS U#7&8), 93.84% HEL 93.50% and IBTPS (Odisha) 90.73% during the month of **Oct, 2018**.
- **Maximum generation (Net)** of ER was **21494 MW** against total **Effective Capacity of 35443 MW** (including import from Bhutan). At the time of Regional peak (22733 MW on 03.10.2018 at 21.00 hrs.) the total generation was 21147 MW (Thermal =15856 MW, Hy = 5242 MW, RES = 49 MW), import from CPP was 928 MW and net import from Grid was 658 MW.
- The system frequency in the recommended IEGC band (49.9 Hz to 50.05 Hz) remained for 79.36% of time during the month. **Average frequency** for the month was **49.96 Hz**. The instantaneous maximum and the minimum frequency touched were 50.20 Hz and 49.69 Hz respectively. The integrated (Fifteen minutes time block average) maximum and minimum frequency were **50.12 Hz** and **49.76 Hz** respectively (**refer Annexure-I**).
- The **Maximum Voltage** recorded **429 KV** at Jamshedpur 400 KV S/s whereas the minimum voltage recorded 371 KV at Muzaffarpur 400 KV S/s of Power grid.
- The **Maximum Export** from ER to outside region was **6653 MW (including Nepal and Bangladesh)** on **14th October, 2018** at 07:00 hrs. **Maximum import** by ER from the Grid was **5095MW** on **2nd Oct'18** at 20.00 hrs. **Total net energy export** during the month was **1932.65 MU** which is corresponds to **13.55 %** of ex-bus total generation (14258.62 MU) of Eastern Region.
- The **import from CPPs** was **638.04 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	3999	1276	1086.66
WR	2255	4252	(-)1131.26
SR	3224	981	963.03
NER	1240	206	405.03
BANGLADESH	787	0	535.63
NEPAL (via CTU)	210	0	73.39
Total(Net)	6653	5095	1932.65
NEPAL by Bihar(NBPDCL)			

SALIENT FEATURES

(YEAR TO YEAR COMPARISION)

		Oct-18		OCT-2017	CHANGE	% CHANGE
1)	Effective Capacity (end of the Month)					
	THERMAL (MW)	27205		28760	-1555	-5.41
	HYDRO (MW)	5876	\$	5947	-71	-1
	DIESEL (MW)	0		7	-7	0
	RES (MW)	886		10	0	0
	TOTAL (MW)	33967		34724	-757	-2.18
2)	Peak Demand (MW)	23093		19966	3127	15.66
3)	Peak Demand Met (MW)	22733		19882	2851	14.34
4)	Shortage (MW)	360		84	276	328.08
5)	% Shortage	1.56		0.42	1.14	270.75
6)	Average Energy Requirement Per Day (MU)	423.21		393.65	29.56	7.51
7)	Average Energy Availability Per Day (MU)	419.60		390.86	28.74	7.35
8)	Average Shortage Per Day (MU)	3.61		2.79	0.82	29.45
9)	% Shortage	0.85		0.71	0.14	20.20
10)	Net Generation for the Month					
	Thermal (MU)	11680.83		10498.24	1182.59	11.26
	Hydro (MU)	2531.14	*	2641.56	-110.42	-4.18
	RES (MU)	46.62		0.00	0.00	-
	Total (MU)	14258.59		13156.39	1102.20	8.38
11)	Generation at the Time of Max. Regional Demand Met (03-10-18 at 21.00 Hrs.)					
	Thermal (MW)	15856		14422	1434	9.94
	Hydro (MW)	5242	*	4570	672	14.71
	RES(MW)	49		0	49	-
	Total (MW)	21147		18992	2155	11.35
12)	Inter-Regional Energy Transfer					
	Export (MU)	3063.90		2571.09	492.81	19.17
	Import (MU)	1131.26		1114.41	16.85	1.51
	Net Exp.(+)/Net Imp.(-) (MU)	1932.64		1456.67	475.97	32.68
13)	Import From Captive(MU)	683.01		1352.32	-669.31	-49.49
14)	Peak Inter Regional Power Transfer					
	Max Export (MW) on 14-10-18 at 07.00Hrs	6653		4692	1961	41.80
	Max Import (MW) on 02-10-18 at 20.00Hrs	5095		3464	1631	47.09
	Max Net Export(+)/Import (-) (MW)	5992		4000	1992	49.80
15)	Maximum voltage recorded	429		JAMSHEDPUR 400 kv	s/s	
16)	Minimum voltage recorded	371		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 OCTOBER'2018

A) Net Average Energy Per Day

System	Demand Met (MU/Day)	Requirement (MU/Day)	Shortage (MU/Day)	% Shortage
BSPHCL	86.91	87.42	0.51	0.58
JUVNL	23.56	24.91	1.35	5.43
DVC	59.30	60.71	1.42	2.34
ODISHA	103.96	104.09	0.13	0.13
WBSEDCL	107.98	108.39	0.41	0.38
CESC	30.46	30.49	0.04	0.13
DPL	5.75	5.76	0.01	0.13
SIKKIM	1.43	1.43	0.00	0.13
REGION	419.60	423.21	3.61	0.85

B) Peak Demand in MW:

System	Demand Met (MW)	Requirement (MW)	Shortage (MW)	% Shortage
BSPHCL	5084	5115	31	0.60
JUVNL	1247	1247	0	0.00
DVC	2837	2900	62	2.15
ODISHA	5219	5231	12	0.23
WBSEDCL	6809	6816	7	0.11
CESC	1923	1926	3	0.1
DPL	278	278	1	0.26
SIKKIM	93	93	0	0.00
REGION	22733	23093	360	2

➤ **DIVERSITY FACTOR** **1.03**

➤ **Regional Peak Demand Met on 3-10-2018 at 21.00 hrs. at 50.02 Hz.**

CONSTITUENT-WISE PERFORMANCE DATA OCTOBER-18

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	67.96	19.75	87.71	0.00	7.81	0.00	7.81	0.00	60.15	19.75	79.90	0.00	2614.46	2694.36	86.9	5084	5099
JUVNL	9.59	180.40	0.00	189.99	0.00	20.85	0.00	20.85	9.59	159.55	0.00	169.14	50.71	510.58	730.43	23.6	1247	1269
DVC	24.22	2584.36	0.00	2608.58	0.13	203.04	0.00	203.17	24.09	2381.32	0.00	2405.41	8.10	-575.35	1838.15	59.3	2837	3145
ODISHA(OPGC+OHPC+TTFS)	922.86	541.56	22.13	1486.55	7.34	58.73	0.00	66.06	915.52	482.84	22.13	1420.48	494.14	1308.18	3222.80	104.0	5219	5310
WBPDC+WBSEDCL	139.09	1952.99	0.00	2092.08	0.00	189.66	0.00	189.66	139.09	1763.33	0.00	1902.42	130.09	1314.82	3347.34	108.0	6809	7124
DPL	0.00	217.68	0.54	218.22	0.00	22.68	0.00	22.68	0.00	195.00	0.54	195.54	0.00	-17.26	178.29	5.8	278	314
CESC	0.00	572.44	0.00	572.44	0.00	44.41	0.00	44.41	0.00	528.03	0.00	528.03	0.00	416.08	944.11	30.5	1923	1993
HEL	0.00	417.39	0.00	417.39	0.00	31.08	0.00	31.08	0.00	386.31	0.00	386.31	0.00	-386.31				
SIKKIM	0.00	0.00	3.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	3.00	3.00	0.00	41.20	44.20	1.4	93	93
NTPC	0.00	4381.63	0.00	4381.63	0.00	304.34	0.00	304.34	0.00	4077.30	0.00	4077.30	0.00	-4077.30				
BRBCL	0.00	250.76	0.00	250.76	0.00	19.92	0.00	19.92	0.00	230.84	0.00	230.84	0.00	-230.84				
MPL	0.00	599.90	0.00	599.90	0.00	34.13	0.00	34.13	0.00	565.77	0.00	565.77	0.00	-565.77				
APNRL	0.00	247.33	0.00	247.33	0.00	20.65	0.00	20.65	0.00	226.68	0.00	226.68	0.00	-226.68				
GMR	0.00	340.72	0.00	340.72	0.00	19.59	0.00	19.59	0.00	321.13	0.00	321.13	0.00	-321.13				
JITPL	0.00	325.28	0.00	325.28	0.00	22.64	0.00	22.64	0.00	302.64	0.00	302.64	0.00	-302.64				
NHPC (Inc TLDP= 120.15 MU)	455.49	0.00	0.00	455.49	0.00	0.00	0.00	0.00	455.49	0.00	0.00	455.49	0.00	-455.49	0.00			
CHPC(Birpara Receipt)	123.84	0.00	0.00	123.84	0.00	0.00	0.00	0.00	123.84	0.00	0.00	123.84	0.00	-123.84	0.00			
KHPS	36.77	0.00	0.00	36.77	0.00	0.00	0.00	0.00	36.77	0.00	0.00	36.77	0.00	-36.77	0.00			
THPS	169.72	0.00	0.00	169.72	0.00	0.00	0.00	0.00	169.72	0.00	0.00	169.72	0.00	-169.72	0.00			
DAGACHU HPS	30.74	0.00	0.00	30.74	0.00	0.00	0.00	0.00	30.74	0.00	0.00	30.74	0.00	-30.74	0.00			
CHUZACHEN HPS	33.20	0.00	0.00	33.20	0.00	0.00	0.00	0.00	33.20	0.00	0.00	33.20	0.00	-33.20	0.00			
JORHANG HPS	44.74	0.00	0.00	44.74	0.00	0.00	0.00	0.00	44.74	0.00	0.00	44.74	0.00	-44.74	0.00			
TEESTA-III HPS	460.27	0.00	0.00	460.27	0.00	0.00	0.00	0.00	460.27	0.00	0.00	460.27	0.00	-460.27	0.00			
DIKCHU HPS	44.62	0.00	0.00	44.62	0.00	0.00	0.00	0.00	44.62	0.00	0.00	44.62	0.00	-44.62	0.00			
TASHIDING HPS	43.43	0.00	0.00	43.43	0.00	0.00	0.00	0.00	43.43	0.00	0.00	43.43	0.00	-43.43	0.00			
TALCHER SOLAR	0.00	0.00	1.20	1.20	0.00	0.00	0.00	0.00	0.00	0.00	1.20	1.20	0.00	-1.20				
Total Drawal by HVDC Sahsaram,Alipurduar,BRBCL,Indbharat and OPGC														9.33	9.33			
Total	2538.59	12680.40	46.62	15265.61	7.47	999.52	0.00	1006.99	2531.12	11680.87	46.62	14258.62	683.04	-1932.65	13009.02	419.6	22733	24076

