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Highlights of Eastern Regional Power System for May-2017

- The **Maximum Net Demand** met of **Eastern Region (ER)** during the month of **May, 2017** was **19509 MW** which is 6.57% more than the **May, 2016** (18306 MW). Individual **Peak Demand (MW)** of majority constituents **increased** compared to the corresponding period of last year.
- The **Average Net Energy Consumption** per day in ER for the month of **May, 2017** was **403.57 MU** excluding export, which is 15.19% more than the corresponding period of last year (350.35 MU).
- The **Average regional PLF of thermal units 63.40% during the month**, which is 1.11% more than the corresponding period of the last year (62.29%).
- **Talcher II (GRIDCO)** registered the highest **PLF** of 102.89%, followed by **CESC (Budge Budge) (100.05%)** & **Talcher I (GRIDCO) 94.39%** during the month of **May' 2017**.
- **Total Net generation** of ER was **22108 MW** against total **Effective Capacity of 36102 MW** (including that of Bhutan), and import from CPPs was 1093 MW at the time of Regional peak (19509 MW on 02.05.17 at 20.00 hrs.)
- The **IEGC frequency** band has been revised w.e.f. 17.02.2014 and the system frequency in the new recommended band (49.9 Hz to 50.05 Hz) remained for 71.71% of time during the period. **Average frequency** for the month was **49.98 Hz**. The instantaneous maximum and the minimum frequency touched were 50.32 Hz and 49.64 Hz respectively. The integrated (Fifteen minutes time block average) maximum and minimum frequency were **50.20 Hz** and **49.73 Hz** respectively (**refer Annexure-I**).
- The **Maximum Voltage** recorded **429 KV** at Jamshedpur 400 KV S/s whereas the minimum voltage recorded 363 KV at Muzaffarpur 400 KV S/s of Power grid.
- The **Maximum Export from ER to outside region was 6158 MW on 2nd May'17 at 1.00 hrs.** Total net energy export during the month was **1935.26 MU** (including transmission loss), which corresponds to 13.65% of ex-bus total generation (12167.00 MU) of Eastern Region and 24.37 more than the corresponding period of previous year.
- The **import from CPPs/IPP**s was **1741.08 MU**, which is 5.33% more than corresponding period of last year (**1653.00 MU**).

- The **Total Energy Exchange between Nepal and Bihar (ER)** was:

Export / Import by Bihar	May, 2017(In MU)	Cum. (Apr'17- May'17) in MU
Export to NEPAL by Bihar (NBPDC)	116.55	232.99
Export to NEPAL by NVVN	0	0

- The **total energy exchange between India & Bangladesh** was:

Export	During May, 2017(In MU)	Cum. (Apr'17- May'17) in MU
Exchange between India & Bangladesh	352.66	697.04

- **Export(+)/Import(-) Scenario:**

Region	Max. Export of Power ER (MW)	Max. Import of Power by ER (MW)	Net Export of Energy (MU)
NR	4832	298	1649.94
WR	1544	2423	-425.53
SR	2109	381	770.15
NER	1056	898	199.18

SALIENT FEATURES

(YEAR TO YEAR COMPARISION)

		May-17		MAY-2016	CHANGE	% CHANGE
1)	Effective Capacity (end of the Month)					
	THERMAL (MW)	28855		29155	-300	-1.03
	HYDRO (MW)	5754	\$	4686	1068	23
	DIESEL (MW)	7		7	0	0
	SOLAR (MW)	10		10	0	0
	TOTAL (MW)	34626		33858	768	2.27
2)	Peak Demand (MW)	19664		18600	1064	5.72
3)	Peak Demand Met (MW)	19509		18306	1203	6.57
4)	Shortage (MW)	155		294	-139	-47.40
5)	% Shortage	0.79		1.58	-0.79	-50.23
6)	Average Energy Requirement Per Day (MU)	408.38		355.45	52.93	14.89
7)	Average Energy Availability Per Day (MU)	403.57		350.35	53.22	15.19
8)	Average Shortage Per Day (MU)	4.81		5.10	-0.29	-5.68
9)	% Shortage	1.18		1.44	-0.26	-18.20
10)	Net Generation for the Month					
	Thermal (MU)	12167.30		11657.85	509.45	4.37
	Hydro (MU)	2010.58	*	1140.92	869.65	76.22
	Diesel (MU)	0.00		0.00	0.00	-
	Total (MU)	14178		12800.00	1377.88	10.76
11)	Generation at the Time of Max. Regional Demand Met (02-05-17 at 20.00 Hrs.)					
	Thermal (MW)	18095		16750	1345	8.03
	Hydro (MW)	4013	*	2014	1999	99.24
	Diesel (MW)	0		0	0	-
	Total (MW)	22108		18764	3344	17.82
12)	Inter-Regional Energy Transfer					
	Export (MU)	2713.46		2012.56	700.90	34.83
	Import (MU)	778.19		0.00	778.19	-
	Net Exp.(+)/Net Imp.(-) (MU)	1935.26		2012.56	-77.30	-3.84
13)	Import From Captive(MU)	1741.08		1653.04	88.04	5.33
14)	Peak Inter Regional Power Transfer					
	Max Export (MW) on 02-05-17 at 01.00Hrs	6158		4937	1221	24.73
	Max Import (MW) on 14-05-17 at 20.00Hrs	2423		1608	815	50.70
	Max Net Export(+)/Import (-) (MW) on 00-01-00 at 00.00Hrs	5237		4607	630	13.68
15)	Maximum voltage recorded	429		JAMSHEDPUR	400 kv	s/s
16)	Minimum voltage recorded	363		MUZAFFARPUR	400 kv	s/s

\$ Excludes 1350 MW contribution from HEPs of Bhutan

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

POWER SUPPLY POSITION FOR THE MONTH OF MAY-2017

A) Net Average Energy Per Day

System	Demand Met (MU/Day)	Requirement (MU/Day)	Shortage (MU/Day)	% Shortage
BSEB	80.45	83.91	3.46	4.12
JSEB	24.74	24.82	0.08	0.31
DVC	56.36	56.62	0.26	0.46
ODISHA	85.21	85.26	0.05	0.06
WBSIEDCL	113.24	114.18	0.94	0.82
CESC	36.19	36.21	0.02	0.06
DPL	5.98	5.98	0.00	0.06
SIKKIM	1.40	1.40	0.00	0.06
REGION	403.57	408.38	4.81	1.18

B) Peak Demand in MW:

System	Demand Met (MW)	Requirement (MW)	Shortage (MW)	% Shortage
BSEB	4062	4164	102	2.45
JSEB	1217	1218	1	0.09
DVC	2726	2726	0	0.00
ODISHA	4149	4155	7	0.16
WBSIEDCL	5877	5907	30	0.50
CESC	2110	2112	2	0.1
DPL	274	274	0	0.01
SIKKIM	83	83	0	0.00
REGION	19509	19664	155	1

➤ DIVERSITY FACTOR : 1.05

➤ Regional Peak Demand Met on 2-5-2017 at 20.00 hrs. at 49.96 Hz.

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

A) Net Average Energy

Month	2016-17					2017-18				
	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	385.58	390.83	5.25	1.34	49.97	401.99	405.85	3.86	0.95	49.98
MAY	353.14	358.24	5.10	1.42	50.00	403.57	408.38	4.81	1.18	49.98
JUNE	377.01	380.64	3.63	0.95	49.99	-	-	-	-	-
JULY	370.16	371.83	1.67	0.45	50.00	-	-	-	-	-
AUGUST	370.20	372.52	2.31	0.62	49.99	-	-	-	-	-
SEPTEMBER	364.20	367.43	3.23	0.88	49.99	-	-	-	-	-
OCTOBER	378.10	380.17	2.07	0.54	49.99	-	-	-	-	-
NOVEMBER	316.27	318.04	1.77	0.56	49.98	-	-	-	-	-
DECEMBER	0.00	0.00	0.00	#DIV/0!	0.00	-	-	-	-	-
JANUARY	0.00	0.00	0.00	#DIV/0!	0.00	-	-	-	-	-
FEBRUARY	0.00	0.00	0.00	#DIV/0!	0.00	-	-	-	-	-
MARCH	0.00	0.00	0.00	#DIV/0!	0.00	-	-	-	-	-

B) Peak in MW:

Month	2016-17					2017-18				
	Demand Met	Requirement	Shortage	Shortage	Avg. Freq.	Demand Met	Requirement	Shortage	Shortage	Avg. Freq.
	(MW)	(MW)	(MW)	(%)	(HZ)	(MW)	(MW)	(MW)	(%)	(HZ)
APRIL	18607	18861	254	1.35	49.97	19164	19387	224	1.15	49.98
MAY	18427	18721	294	1.57	50.00	19509	19664	155	0.79	49.98
JUNE	18302	18816	514	2.73	49.99	-	-	-	-	-
JULY	18338	18553	215	1.16	50.00	-	-	-	-	-
AUGUST	18418	18749	330	1.76	49.99	-	-	-	-	-
SEPTEMBER	18469	18638	169	0.91	49.99	-	-	-	-	-
OCTOBER	18930	19203	273	1.42	49.99	-	-	-	-	-
NOVEMBER	18239	18357	118	0.64	49.98	-	-	-	-	-
DECEMBER	0	0	0	#DIV/0!	0.00	-	-	-	-	-
JANUARY	0	0	0	#DIV/0!	0.00	-	-	-	-	-
FEBRUARY	0	0	0	#DIV/0!	0.00	-	-	-	-	-
MARCH	0	0	0	#DIV/0!	0.00	-	-	-	-	-

ENTITLEMENT, DRAWAL SCHEDULE (EX. BUS) AND ACTUAL DRAWAL FROM CENTRAL SECTOR GENERATION .

