



सरकार भारत
Government of India

भारत सरकार

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विद्युत मंत्रालय

Ministry of Power

पूर्वी क्षेत्रीय विद्युत समिति

EASTERN REGIONAL POWER COMMITTEE

मासिक प्रगति रिपोर्ट

**PROGRESS REPORT FOR THE MONTH
OF**

जून - 2016

JUNE - 2016

पूर्वी क्षेत्रीय विद्युत समिति

Eastern Regional Power Committee

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INDEX

Sl. No.	Contents	Page No.
1	Highlights & Salient Features	1-2
2.	Power Supply Position of Eastern Region (June)	3
5.	Comparative study of power supply position with previous year	4
6.	Entitlement/Schedule/Drawal & Energy Exchanges for the month	5
7.	Performance vis-à-vis Energy Generation from Power Stations	6-7
8.	Plant Load Factor(PLF) of Thermal Power Stations	8- 9
9.	Power Scenario at the time of Regional Peak	10
10.	Hourly Load/Generation Data of region for Peak day & Lean day	11
11	Notified Power Cut, Restriction & Power Supply to Agriculture Sector	12
ANNEXURES		
I	Frequency Analysis	13
II	Voltage Analysis	14
III	Reservoir level of major hydro stations and Import from IPPs/CPPs by Constituents	15
IV	Progress of work of Important Transmission lines	16-18
V	Commissioning Schedule of New Generation Projects	19
EXHIBITS		
I	Chart: Effective Capacity & Generation Corresponding to Peak Demand Met	20
II	Chart: Net Energy Generation & Reservoir Levels recorded	21
III	Chart: Capacity & Generation pattern of the Peak Day	22
IV	Daily Regional Peak Demand Met & Shortage	23
V	Hourly Load/generation Pattern of Peak Day	24
VI	Hourly Load/generation Pattern of Lean Day	25
VII	Monthly Load Duration Curve	26
VIII	Reservoir Levels	27

Highlights of Eastern Regional Power System for June-2016

- The **Maximum Net Demand** met of **Eastern Region (ER)** during the month of **June, 2016** was **18302 MW** which is **7.57%** more than the **June, 2015** (17013 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 **June, 2016** was **377.01 MU** excluding export, which is **7.43%** more than the corresponding period of last year (350.94 MU).
- The **Average regional PLF of thermal units 65.23% during the month**, which is **3.51%** more than the corresponding period of the last year (61.72%).
- **Budge-Budge** of CESC registered the highest PLF of **96.48%**, followed by TSTPP (NTPC) (**91.30%**) & TTPS (Gridco) (**88.38%**) during the month of **June' 2016**.
- **Total Net generation** of ER was **19978 MW** against total **Effective Capacity of 35334 MW** (including that of Bhutan), and import from CPPs was **1244 MW** at the time of Regional peak (18302 MW on 06.06.16 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 73.84% of time during the period. **Average frequency** for the month was **49.99 Hz**. The instantaneous maximum and the minimum frequency touched were 50.37 Hz and 49.65 Hz respectively. The integrated (Fifteen minutes time block average) maximum and minimum frequency were 50.17 Hz and 49.50 Hz respectively (refer Annexure-I).
- The **Maximum Voltage** recorded **431KV** at Jamshedpur 400 KV S/s whereas the minimum voltage recorded 372 KV at Jeypore 400 KV S/s of Powergrid.
- The **Maximum Export from ER to outside region** was **5887 MW on 17th June'16 at 15.00 hrs.** Total net energy export during the month was **2576.52 MU** (including transmission loss), which corresponds to 18.66% of ex-bus total generation (13808 MU) of Eastern Region and 21.80% more than the corresponding period of previous year.
- The import from CPPs/PPs was **1706.13 MU**, which is 103.60% more than corresponding period of last year (837.97 MU).
- The **Total Energy Exchange between Nepal and Bihar (ER)** was:

Export / Import by Bihar	Jun, 2016(In MU)	Cum. (Apr'16-Jun'16) in MU
Export to NEPAL by Bihar (NBPDC)	95.76	388.76
Export to NEPAL by NVVN	55.84	165.84

- The total energy exchange between India & Bangladesh was:

Export	During June, 2016(In MU)	Cum. (Apr'16-Jun'16) in MU
Exchange between India & Bangladesh	323.55	955.84

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

Region	Max. Export of Power ER (MW)	Max. Import of Power by ER (MW)	Net Export of Energy (MU)
NR	3527	0	1501.59
WR	1838	556	355.02
SR	1333	653	297.52
NER	1265	785	42.99

SALIENT FEATURES

(YEAR TO YEAR COMPARISON)