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	419.60	423.21	3.61	0.85	49.96
NOVEMBER	332.17	336.69	4.53	1.34	49.96	-	-	-	-	-
DECEMBER	329.55	331.98	2.43	0.73	49.98	-	-	-	-	-
JANUARY	353.94	356.68	2.74	0.77	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	-	-	-	-	-
DECEMBER	17837	18195	358	2.01	49.98	-	-	-	-	-
JANUARY	18238	18508	270	1.48	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-Oct-18		During October-18				
		ENTITLEMENT (EX-BUS)	DRAWAL SCHEDULE (EX-BUS)	BILATERAL [EXPORT(-) / IMPORT(+)] (EX-SELLER BUS)	NET DRAWAL SCHEDULE (AFTER LOSS)	ACTUAL DRAWAL FROM GRID	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	1949.40	1827.97				287.98	276.97						
	FARAKKA STPS III	582.98	533.77				86.51	80.91						
	KAHALGAON STPS I	1488.47	1299.83				215.37	190.95						
	KAHALGAON STPS II	302.50	322.04				43.22	43.88						
	TALCHER STPS I	1698.08	1689.17				232.29	230.56						
	MTPS-II	985.43	930.11				156.57	144.73						
	BRBCL	107.63	102.87				23.27	23.36						
	Rly BRBCL	106.29	93.22				28.78	26.70						
	BARH STPS II	4393.55	4105.67				655.58	617.30						
	RANGIT HEP	88.59	205.35				14.63	14.63						
	CHUKHA HEP	250.30	404.20				20.60	41.47						
	KIRUCHHU HEP	0.00	0.00				0.00	0.00						
	TALA HPS	768.07	633.60				63.20	46.23						
	TEESTA HEP	443.22	443.22				58.79	58.79						
	TOTAL	13164.53	12591.01	5899.25	18363.81	18307.05	1886.79	1796.48	825.22	2588.70	2567.30			
JUVNL	FARAKKA STPS I	532.36	485.90				78.66	74.44						
	FARAKKA STPS III	370.60	288.63				55.29	54.40						
	KAHALGAON STPS I	113.85	123.05				16.50	16.29						
	KAHALGAON STPS II	75.85	103.47				10.84	10.80						
	TALCHER STPS I	315.72	311.67				43.20	42.89						
	MTPS-II	45.12	46.73				7.17	7.17						
	BARH STPS II	409.11	361.38				61.05	54.72						
	RANGIT HEP	33.75	33.75				5.57	5.57						
	CHUKHA HEP	90.73	146.50				7.47	15.03						
	KIRUCHHU HEP	0.00	0.00				0.00	0.00						
	TALA HPS	345.18	274.76				28.40	20.78						
	TEESTA HEP	257.26	257.26				34.12	34.12						
	TOTAL	2589.53	2433.11	904.37	3661.28	3791.33	348.27	336.21	154.60	471.97	501.37			
DVC	FARAKKA STPS I	16.79	0.00				0.00	0.00						
	FARAKKA STPS III	123.13	142.93				20.75	21.86						
	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	13.37	18.14				1.75	2.07						
	MTPS-II	62.83	42.83				5.43	14.52						
	BRBCL	214.36	230.52				43.13	48.06						
	RANGIT HEP	33.38	25.31				4.18	4.18						
	CHUKHA HEP	84.65	141.47				7.21	14.51						
	KIRUCHHU HEP	50.20	32.54				2.45	2.04						
	TALA HPS	176.00	137.65				13.73	10.04						
	TEESTA HEP	277.83	180.12				23.89	23.89						
	TOTAL	926.99	951.51	-8277.73	-7394.91	-6891.05	122.52	141.17	-828.44	-695.20	-575.35			
GRIDCO	FARAKKA STPS I	880.62	866.92				130.10	129.54						
	FARAKKA STPS III	377.28	354.69				55.95	54.78						
	KAHALGAON STPS I	560.97	525.59				81.17	80.40						
	KAHALGAON STPS II	159.18	228.18				22.74	26.18						
	TALCHER STPS (Stg-I)	1336.01	1328.13				182.17	181.36						
	TALCHER STPS (Stg-II)	0.00	0.00				0.00	0.00						
	MTPS-II	112.08	10.75				17.81	1.32						
	BARH STPS II	848.59	770.54				126.62	127.13						
	RANGIT HEP	0.00	0.00				0.00	0.00						
	CHUKHA HEP	167.62	207.21				10.56	21.26						
	KIRUCHHU HEP	0.00	0.00				0.00	0.00						
	TALA HPS	128.01	114.01				10.53	7.71						
	TEESTA HEP	429.26	429.26				56.94	56.94						
	TOTAL	4999.61	4835.27	2993.38	8001.03	8660.35	694.59	686.62	429.82	1185.76	1284.58			
WBSIEDCL	FARAKKA STPS I	1953.20	1865.56				288.56	273.31						
	FARAKKA STPS III	708.34	645.51				105.05	95.44						
	KAHALGAON STPS I	32.68	38.99				4.73	4.89						
	KAHALGAON STPS II	55.84	74.47				7.98	9.19						
	TALCHER STPS I	412.51	399.93				56.43	55.41						
	MTPS-II	126.63	101.70				20.12	13.43						
	RANGIT HEP	71.74	69.60				11.85	11.85						
	CHUKHA HEP	269.06	434.48				22.15	44.58						
	KIRUCHHU HEP	20.27	32.53				2.45	2.04						
	TALA HPS	1152.10	629.03				94.79	69.35						
	TEESTA HEP	499.93	499.93				66.31	66.31						
	TOTAL	5302.30	4791.73	5142.59	10154.98	10708.80	680.42	645.80	562.30	1120.62	1185.41			
SIKKIM	FARAKKA STPS I	101.20	91.82				14.95	14.95						
	FARAKKA STPS III	0.00	0.00				0.00	0.00						
	KAHALGAON STPS I	55.13	54.05				7.98	7.98						
	KAHALGAON STPS II	20.05	19.93				2.86	2.86						
	TALCHER STPS I	98.80	98.75				13.52	13.47						
	MTPS-II	7.29	7.25				1.16	1.16						
	BARH STPS II	76.14	72.56				11.36	11.36						
	RANGIT HEP	33.75	33.75				5.57	5.57						
	CHUKHA HEP	18.75	30.29				1.54	3.11						
	KIRUCHHU HEP	0.00	0.00				0.00	0.00						
	TEESTA HEP	274.98	274.98				36.48	36.48						
	TOTAL	686.08	683.37	-253.47	282.56	267.47	95.42	96.94	-55.76	38.08	40.46			
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	-1611.48	-1491.14				-230.23	-243.68						
	TALCHER STPS I	0.00	0.00				0.00	0.00						
	BARH STPS II	0.00	0.00				0.00	0.00						
	BRBCL	-439.86	-372.85				-85.10	-77.77						
	TOTAL	-2051.34	-1863.99	2020.54	1820.40	9821.38	-315.33	-321.45	-410.03	-539.00	1131.26			
SR	FARAKKA STPS I	-126.76	-113.77				-18.73	-24.25						
	FARAKKA STPS III	-16.14	-18.30				-2.39	-3.78						
	KAHALGAON STPS I	-49.14	-59.74				-7.11	-10.01						
	KAHALGAON STPS II	-46.36	-52.53				-6.62	-9.03						
	TALCHER STPS STG-I	-64.35	-64.65				-8.80	-9.36						
	MTPS-II	-3.66	-11.10				-0.58	-4.69						
	BARH STPS II	-39.00	-43.97				-5.82	-10.28						
NR	TOTAL	-345.40	-358.93	-2098.30	-3148.77	-6236.29	-50.05	-71.40	-145.62	-506.26	-945.65			
	FARAKKA STPS I	-440.20	-353.45				-65.03	-61.62						
	KAHALGAON STPS I	-1103.09	-869.01				-159.62	-151.47						
	KAHALGAON STPS II	-3385.45	-2706.36				-486.76	-458.19						
	TALCHER STPS I	0.00	0.00				0.00	0.00						
	BRBCL	-111.75	-85.50				-36.38	-25.56						
	TALA HPS	-451.81	-372.71				-37.17	-27.20						
WR+SR+NR	TOTAL	-5492.29	-4387.04	-11104.35	-8525.87	-11831.89	-784.96	-724.04	-744.99	-664.68	-1067.05			
	(GRAND TOTAL)	-7889.03	-6609.96	-11182.11	-9854.24	-8246.79	-1150.34	-1116.89	-1300.64	-1709.94	-881.44			
NER	FARAKKA STPS I	-205.54	-151.68				-30.37	-22.97						
	FARAKKA STPS III	-2.02	-2.17				-0.30	-0.29						
	KAHALGAON STPS I	-105.06	-114.33				-15.20	-32.24						
	KAHALGAON STPS II	-314.97	-248.90				-45.00	-35.95						
	TALCHER STPS I	-120.07	-116.07				-15.20	-16.08						
TOTAL		-747.67	-633.16	380.49	30.69	-2357.34	-106.07	-107.53	29.85	76.41	-397.73			

PERFORMANCE OF GENERATING STATIONS IN THE EASTERN REGION DURING THE MONTH OF OCTOBER'2018 OCTOBER'2018

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	67.96	60.15	277.91	239.74	
		Thermal Total	440.00	430.00	67.96	60.15	322.77	279.21	
	RES		327.40	327.40	19.75	19.75	142.65	142.65	
		Total BIHAR	767.40	757.40	87.71	79.90	465.41	421.86	
JHARKHAND									
TVNL	Thermal	TVNL	420.00	420.00	180.40	159.55	899.16	777.75	
JSEB	Hydro	Subarnrekha (U#1,2)	130.00	130.00	9.59	9.59	93.72	93.72	
	RES		29.72	29.72	0.00	0.00	0.00	0.00	
	Total	159.72	159.72	9.59	9.59	93.72	93.72		
DVC	Thermal	Bokaro-B(3)	210.00	210.00	102.47	90.30	394.10	346.45	
		Chandrapura (3)	140.00	130.00	0.00	0.00	0.00	0.00	
		Chandrapura(U7 # 8)	500.00	500.00	349.09	318.09	2287.51	2079.52	
		Durgapur(4)	210.00	210.00	56.60	49.44	507.93	441.05	
		Mezia(1,2,3,4,5,6)	1340.00	1340.00	705.27	633.94	3902.87	3492.95	
		Mezia(U # 7,8)	1000.00	1000.00	237.30	222.11	3107.20	2942.39	
		Bokaro-A(1,2)	500.00	500.00	227.41	213.81	2042.84	1927.53	
		Durgapur STPS (U#1,2)	1000.00	1000.00	354.99	334.08	3474.09	3294.73	
		Raghunathpur TPS (U#1,2)	1200.00	1200.00	179.00	165.51	1635.45	1519.55	
		Koderma STPS (U#1,2)	1000.00	1000.00	372.23	354.04	3811.24	3628.73	
	Total Thermal	7100.00	7090.00	2584.36	2381.32	21163.22	19672.23		
	6.273	Hydro	Maithon (U#1,2,3)	63.20	63.20	18.22	18.18	87.28	86.98
			Panchet (U#1,2)	80.00	80.00	6.00	5.93	73.70	73.06
			Tilaya (U#1,2)	4.00	4.00	0.00	0.00	0.24	0.20
			Hydro Total	147.20	147.20	24.22	24.09	161.22	160.20
		Total DVC	7247.20	7237.20	2608.58	2405.41	21324.44	19832.43	
		WEST BENGAL							
WBPDCCL		Thermal	Bandel TPS	540.00	450.00	123.21	109.58	884.69	784.66
	Santalalih TPS(U#5&6)		500.00	500.00	245.83	223.10	2048.43	1872.42	
	Kolaghat TPS		1260.00	1260.00	417.97	371.95	2741.62	2427.50	
	Bakreswar TPP		1050.00	1050.00	574.68	520.57	4072.27	3689.92	
	Sagardighi TPP		1600.00	1600.00	591.31	538.13	3751.30	3389.16	
	Thermal Total		4950.00	4860.00	1952.99	1763.33	13498.32	12163.66	
WBSUEDCL	Hydro	Jaldhaka (3x9+2x4)	35.00	35.00	22.50	22.50	155.04	155.04	
		Ramam (4x12.73)	51.00	51.00	25.65	25.65	183.70	183.70	
		Teesta C.F. (3x3x7.3)	67.30	67.30	11.94	11.94	77.23	77.23	
		Purulia PSS (4x225)	900.00	900.00	79.00	79.00	643.35	643.35	
		Total Hydro	1053.30	1053.30	139.09	139.09	1059.31	1059.31	
		RES	277.52	277.52	0.00	0.00	0.00	0.00	
DPL	Thermal	DPPS (110+300+250 *)	660.00	660.00	217.68	195.00	1434.04	1281.76	
		RES	5.00	5.00	0.54	0.54	3.63	3.63	
		➤	Chandrapura #1 is retired on 17.01.17						
		➤	Patratu # 1,2,3,5,8 are retired on 21.12.16						