All figures are in MU

	FROM	Cumulative from		1-Apr-17		to		31/Mar/18		During May-17				
		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		
BSEB	FARAKKA STPS I	508.44	438.16					313.80	261.06					
	FARAKKA STPS III	145.14	122.92					74.03	57.82					
	KAHALGAON STPS I	447.76	431.83					224.55	211.84					
	KAHALGAON STPS II	100.33	110.90					51.63	59.47					
	TALCHER STPS I	467.63	457.85					232.62	224.08					
	BARH STPS II	1349.16	1252.22					663.35	608.98					
	RANGIT HEP	14.94	14.94					8.29	8.29					
	CHUKHA HEP	20.62	76.80					12.32	37.31					
	KIRUCHHU HEP	0.00	0.00					0.00	0.00					
	TALA HPS	106.53	208.63					61.46	43.83					
	TEESTA HEP	102.72	102.72					55.37	55.37					
	TOTAL	3263.27	3216.97	1077.03	4043.46	4102.97		1697.42	1568.05	586.82	2100.95	2142.38		
JSEB	FARAKKA STPS I	138.84	136.39					85.69	80.95					
	FARAKKA STPS III	46.86	47.81					23.90	23.83					
	KAHALGAON STPS I	34.24	41.78					17.17	18.14					
	KAHALGAON STPS II	25.16	107.74					12.95	26.79					
	TALCHER STPS I	86.92	86.45					43.23	42.63					
	BARH STPS II	125.63	114.96					61.77	48.10					
	RANGIT HEP	5.69	5.69					3.16	3.16					
	CHUKHA HEP	7.47	27.84					4.46	13.52					
	KIRUCHHU HEP	0.00	0.00					0.00	0.00					
	TALA HPS	47.88	27.11					27.62	19.70					
	TEESTA HEP	59.62	59.62					32.14	32.14					
	TOTAL	578.31	655.39	-1248.91	-793.36	-753.74		312.09	308.96	-1402.08	-1319.80	-1332.80		
DVC	FARAKKA STPS I	12.17	8.94					7.51	5.60					
	FARAKKA STPS III	47.85	38.80					24.41	19.76					
	KAHALGAON STPS I	7.30	5.27					3.66	2.74					
	KAHALGAON STPS II	15.37	11.22					7.91	5.89					
	TALCHER STPS I	11.60	8.19					5.77	4.13					
	RANGIT HEP	4.27	4.27					2.37	2.37					
	CHUKHA HEP	7.22	26.88					4.31	13.06					
	KIRUCHHU HEP	12.25	4.63					6.43	4.63					
	TALA HPS	23.14	13.10					13.35	9.52					
	TEESTA HEP	41.74	41.74					22.50	22.50					
	TOTAL	182.91	163.04	-818.26	-557.70	-574.74		98.22	90.20	202.68	537.90	545.48		
GRIDCO	FARAKKA STPS I	229.67	215.74					141.75	135.84					
	FARAKKA STPS III	115.67	96.62					59.00	50.21					
	KAHALGAON STPS I	168.75	166.32					84.63	84.63					
	KAHALGAON STPS II	52.80	52.03					27.17	27.17					
	TALCHER STPS (Stg-I)	366.70	366.69					182.41	182.40					
	TALCHER STPS (Stg-II)	1.44	1.44					1.44	1.44					
	BARH STPS II	260.58	182.26					128.12	104.03					
	RANGIT HEP	0.00	0.00					0.00	0.00					
	CHUKHA HEP	10.57	39.36					6.31	19.11					
	KIRUCHHU HEP	0.00	0.00					0.00	0.00					
	TALA HPS	17.75	10.06					10.24	7.31					
	TEESTA HEP	99.49	99.49					53.63	53.63					
	TOTAL	1323.42	1230.01	177.92	1466.97	1510.56		694.70	665.77	29.96	785.19	811.32		
WBSEDCL	FARAKKA STPS I	509.42	407.82					314.41	234.38					
	FARAKKA STPS III	217.17	185.21					110.77	86.35					
	KAHALGAON STPS I	9.83	2.45					4.93	0.81					
	KAHALGAON STPS II	18.52	6.00					9.53	2.14					
	TALCHER STPS I	113.59	106.67					56.50	52.55					
	RANGIT HEP	12.09	12.09					6.71	6.71					
	CHUKHA HEP	22.17	82.56					13.24	40.11					
	KIRUCHHU HEP	12.25	4.63					6.43	4.63					
	TALA HPS	159.80	90.47					92.19	65.75					
	TEESTA HEP	115.87	115.87					62.46	62.46					
	TOTAL	1190.71	1013.77	1091.10	2543.82	2647.80		677.17	555.89	553.00	1155.99	1217.80		
SIKKIM	FARAKKA STPS I	26.39	16.80					16.29	9.23					
	FARAKKA STPS III	0.00	0.00					0.00	0.00					
	KAHALGAON STPS I	16.59	14.34					8.32	6.99					
	KAHALGAON STPS II	6.65	5.83					3.42	2.95					
	TALCHER STPS I	27.21	26.89					13.54	13.42					
	BARH STPS II	26.74	22.65					13.15	13.15					
	RANGIT HEP	5.69	5.69					3.16	3.16					
	CHUKHA HEP	1.54	5.76					0.92	2.80					
	KIRUCHHU HEP	0.00	0.00					0.00	0.00					
	TEESTA HEP	63.73	63.73					34.35	34.35					
	TOTAL	174.54	161.69	-26.18	70.30	72.07		93.15	86.05	-51.08	31.74	36.29		
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	-534.53	-430.08					-275.07	-214.05					
	TALCHER STPS I	0.00	0.00					0.00	0.00					
	BARH STPS II	0.00	0.00					0.00	0.00					
	TOTAL	-534.53	-430.08	312.17	221.60	1259.46		-275.07	-214.05	-285.07	-114.05	425.53		
SR	FARAKKA STPS I	-20.89	-29.39					-12.89	-18.98					
	KAHALGAON STPS I	-7.48	-10.43					-3.76	-4.91					
	KAHALGAON STPS II	0.00	0.00					0.00	0.00					
	TALCHER STPS STG-I	-9.56	-9.63					-4.79	-4.79					
	TALCHER STPS STG-II	0.00	0.00					0.00	0.00					
	TOTAL	-37.93	-49.45	-481.27	-1373.55	-1733.26		-21.44	-28.68	-433.24	-537.95	-770.15		
NR	FARAKKA STPS I	-114.82	-84.40					-70.86	-55.01					
	KAHALGAON STPS I	-331.33	-241.61					-166.41	-131.41					
	KAHALGAON STPS II	-1130.11	-866.90					-581.56	-474.71					
	TALCHER STPS I	0.00	0.00					0.00	0.00					
	TALA HPS	-64.26	-35.48					-36.15	-25.79					
	TOTAL	-1640.52	-1228.39	-472.28	-4197.39	-4473.64		-854.98	-686.92	889.32	-1521.42	-1649.94		
WR+SR+NR (GRAND TOTAL)		-2212.98	-1707.92	-641.38	-5349.34	-4947.44		-1151.49	-929.65	171.01	-2173.42	-1994.56		
NER	FARAKKA STPS I	-53.61	-48.58					-33.09	-31.71					
	FARAKKA STPS III	-0.62	-0.55					-0.32	-0.43					
	KAHALGAON STPS I	-31.61	-30.89					-15.85	-15.00					
	KAHALGAON STPS II	-104.47	-96.11					-53.76	-50.65					
	TALCHER STPS I	-33.45	-31.04					-16.64	-15.79	13.87	-142.95	-199.18		
	TOTAL	-223.76	-207.17	12.11	-94.21	-2.97		-119.66	-113.58					

PERFORMANCE OF GENERATING STATIONS IN THE EASTERN REGION DURING THE MONTH OF MAY-2017

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 (2017-18) in MU	Cummulative Net Energy Generation upto Current Month (2017-18) in MU
BIHAR	Thermal	Barauni (U# 6&7)	220.00	210.00	10.44	9.40	34.31	33.27
		Muzaffarpur	415.00	415.00	72.32	65.09	136.44	120.41
		Thermal Total	635.00	625.00	82.77	74.49	170.75	153.68
	Hydro	Kosi	20.00	20.00	0.00	0.00	0.00	0.00
		Dehri & others	24.90	24.90	30.89	30.89	30.89	30.89
		Total Hydro	44.90	44.90	30.89	30.89	30.89	30.89
	Total BIHAR		679.90	669.90	113.65	105.38	201.64	184.56
	JHARKHAND							
TVNL	Thermal	TVNL	420.00	420.00	119.87	101.83	225.73	191.63
JSEB	Thermal	Patratu	480.00	455.00	0.00	0.00	0.00	0.00
	Hydro	Subarnrekha (U#1,2)	130.00	130.00	3.70	3.52	5.05	4.86
	Total		610.00	585.00	3.70	3.52	5.05	4.86
DVC	Thermal	Bokaro-B(1,2,3)	630.00	630.00	144.37	125.41	232.62	200.71
		Chandrapura (2,3)	280.00	260.00	85.51	74.95	206.99	183.07
		Chandrapura(U7 # 8)	500.00	500.00	335.34	296.95	621.30	539.58
		Durgapur(3,4)	350.00	350.00	77.55	67.38	145.68	126.48
		Mezia(1,2,3,4,5,6)	1340.00	1340.00	685.96	612.84	1294.30	1154.34
		Mezia(U # 7,8)	1000.00	1000.00	568.10	539.65	1202.19	1143.93
		Bokaro-A(1,2)	500.00	500.00	85.08	77.99	373.39	350.18
		Durgapur STPS (U#1,2)	1000.00	1000.00	582.60	553.58	1198.73	1139.67
		Raghunathpur TPS (U#1,2)	1200.00	1200.00	270.68	249.36	310.95	283.21
		Koderma STPS (U#1,2)	1000.00	1000.00	464.10	438.44	774.03	731.30
	Total Thermal		7800.00	7780.00	3299.29	3036.55	6360.17	5852.46
	Hydro	Maithon (U#1,2,3)	63.20	63.20	8.34	8.30	24.64	24.56
		Panchet (U#1,2)	80.00	80.00	1.33	1.27	4.63	4.51
		Tilaya (U#1,2)	4.00	4.00	0.00	0.00	0.00	0.00
		Hydro Total	147.20	147.20	9.67	9.56	29.27	29.04
Total DVC		7947.20	7927.20	3308.96	3046.11	6389.44	5881.50	
WEST BENGAL								
WBPDC	Thermal	Bandel TPS	540.00	450.00	191.93	170.92	381.46	339.74
		Santalidih TPS(U#5&6)	500.00	500.00	322.42	295.71	649.21	595.32
		Kolaghat TPS	1260.00	1260.00	398.73	352.21	765.47	675.75
		Bakreswar TPP	1050.00	1050.00	683.08	618.01	1323.41	1196.43
		Sagardighi TPP	1600.00	1600.00	494.93	443.97	1032.35	923.04
		Thermal Total	4950.00	4860.00	2091.09	1880.82	4151.88	3730.26
WBSEDCL	Hydro	Jaldhaka (3x9+2x4)	35.00	35.00	23.23	23.23	40.84	40.84
		Ramam (4x12.73)	51.00	51.00	14.59	14.59	22.84	22.84
		Teesta C.F. (3x3x7.3)	67.30	67.30	12.12	12.12	23.32	23.32
		Small hydro	12.00	12.00	0.00	0.00	0.00	0.00
		Purulia PSS (4x225)	900.00	900.00	81.88	81.88	152.65	152.65
		Total Hydro	1065.30	1065.30	131.83	131.83	239.65	239.65
DPL	Thermal	DPPS (110+300+250 *)	660.00	660.00	353.35	339.49	594.18	556.01
➤ 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	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	(2017-18) in MU	(2017-18) 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	31.91	28.97	60.48	54.90
		Budge-Budge (3x250)	750.00	750.00	558.30	514.91	1100.56	1015.55
		Total CESC	1125.00	1125.00	590.21	543.89	1161.04	1070.45
HEL	Thermal	HEL	600.00	600.00	385.45	354.45	743.95	676.13
		Total West Bengal	8692.30	8602.30	3551.93	3250.47	6890.70	6272.51
ODISHA (NTPC)	Thermal	Talcher-I	250.00	240.00	168.54	150.61	309.26	276.25
		Talcher-II	220.00	220.00	168.40	150.48	337.71	301.64
		Total Thermal	470.00	460.00	336.94	301.09	646.97	577.89
OPGC	Thermal	IB TPS	420.00	420.00	266.93	237.19	521.95	463.78
		Vedanta #2	600.00	600.00	173.58	164.03	173.58	164.03
		GMR #3	350.00	350.00	41.18	38.50	41.18	38.50
OHPC	Hydro	Hirakud-I (Burla)	275.50	275.50	27.09	26.82	52.47	51.95
		Hirakud-II (Chiplima)	72.00	72.00	13.25	13.20	30.21	30.09
		Balimela (6x60+2x75)	510.00	510.00	208.64	207.95	387.55	386.22
		Rengali (5x50)	250.00	250.00	108.81	108.68	136.92	136.68
		Upper Kolab (4x80)	320.00	320.00	81.74	81.52	168.10	167.71
		Indravati HPS (4x150)	600.00	600.00	172.44	172.28	382.84	382.53
		Mckd.(Odisha drawal)	57.38	57.38	29.08	29.08	61.40	61.40
		Total Hydro	2084.88	2084.88	641.05	639.52	1219.48	1216.58
		Total Odisha	3924.88	3914.88	1192.75	1155.37	2081.21	2009.23
(**) SIKKIM	Hydro	Mini Hydro	14.00	14.00	3.00	3.00	6.00	6.00
		^ Diesel	7.10	7.10				
NTPC	Thermal	FSTPP# I&II (3x200+2x500)	1600.00	1600.00	910.94	842.62	1495.03	1382.91
		FSTPP (U# 6)	500.00	500.00	298.47	276.08	606.63	561.13
		KhSTPP (4x210+3x500)	2340.00	2340.00	1485.83	1374.40	2891.22	2674.38
		TSTPP (2x500)	1000.00	1000.00	590.44	546.16	1198.97	1109.05
		BARH STPS II (2X660)	1320.00	1320.00	820.66	759.11	1660.34	1535.81
		Total NTPC	6760.00	6760.00	4106.34	3798.37	7852.19	7263.28
NHPC	HYDRO	Rangit (3x20)	60.00	60.00	25.22	25.22	45.28	45.28
		Teesta (3x170)	510.00	510.00	277.11	277.11	507.59	507.59
		TLDP - (4x33+4x40)	292.00	292.00	96.00	96.00	170.17	170.17
		Total NHPC	862.00	862.00	398.33	398.33	723.04	723.04
IPP		MPL (U#1&2)	1050.00	1050.00	670.99	634.18	1292.38	1222.29
IPP		APNRL (U#1,2)	540.00	540.00	363.77	333.77	642.82	588.14
		GMR (2x350)	700.00	700.00	319.72	295.74	719.54	665.58
		JITPL (2X600)	1200.00	1200.00	37.56	32.90	342.97	317.87
		BRBCL #I	250.00	250.00				
		CHUZACHEN** (2x55)	110.00	110.00	45.53	45.33	75.35	75.01
		JORETHANG (2x48)	96.00	96.00	20.35	20.35	37.76	36.46
		TEESTA URJA St III (6x200)	1200.00	1200.00	471.35	436.00	471.35	436.00
		Total Thermal (E.R)	29010.00	28855.00	13239.05	12167.30	25641.29	23531.98
		Total Hydro (E.R)	5754.28	5754.28	1755.69	1718.49	2837.84	2797.71
		Total Diesel	7.10	7.10	0.00	0.00	0.00	0.00
Total Solar	10.00	10.00	0.00	0.00	0.00	0.00		
		TOTAL (E.R)	34781.38	34626.38	14994.73	13885.79	28479.13	26329.69
BHUTAN								