		Jun-16	JUNE-2015	CHANGE	% CHANGE
1)	Effective Capacity (end of the Month)				
	THERMAL (MW)	29155	27295	1860	6.81
	HYDRO (MW)	4686	\$ 4298	388	9
	DIESEL (MW)	7	0	7	0
	SOLAR (MW)	10	0	0	0
	TOTAL (MW)	33858	31593	2265	7.17
2)	Peak Demand (MW)	18816	17195	1621	9.42
3)	Peak Demand Met (MW)	18302	17013	1289	7.57
4)	Shortage (MW)	514	182	332	182.37
5)	% Shortage	2.73	1.06	1.67	157.67
6)	Average Energy Requirement Per Day (MU)	380.64	352.55	28.09	7.97
7)	Average Energy Availability Per Day (MU)	377.01	350.94	26.07	7.43
8)	Average Shortage Per Day (MU)	3.63	1.61	2.02	125.42
9)	% Shortage	0.95	0.46	0.49	107.27
10)	Net Generation for the Month				
	Thermal (MU)	12188.52	10024.38	2164.14	21.59
	Hydro (MU)	1619.89 *	1254.32	365.57	29.14
	Diesel (MU)	0.00	0.00	0.00	-
	Total (MU)	13808	11278.70	2529.71	22.43
11)	Generation at the Time of Max. Regional Demand Met (06-06-16 at 20.00 Hrs.)				
	Thermal (MW)	16861	13214	3648	27.61
	Hydro (MW)	3096 *	3307	-210	-6.35
	Diesel (MW)	0	0	0	-
	Total (MW)	19958	16520	3438	20.81
12)	Inter-Regional Energy Transfer				
	Export (MU)	2576.52	2115.42	461.10	21.80
	Import (MU)	0.00	0.00	0.00	-
	Net Exp.(+)/Net Imp.(-) (MU)	2576.5223	2115.42	461.10	21.80
13)	Import From Captive(MU)	1706.13	837.97	868.16	103.60
14)	Peak Inter Regional Power Transfer				
	Max Export (MW) on 17-06-16 at 15.00Hrs	5887	5024	863	17.18
	Max Import (MW) on 14-06-16 at 02.00Hrs	857	588	269	45.73
	Max Net Export(+)/Import (-) (MW) on 00-01-00 at 00.00Hrs	5831	4761	1070	22.48
15)	Maximum voltage recorded	431	JAMSHEDPUR		
16)	Minimum voltage recorded	372	JEYPORE		

\$ Excludes 1350 MW contribution from HEPs of Bhutan

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

POWER SUPPLY POSITION FOR THE MONTH OF JUNE-2016

A) Net Average Energy Per Day

System	Demand Met (MU/Day)	Requirement (MU/Day)	Shortage (MU/Day)	% Shortage
BSEB	69.75	72.28	2.52	3.49
JSEB	21.70	21.80	0.09	0.43
DVC	55.26	55.69	0.43	0.78
ODISHA	76.27	76.31	0.04	0.05
WBSEDCL	112.32	112.84	0.52	0.46
CESC	34.72	34.74	0.02	0.05
DPL	5.74	5.74	0.00	0.05
SIKKIM	1.24	1.24	0.00	0.05
REGION	377.01	380.64	3.63	0.95

B) Peak Demand in MW:

System	Demand Met (MW)	Requirement (MW)	Shortage (MW)	% Shortage
BSEB	3520	3787	267	7.04
JSEB	1110	1112	2	0.19
DVC	2608	2608	0	0.00
ODISHA	4052	4053	0	0.01
WBSEDCL	5976	6007	31	0.52
CESC	1943	1945	2	0.1
DPL	271	271	0	0.08
SIKKIM	80	80	0	0.00
REGION	18302	18816	514	3

➤ DIVERSITY FACTOR : 1.07

➤ Regional Peak Demand Met on 6-6-2016 at 20.00 hrs. at 49.93 Hz.

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

A) Net Average Energy

Month	2015-16					2016-17				
	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	326.76	329.95	3.19	0.97	49.96	385.58	390.83	5.25	1.34	49.97
MAY	346.36	349.67	3.31	0.95	49.95	353.14	358.24	5.10	1.42	50.00
JUNE	351.46	353.07	1.61	0.46	49.99	377.01	380.64	3.63	0.95	49.99
JULY	342.90	344.59	1.68	0.49	49.98	-	-	-	-	-
AUGUST	363.08	364.98	1.90	0.52	49.97	-	-	-	-	-
SEPTEMBER	369.71	372.07	2.36	0.63	49.93	-	-	-	-	-
OCTOBER	365.03	367.31	2.28	0.62	49.94	-	-	-	-	-
NOVEMBER	396.36	398.22	1.86	0.47	49.98	-	-	-	-	-
DECEMBER	314.80	316.71	1.91	0.60	49.98	-	-	-	-	-
JANUARY	323.38	327.05	3.67	1.12	49.97	-	-	-	-	-
FEBRUARY	340.98	344.66	3.68	1.07	49.99	-	-	-	-	-
MARCH	366.12	369.34	3.22	0.87	49.99	-	-	-	-	-

B) Peak in MW:

Month	2015-16					2016-17				
	Demand Met	Requirement	Shortage	Shortage	Avg. Freq.	Demand Met	Requirement	Shortage	Shortage	Avg. Freq.
	(MW)	(MW)	(MW)	(%)	(HZ)	(MW)	(MW)	(MW)	(%)	(HZ)
APRIL	17346	17424	78	0.44	49.96	18607	18861	254	1.35	49.97
MAY	17602	17717	115	0.65	49.95	18427	18721	294	1.57	50.00
JUNE	17013	17195	182	1.06	49.99	18302	18816	514	2.73	49.99
JULY	16603	16662	58	0.35	49.98	-	-	-	-	-
AUGUST	17381	17839	458	2.57	49.97	-	-	-	-	-
SEPTEMBER	17632	18102	470	2.60	49.93	-	-	-	-	-
OCTOBER	18170	18908	738	3.90	49.94	-	-	-	-	-
NOVEMBER	17444	17516	71	0.41	49.98	-	-	-	-	-
DECEMBER	16993	17311	318	1.84	49.97	-	-	-	-	-
JANUARY	16692	16821	129	0.78	49.99	-	-	-	-	-
FEBRUARY	17125	17383	258	1.48	49.99	-	-	-	-	-
MARCH	18086	18278	192	1.05	49.99	-	-	-	-	-