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	38.12	34.64	220.36	200.05
		Budge-Budge (3x250)	750.00	750.00	534.33	493.40	3791.78	3499.71
		Total CESC	1125.00	1125.00	572.44	528.03	4012.14	3699.76
HEL	Thermal	HEL	600.00	600.00	417.39	386.31	2905.50	2684.59
		Total West Bengal	8670.82	8580.82	3299.59	3011.76	22910.96	20890.74
ODISHA (NTPC)	Thermal	Talcher-I	250.00	240.00	171.19	152.20	1093.92	974.46
		Talcher-II	220.00	220.00	86.86	77.22	956.86	850.43
		Total Thermal	470.00	460.00	258.04	229.42	2050.78	1824.89
OPGC	Thermal	IB TPS	420.00	420.00	283.52	253.38	1772.64	1580.34
OHPC	Hydro	Hirakud-I (Burla)	275.50	275.50	53.30	53.08	301.67	300.07
		Hirakud-II (Chiplima)	72.00	72.00	15.18	15.11	115.73	115.26
		Balimela (6x60+2x75)	510.00	510.00	232.40	231.67	1255.21	1251.42
		Rengali (5x50)	250.00	250.00	106.44	106.32	659.22	658.41
		Upper Kolab (4x80)	320.00	320.00	140.46	140.36	609.23	607.83
		Indravati HPS (4x150)	600.00	600.00	352.80	346.72	1422.75	1394.96
		Mckd.(Odisha drawal)	57.38	57.38	22.27	22.27	142.93	142.93
		Total Hydro	2084.88	2084.88	922.86	915.53	4506.73	4470.88
		RES	184.30	184.30	22.13	22.13	89.19	89.19
		Total Odisha	3159.18	3149.18	1486.55	1420.45	8419.34	7965.30
(**) SIKKIM	Hydro	RES	52.11	52.11	3.00	3.00	21.00	21.00
NTPC		MTPS Stg-II	390.00	390.00	193.352	172.78	1247.07	1108.72
		FSTPP# I&II (3x200+2x500)	1600.00	1600.00	939.89	875.62	6251.63	5815.56
		FSTPP (U# 6)	500.00	500.00	324.72	303.05	2135.14	1990.66
		KhSTPP (4x210+3x500)	2340.00	2340.00	1442.83	1339.59	9390.72	8701.07
		TSTPP (2x500)	1000.00	1000.00	611.69	561.11	4468.71	4106.11
		BARH STPS II (2X660)	1320.00	1320.00	869.16	825.14	5756.56	5453.90
		Total NTPC	7150.00	7150.00	4381.63	4077.29	29249.81	27176.03
NHPC	HYDRO	Rangit (3x20)	60.00	60.00	43.04	43.04	261.66	261.66
		Teesta (3x170)	510.00	510.00	292.30	292.30	2143.96	2143.96
		TLDP -(4x33+4x40)	292.00	292.00	120.16	120.16	1044.81	1044.81
		Total NHPC	862.00	862.00	455.50	455.50	3450.43	3450.43
IPP IPP		MPL (U#1&2)	1050.00	1050.00	599.90	565.77	4138.75	3901.54
		APNRL (U#1,2)	540.00	540.00	247.33	226.68	1827.10	1674.47
		GMR (2x350)	700.00	700.00	340.72	321.13	2615.61	2465.21
		JITPL (2X600)	1200.00	1200.00	325.28	302.64	2549.12	2369.66
		BRBCL # 1,2	500.00	500.00	250.76	230.84	1094.97	1000.47
		CHUZACHEN** (2x55)	110.00	110.00	33.20	33.20	365.95	364.72
		JORETHANG (2x48)	96.00	96.00	44.74	44.74	345.51	345.51
		TEESTA URJA St III (6x200)	1200.00	1200.00	460.27	460.27	3307.97	3307.97
		Tashilding (2x48.5)	97.00	97.00	43.43	43.43	350.09	350.09
		DICKCHU (3X32)	96.00	96.00	44.62	44.62	407.96	407.96
		TALCHER SOLAR	10.00	10.00	1.20	1.20	7.65	7.65
		Total Thermal (E.R)	27325.00	27205.00	12680.40	11680.83	89533.93	82551.58
		Total Hydro (E.R)	5876.38	5876.38	2177.54	2170.08	14051.88	14013.79
EASTERN REGIONAL		Total RES	886.05	886.05	46.62	46.62	261.11	261.11
		TOTAL (E.R)	34087.43	33967.43	14904.56	13897.53	103846.93	96826.48
BHUTAN	Hydro	CHPC(4x90)	360.00	270.00	123.84	123.84	1249.13	1249.13
		Kurichu (4x15)	60.00	60.00	36.77	36.77	323.92	323.92
		TALA (6x170)	1020.00	1020.00	169.72	169.72	2328.38	2328.38
		DAGACHU (2x63)	126.00	126.00	30.74	30.74	280.68	280.68
		Grand Total	35653.43	35443.43	15265.62	14258.59	108029.04	101008.59

PLANT LOAD FACTOR (PLF) OF THERMAL POWER STATIONS IN EASTERN REGION DURING THE MONTH OF OCTOBER' 2018

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	4.16	
		Muzaffarpur Stg-I	220.00	220.00	67.96	41.52	277.91	24.60	
		Thermal Total	440.00	430.00	67.96	21.24	322.77	14.61	
	RES				19.75		142.65		
		Total BIHAR		767.40	757.40	87.71		465.41	
JHARKHAND									
TVNL	Thermal	TVNL	420.00	420.00	180.40	57.73	899.16	41.68	
JSEB	Hydro	Subarnrekha (U#1,2)	130.00	130.00	9.59		93.72		
	RES		29.72	29.72	0.00		0.00		
	Total		159.72	159.72	9.59		93.72		
DVC	Thermal	Bokaro-B(3)	210.00	210.00	102.47	65.58	394.10	36.54	
		Chandrapura (3)	140.00	130.00	0.00	0.00	0.00	0.00	
		Chandrapura(U7 # 8)	500.00	500.00	349.09	93.84	2287.51	89.08	
		Durgapur(4)	210.00	210.00	56.60	36.23	507.93	47.09	
		Mezia(1,2,3,4,5,6)	1340.00	1340.00	705.27	70.74	3902.87	56.71	
		Mezia(U # 7,8)	1000.00	1000.00	237.30	31.90	3107.20	60.50	
		Bokaro-A(1,2)	500.00	500.00	227.41	61.13	2042.84	79.55	
		Durgapur STPS (U#1,2)	1000.00	1000.00	354.99	47.71	3474.09	67.64	
		Raghunathpur TPS (U#1,2)	1200.00	1200.00	179.00	20.05	1635.45	26.54	
		Koderma STPS (U#1,2)	1000.00	1000.00	372.23	50.03	3811.24	74.21	
	Total Thermal		7100.00	7090.00	2584.36	48.99	21163.22	58.12	
	Hydro	Maithon (U#1,2,3)	63.20	63.20	18.22		87.28		
		Panchet (U#1,2)	80.00	80.00	6.00		73.70		
		Tilaya (U#1,2)	4.00	4.00	0.00		0.24		
		Hydro Total		147.20	147.20	24.22		161.22	
		Total DVC		7247.20	7237.20	2608.58		21324.44	
		WEST BENGAL							
WBPDC	Thermal	Bandel TPS	540.00	450.00	123.21	36.80	884.69	38.28	
		Santalidih TPS(U#5&6)	500.00	500.00	245.83	66.08	2048.43	79.77	
		Kolaghat TPS	1260.00	1260.00	417.97	44.59	2741.62	42.37	
		Bakreswar TPP	1050.00	1050.00	574.68	73.56	4072.27	75.51	
		Sagardighi TPP	1600.00	1600.00	591.31	49.67	3751.30	45.65	
		Thermal Total	4950.00	4860.00	1952.99	54.01	13498.32	54.08	
WBSEDCL	Hydro	Jaldhaka (3x9+2x4)	35.00	35.00	22.50		155.04		
		Ramam (4x12.73)	51.00	51.00	25.65		183.70		
		Teesta C.F. (3x3x7.3)	67.30	67.30	11.94		77.23		
		Purulia PSS (4x225)	900.00	900.00	79.00		643.35		
		Total Hydro	1053.30	1053.30	139.09		1059.31		
		RES	277.52	277.52	0.00		0.00		
	TLDP -(4x33+4x40)	292.00	292.00	120.16		1044.81			
DPL	Thermal	DPPS (110+300+250 *)	660.00	660.00	217.68	44.33	1434.04	42.30	
		RES	5.00	5.00	0.54		3.63		

ORGANI- SATION	TYPE	POWER STATION	INSTALLED CAPACITY	EFFECTIVE CAPACITY	Gross Energy Generation	PLF of Current Month	Cummulative Gross Energy Generation upto Current Month	Cummulative PLF upto Current Month	
			(in MW)	(in MW)	in MU	(%)	(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	38.12	37.95	220.36	31.78	
		Budge-Budge (3x250)	750.00	750.00	534.33	95.76	3791.78	98.44	
		Total CESC	1125.00	1125.00	572.44	68.39	4012.14	69.44	
HEL	Thermal		600.00	600.00	417.39	93.50	2905.50	94.29	
		Total West Bengal	8670.82	8580.82	3299.59		22910.96		
ODISHA (NTPC)	Thermal	Talcher-I	250.00	240.00	171.19	95.87	1093.92	88.75	
		Talcher-II	220.00	220.00	86.86	53.07	956.86	84.68	
		Total Thermal	470.00	460.00	258.04	75.40	2050.78	86.80	
OPGC	Thermal	IB TPS	420.00	420.00	283.52	90.73	1772.64	82.18	
OHPC	Hydro	Hirakud-I (Burla)	275.50	275.50	53.30		301.67		
		Hirakud-II (Chiplima)	72.00	72.00	15.18		115.73		
		Balimela (6x60+2x75)	510.00	510.00	232.40		1255.21		
		Rengali (5x50)	250.00	250.00	106.44		659.22		
		Upper Kolab (4x80)	320.00	320.00	140.46		609.23		
		Indravati HPS (4x150)	600.00	600.00	352.80		1422.75		
		Mckd.(Odisha drawal)	57.38	57.38	22.27		142.93		
		Total Hydro	2084.88	2084.88	922.86		4506.73		
		RES	184.30	184.30	22.13		89.19		
		Total Odisha	3159.18	3149.18	1486.55		8419.34		
(**) SIKKIM	Hydro	RES	52.11	52.11	3.00		21.00		
NTPC		MTPS Stg-II	390	390	193.352	66.64	1247.0717	62.26	
		FSTPP# I&II (3x200+2x500)	1600.00	1600.00	939.89	78.96	6251.63	76.08	
		FSTPP (U# 6)	500.00	500.00	324.72	87.29	2135.14	83.14	
		KhSTPP (4x210+3x500)	2340.00	2340.00	1442.83	82.88	9390.72	78.14	
		TSTPP (2x500)	1000.00	1000.00	611.69	82.22	4468.71	87.01	
		BARH STPS II (2X660)	1320.00	1320.00	869.16	88.50	5756.56	84.91	
		Total NTPC	7150.00	7150.00	4381.63	82.37	29249.81	79.65	
NHPC	HYDRO	Rangit (3x20)	60.00	60.00	43.04		261.66		
		Teesta (3x170)	510.00	510.00	292.30		2143.96		
		TLDP -(4x33+4x40)	292.00	292.00	120.16		1044.81		
		Total NHPC	862.00	862.00	455.50		3450.43		
IPP	Thermal	MPL (U#1&2)	1050.00	1050.00	599.90	76.79	4138.75	76.75	
APNRL (U#1,2)		540.00	540.00	247.33	61.56	1827.10	65.88		
GMR (2x350)		700.00	700.00	340.72	65.42	2615.61	72.75		
JITPL (2X600)		1200.00	1200.00	325.28	36.43	2549.12	41.36		
BRBCL # 1,2		500.00	500.00	250.76	67.41	1094.97	42.64		
CHUZACHEN** (2x55)		110.00	110.00	33.20		365.95			
JORETHANG (2x48)		96.00	96.00	44.74		345.51			
TEESTA URJA St III (6x200)		1200.00	1200.00	460.27		3307.97			
Tashilding (2x48.5)		97.00	97.00	43.43		350.09			
DICKCHU (3X32)		96.00	96.00	44.62		407.96			
TALCHER SOLAR		10.00	10.00	1.20		7.65			
Total Thermal (E.R)		27325.00	27205.00	12680.40	62.65	89533.93	64.08		
EASTERN REGIONAL			Total Hydro (E.R)	5876.38	5876.38	2177.54		14051.88	
			Total RES	886.05	886.05	46.62		261.11	
	TOTAL (E.R)		34087.43	33967.43	14904.56		103846.93		
BHUTAN	Hydro	CHPC(4x90)	360.00	270.00	123.84		1249.13		
		Kurichu (4x15)	60.00	60.00	36.77		323.92		
		TALA (6x170)	1020.00	1020.00	169.72		2328.38		
		DAGACHU (2x63)	126.00	126.00	30.74		280.68		
		Grand Total	35653.43	35443.43	15265.62		108029.04		