PLANT LOAD FACTOR (PLF) OF THERMAL POWER STATIONS IN EASTERN REGION DURING THE MONTH OF MAY-2017

ORGANI- SATION	TYPE	POWER	INSTALLED	EFFECTIVE	Gross	PLF	Cummulative Gross	Cummulative PLF
		STATION	CAPACITY	CAPACITY	Energy	of Current	Energy Generation	upto Current
			(in MW)	(in MW)	Generation	Month	upto Current Month	Month
(%)								
BIHAR	Thermal	Barauni (U# 6&7)	220.00	210.00	10.44	6.68	34.31	11.16
		Muzaffarpur	415.00	415.00	72.32	23.42	136.44	22.46
		Thermal Total	635.00	625.00	82.77	17.80	170.75	18.66
	Hydro	Kosi	20.00	20.00	0.00		0.00	
		Dehri & others	24.90	24.90	30.89		30.89	
		Total Hydro	44.90	44.90	30.89		30.89	
	Total BIHAR		679.90	669.90	113.65		201.64	
JHARKHAND								
TVNL	Thermal	TVNL	420.00	420.00	119.87	38.36	225.73	36.71
JSEB	Thermal	Patratu	480.00	455.00	0.00	0.00	0.00	0.00
	Hydro	Subarnrekha (U#1,2)	130.00	130.00	3.70		5.05	
	Total		610.00	585.00	3.70		5.05	
DVC	Thermal	Bokaro-B(1,2,3)	630.00	630.00	144.37	30.80	232.62	25.22
		Chandrapura (2,3)	280.00	260.00	85.51	44.20	206.99	54.38
		Chandrapura(U7 # 8)	500.00	500.00	335.34	90.15	621.30	84.88
		Durgapur(3,4)	350.00	350.00	77.55	29.78	145.68	28.43
		Mezia(1,2,3,4,5,6)	1340.00	1340.00	685.96	68.80	1294.30	65.98
		Mezia(U # 7,8)	1000.00	1000.00	568.10	76.36	1202.19	82.12
		Bokaro-A(1,2)	500.00	500.00	85.08	22.87	373.39	51.01
		Durgapur STPS (U#1,2)	1000.00	1000.00	582.60	78.31	1198.73	81.88
		Raghunathpur TPS (U#1,2)	1200.00	1200.00	270.68	30.32	310.95	17.70
		Koderma STPS (U#1,2)	1000.00	1000.00	464.10	62.38	774.03	52.87
	Total Thermal		7800.00	7780.00	3299.29	57.00	6360.17	55.84
	Hydro	Maithon (U#1,2,3)	63.20	63.20	8.34		24.64	
		Panchet (U#1,2)	80.00	80.00	1.33		4.63	
		Tilaya (U#1,2)	4.00	4.00	0.00		0.00	
		Hydro Total	147.20	147.20	9.67		29.27	
	Total DVC		7947.20	7927.20	3308.96		6389.44	
WEST BENGAL								
WBPDC	Thermal	Bandel TPS	540.00	450.00	191.93	57.33	381.46	57.90
		Santalidih TPS(U#5&6)	500.00	500.00	322.42	86.67	649.21	88.69
		Kolaghat TPS	1260.00	1260.00	398.73	42.53	765.47	41.50
		Bakreswar TPP	1050.00	1050.00	683.08	87.44	1323.41	86.09
		Sagardighi TPP	1600.00	1600.00	494.93	60.48	1032.35	64.10
		Thermal Total	4950.00	4860.00	2091.09	57.83	4151.88	58.35
WBSEDCL	Hydro	Jaldhaka (3x9+2x4)	35.00	35.00	23.23		40.84	
		Ramam (4x12.73)	51.00	51.00	14.59		22.84	
		Teesta C.F. (3x3x7.3)	67.30	67.30	12.12		23.32	
		Small hydro	12.00	12.00	0.00		0.00	
		Purulia PSS (4x225)	900.00	900.00	81.88		152.65	
		Total Hydro	1065.30	1065.30	131.83		239.65	
		TLDP -(4x33+4x40)		292.00	292.00	96.00		170.17
DPL	Thermal	DPPS (110+300+250 *)	660.00	660.00	353.35	71.96	594.18	61.49

PLANT LOAD FACTOR (PLF) OF THERMAL POWER STATIONS IN EASTERN REGION DURING THE MONTH OF MAY-2017

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 (2017-18) in MU	Cummulative PLF upto Current Month (%)
CESEC	Thermal	Titagarh (4x60)	240.00	240.00	0.00	0.00	0.00	0.00
		Southern (2x67.5)	135.00	135.00	31.91	31.77	60.48	30.60
		Budge-Budge (3x250)	750.00	750.00	558.30	100.05	1100.56	100.23
		Total CESC	1125.00	1125.00	590.21	70.51	1161.04	70.49
HEL	Thermal		600.00	600.00	385.45	86.35	743.95	84.69
		Total West Bengal	8692.30	8602.30	3551.93		6890.70	
ODISHA	Thermal	Talcher-I	250.00	240.00	168.54	94.39	309.26	88.02
(NTPC)		Talcher-II	220.00	220.00	168.40	102.89	337.71	104.85
		Total Thermal	470.00	460.00	336.94	98.45	646.97	96.07
OPGC	Thermal	IB TPS	420.00	420.00	266.93	85.42	521.95	84.89
		Vedanta #2	600.00	600.00	173.58	38.88	173.58	38.88
		GMR #3	350.00	350.00	41.18	15.81	41.18	15.81
OHPC	Hydro	Hirakud-I (Burla)	275.50	275.50	27.09		52.47	
		Hirakud-II (Chiplima)	72.00	72.00	13.25		30.21	
		Balimela (6x60+2x75)	510.00	510.00	208.64		387.55	
		Rengali (5x50)	250.00	250.00	108.81		136.92	
		Upper Kolab (4x80)	320.00	320.00	81.74		168.10	
		Indravati HPS (4x150)	600.00	600.00	172.44		382.84	
		Mckd.(Odisha drawal)	57.38	57.38	29.08		61.40	
		Total Hydro	2084.88	2084.88	641.05		1219.48	
		Total Odisha	3924.88	3914.88	1192.75		2081.21	
(**) SIKKIM	Hydro	Mini Hydro	14.00	14.00	3.00		6.00	
		^ Diesel	7.10	7.10				
NTPC	Thermal	FSTPP# I&II (3x200+2x500)	1600.00	1600.00	910.94	76.52	1495.03	63.82
		FSTPP (U# 6)	500.00	500.00	298.47	80.23	606.63	82.87
		KhSTPP (4x210+3x500)	2340.00	2340.00	1485.83	85.35	2891.22	84.40
		TSTPP (2x500)	1000.00	1000.00	590.44	79.36	1198.97	81.90
		BARH STPS II (2X660)	1320.00	1320.00	820.66	83.56	1660.34	85.92
		Total NTPC	6760.00	6760.00	4106.34	81.65	7852.19	79.34
NHPC	HYDRO	Rangit (3x20)	60.00	60.00	25.22		45.28	
		Teesta (3x170)	510.00	510.00	277.11		507.59	
		TLDP -(4x33+4x40)	292.00	292.00	96.00		170.17	
		Total NHPC	862.00	862.00	398.33		723.04	
IPP	Thermal	MPL (U#1&2)	1050.00	1050.00	670.99	85.89	1292.38	84.07
IPP		APNRL (U#1,2)	540.00	540.00	363.77	90.54	642.82	81.31
		GMR (2x350)	700.00	700.00	319.72	61.39	719.54	70.21
		JITPL (2X600)	1200.00	1200.00	37.56	4.21	342.97	19.52
		CHUZACHEN** (2x55)	110.00	110.00	45.53		75.35	
		JOETHANG (2x48)	96.00	96.00	20.35		37.76	
		TEESTA URJA St III (6x200)	1200.00	1200.00	471.35		471.35	
		Total Thermal (E.R)	29010.00	28855.00	13239.05	63.40	25641.29	56.76
EASTERN REGIONAL		Total Hydro (E.R)	5754.28	5754.28	1755.69		2837.84	
		Total Diesel	7.10	7.10	0.00		0.00	
		Total Solar	10.00	10.00	0.00		0.00	
		TOTAL (E.R)	34781.38	34626.38	14994.73		28479.13	
BHUTAN	Hydro	CHPC(4x90)	360.00	270.00	114.23		134.29	
	Hydro	Kurichu (4x15)	60.00	60.00	26.56		26.56	
	Hydro	TALA (6x170)	1020.00	1020.00	151.49		216.12	
	Hydro	DAGACHU (2x63)	126.00	126.00	0.00		10.50	
		Grand Total	36347.38	36102.38	15287.01		28866.59	