PERFORMANCE OF GENERATING STATIONS IN THE EASTERN REGION DURING THE MONTH OF JUNE-2016

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 (2016-17) in MU	Cummulative Net Energy Generation upto Current Month (2016-17) in MU
BIHAR	Thermal	Barauni (U# 6&7)	220.00	210.00	0.00	0.00	0.00	0.00
		Muzaffarpur	220.00	220.00	90.37	81.33	307.54	276.79
		Thermal Total	440.00	430.00	90.37	81.33	307.54	276.79
	Hydro	Kosi	20.00	20.00	0.65	0.65	0.98	0.98
		Dehri & others	24.90	24.90	0.00	0.00	0.00	0.00
		Total Hydro	44.90	44.90	0.65	0.65	0.98	0.98
	Total BIHAR	484.90	474.90	91.02	81.98	308.52	277.77	
JHARKHAND								
TVNL	Thermal	TVNL	420.00	420.00	114.66	98.29	384.86	331.60
JSEB	Thermal	Patratu	840.00	770.00	30.15	25.10	121.79	103.48
	Hydro	Subarnrekha (U#1,2)	130.00	130.00	0.00	0.00	0.19	0.19
	Total	970.00	900.00	30.15	25.10	121.98	103.67	
DVC	Thermal	Bokaro-B(1,2,3)	630.00	630.00	142.70	124.14	445.14	388.49
		Chandrapura (1,2,3)	420.00	390.00	181.85	163.90	617.37	557.55
		Chandrapura(U7 # 8)	500.00	500.00	315.76	286.44	968.15	880.13
		Durgapur(3,4)	350.00	350.00	0.00	0.00	128.12	113.41
		Mezla(1,2,3,4,5,6)	1340.00	1340.00	465.29	413.93	1669.10	1483.88
		Mezla(U # 7,8)	1000.00	1000.00	543.35	514.98	1647.08	1561.57
		Durgapur STPS (U#1,2)	1000.00	1000.00	552.23	523.12	1694.09	1606.68
		Raghunathpur TPS (U#1,2)	1200.00	1200.00	252.63	232.14	422.80	389.55
		Koderma STPS (U#1,2)	1000.00	1000.00	312.78	294.66	1114.06	1048.72
	Total Thermal	7440.00	7410.00	2766.57	2553.32	8705.92	8029.98	
	Hydro	Maithon (U#1,2,3)	63.20	63.20	0.75	0.70	2.31	2.19
		Panchet (U#1,2)	80.00	80.00	0.38	0.28	1.14	0.82
		Tilaya (U#1,2)	4.00	4.00	0.00	0.00	0.00	0.00
		Hydro Total	147.20	147.20	1.13	0.98	3.45	3.00
	Total DVC	7587.20	7557.20	2767.70	2554.30	8709.36	8032.98	
WEST BENGAL								
WBPDCCL	Thermal	Bandel TPS	540.00	450.00	103.84	89.33	412.87	361.91
		Santalidih TPS(U#5&6)	500.00	500.00	316.75	289.50	924.99	845.44
		Kolaghat TPS	1260.00	1260.00	588.04	525.34	1801.46	1613.94
		Bakreswar TPP	1050.00	1050.00	661.63	594.78	1987.78	1790.70
		Sagardighi TPP	600.00	600.00	359.20	312.53	1027.95	901.30
		Thermal Total	3950.00	3860.00	2029.46	1811.48	6155.05	5513.28
WBSEDCL	Hydro	Jaldhaka (3x9+2x4)	35.00	35.00	23.00	23.00	57.15	57.15
		Ramam (4x12.73)	51.00	51.00	23.00	23.00	44.62	44.62
		Teesta C.F. (3x3x7.3)	67.30	67.30	3.21	3.21	18.26	18.26
		Small hydro	12.00	12.00	0.00	0.00	0.00	0.00
		Purulia PSS (4x225)	900.00	900.00	110.80	110.80	270.09	270.09
		Total Hydro	1065.30	1065.30	160.01	160.01	390.12	390.12
DPL	Thermal	DPSP (110+300+250 *)	660.00	660.00	281.39	252.50	741.05	667.47
* Synchronised on 31.03.2014								