CONTRIBUTIONS OF DIFFERENT CONSTITUENTS AT THE TIME OF REGIONAL PEAK
DURING THE MONTH OF OCTOBER'2018 (3-10-2018)

Date **3-Oct-18**
Time **21.00** Hrs.
Frequency **50.02** Hz.

(All Fig. in MW)

System/State	Installed Capacity	Effective Capacity	Hydro	Thermal	RES	Total
BSPHCL	767	757	0	0	0	0
JUVNL	580	580	118	139	0	257
DVC	7247	7237	60	3261	0	3320
ODISHA	3159	3149	1431	546	49	2026
WBSEDCL	6281	6191	715	2492	0	3206
TLDP	292	292	294	0	0	294
HEL HALDIA	600	600	0	537	0	537
CESC	1125	1125	0	824	0	824
DPL	665	665	0	298	0	298
SIKKIM	52	52	0	0	0	0
NTPC	7150	7150	0	5022	0	5022
NHPC	570	570	580	0	0	580
CHUKHA	360	270	336	0	0	336
KURICHU	60	60	87	0	0	87
TALA	1020	1020	460	0	0	460
MPL	1050	1050	0	762	0	762
APNRL	540	540	0	460	0	460
Kamalganga (GMR)	700	700	0	639	0	639
JITPL	1200	1200	0	502	0	502
BRBCL	500	500	0	374	0	0
Chuzachen	110	110	59	0	0	59
Jorethang	96	96	90	0	0	90
TEESTA URJA St III	1200	1200	785	0	0	785
Tashilding	97	97	77	0	0	77
DICKCHU	96	96	99	0	0	99
<u>Daghachu</u>	126	126	52	0	0	52
<u>Solar</u>	10	10	0	0	0	0
<u>Total</u>	35653	35443	5242	15856	49	21147
Import From Captive:						928
Export To:						
NER						1004
SR						2110
WR						-3925
NR						-805.95
Bangladesh						785.02
Nepal						174.18
Total						-658

➤ | Net Peak Demand Met (MW) : 22733

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

Hourly Load Generation Data of ER of Regional Peak Day During The Month of OCTOBER'2018 (3-10-2018)

(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	3600	15115	18715	849	766	-925	21255	37	144	21437
2	3644	15148	18792	804	727	-695	21018	13	258	21289
3	3644	15138	18782	812	733	-814	21140	9	345	21495
4	3620	15143	18763	786	721	-627	20898	22	436	21355
5	3606	15114	18720	813	690	-451	20675	40	436	21150
6	3612	15041	18653	822	661	488	19647	62	287	19996
7	3663	15032	18696	831	637	2333	17831	25	400	18255
8	3667	14829	18496	817	633	2323	17623	-12	366	17977
9	3686	14998	18684	833	646	2227	17936	-9	297	18224
10	3691	14945	18637	828	654	1911	18208	24	221	18453
11	3636	15078	18714	816	659	1639	18551	34	301	18886
12	3658	15140	18799	857	650	1400	18906	10	303	19220
13	3739	15073	18812	941	636	1244	19145	30	26	19201
14	3756	15200	18957	951	612	1294	19226	27	9	19262
15	3669	15405	19074	955	596	1187	19438	43	13	19494
16	3632	15627	19259	936	538	1158	19575	39	9	19624
17	3747	15600	19347	945	530	1396	19426	19	8	19452
18	4462	15592	20055	905	621	1234	20347	36	8	20390
19	4603	15968	20571	938	839	477	21871	46	310	22227
20	4394	15908	20302	959	876	-536	22672	-4	318	22986
21	4409	15856	20264	928	883	-658	22733	-14	374	23093
22	4386	15707	20093	946	871	-543	22453	31	366	22851
23	4094	15579	19673	951	819	-155	21598	59	443	22099
24	3665	15609	19273	971	673	-758	21675	23	215	21913

Hourly Load Generation Data of ER On Regional Lean Day During The Month of OCTOBER'2018 (12-10-2018)

(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	2437	15260	17698	849	509	3465	15591	22	3	15616
2	2383	15016	17400	772	447	3423	15196	39	3	15238
3	2216	14666	16883	807	441	3458	14673	23	5	14701
4	2118	14527	16645	773	446	3581	14282	21	10	14314
5	2068	14468	16536	802	435	3560	14213	62	15	14289
6	2300	14582	16882	842	420	3912	14232	34	24	14290
7	2351	15066	17417	762	398	4752	13825	45	294	14163
8	2519	15535	18054	760	421	5043	14191	-9	297	14480
9	2625	15717	18343	797	471	5140	14470	3	306	14778
10	2828	15543	18370	802	503	4653	15023	13	158	15193
11	2959	15293	18253	791	515	4238	15320	16	34	15370
12	2911	15440	18351	730	523	4268	15337	0	235	15572
13	2677	15194	17871	716	548	4100	15036	4	234	15273
14	2699	15154	17853	723	541	4144	14974	13	232	15219
15	2838	15395	18233	705	509	4476	14971	14	230	15216
16	3098	15786	18884	715	548	5012	15134	45	235	15415
17	3249	15896	19145	759	546	4655	15795	69	237	16101
18	3231	17160	20391	827	531	3859	17891	8	326	18225
19	3507	17285	20792	846	547	2937	19248	15	666	19929
20	3104	16958	20062	862	569	2336	19157	-28	409	19538
21	2812	16674	19485	822	595	2228	18675	-21	412	19065
22	2793	16268	19061	771	597	2576	17853	-22	227	18059
23	3245	15881	19125	868	574	3436	17131	-6	39	17164
24	2634	15272	17906	819	531	3351	15905	7	44	15956

NOTIFIED POWER CUTS/RESTRICTIONS ON INDUSTRIES & POWER SUPPLY TO AGRICULTURE SECTOR
FOR THE MONTH OF OCTOBER'2018

POWER CUT / RESTRICTIONS

BSPHCL	NO NOTIFIED CUTS/RESTRICTIONS However there was loadshedding of 12.42 MU
JUVNL	NO NOTIFIED CUTS/RESTRICTIONS However there was loadshedding of 41.01 MU
DVC	NO NOTIFIED CUTS/RESTRICTIONS. However there was loadshedding of 41.67 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 8.58 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.

Monthwise list of Meetings / Workshops held from April-18 to October, 2018

Apr-18

Sl. No.	Description	Date	Venue
1	Meeting with PRDC	04.04.2018	ERPC, Kolkata
2	Meeting with PWC	04.04.2018	ERPC, Kolkata
3	SPS Review Meeting	06.04.2018	ERPC, Kolkata
4	Hindi Committee Meeting	16.04.2018	ERPC, Kolkata
5	SPS study group meeting of GMR and JITPL on tripping of any HVDC Talcher –Kolar pole	18.04.2018	ERPC, Kolkata
6	144 th OCC meeting	19.04.2018	ERPC, Kolkata
7	Workshop on 5 minute scheduling & NEP	20.04.2018	ERPC, Kolkata
8	Meeting with CPWD	23.04.2018	ERPC, Kolkata
9	66 th PCC meeting	25.04.2018	ERPC, Kolkata
10	Training Programme on PDMS by PRDC	26.04.2018 to 27.04.2018	ERPC, Kolkata

May-18

1	Meeting on Shutdown issue of 220kV New Melli - Rangpo Line	02.05.2018	ERPC, Kolkata
2	Meeting with ERLDC & WBSEDCL on NTPC Solar issue	08.05.2018	ERPC, Kolkata
3	Workshop on Cyber Security	09.05.2018	ERPC, Kolkata
4	Meeting with MPL	09.05.2018	ERPC, Kolkata
5	Meeting with JITPL & Powergrid	18.05.2018	ERPC, Kolkata
6	145 th OCC meeting	21.05.2018	ERPC, Kolkata
7	Meeting on TVNL issue	21.05.2018	ERPC, Kolkata
8	67 th PCC meeting	22.05.2018	ERPC, Kolkata
9	Hindi Workshop	31.05.2018	ERPC, Kolkata

Jun-18

1	Special Meeting on IBEUL issue	01.06.2018	ERPC, Kolkata
2	PSDF Review Meeting at Binaguri	08.06.2018	Binaguri, West Bengal
3	37th CCM meeting	11.06.2018	ERPC, Kolkata
4	146th OCC meeting	15.06.2018	ERPC, Kolkata
5	Special Meeting with KBUNL, MTPS & Bihar	15.06.2018	ERPC, Kolkata
6	68th PCC meeting	18.06.2018	ERPC, Kolkata
7	38 th TCC Meeting	29.06.2018	Kolkata
8	38 th ERPC Meeting	30.06.2018	Kolkata

Jul-18

1	Training by PRDC	02.07.2018 to 04.07.2018	ERPC, Kolkata
2	Workshop on Tariff Regulations	05.07.2018	ERPC, Kolkata
3	6 th Meeting of Standing Committee on Transmission Planning for State Sectors	09.07.2018	ERPC, Kolkata
4	Meeting with GRIDCO on Auxiliary Power	10.07.2018	ERPC, Kolkata
5	Reactive Energy Committee Meeting	11.07.2018	ERPC, Kolkata
6	Meeting among PTC, Bhutan, ERLDC & ERPC	13.07.2018	ERPC, Kolkata
7	1st meeting of Eastern Regional Standing Committee on Transmission	16.07.2018	New Town, Rajarhat, Kolkata.
8	Hindi Workshop.	17.07.2018	ERPC, Kolkata
9	69th PCC Meeting	19.07.2018	ERPC, Kolkata
10	147th OCC Meeting	20.07.2018	ERPC, Kolkata
11	Workshop on Genus Meter & RTDSM	24.07.2018	ERPC, Kolkata
13	Workshop on Amendment to DSM Regulations	25.07.2018	ERPC, Kolkata
14	Workshop on Flexible Scheduling	27.07.2018	ERPC, Kolkata
15	Workshop on POC Charges	30.07.2018	ERPC, Kolkata