➤ On calculation of Eastern Regional PLF, Installed Capacity of IPPs as well as their generations (MU) including infirm generation of various units have not been considered.

**CONTRIBUTIONS OF DIFFERENT CONSTITUENTS AT THE TIME OF REGIONAL
PEAK DURING THE MONTH OF MAY-2017 (2-5-2017)**

Date **2-May-17**
Time **20.00** **Hrs.**
Frequency **49.96** **Hz.**

(All Fig. in MW)

	Installed	Effective			
System/State	Capacity	Capacity	Hydro	Thermal	Total
BSPHCL	680	670	0	213	213
JUSNL	1030	1005	0	183	183
DVC	7947	7927	33	4756	4789
ODISHA	3925	3915	1442	889	2330
WBSEDCL	6015	5925	664	2499	3163
TLDP	292	292	229	0	229
HEL HALDIA	600	600	0	512	512
CESC	1125	1125	0	745	745
DPL	660	660	0	439	439
SIKKIM	14	14	0	0	0
NTPC	6760	6760	0	5311	5311
NHPC	570	570	578	0	578
CHUKHA	360	270	76	0	76
KURICHU	60	60	16	0	16
TALA	1020	1020	101	0	101
SEL	0	0	0	0	0
APNRL	540	540	0	464	464
Kamalganga (GMR)	700	700	0	653	653
JITPL	1200	1200	0	451	451
BRBCL	250	250	0	0	0
Chuzachen	110	110	113	0	113
Jorethang	96	96	49	0	49
<u>Daqhachu</u>	126	126	17	0	17
<u>Total</u>	36347	36102	4013	18095	22108
Import From Captive:					1093
Export To:					
NER					236
SR					1128
WR					-327
NR					2277.12
Bangladesh					244.84
Nepal					132.18
Total					3692

➤ **al Net Peak Demand Met (MW) :**

19509

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

Hourly Load Generation Data OF ER On Regional Peak Day During The Month of MAY-2017 (2-5-2017)

(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	2336	17739	20075	697	396	5237	13887	30	87	14004
2	2065	17114	19179	693	413	4744	13688	19	84	13791
3	1838	16796	18634	697	428	4612	13393	22	83	13498
4	1731	16302	18032	703	462	4095	13115	14	91	13220
5	1807	16654	18460	672	434	4038	13627	35	91	13753
6	1737	16143	17880	710	391	4036	12958	24	90	13072
7	1272	16392	17664	687	390	3838	12561	-5	83	12638
8	983	16342	17325	663	389	3575	12523	-4	84	12603
9	1177	16909	18086	649	375	3776	12955	20	81	13056
10	1415	18414	19829	735	354	4275	13577	23	78	13678
11	1374	19146	20521	779	343	4515	13767	25	69	13862
12	1481	19594	21076	745	336	4758	14274	31	65	14369
13	1585	20541	22126	775	325	4985	14941	56	53	15051
14	1529	20871	22399	793	327	4936	15036	25	53	15114
15	1764	21215	22980	786	312	4806	15424	93	36	15554
16	1816	21490	23306	785	298	4808	15581	42	36	15660
17	1813	21565	23378	830	286	5237	15401	22	59	15482
18	1589	21143	22733	882	249	4604	15235	37	55	15328
19	2174	22423	24597	1101	191	3117	17479	18	55	17552
20	3126	23528	26654	1094	193	3315	19509	31	124	19664
21	3166	22673	25838	1088	205	3630	18628	104	183	18915
22	2938	22350	25288	1101	215	3580	18487	91	188	18766
23	2859	22388	25247	1040	238	4292	18020	112	127	18259
24	2558	22318	24876	1030	248	4316	17679	80	110	17869

Hourly Load Generation Data of ER On Regional Lean Day During The Month of MAY-2017 (27-5-2017)

(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	1928	13600	15528	835	298	2736	14346	-21	33	14358
2	1819	15593	17412	837	302	2584	14103	-26	34	14111
3	1532	15540	17073	866	292	2591	13675	-11	31	13696
4	1340	15235	16575	826	292	2555	13042	-34	32	13074
5	1461	14986	16447	823	285	2735	12953	-7	32	12978
6	1481	14711	16192	819	258	3081	12316	-25	32	12323
7	1267	14473	15740	805	255	3162	11499	-26	67	11540
8	1114	14468	15582	807	263	2496	11968	-51	52	11968
9	1286	14407	15693	825	267	2563	12202	-29	28	12230
10	1399	14818	16217	814	248	2408	12787	-12	21	12796
11	1632	14860	16492	883	251	2419	13665	12	21	13697
12	1547	15165	16712	877	248	2770	13826	-10	15	13832
13	1728	15068	16796	917	246	2907	14167	-4	18	14181
14	1441	15081	16523	957	252	2408	14392	-6	14	14399
15	1639	15186	16826	969	252	2600	14788	41	16	14845
16	1685	15280	16965	923	242	2987	14785	23	29	14838
17	1622	15196	16818	913	262	3314	14437	-6	84	14515
18	1295	15203	16498	986	266	2700	14114	-20	87	14181
19	1347	15187	16534	1034	223	1795	15716	-22	85	15779
20	2546	15369	17915	1232	237	1696	17858	31	146	18035
21	2321	15633	17953	1251	221	1822	17863	-3	91	17951
22	2230	15639	17869	1214	244	1909	17898	-14	208	18092
23	2168	15835	18003	1183	249	2247	17637	12	86	17736
24	2424	15879	18302	1128	250	2147	17503	12	84	17599

NOTIFIED POWER CUTS/RESTRICTIONS ON INDUSTRIES & POWER SUPPLY TO AGRICULTURE SECTOR
FOR THE MONTH OF MAY-2017

POWER CUT / RESTRICTIONS

BSEB	NO NOTIFIED CUTS/RESTRICTIONS However there was loadshedding of 105.71 MU
JSEB	NO NOTIFIED CUTS/RESTRICTIONS However there was loadshedding of 1.88 MU
DVC	NO NOTIFIED CUTS/RESTRICTIONS. However there was loadshedding of 6.93 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 26.86 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