PERFORMANCE OF GENERATING STATIONS IN THE EASTERN REGION DURING THE MONTH OF JUNE-2016

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 (2016-17) in MU	Cummulative Net Energy Generation upto Current Month (2016-17) in MU
CESC	Thermal	Titagarh (4x60)	240.00	240.00	34.71	31.36	164.34	148.43
		Southern (2x67.5)	135.00	135.00	40.98	37.11	174.11	158.09
		Budge-Budge (3x250)	750.00	750.00	521.00	479.07	1599.63	1444.68
		Total CESC	1125.00	1125.00	596.69	547.54	1908.08	1751.20
HEL	Thermal	HEL	600.00	600.00	368.67	338.77	1046.65	947.12
		Total West Bengal	7612.30	7522.30	3436.21	3110.30	10240.94	9269.19
ODISHA	Thermal	Talcher-I	250.00	240.00	137.90	122.89	463.90	413.66
(NTPC)		Talcher-II	220.00	220.00	154.80	137.95	464.70	414.37
		Total Thermal	470.00	460.00	292.70	260.84	928.60	828.02
OPGC	Thermal	IB TPS	420.00	420.00	262.98	234.15	749.03	668.91
OHPC	Hydro	Hirakud-I (Buria)	275.50	275.50	21.45	21.24	86.35	85.64
		Hirakud-II (Chiplima)	72.00	72.00	3.11	3.06	26.91	26.78
		Balimela (6x90+2x75)	510.00	510.00	61.99	61.64	178.03	176.96
		Rengali (5x50)	250.00	250.00	13.37	13.29	80.92	80.63
		Upper Kolab (4x80)	320.00	320.00	43.85	43.63	183.90	183.04
		Indravati HPS (4x150)	600.00	600.00	156.42	156.14	346.29	345.53
		Mckd.(Odisha drawal)	57.38	57.38	22.14	22.14	61.72	61.72
		Total Hydro	2084.88	2084.88	322.34	321.15	964.11	960.30
		Total Odisha	2974.88	2964.88	615.04	561.99	1892.71	1768.33
(**) SIKKIM	Hydro	Mini Hydro	14.00	14.00	3.00	3.00	9.00	9.00
		^ Diesel	7.10	7.10				
NTPC	Thermal	FSTPP# I&II (3x200+2x500)	1600.00	1600.00	950.01	878.76	2040.63	1887.58
		FSTPP (U# 6)	500.00	500.00	293.16	271.17	851.73	787.85
		KhSTPP (4x210+3x500)	2340.00	2340.00	1399.05	1294.12	4285.03	3963.65
		TSTPP (2x500)	1000.00	1000.00	657.37	608.07	2038.82	1885.91
		BARH STPS II (2X660)	1320.00	1320.00	629.73	582.50	1765.52	1633.11
		Total NTPC	6760.00	6760.00	3929.32	3634.62	10981.73	10158.10
NHPC	HYDRO	Rangit (3x20)	60.00	60.00	38.69	38.69	78.12	78.12
		Teesta (3x170)	510.00	510.00	313.80	313.80	806.04	806.04
		TLPD (4x33+2x40)	212.00	212.00	120.85	120.85	268.63	268.63
		Total NHPC	782.00	782.00	473.34	473.34	1152.79	1152.79
JPP		MPL (U#1&2)	1050.00	1050.00	605.06	568.76	1844.99	1740.36
JPP		SSL (U#1,2,3 & 4) (4x600) *	2400.00	2400.00	721.36	658.46	1451.97	1326.94
		APNRL (U#1,2)	540.00	540.00	334.41	314.35	934.52	860.22
		GMR (3x350)	1050.00	1050.00	463.40	419.02	1609.26	1478.65
		JITPL (2X600)	1200.00	1200.00	414.35	390.00	1795.42	1667.49
		CHUZACHEN** (2x55)	110.00	110.00	62.48	62.35	135.53	135.26
		JORETHANG (2x48)	96.00	96.00	44.19	44.19	78.84	78.84
EASTERN REGIONAL		Total Thermal (E.R)	29365.00	29155.00	13301.54	12188.52	39666.43	36351.59
		Total Hydro (E.R)	4686.28	4686.28	1067.13	1065.67	2735.01	2730.48
		Total Diesel	7.10	7.10	0.00	0.00	0.00	0.00
		Total Solar	10.00	10.00	0.00	0.00	2.60	2.60
		TOTAL (E.R)	34068.38	33858.38	14368.67	13254.19	42404.03	39084.67
BHUTAN	Hydro	CHPC(4x90)	360.00	270.00	164.39	164.39	334.71	334.71
	Hydro	Kurichu (4x15)	60.00	60.00	39.73	39.73	68.82	68.82
	Hydro	TALA (6x170)	1020.00	1020.00	323.71	323.71	503.16	503.16
	Hydro	DAGACHU (2x63)	126.00	126.00	26.38	26.38	49.72	49.72
		Grand Total	35634.38	35334.38	14922.89	13808	43360.45	40041.09

Santalidih U#1,2,3,4 (120*4=480MW) w.e.f 18.12.09, 4.10.09, 20.9.09 & 7.10.2008 respectively, DPL U#1,2 (2x30MW) w.e.f 01.04.11 & 01.04.11 & 3,4,5 (3x75 MW), Barauni U#4,5 (50*2=100MW) & Chandrapura U#4,5,6 (120*3=360MW) were decommissioned during 2010-11 & 2011-12 onwards.

* Barh U# CoD w.e.f 15.11.2014

** First Unit Synchronised on 19.04.2013

(*)—During this month, SEL has injected 137.75 MU to the Grid in addition to 261.11 MU bilateral exchange to ODISHA.

* CESC informed that N.Cossipore (130 MW) TPS ceased operation w.e.f 29.11.2014

* HEL U#1 COD on 06.06.14 & U#2 COD on 12.02.15

* JITPL U#1 COD on 28.01.15 & U#2 COD on 21.02.15

(**) Lachung HEP (3.00 MW), Mangley HEP (2.00 MW), Rangli HEP (5.00 MW), Meyong Chu HEP (4.00 MW) are working.

* Gangtok diesel Power House (4.00 MW), Ranipool Diesel Power House (1.00 MW), Jali Power House, Stage-I (2.10 MW) are working

Mailthor HPS U#2 capacity increased from 20 MW to 23.2 MW.

GTs in West Bengal and DVC including Diesel in Sikkim are not operational since long. Accordingly, installed capacity of 195 MW (GT & Diesel) has been excluded from total installed capacity.