Monthwise list of Meetings / Workshops held from August-18 to October, 2018

Aug-18

1	Simulator Training at Bakreswar	06.08.2018 to 11.08.2018	BkTPS,WBPDCL,Bakreswar
2	Hindi Workshop	14.08.2018	ERPC, Kolkata
3	148 th OCC Meeting	20.08.2018	ERPC, Kolkata
4	70 th PCC Meeting	21.08.2018	ERPC, Kolkata
5	Workshop on 5 Min. Scheduling, Metering, Accounting & Settlement	24.08.2018	ERPC, Kolkata
6	Meeting taken by Hon'ble Minister-in-charge of Power &NES,Govt. of West Bengal on Action plan for uninterrupted power supply to consumers and supply of coal to Thermal power Station during the ensuing puja festival,2018	25.08.2018	WBSEDCL,Vidyut Bhawan, Saltlake
7	Meeting between ERPC & ERLDC	30.08.2018	ERPC, Kolkata

Sep-18

1	Meeting with DISCOMS	03.09.2018	ERPC, Kolkata
2	149 th OCC Meeting	18.09.2018	ERPC, Kolkata
3	Pension Adalat	18.09.2018	ERPC, Kolkata
4	71 st PCC Meeting	19.09.2018	ERPC, Kolkata
5	Meeting with DVC & Railway	24.09.2018	ERPC, Kolkata
6	Workshop organised by ERPC on emerging issues in power sector, blackstart and restoration procedure for Odisha System.	26.09.2018 to 27.09.2018	Upperkolab, Odisha

Oct-18

1	Meeting for discussion on preparedness for the ensuing Durga Puja festivals2018.	03.10.2018	WBSEDCL,Vidyut Bhawan, Saltlake
2	Meeting with PTC	03.10.2018	ERPC, Kolkata
3	Meeting on augmentation of Coal supply & its transportation to various power station in the Eastern Region before Puja festivals.	04.10.2018	ERPC, Kolkata
4	Workshop on Smart Grid.	05.10.2018	ERPC, Kolkata
5	150 th OCC Meeting	11.10.2018	ERPC, Kolkata
6	38 th Commercial Sub-committee Meeting	12.10.2018	ERPC, Kolkata
7	Workshop organised by ERPC	23.10.2018 to 25.10.2018	Gedu, Bhutan
8	72 nd PCC Meeting	29.10.2018	ERPC, Kolkata

FREQUENCY DETAILS FOR THE MONTH OF

Oct-18

D A T E	H O U R S										INST. FREQ.				15 MIN. INTEGRATED			
	00	05	10	17	22	00	49.9	>50.05	49.9		MAX	HRS.	MIN	HRS.	MAX	HRS.	MIN	HRS.
	TO	TO	TO	TO	TO	TO	<49.9	TO	TO		HZ		HZ		HZ		HZ	
	05	10	17	22	24	24	50.1	50.05	50.05									
01-Oct	49.97	49.98	49.93	49.95	49.93	49.95	18.40	74.70	6.90	74.70	50.14	0:43	49.76	9:50	50.07	0:00	49.84	0:00
02-Oct	49.93	49.99	49.99	50.00	49.97	49.98	5.90	84.40	9.70	84.40	50.15	0:28	49.80	00.24.10	50.05	0:00	49.85	0:00
03-Oct	49.97	49.97	49.96	49.97	49.95	49.97	7.40	87.00	5.60	87.00	50.15	0:28	49.79	22.17.50	50.06	0:00	49.89	0:00
04-Oct	49.96	49.99	49.95	49.96	49.96	49.96	9.20	84.00	6.90	84.00	50.14	0:43	49.81	22.07.30	50.05	0:00	49.88	0:00
05-Oct	49.96	49.99	49.99	49.92	49.97	49.97	14.20	75.00	10.80	75.00	50.20	13.03.00	49.71	19.18.30	50.11	0:00	49.83	0:00
06-Oct	49.97	50.01	49.99	49.95	49.93	49.98	6.10	84.20	9.70	84.20	50.17	09.03.10	49.74	18.27.10	50.09	0:00	49.82	0:00
07-Oct	49.93	50.02	49.98	49.97	49.93	49.97	9.64	79.34	11.02	79.34	50.17	06.03.10	49.79	00.31.40	50.08	0:00	49.87	0:00
08-Oct	49.95	49.90	49.93	49.96	49.99	49.94	0.00	0.00	0.00	0.00	0.00	0:00	0.00	0:00	0.00	0:00	0.00	0:00
09-Oct	49.95	49.98	49.96	49.97	49.93	49.96	9.40	83.90	6.70	83.90	50.18	06.02.50	49.77	18.13.00	50.08	0:00	49.86	0:00
10-Oct	49.95	49.93	49.95	50.00	49.96	49.96	12.50	81.00	6.50	81.00	50.14	08.02.30	49.79	06.19.30	50.05	0:00	49.84	0:00
11-Oct	49.98	49.99	49.97	49.98	49.99	49.98	9.40	77.90	12.70	77.90	50.17	06.03.10	49.73	16.46.30	50.12	0:00	49.81	0:00
12-Oct	49.94	49.97	49.96	50.02	50.00	49.97	7.54	79.33	13.13	79.33	50.13	20.01.00	49.77	04.53.20	50.05	0:00	49.83	0:00
13-Oct	49.95	50.00	49.97	50.00	49.96	49.98	7.53	79.34	13.13	79.34	50.19	02.35.10	49.83	14.37.30	50.09	0:00	49.88	0:00
14-Oct	49.96	49.97	49.95	49.98	49.98	49.96	9.90	83.90	6.20	83.90	50.18	06.02.30	49.75	18.23.40	50.09	0:00	49.84	0:00
15-Oct	49.98	49.93	49.93	49.99	49.99	49.96	0.00	0.00	0.00	0.00	0.00	0:00	49.81	0:00	0.00	0:00	0.00	0:00
16-Oct	49.97	49.96	49.96	50.00	49.98	49.97	6.50	83.80	9.70	83.80	50.13	22.00.50	49.78	00.18.50	50.08	0:00	49.87	0:00
17-Oct	49.98	49.97	49.99	50.01	49.97	49.98	15.84	77.64	5.74	77.64	50.13	12.03.30	49.82	21.17.00	50.03	0:00	49.86	0:00
18-Oct	49.96	50.00	49.99	50.01	49.95	49.99	3.40	82.90	13.70	82.90	50.13	06.01.40	49.82	23.19.30	50.07	0:00	49.91	0:00
19-Oct	49.96	49.98	50.00	50.00	49.96	49.98	4.14	85.34	10.52	85.34	50.14	06.02.40	49.69	22.07.20	50.07	0:00	49.90	0:00
20-Oct	49.95	49.95	49.94	49.94	49.89	49.94	19.10	76.60	4.30	76.60	50.12	06.02.00	49.71	17.24.10	50.06	0:00	49.76	0:00
21-Oct	49.89	49.91	49.94	49.97	49.94	49.93	26.30	70.50	3.20	70.50	50.11	21.59.10	49.69	05.14.30	50.05	0:00	49.79	0:00
22-Oct	49.93	49.88	49.89	49.95	49.91	49.91	37.63	60.23	2.14	60.23	50.11	13.02.30	49.73	16.42.10	50.06	0:00	49.76	0:00
23-Oct	49.92	49.93	49.94	49.96	49.98	49.94	23.23	71.13	5.64	71.13	50.12	12.02.40	49.73	17.24.10	50.06	0:00	49.76	0:00
24-Oct	49.95	49.94	49.95	49.99	50.01	49.96	9.94	82.03	8.03	82.03	50.19	12.02.10	49.76	18.24.40	50.07	0:00	49.83	0:00
25-Oct	49.99	49.97	49.97	49.98	50.01	49.98	10.50	76.50	13.00	76.50	50.15	13.01.20	49.76	17.45.40	50.08	0:00	49.85	0:00
26-Oct	49.97	49.96	49.99	50.00	49.98	49.98	5.30	84.80	9.90	84.80	50.17	13.03.00	49.80	06.23.20	50.09	0:00	49.84	0:00
27-Oct	49.94	49.99	49.96	49.98	49.97	49.97	10.80	80.90	8.30	80.90	50.16	13.04.40	49.78	17.44.20	50.11	0:00	49.84	0:00
28-Oct	49.93	49.98	50.02	50.01	50.02	49.99	4.20	78.50	17.30	78.50	50.20	12.02.20	49.84	5.13.04	50.11	0:00	49.89	0:00
29-Oct	49.96	49.94	49.98	50.00	50.02	49.97	7.23	80.13	12.64	80.13	50.14	12.05.30	49.82	09.11.10	50.08	0:00	49.86	0:00
30-Oct	49.95	49.96	49.94	49.94	49.95	49.95	14.80	80.60	4.60	80.60	50.12	06.02.00	49.74	19.22.40	50.07	0:00	49.83	0:00
31-Oct	49.97	49.94	49.95	49.94	49.95	49.95	17.80	75.90	6.30	75.90	50.18	06.01.10	49.77	16.29.10	50.09	0:00	49.83	0:00
MAX	49.99	50.02	50.02	50.02	50.02	49.99	37.63	87.00	17.30	87.00	50.20		49.84		50.12		49.91	
MIN	49.89	49.88	49.89	49.92	49.89	49.91	3.40	60.23	2.14	60.23	50.11		49.69		50.03		49.76	
AVG	49.95	49.96	49.96	49.98	49.96	49.96	11.86	79.36	8.76	79.36	50.15		49.77		50.07		49.84	

SUMMARY:

Avg. Frequency :

49.96 Hz.

Instantaneous Frequency :

Maximum Frequency : 50.20 Hz at 13.03.00 Hrs.

Minimum Frequency : 49.69 Hz at 17.24.10 Hrs.

15 Minutes Integrated Frequency :

Maximum Frequency : 50.12 Hz On 00/01/00 at 00:00 Hrs.

Minimum Frequency : 49.76 Hz On 00/01/00 at 00:00 Hrs

Frequency Distribution in % of Time			
Hz	<49.9	49.9-50.05	>50.05
% of Time	11.86	79.36	8.76

VOLTAGE ANALYSIS

MAXIMUM & MINIMUM VOLTAGES RECORDED AT IMPORTANT 400 kV S/S IN THE MONTH OF OCTOBER'2018

(All figs. in kV)

PGCIL	BINAGURI		MAITHON		JEERAT		BIHARSHARIFF	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	427	375	420	408	424	381	418	401

PGCIL	MUZAFFARPUR		JAMSHEDPUR		ROURKELA		JEYPORE	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	416	371	429	388	411	403	414	400

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

Oct-18

(All figs.in mtrs.)

Name of the Reservoirs	FRL	MDDL	As on last day of the		As on first day of this month & date	
			(31-10-18)	(31-10-17)		
Hirakud	192	180	191.16	191.81	191.89	01.10.18
Balimela	462	439	460.77	453.12	461.86	01.10.18
Rengali	123	109	118.75	123.26	121.61	01.10.18
Upperkolab	858	844	855.96	854.06	857.11	01.10.18
Indravati	642	625	639.46	636.44	641.08	01.10.18
Subernrekha	590	580	586.10	587.75	586.71	01.10.18

B.

CPP/IPP IMPORT by Eastern Region Constituents during

Oct-18

(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	50.71
West Bengal	71.60	23.97	0	0	0	0	0	34.52	130.09
ODISHA	0	0	66.90	0.79	8.38	41.83	0	376.23	494.13
DVC	0	0	0	0	0	0	8.10	0	8.10
TOTAL	71.60	23.97	66.90	0.79	8.38	41.83	8.10	410.75	683.01

C.