May-17

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									
	TO	TO	TO	TO	TO	TO	<49.9	TO	TO	MAX	HRS.	MIN	HRS.	MAX	HRS.	MIN	HRS.	
E	05	10	17	22	24	24	50.1		50.05	HZ		HZ		HZ		HZ		
01-May	49.98	50.02	49.98	50.01	49.95	49.99	3.36	73.47	23.17	73.47	50.20	18:01	49.85	12:19	50.10	0:00	49.90	0:00
02-May	49.95	49.98	49.92	49.91	49.85	49.93	25.59	69.16	5.25	69.16	50.15	6:02	49.69	21:11	50.06	0:00	49.75	0:00
03-May	49.85	49.92	49.87	49.94	49.89	49.89	50.23	45.33	4.44	45.33	50.17	18:32	49.67	14:21	50.06	0:00	49.73	0:00
04-May	49.97	50.00	49.95	49.95	49.90	49.96	17.20	70.95	11.85	70.95	50.20	18:01	49.75	17:38	50.06	0:00	49.83	0:00
05-May	49.94	49.98	49.95	49.98	49.94	49.96	13.40	76.01	10.59	76.01	50.19	18:02	49.78	16:14	50.06	0:00	49.85	0:00
06-May	49.95	49.96	49.94	50.01	49.97	49.96	14.98	72.82	12.20	72.82	50.20	18:03	49.70	4:33	50.11	0:00	49.83	0:00
07-May	49.98	50.00	49.98	49.99	49.98	49.99	5.67	74.78	19.55	74.78	50.30	18:03	49.81	19:14	50.20	0:00	49.86	0:00
08-May	49.99	49.98	49.97	50.01	50.00	49.99	5.27	76.64	18.09	76.64	50.18	21:51	49.81	19:13	50.10	0:00	49.87	0:00
09-May	49.99	50.04	49.98	49.99	49.98	50.00	3.88	74.11	22.01	74.11	50.18	6:02	49.81	13:44	50.11	0:00	49.91	0:00
10-May	49.99	50.02	49.97	49.99	49.97	49.99	5.20	75.89	18.91	75.89	50.21	18:02	49.83	14:12	50.10	0:00	49.90	0:00
11-May	49.98	49.97	49.93	49.98	49.90	49.95	18.45	71.52	10.03	71.52	50.19	18:04	49.64	15:11	50.09	0:00	49.79	0:00
12-May	49.94	49.98	49.92	49.94	49.91	49.94	20.96	73.84	5.20	73.84	50.18	10:02	49.69	22:18	50.04	0:00	49.80	0:00
13-May	49.94	50.00	49.96	49.99	49.96	49.97	9.39	76.55	14.06	76.55	50.16	14:03	49.75	11:41	50.08	0:00	49.84	0:00
14-May	49.98	50.03	49.98	50.01	49.98	50.00	3.96	72.09	23.95	72.09	50.18	8:04	49.82	21:36	50.12	0:00	49.89	0:00
15-May	50.00	50.03	50.00	50.02	50.01	50.01	1.82	70.57	27.61	70.57	50.23	17:42	49.84	14:21	0.00	0:00	0.00	0:00
16-May	50.03	50.03	49.98	50.00	49.99	50.00	3.93	72.88	23.19	72.88	50.22	17:44	49.84	11:21	50.08	0:00	49.92	0:00
17-May	49.98	50.00	49.98	50.00	49.96	49.98	4.18	78.17	17.65	78.17	50.21	17:44	49.80	5:24	50.09	0:00	49.90	0:00
18-May	49.99	50.00	49.95	49.98	50.00	49.98	9.56	74.11	16.33	74.11	50.18	6:03	49.83	8:08	50.07	0:00	49.87	0:00
19-May	49.97	50.00	50.02	50.01	49.97	50.00	4.82	69.20	25.98	69.20	50.20	18:03	49.79	19:56	0.00	0:00	0.00	0:00
20-May	49.98	50.00	49.97	50.00	49.96	49.98	4.95	79.61	15.44	79.61	50.19	18:02	49.84	19:23	50.11	0:00	49.89	0:00
21-May	50.00	50.04	50.00	50.06	50.03	50.02	1.19	63.25	35.56	63.25	50.32	18:03	49.78	12:14	50.09	0:00	0.00	0:00
22-May	50.01	50.02	49.97	49.97	49.93	49.98	8.04	74.39	17.57	74.39	50.17	6:02	49.76	19:23	#REF!	0:00	49.84	0:00
23-May	49.95	49.97	49.96	49.97	49.93	49.96	16.04	74.90	9.06	74.90	50.13	16:42	49.76	9:15	0.00	0:00	0.00	0:00
24-May	49.99	50.02	49.95	49.97	49.93	49.97	9.52	76.38	14.10	76.38	50.15	5:03	49.77	5:31	50.07	0:00	49.83	0:00
25-May	49.97	50.03	49.98	50.01	49.97	49.99	5.04	73.50	21.46	73.50	50.11	16:45	49.90	12:45	0.00	0:00	0.00	0:00
26-May	49.99	50.03	50.00	50.06	50.01	50.02	1.76	63.51	34.73	63.51	50.26	18:03	49.84	0:22	50.18	0:00	49.88	0:00
27-May	50.04	50.07	49.99	50.01	49.98	50.02	3.19	60.51	36.30	60.51	50.22	7:04	49.79	19:31	50.15	0:00	49.88	0:00
28-May	50.00	50.09	50.00	50.01	50.01	50.02	1.59	64.76	33.65	64.76	50.27	18:02	49.79	19:26	50.18	0:00	49.87	0:00
29-May	50.03	50.04	49.98	49.96	49.94	50.00	7.36	68.50	24.14	68.50	50.21	8:07	49.79	11:31	50.15	0:00	49.86	0:00
30-May	49.97	50.04	49.98	50.00	50.00	49.99	2.72	78.21	19.07	78.21	50.20	8:03	49.86	19:17	50.12	0:00	49.91	0:00
MAX	50.04	50.09	50.02	50.06	50.03	50.02	50.23	79.61	36.30	79.61	50.32		49.97		50.20		49.92	
MIN	49.85	49.92	49.87	49.91	49.85	49.89	1.19	45.33	4.44	45.33	50.11		49.64		50.04		49.73	
AVG	49.98	50.01	49.97	49.99	49.96	49.98	9.20	71.71	19.20	71.71	50.20		49.80		50.10		49.86	

SUMMARY:Avg. Frequency : **49.98 Hz.**Instantaneous Frequency :

Maximum Frequency : 50.32 Hz On 00/01/00 at 18:03 Hrs.

Minimum Frequency : 49.64 Hz On 00/01/00 at 15:11 Hrs.

15 Minutes Integrated Frequency :

Maximum Frequency : 50.20 Hz On 00/01/00 at 00:00 Hrs.

Minimum Frequency : 49.73 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	9.20	71.71	19.20

VOLTAGE ANALYSIS

MAXIMUM & MINIMUM VOLTAGES RECORDED AT IMPORTANT 400 kV S/S IN THE MONTH OF MAY-2017

(All figs. in kV)

PGCIL	BINAGURI		MAITHON		JEERAT		BIHARSHARIFF	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	426	384	418	403	427	381	424	392

PGCIL	MUZAFFARPUR		JAMSHEDPUR		ROURKELA		JEYPORE	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	425	363	429	412	417	402	428	376

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 48.2 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
MAY-2017**

(All figs.in mtrs.)

Name of the Reservoirs	FRL	MDDL	As on last day of the		As on first day of this month & date	
			(31-05-17)	(31-05-16)		
Hirakud	192	180	184.47	183.75	186.23	01.05.17
Balimela	462	439	447.26	450.10	450.52	01.05.17
Rengali	123	109	115.36	111.36	119.96	01.05.17
Upperkolab	858	844	849.47	848.22	851.44	01.05.17
Indravati	642	625	630.20	630.81	632.35	01.05.17
Subernrekha	590	580	587.32	584.82	584.82	01.05.17

B.

CPP/IPP IMPORT by Eastern Region Constituents during MAY-2017

(All figs. are in MU)

System	Tata Power	Crescent Power	JSPL, Angul	Sterlite	Jindal	NALCO	TISCO	Others	Total
West Bengal	66.75	24.95	0	0	0	0	0	626.86	718.55
ODISHA	0	0	30.14	19.52	12.09	27.00	0	470.78	559.54
DVC	0	0	0	0	0	0	33.07	0	33.07
TOTAL	66.75	24.95	30.14	19.52	12.09	27.00	33.07	1097.64	1311.16

C.

Distribution of Schedule Supply among Key Customers by IPPs during MAY-2017

(All figs. are in MU)

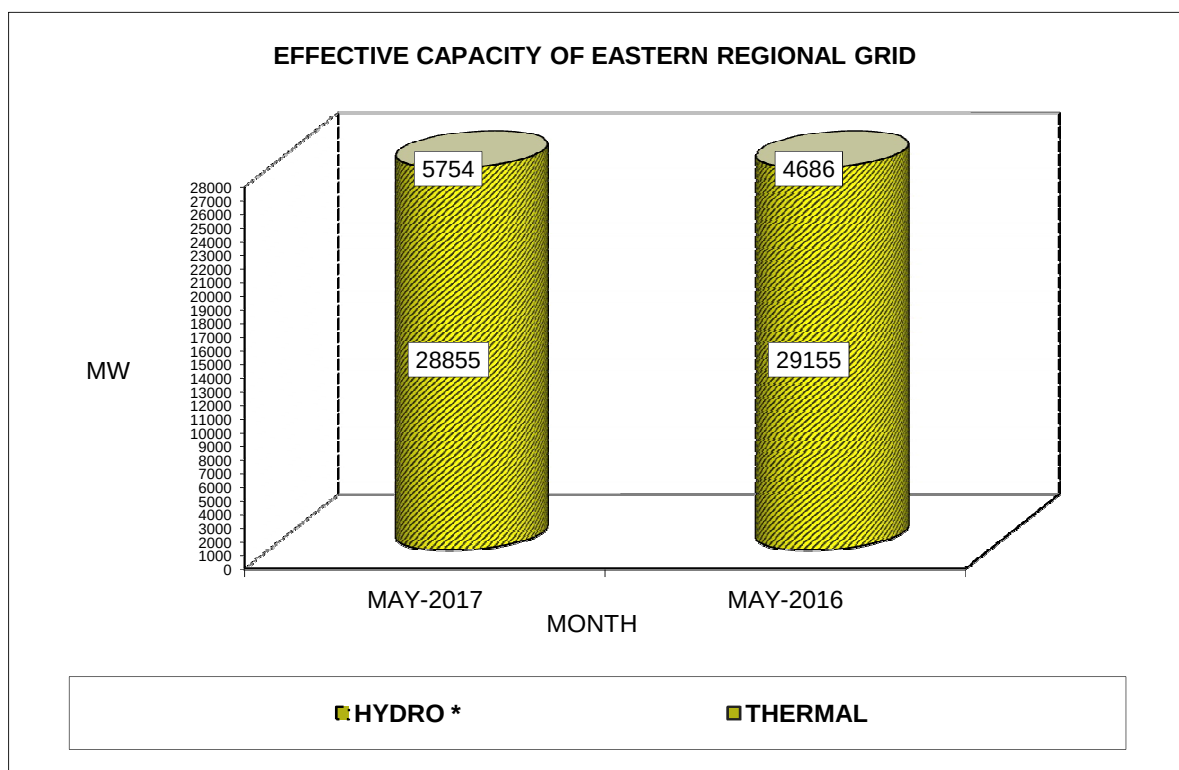
IPP	TPDDL	WBSEDCL/ WBPCL	DVC *	Sale at IEX/NPCL	ODISHA	JSEB	CTU/Others	Total (Excl. Tr. Loss)
MPL	182.57	180.33	75.62	2.99	0	0	193.44	634.96
Sterlite	0	0	0	0	19.52	0	0.00	19.52
APNRL	0	67.82	0	46.91	0.00	90.11	130.73	335.57
GMR	0	0.00	0	0.00	0.00	0	0.00	0.00
Total	182.57	248.16	75.62	49.90	19.52	90.11	324.17	990.05

(*)--During this month, DVC has drawn 63.10 MU of MPL energy which is included in its exchange with Grid.