PLANT LOAD FACTOR (PLF) OF THERMAL POWER STATIONS IN EASTERN REGION DURING THE MONTH OF JUNE-2016

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 (2016-17) in MU	Cummulative PLF upto Current Month (%)
BIHAR	Thermal	Barauni (U# 6&7)	220.00	210.00	0.00	0.00	0.00	0.00
		Muzaffarpur	220.00	220.00	90.37	57.05	307.54	64.01
		Thermal Total	440.00	430.00	90.37	29.19	307.54	32.75
	Hydro	Kosi	20.00	20.00	0.65		0.98	
		Dehri & others	24.90	24.90	0.00		0.00	
		Total Hydro	44.90	44.90	0.65		0.98	
	Total BIHAR		484.90	474.90	91.02		308.52	
JHARKHAND								
TVNL	Thermal	TVNL	420.00	420.00	114.66	37.92	384.86	41.96
JSEB	Thermal	Patratu	840.00	770.00	30.15	5.44	121.79	7.24
	Hydro	Subarnrekha (U#1,2)	130.00	130.00	0.00		0.19	
	Total		970.00	900.00	30.15		121.98	
DVC	Thermal	Bokaro-B(1,2,3)	630.00	630.00	142.70	31.46	445.14	32.35
		Chandrapura (1,2,3)	420.00	390.00	181.85	64.76	617.37	72.48
		Chandrapura(U7 # 8)	500.00	500.00	315.76	87.71	968.15	88.66
		Durgapur(3,4)	350.00	350.00	0.00	0.00	128.12	16.76
		Mezia(1,2,3,4,5,6)	1340.00	1340.00	465.29	48.23	1669.10	57.03
		Mezia(U # 7,8)	1000.00	1000.00	543.35	75.47	1647.08	75.42
		Durgapur STPS (U#1,2)	1000.00	1000.00	552.23	76.70	1694.09	77.57
		Raghunathpur TPS (U#1,2)	1200.00	1200.00	252.63	29.24	422.80	16.13
		Koderma STPS (U#1,2)	1000.00	1000.00	312.78	43.44	1114.06	51.01
	Total Thermal		7440.00	7410.00	2766.57	51.86	8705.92	53.80
	Hydro	Maithon (U#1,2,3)	63.20	63.20	0.75		2.31	
		Panchet (U#1,2)	80.00	80.00	0.38		1.14	
		Tilaya (U#1,2)	4.00	4.00	0.00		0.00	
		Hydro Total	147.20	147.20	1.13		3.45	
	Total DVC		7587.20	7557.20	2767.70		8709.36	
WEST BENGAL								
WBPDC	Thermal	Bandel TPS	540.00	450.00	103.84	32.05	412.87	42.01
		Santalidih TPS(U#5&6)	500.00	500.00	316.75	87.99	924.99	84.71
		Kolaghat TPS	1260.00	1260.00	588.04	64.82	1801.46	65.46
		Bakreswar TPP	1050.00	1050.00	661.63	87.52	1987.78	86.68
		Sagardighi TPP	600.00	600.00	359.20	83.15	1027.95	78.45
		Thermal Total	3950.00	3860.00	2029.46	73.02	6155.05	73.01
WBSEDCL	Hydro	Jaldhaka (3x9+2x4)	35.00	35.00	23.00		57.15	
		Ramam (4x12.73)	51.00	51.00	23.00		44.62	
		Teesta C.F. (3x3x7.3)	67.30	67.30	3.21		18.26	
		Small hydro	12.00	12.00	0.00		0.00	
		Purulia PSS (4x225)	900.00	900.00	110.80		270.09	
		Total Hydro	1065.30	1065.30	160.01		390.12	
	TLDP -(4x33+2x40)		212.00	212.00	120.85		268.63	
DPL	Thermal	DPPS (110+300+250 *)	660.00	660.00	281.39	59.21	741.05	51.41