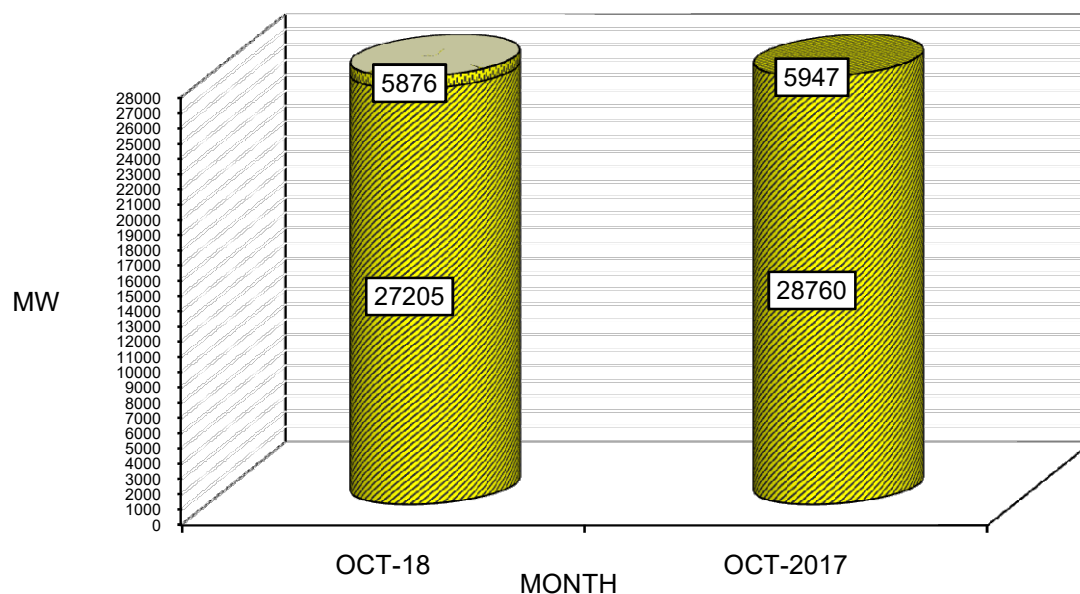
Distribution of Schedule Supply among Key Customers by IPPs during

Oct-18

(All figs. are in MU)

IPP	TPDDL	WBSEDCL/ WBPDCCL	DVC *	Sale at IEX/NPCL	ODISHA	JSEB	CTU/Others	Total (Excl. Tr. Loss)
MPL	162.89	156.41	81.94	0.00	0	0	163.62	564.86
Sterlite	0	0	0	0	0.00	0	0.00	0.00
APNRL	0	52.24	0	3.19	0.00	113.25	61.08	229.76
Total	162.89	208.65	81.94	3.19	0.00	113.25	224.70	794.62