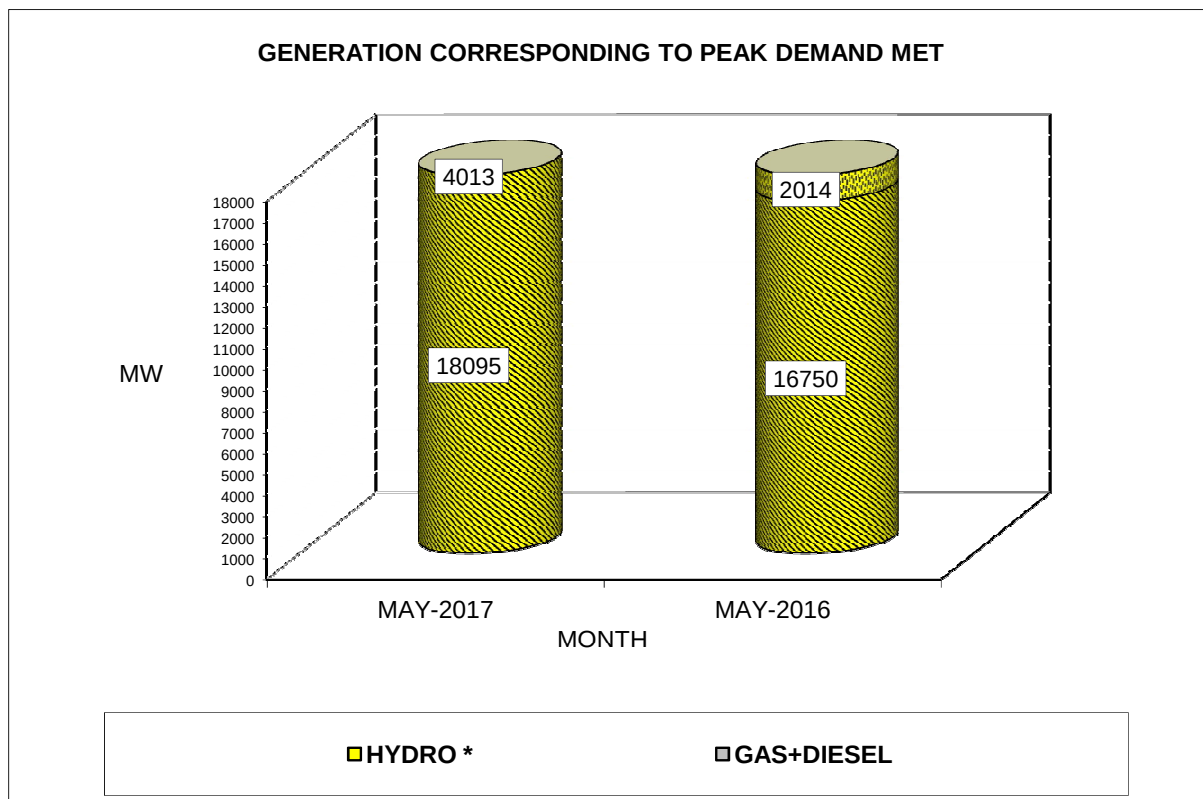
D.

Monthwise Gross Generation from Chuzachen HEP

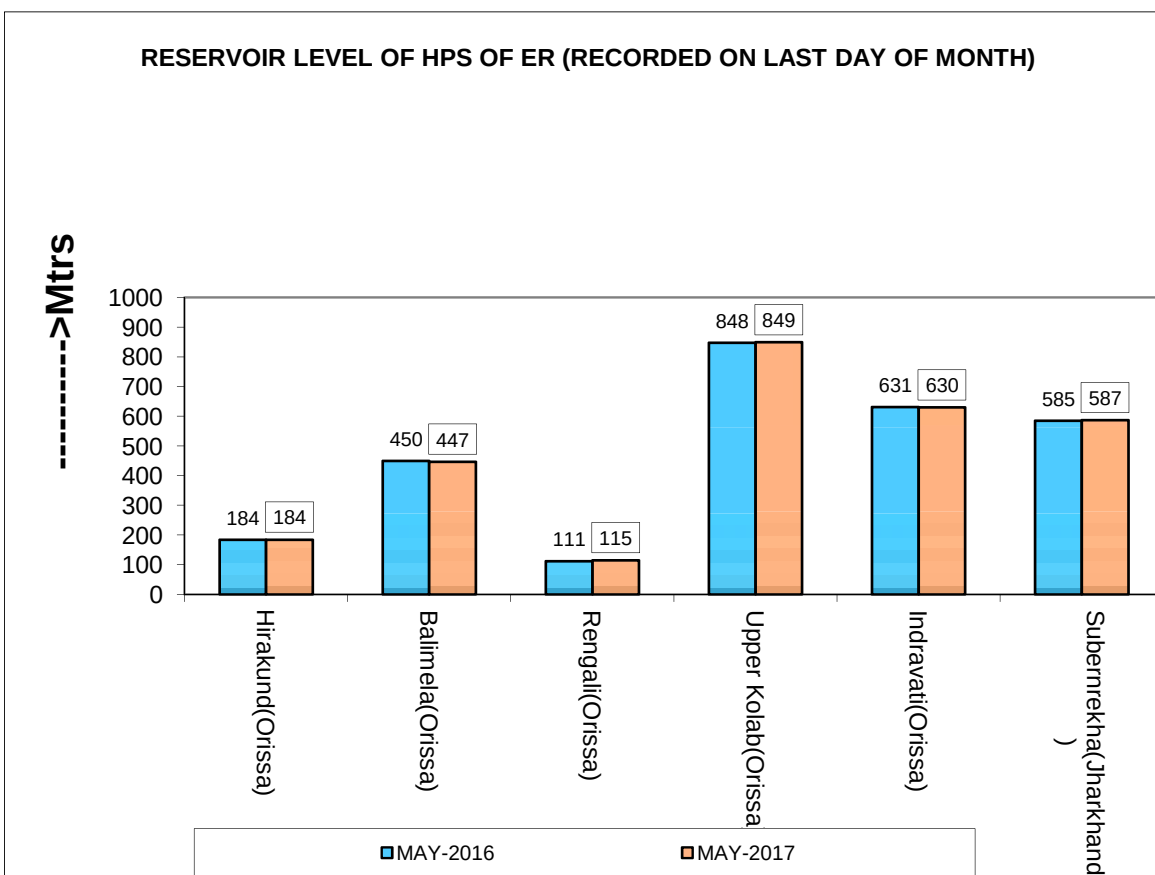
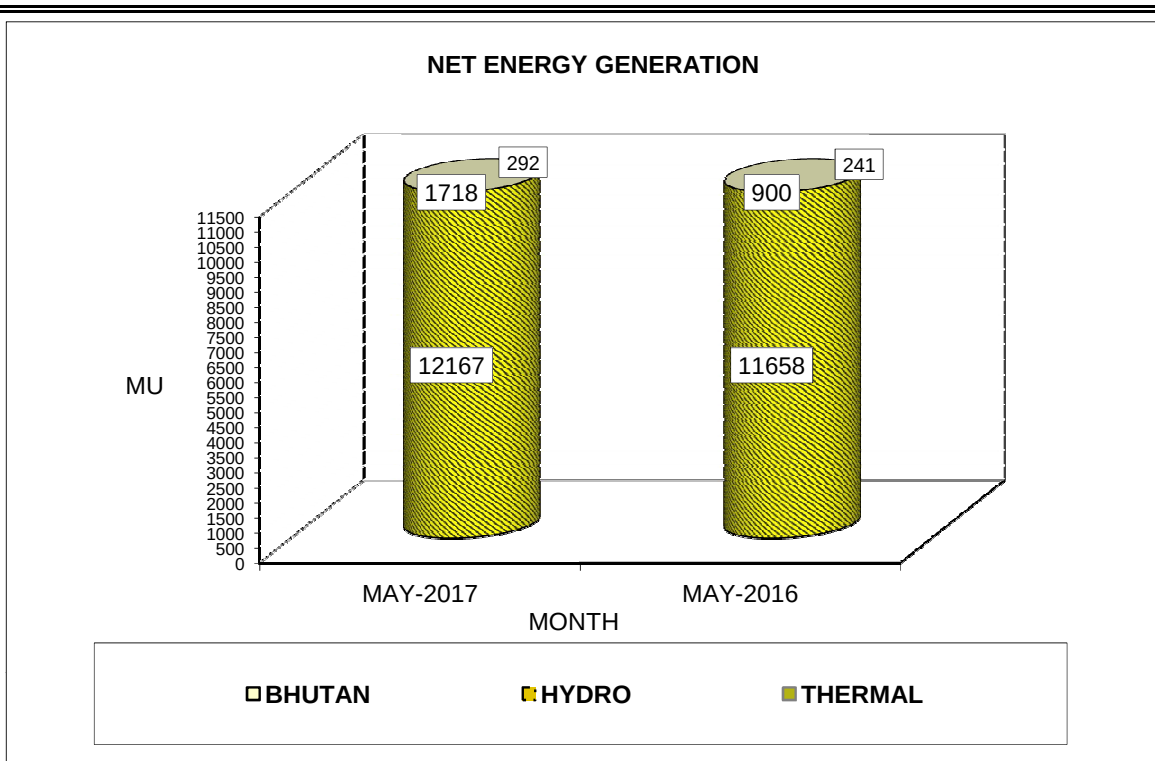
April'17	May'17	June'17	July'17	Aug'17	Sep'17	Cum. Total (2017-18)
29.82	45.53	0.00	0.00	0.00	0.00	75.35
Oct'17	Nov'17	Dec'17	Jan'18	Feb'18	Mar'18	
0.00	0.00	0.00	0.00	0.00	0.00	



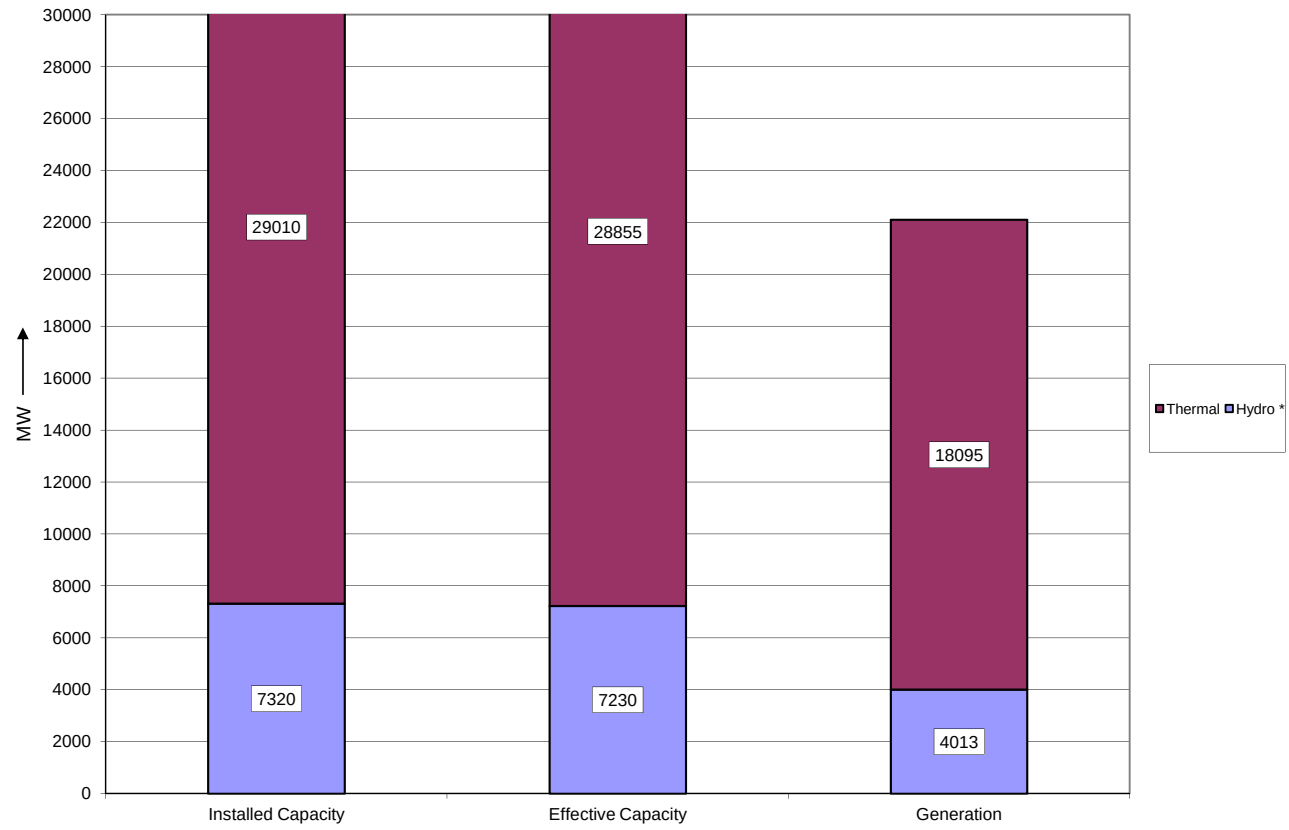
*Excludes 1350 MW contribution from HEPs of Bhutan