PLANT LOAD FACTOR (PLF) OF THERMAL POWER STATIONS IN EASTERN REGION DURING THE MONTH OF JUNE-2016

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 (2016-17) in MU	Cummulative PLF upto Current Month (%)
CEEC	Thermal	Titagarh (4x60)	240.00	240.00	34.71	20.09	164.34	31.35
		Southern (2x67.5)	135.00	135.00	40.98	42.16	174.11	59.05
		Budge-Budge (3x250)	750.00	750.00	521.00	96.48	1569.63	95.83
		Total CEEC	1125.00	1125.00	596.69	73.67	1908.08	77.66
HEL	Thermal		600.00	600.00	368.67	85.34	1046.65	79.87
		Total West Bengal	7612.30	7522.30	3436.21		10240.94	
ODISHA (NTPC)	Thermal	Talcher-I	250.00	240.00	137.90	79.80	463.90	66.50
		Talcher-II	220.00	220.00	154.80	97.73	464.70	96.72
		Total Thermal	470.00	460.00	292.70	88.38	928.60	92.43
OPGC	Thermal	IB TPS	420.00	420.00	262.98	86.96	749.03	81.66
OHPC	Hydro	Hirakud-I (Buria)	275.50	275.50	21.45		86.35	
		Hirakud-II (Chiplima)	72.00	72.00	3.11		26.91	
		Balimela (6x60+2x75)	510.00	510.00	61.99		178.03	
		Rengali (5x50)	250.00	250.00	13.37		80.92	
		Upper Kolab (4x80)	320.00	320.00	43.85		183.90	
		Indravati HPS (4x150)	600.00	600.00	156.42		348.29	
		Mckd.(Odisha drawal)	57.38	57.38	22.14		61.72	
		Total Hydro	2084.88	2084.88	322.34		964.11	
		Total Odisha	2974.88	2964.88	615.04		1892.71	
(**) SIKKIM	Hydro	Mini Hydro	14.00	14.00	3.00		9.00	
		^ Diesel	7.10	7.10				
NTPC	Thermal	FSTPP# I&II (3x200+2x500)	1600.00	1600.00	950.01	82.47	2040.63	58.40
		FSTPP (U# 6)	500.00	500.00	293.16	81.43	651.73	78.00
		KhSTPP (4x210+3x500)	2340.00	2340.00	1399.05	83.04	4285.03	83.85
		TSTPP (2x500)	1000.00	1000.00	657.37	91.30	2038.82	93.35
		BARH STPS II (2X660)	1320.00	1320.00	629.73	66.26	1765.52	61.24
		Total NTPC	6780.00	6780.00	3929.32	80.73	10981.73	74.38
NHPC	HYDRO	Rangit (3x20)	60.00	60.00	38.69		78.12	
		Teesta (3x170)	510.00	510.00	313.80		806.04	
		TLDP - (4x33+2x40)	212.00	212.00	120.85		268.63	
		Total NHPC	782.00	782.00	473.34		1152.79	
IPP IPP	Thermal	MPL (U#1&2)	1050.00	1050.00	605.06	80.03	1844.99	80.45
		SSL (U#1,2,3 & 4) (4x600) *	2400.00	2400.00	721.36	41.75	1451.97	27.70
		APNRL (U#1,2)	540.00	540.00	334.41	86.01	934.52	79.24
		GMR (3x350)	1050.00	1050.00	463.40	61.30	1609.26	70.18
		JITPL (2X600)	1200.00	1200.00	414.35	47.96	1795.42	68.51
		CHUZACHEN** (2x55)	110.00	110.00	62.48		135.53	
		JORETHANG (2x48)	96.00	96.00	44.19		78.84	
EASTERN REGIONAL		Total Thermal (E.R)	29365.00	29155.00	13301.54	65.23	39666.43	64.00
		Total Hydro (E.R)	4686.28	4686.28	1067.13		2735.01	
		Total Diesel	7.10	7.10	0.00		0.00	
		Total Solar	10.00	10.00	0.00		2.60	
		TOTAL (E.R)	34068.38	33858.38	14368.67		42404.03	
BHUTAN	Hydro	CHPC(4x90)	360.00	270.00	164.39		334.71	
	Hydro	Kurichu (4x15)	60.00	60.00	39.73		68.82	
	Hydro	TALA (6x170)	1020.00	1020.00	323.71		503.16	
	Hydro	DAGACHU (2x63)	126.00	126.00	25.38		49.72	
		Grand Total	35634.38	35334.38	14922.89		43360.45	

> 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 REGIO

Date 6-Jun-16
Time 20.00 Hrs.
Frequency 49.93 Hz.

(All Fig. in MW)

System/State	Installed Capacity	Effective Capacity	Hydro	Thermal	Total
BSEB	485	475	0	150	150
JSEB	1390	1320	0	201	201
DVC	7587	7557	0	3729	3729
ODISHA	2975	2965	1155	646	1801
WBSEDCL	5015	4925	641	2820	3460
TLDP	212	212	183	0	183
HEL HALDIA	600	600	0	484	484
CESC	1125	1125	0	796	796
DPL	660	660	0	385	385
SIKKIM	14	14	0	0	0
NTPC	6760	6760	0	4736	4736
NHPC	782	782	595	0	595
CHUKHA	360	270	107	0	107
KURICHU	60	60	54	0	54
TALA	1020	1020	210	0	210
SEL	2400	2400	0	477	477
APNRL	540	540	0	448	448
Kamalganga (GMR)	1050	1050	0	617	617
JITPL	1200	1200	0	404	404
Chuzachen	110	110	66	0	66
Jorethang	96	96	43	0	43
Daghachu	126	126	43	0	43
Total	35634	35334	3096	16882	19978
Import From Captive:					1244
Export To:					
NER					652
SR					745
WR					444
NR					541.34
Total					2920
					18302

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

Hourly Load Generation Data OF ER On Regional Peak Day During The Month of JUNE-2016 (6-6-2016)

(All Figures in MW)

Hrs.	Generation				Import from Captive	Net		Demand Met	Freq. Correction	Load Shed	Requirement
	Hydro	Thermal	GT	Total		Import From CHPS, KHPS & TALA	Export to other region				
1	1805	20915	0	22720	1191	273	2665	16650	4	38	16692
2	1549	20605	1	22155	1171	272	1958	16785	-21	35	16799
3	1607	20361	2	21970	1173	280	1757	16679	-22	34	16691
4	1580	19744	3	21327	1159	293	1611	16167	-18	37	16186
5	1448	19436	4	20888	1215	326	1462	16269	-37	105	16338
6	1270	18643	5	19918	1167	303	1971	14972	-28	43	14988
7	1158	18303	6	19467	1253	307	2247	14260	-2	38	14295
8	1114	18356	7	19478	1274	316	2197	14280	-1	27	14306
9	1059	18261	8	19328	1238	320	1834	14511	-15	38	14534
10	1107	18658	9	19775	1243	339	2074	14656	-6	33	14682
11	1273	19461	10	20744	1253	355	2699	14884	4	32	14920
12	1337	20054	11	21402	1222	356	3245	14943	-1	37	14979
13	1434	20145	12	21590	1204	363	3734	14666	19	38	14723
14	1213	20234	13	21459	1250	396	3762	14590	-8	82	14665
15	1261	19908	14	21182	1282	420	3679	14605	18	116	14739
16	1450	20033	15	21498	1236	423	3389	15197	11	68	15276
17	1498	20087	16	21601	1219	404	3239	15321	7	167	15494
18	1372	19440	17	20829	1265	383	2682	15137	-4	102	15235
19	1639	21135	18	22792	1243	381	1836	16603	15	293	16911
20	2726	22434	19	25179	1245	371	2382	18302	43	471	18816
21	2762	22691	20	25472	1282	378	2845	18168	19	482	18670
22	2735	22381	21	25137	1288	399	2790	17979	-8	493	18465
23	2377	21692	22	24090	1261	425	2686	17406	-3	302	17705
24	2304	20998	23	23325	1242	450	2334	17186	9	268	17464