EFFECTIVE CAPACITY OF EASTERN REGIONAL GRID

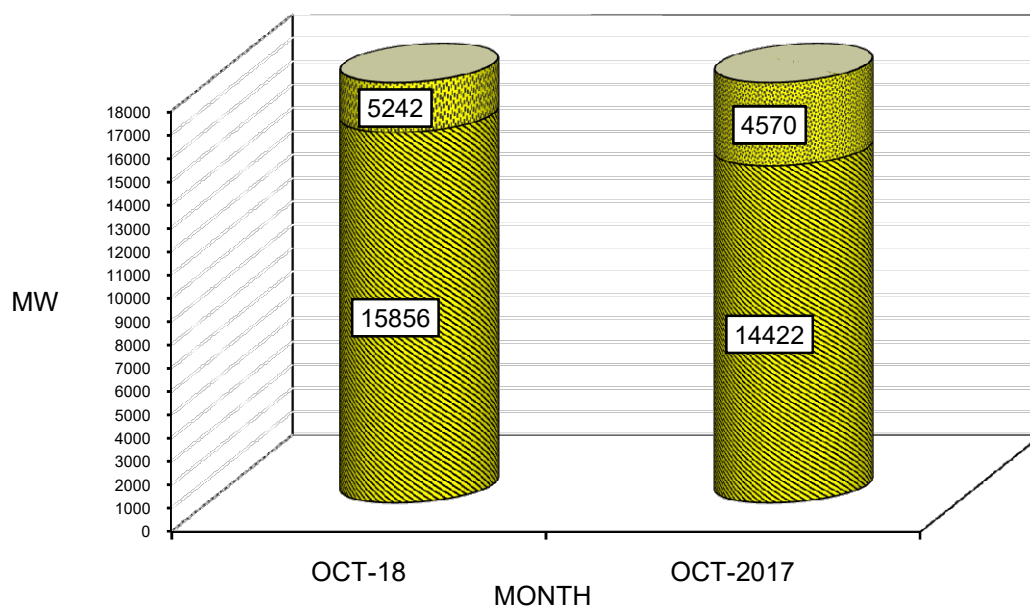


■ HYDRO *

■ THERMAL

*Excludes 1350 MW contribution from HEPs of Bhutan

GENERATION CORRESPONDING TO PEAK DEMAND MET

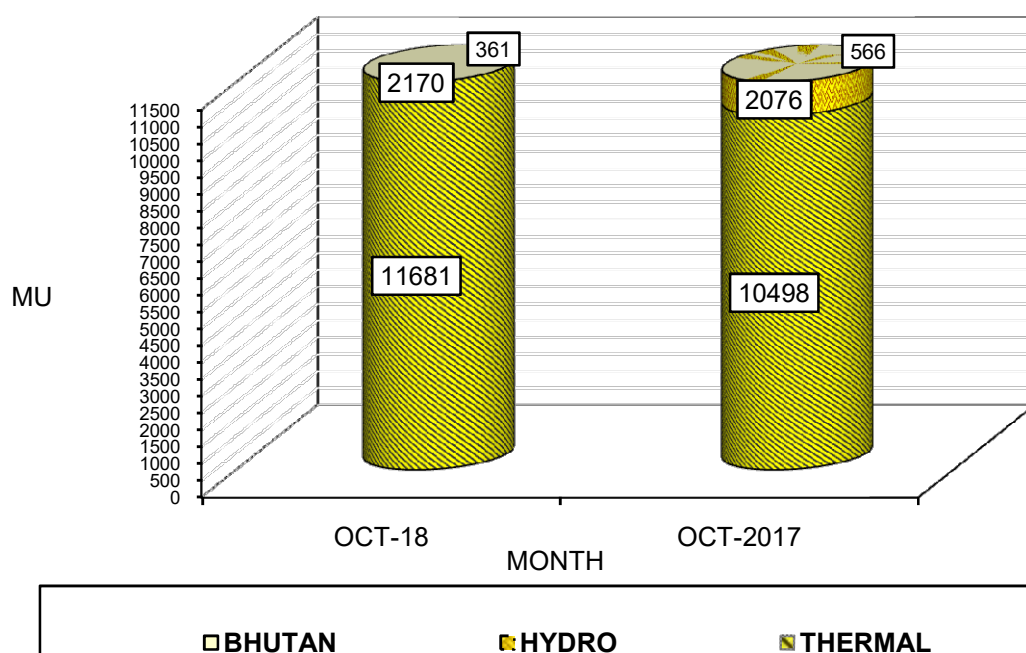


■ THERMAL

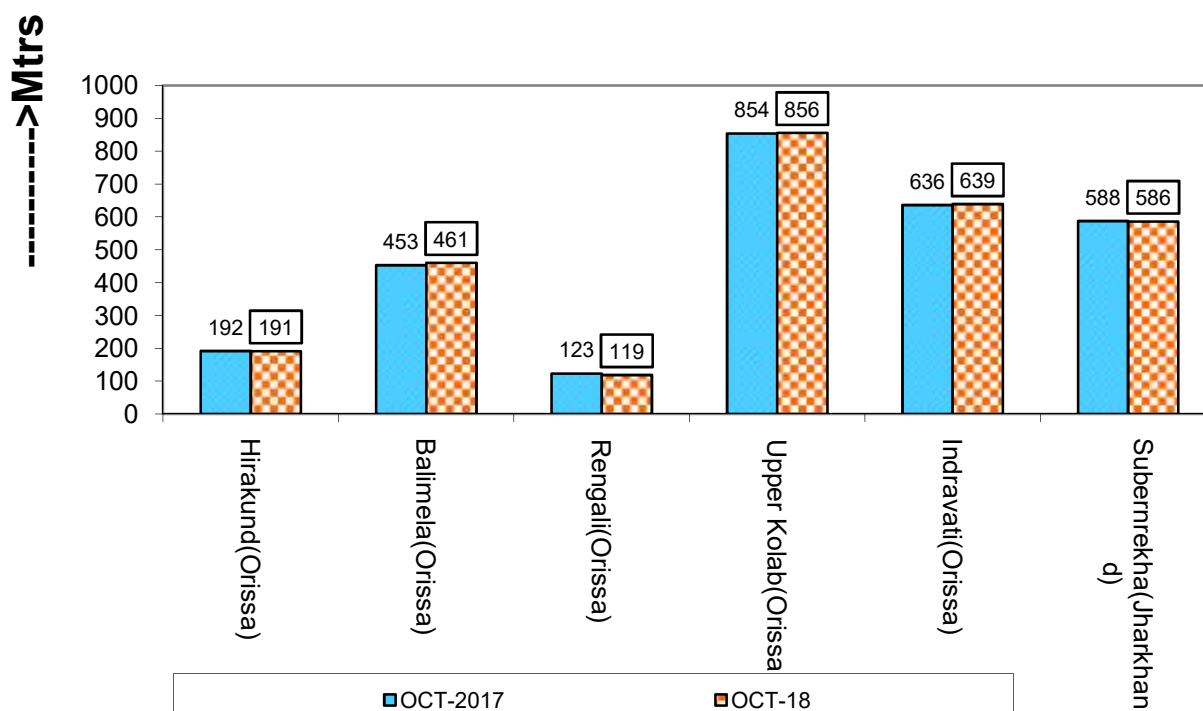
■ HYDRO *

*Includes contribution from HEP of Bhutan

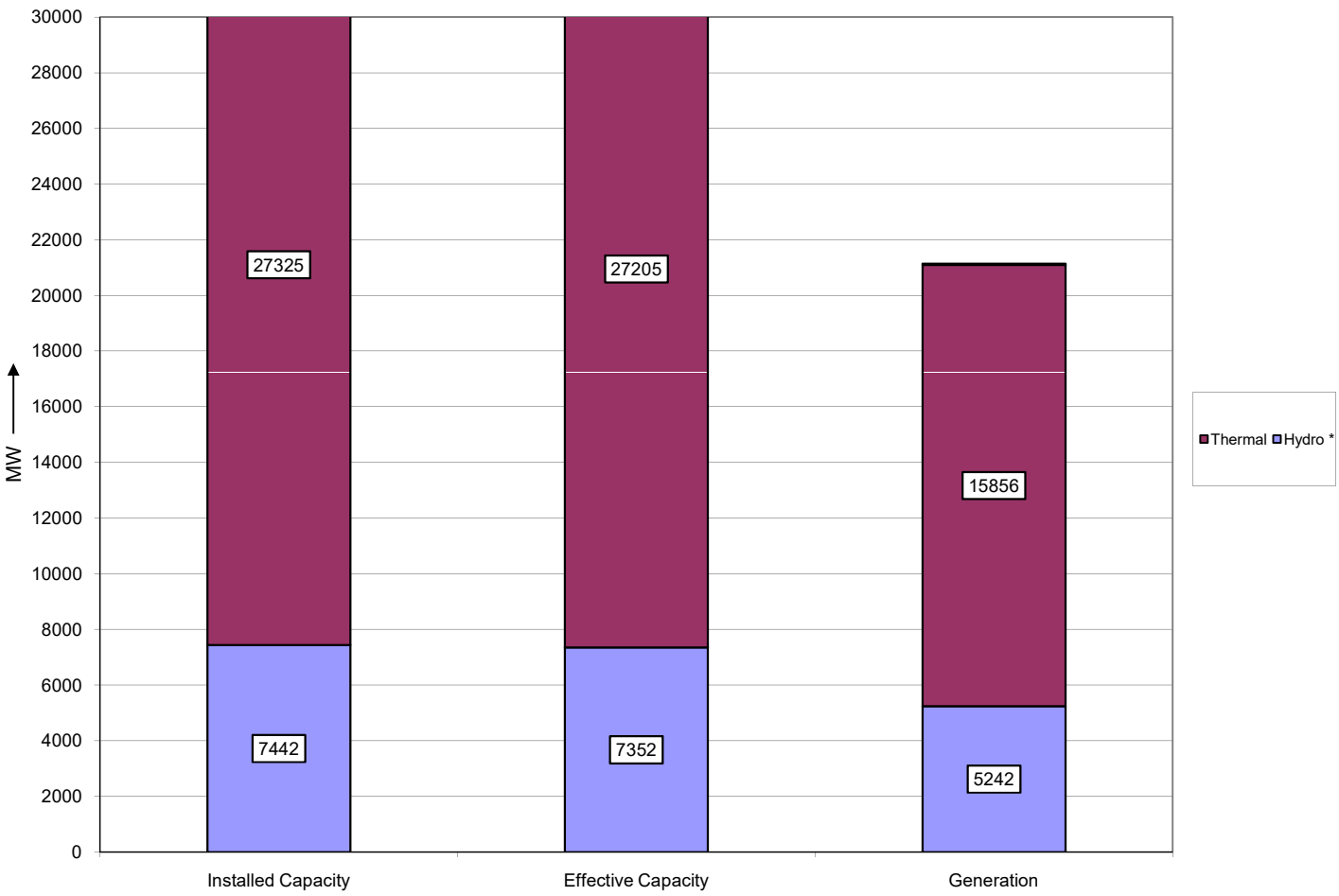
NET ENERGY GENERATION



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

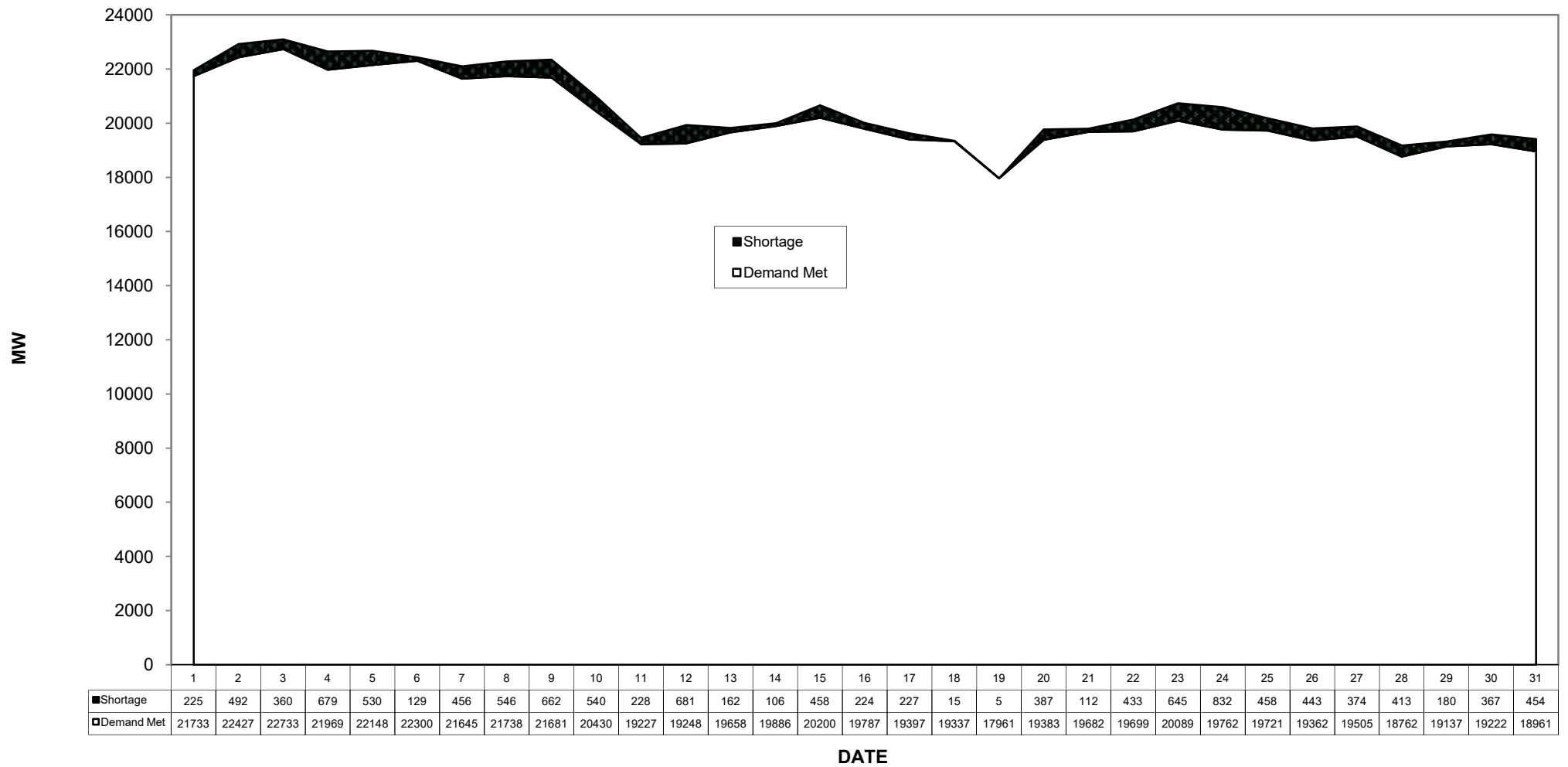


Capacity / Actual Generation Pattern of ER on Peak Day (3-10-2018) at 21.00 hrs.

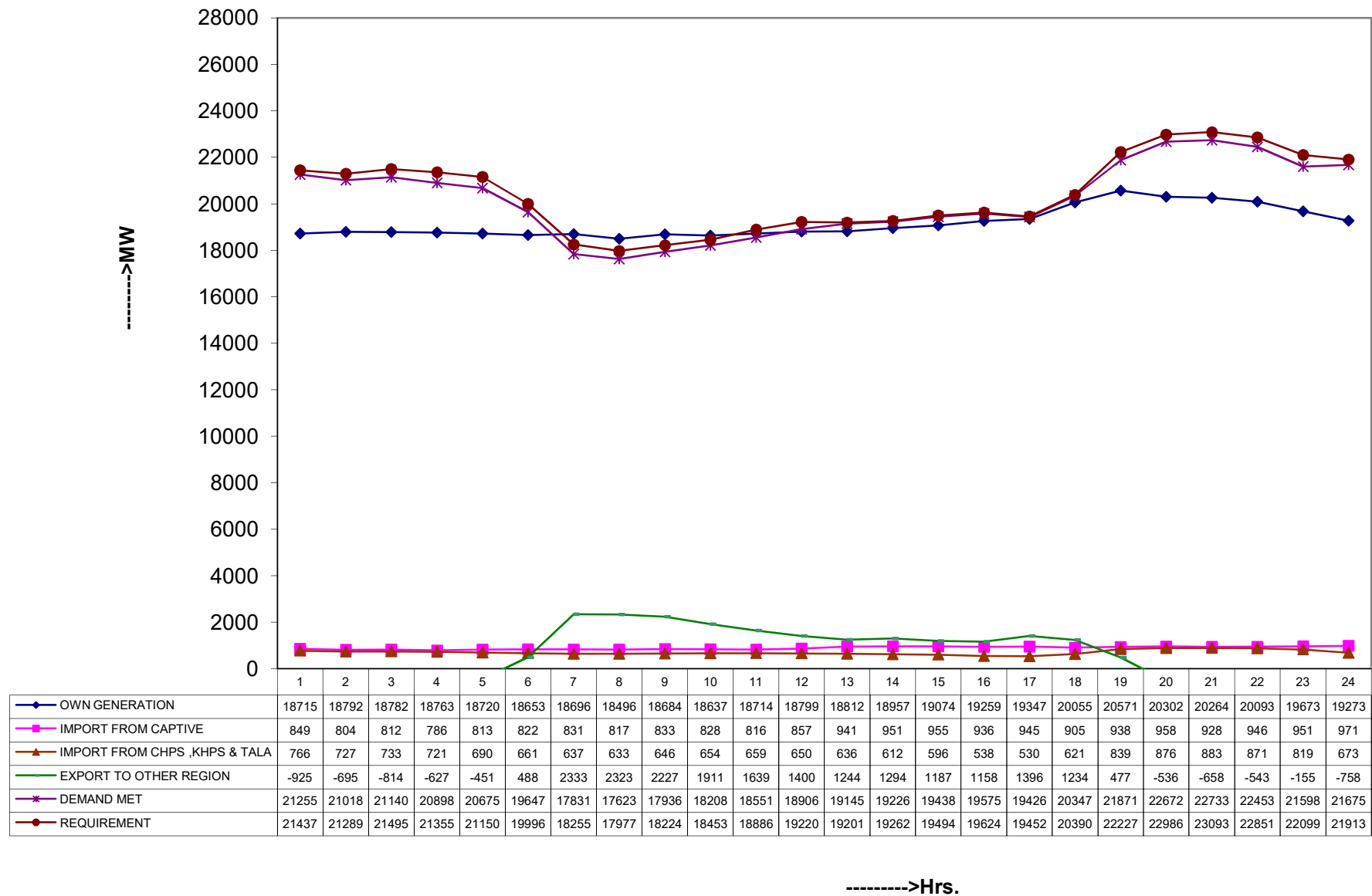


(*)--Includes contribution from HEP of Bhutan (Chukka, Kurichhu & Tala)