*Includes contribution from HEP of Bhutan

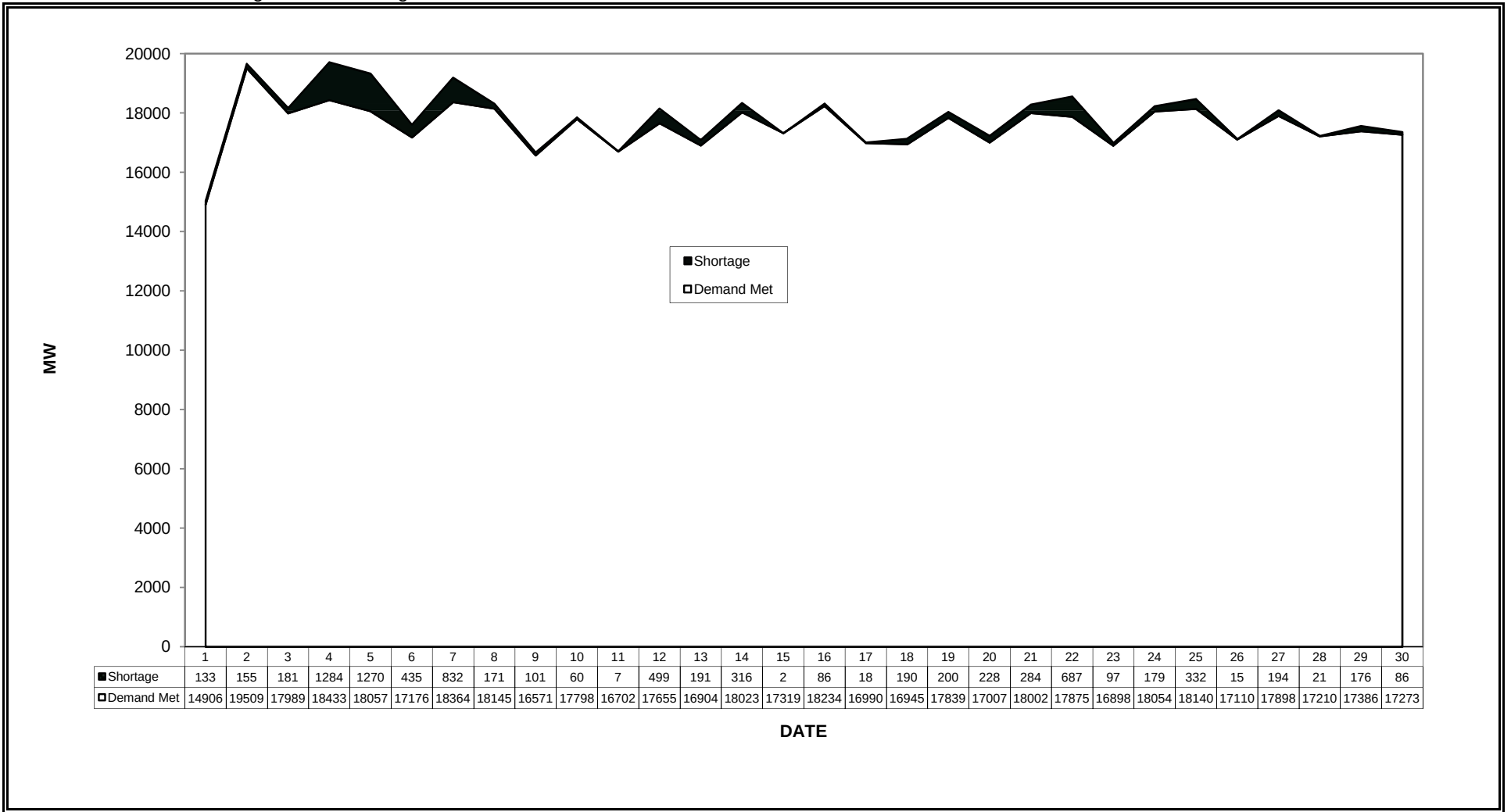


Capacity / Actual Generation Pattern of ER on Peak Day (2-5-2017) at 20.00 hrs.

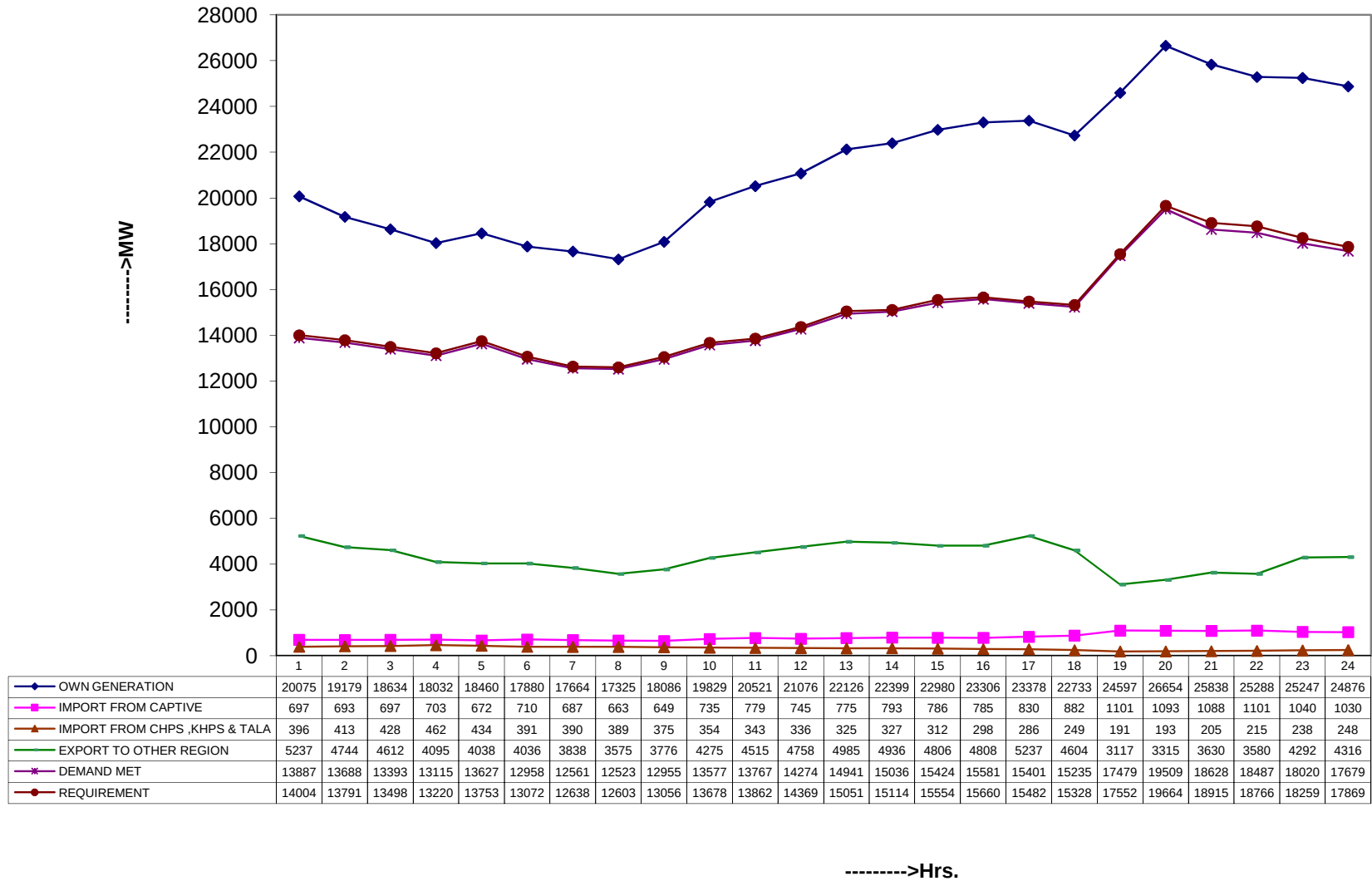


(*)--Includes contribution from HEP of Bhutan (Chukka, Kurichhu & Tala)