Hourly Load Generation Data of ER On Regional Lean Day During The Month of JUNE-2016 (14-6-2016)

(All Figures in MW)

Hrs.	Generation				Import from Captive	Net		Demand Met	Freq. Correction	Load Shed	Requirement
	Hydro	Thermal	GT	Total		Import From CHPS, KHPS & TALA	Export to other region				
1	1892	12623	0	14515	1178	605	2311	14422	-4	39	14458
2	1714	12325	1	14040	1155	626	2242	13984	-21	58	14022
3	1594	12064	2	13660	1196	614	2537	13351	-9	66	13407
4	1600	11887	3	13490	1146	609	2608	12875	-20	85	12940
5	1581	11782	4	13367	1184	619	2454	12938	-24	101	13016
6	1596	11746	5	13347	1201	622	3317	12026	-11	110	12126
7	1300	11818	6	13124	1225	625	3436	11679	-29	171	11821
8	1238	11940	7	13185	1249	623	3185	11999	-28	217	12188
9	1228	11782	8	13018	1188	631	2786	12152	-22	252	12381
10	1291	11835	9	13135	1143	847	2975	12303	-6	172	12469
11	1448	11930	10	13387	1129	923	3062	12650	4	133	12788
12	1570	12135	11	13717	1130	864	2938	13130	-6	87	13211
13	1720	12256	12	13988	1161	866	3012	13370	4	51	13425
14	1944	12364	13	14321	1172	742	3017	13624	-7	40	13656
15	1859	13112	14	14984	1191	729	3340	13980	6	36	14023
16	1826	13215	15	15056	1210	732	3458	13945	-7	42	13980
17	1723	13274	16	15013	1216	739	3497	13851	13	83	13947
18	1470	13182	17	14669	1170	725	3213	13706	10	76	13791
19	2116	13237	18	15370	1221	714	2461	15190	13	73	15276
20	2721	13902	19	16642	1315	656	2962	15998	78	128	16204
21	2818	14586	20	17424	1255	649	3564	16171	30	217	16418
22	2458	14374	21	16853	1273	669	3687	15520	5	227	15752
23	2155	14097	22	16274	1258	717	3578	15085	-3	232	15314
24	2086	13761	23	15870	1245	770	3239	15129	-3	246	15372

NOTIFIED POWER CUTS/RESTRICTIONS ON INDUSTRIES & POWER SUPPLY TO AGRICULTURE SECTOR
FOR THE MONTH OF JUNE-2016

POWER CUT / RESTRICTIONS

BSEB	NO NOTIFIED CUTS/RESTRICTIONS However there was loadshedding of 74.65 MU
JSEB	NO NOTIFIED CUTS/RESTRICTIONS However there was loadshedding of 2.47 MU
DVC	NO NOTIFIED CUTS/RESTRICTIONS. However there was loadshedding of 12.09 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 13.81 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