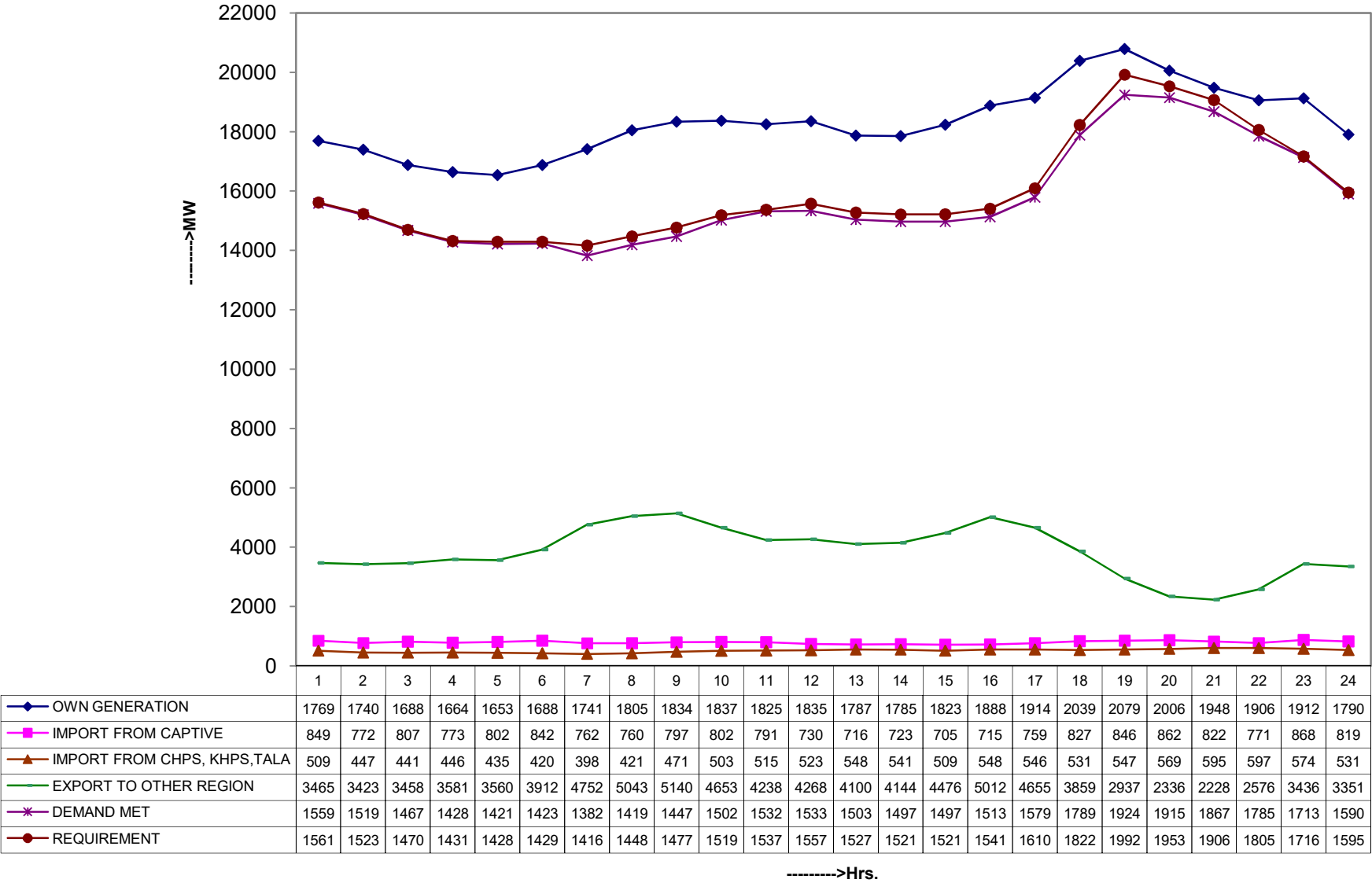
Peak Demand Met / Shortage of Eastern Region For The Month Of OCTOBER'2018



Hourly Load Generation Data of ER of Regional Peak Day During The Month of OCTOBER'2018 (3-10-2018)

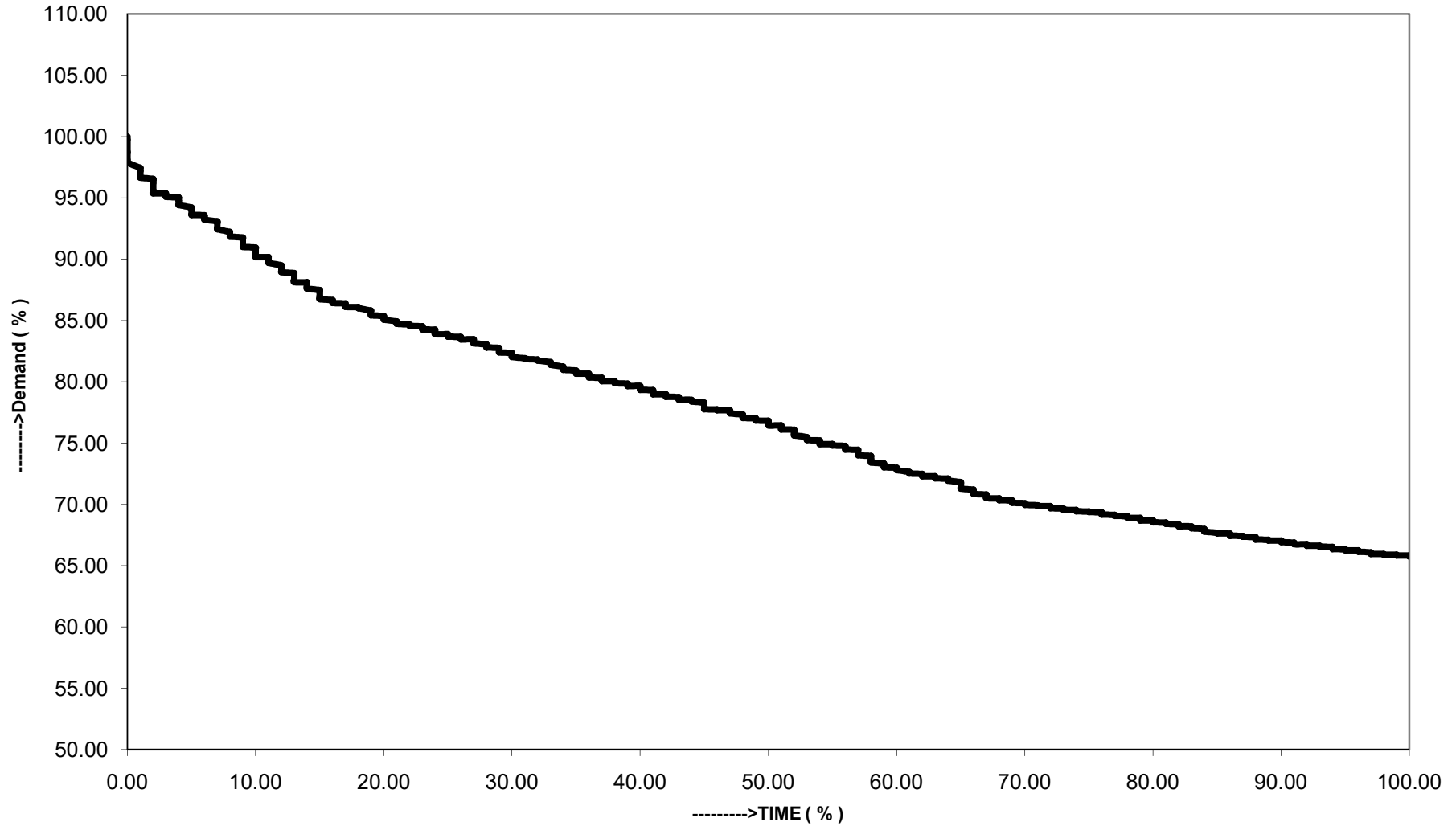


Hourly Load Generation Data of ER On Regional Lean Day During The Month of OCTOBER'2018 (12-10-2018)



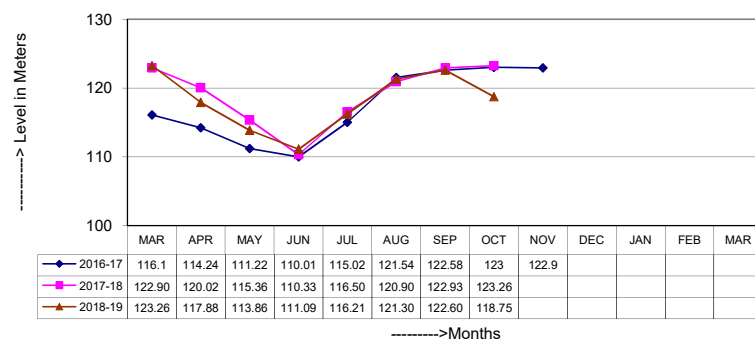
Monthly Load Duration Curve of Eastern Region for OCT-18

Maximum Demand met : 22733 MW
Minimum Demand met: 13825 MW

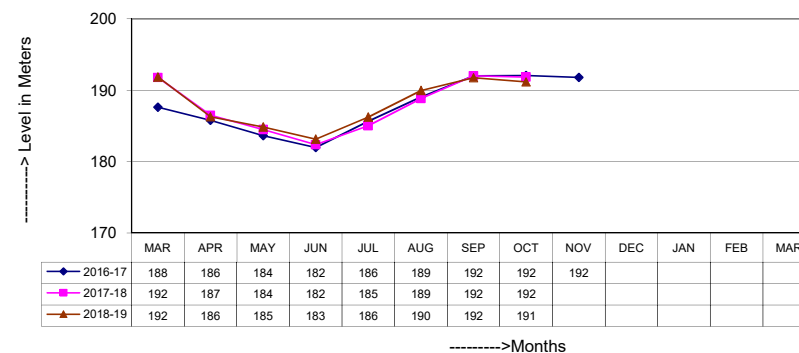


WATER LEVEL IN MAJOR RESERVOIRS ON LAST DATE OF MONTH

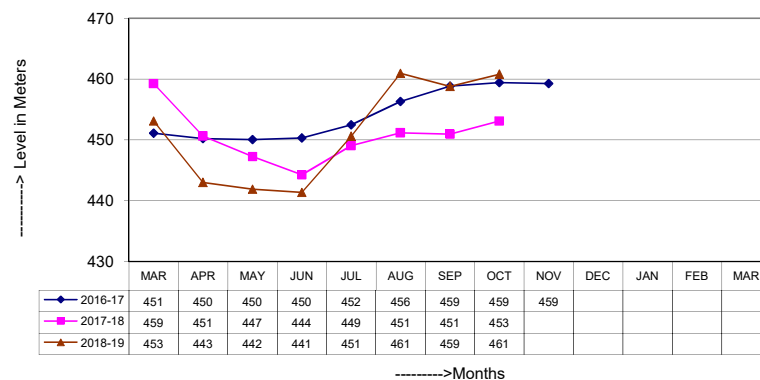
RENGALI RESERVOIR LEVEL



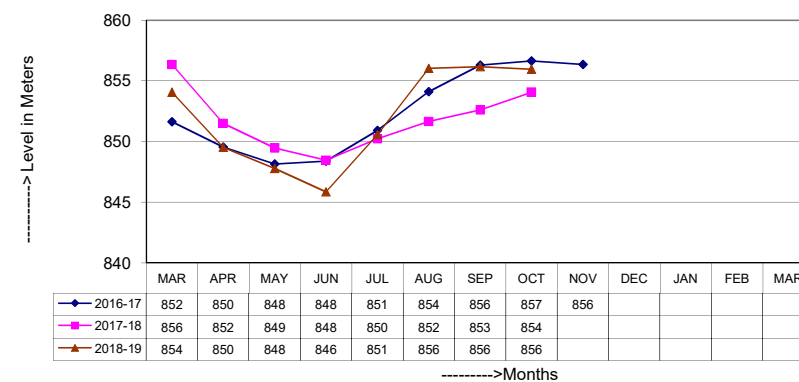
HIRAKUD RESERVOIR LEVEL



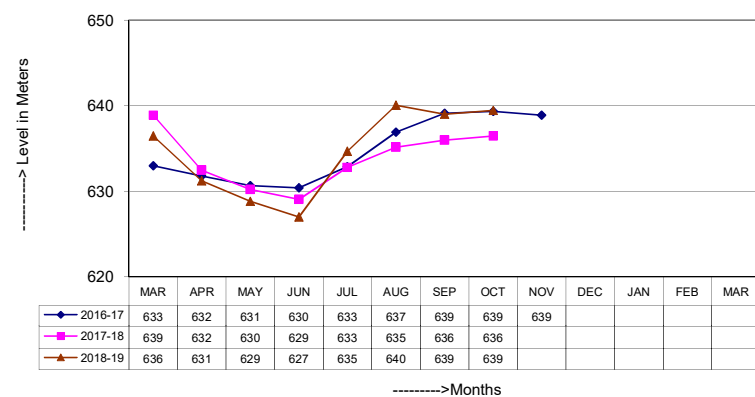
BALIMELA RESERVOIR LEVEL



UPPER KOLAB RESERVOIR LEVEL



INDRAVATI RESERVOIR LEVEL



SUBERNREKHA RESERVOIR LEVEL