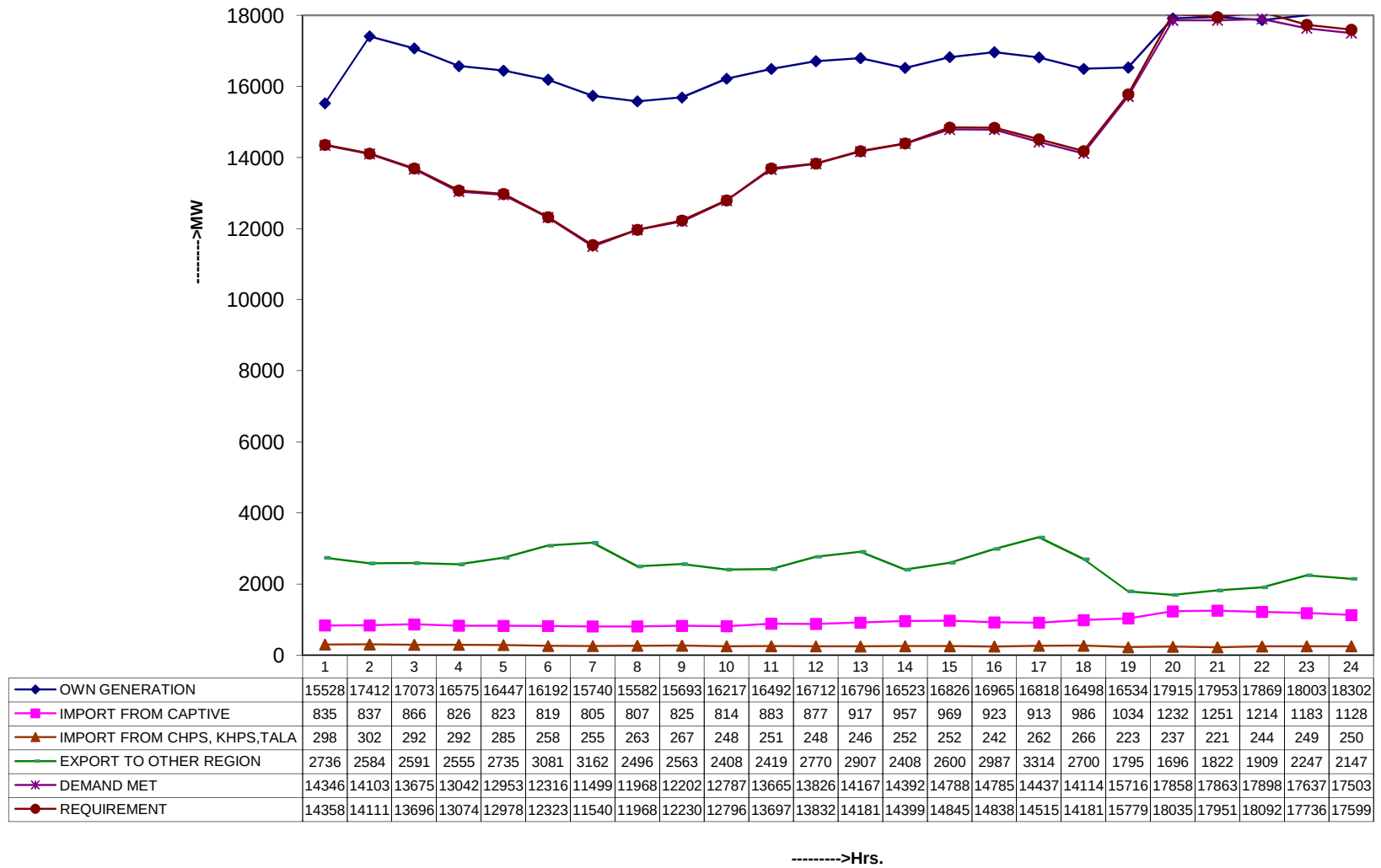
Peak Demand Met / Shortage of Eastern Region For The Month Of MAY-2017



Hourly Load Generation Data OF ER On Regional Peak Day During The Month of MAY-2017 (2-5-2017)

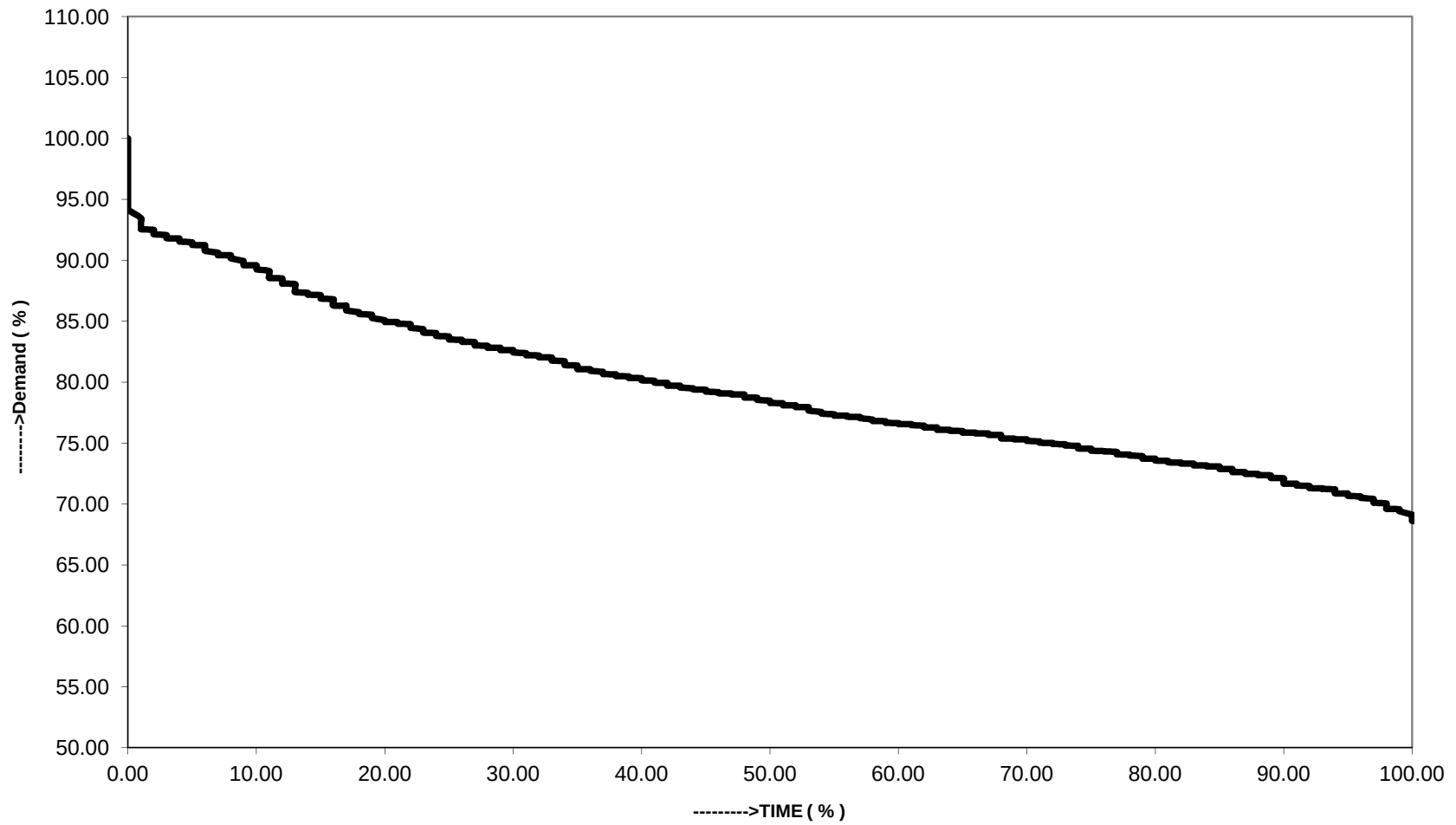


Hourly Load Generation Data of ER On Regional Lean Day During The Month of MAY-2017 (27-5-2017)



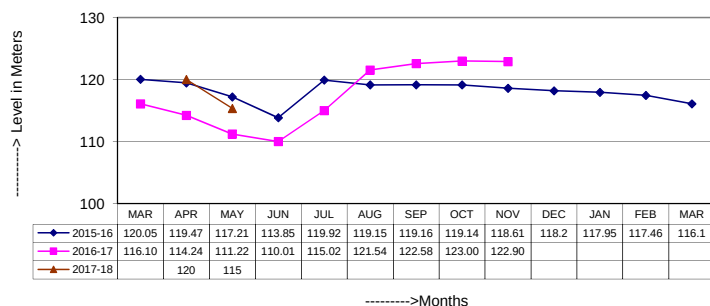
Monthly Load Duration Curve of Eastern Region for MAY-2017

Maximum Demand met : 19509 MW
Minimum Demand met: 11499 MW

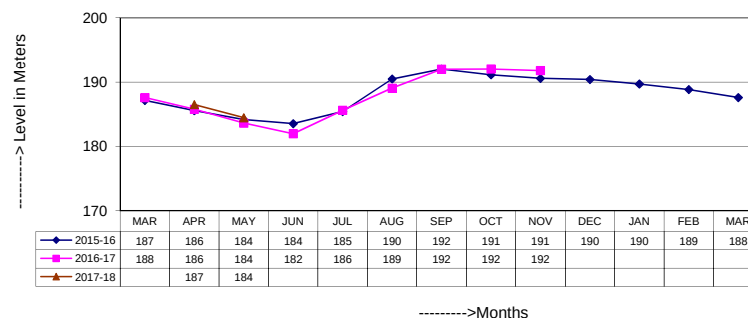


WATER LEVEL IN MAJOR RESERVOIRS ON LAST DATE OF MONTH

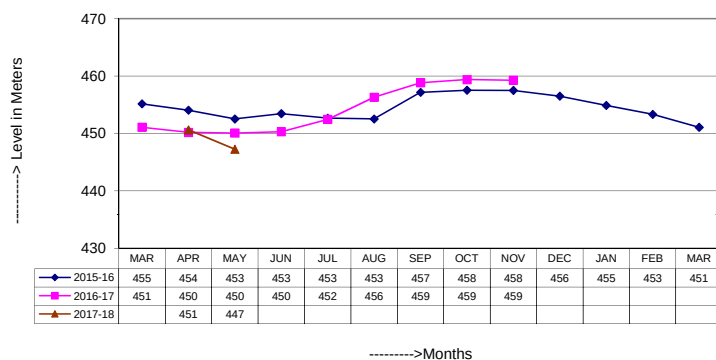
RENGALI RESERVOIR LEVEL



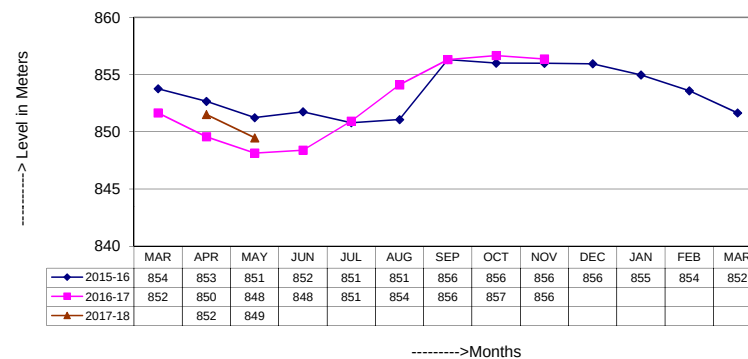
HIRAKUD RESERVOIR LEVEL



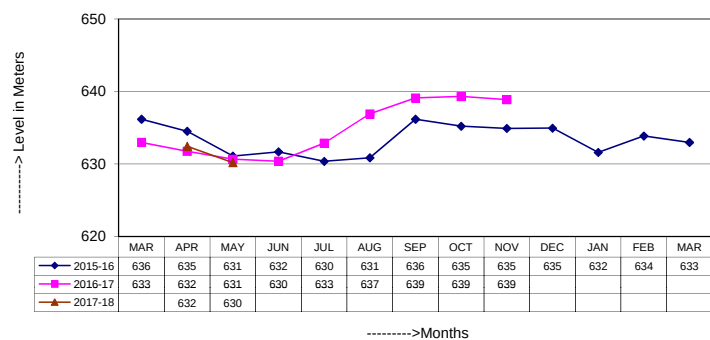
BALIMELA RESERVOIR LEVEL



UPPER KOLAB RESERVOIR LEVEL



INDRAVATI RESERVOIR LEVEL



SUBERNREKHA RESERVOIR LEVEL