Jun-16

D A T E	H O U R S										INST. FREQ.				15 MIN. INTEGRATED			
	00	05	10	17	22	00	49.9	49.9	>50.05	49.9								
	TO	TO	TO	TO	TO	TO	<49.9	TO	TO	TO	MAX	HRS.	MIN	HRS.	MAX	HRS.	MIN	HRS.
	05	10	17	22	24	24		50.1	50.05		HZ		HZ		HZ		HZ	
01-Jun	49.94	49.97	49.95	49.95	49.92	49.95	19.40	70.41	10.19	70.41	50.16	17.33	49.70	19.47	50.04	7.15	49.81	19.30
02-Jun	49.98	49.96	49.92	49.94	49.94	49.95	21.32	68.74	9.94	68.74	50.15	0.01	49.73	11.51	50.06	17.00	49.82	11.45
03-Jun	49.96	49.97	49.92	49.97	49.98	49.96	15.68	75.10	9.22	75.10	50.14	6.02	49.73	12.47	50.03	6.00	49.78	12.15
04-Jun	49.97	49.99	49.98	49.98	49.91	49.98	7.30	80.65	12.05	80.65	50.13	5.03	49.76	22.12	50.06	10.30	49.86	23.00
05-Jun	49.97	50.01	49.98	50.01	49.94	49.99	5.65	77.76	16.59	77.76	50.17	19.02	49.81	23.19	50.07	6.00	49.89	4.15
06-Jun	50.03	50.02	49.99	49.98	50.00	50.00	3.98	74.17	21.85	74.17	50.18	5.06	49.84	19.23	50.11	5.00	49.90	19.45
07-Jun	49.99	50.02	50.00	50.02	49.96	50.00	2.95	73.23	23.82	73.23	50.27	18.04	49.82	22.12	50.16	18.00	49.87	22.15
08-Jun	50.02	50.00	49.98	50.02	50.01	50.00	3.70	69.83	26.47	69.83	50.20	18.06	49.77	14.19	50.14	18.00	49.86	14.15
09-Jun	50.01	50.02	49.98	49.97	50.00	49.99	4.58	75.07	20.37	75.07	50.37	14.27	49.81	19.53	50.06	7.45	49.88	19.45
10-Jun	50.00	50.02	49.97	50.05	50.03	50.01	3.61	75.49	20.90	75.49	50.25	17.10	49.75	12.22	50.17	17.00	49.83	12.15
11-Jun	50.02	50.04	49.98	49.98	49.99	50.00	3.59	71.97	24.44	71.97	50.17	8.02	49.79	21.24	50.11	7.00	49.87	21.15
12-Jun	49.98	50.03	50.01	49.97	49.98	50.00	6.47	69.38	24.15	69.38	50.19	17.04	49.76	19.52	50.13	17.30	49.81	19.45
13-Jun	49.98	50.02	49.98	49.99	50.00	49.99	6.70	71.90	21.40	71.90	50.17	6.00	49.75	21.06	50.07	15.30	49.82	14.30
14-Jun	50.03	50.05	50.00	49.95	50.01	50.01	5.42	63.49	31.09	63.49	50.17	6.02	49.76	19.40	50.11	8.00	49.84	19.30
15-Jun	50.00	50.05	49.99	49.95	49.95	49.99	7.97	67.86	24.17	67.86	50.20	13.02	49.66	19.37	50.14	7.00	49.80	19.30
16-Jun	50.00	50.04	49.98	49.94	49.92	49.98	12.42	63.45	24.13	63.45	50.25	18.04	49.70	20.21	50.15	18.00	49.70	20.15
17-Jun	49.97	49.98	49.97	49.95	49.99	49.97	11.37	75.23	13.40	75.23	50.18	13.04	49.70	19.44	50.07	13.00	49.76	19.15
18-Jun	49.94	49.98	49.98	49.90	49.96	49.95	15.87	75.09	9.04	75.09	50.17	6.03	49.84	21.06	50.07	13.00	49.75	21.00
19-Jun	49.98	50.01	50.01	49.97	50.00	49.99	2.72	79.75	17.53	79.75	50.15	5.02	49.73	0.09	50.06	13.45	49.88	0.15
20-Jun	50.00	49.98	49.97	49.95	50.01	49.98	7.62	79.71	12.67	79.71	50.24	13.02	49.85	18.42	50.08	21.45	49.82	18.45
21-Jun	49.98	50.00	49.98	49.99	50.01	49.99	3.66	78.71	17.63	78.71	50.15	6.02	49.83	15.52	50.05	5.00	49.86	15.45
22-Jun	49.99	50.02	50.01	50.00	50.02	50.01	2.07	70.95	26.98	70.95	50.21	10.03	49.82	19.25	50.13	12.00	49.91	3.00
23-Jun	50.00	49.99	50.00	49.96	49.99	49.99	5.15	78.31	16.54	78.31	50.16	16.04	49.82	20.29	50.07	13.00	49.87	20.15
24-Jun	49.99	49.99	49.97	49.95	49.99	49.98	8.86	78.40	12.74	78.40	50.14	8.01	49.78	18.23	50.04	7.45	49.84	21.00
25-Jun	49.98	50.02	49.98	49.92	49.96	49.97	12.21	72.41	15.38	72.41	50.18	6.03	49.71	21.13	50.08	6.00	49.77	19.30
26-Jun	49.98	50.01	49.99	49.96	49.99	49.98	7.55	74.81	17.64	74.81	50.16	6.02	49.71	19.39	50.09	16.00	49.82	19.30
27-Jun	49.99	50.01	49.99	49.96	50.01	49.99	5.21	75.95	18.84	75.95	50.15	13.02	49.74	19.12	50.07	13.00	49.89	21.00
28-Jun	49.99	50.00	49.98	49.97	50.01	49.99	4.57	79.66	15.77	79.66	50.17	19.02	49.81	14.15	50.07	23.45	49.86	19.30
29-Jun	49.99	49.98	50.01	49.94	50.01	49.99	7.45	73.95	18.60	73.95	50.15	13.04	49.65	19.37	50.08	13.00	49.72	19.30
30-Jun	49.98	49.99	49.99	49.96	50.01	49.99	3.88	81.22	14.90	81.22	50.16	21.55	49.81	21.06	50.06	10.45	49.87	19.30
MAX	50.03	50.05	50.01	50.05	50.03	50.01	21.32	81.22	31.09	81.22	50.37		49.85		50.17		49.91	
MIN	49.94	49.96	49.92	49.90	49.91	49.95	2.07	63.45	9.04	63.45	50.13		49.65		50.03		49.50	
AVG	49.99	50.01	49.98	49.97	49.98	49.99	7.63	74.09	18.28	74.09	50.18		49.76		50.09		49.82	

SUMMARY:

Avg. Frequency : 49.99 Hz.

Instantaneous Frequency :

Maximum Frequency : 50.37 Hz On 00/01/00 at 14:27 Hrs.

Minimum Frequency : 49.65 Hz On 00/01/00 at 19:37 Hrs.

15 Minutes Integrated Frequency :

Maximum Frequency : 50.17 Hz On 00/01/00 at 17:00 Hrs.

Minimum Frequency : 49.50 Hz On 00/01/00 at 19:45 Hrs

Frequency Distribution in % of Time			
Hz	<49.9	49.9-50.05	>50.05
% of Time	7.63	74.09	18.28

VOLTAGE ANALYSIS

MAXIMUM & MINIMUM VOLTAGES RECORDED AT IMPORTANT 400 kV S/S IN THE MONTH OF JUNE-2016

(All figs. in kV)

PGCIL	FARAKKA		SUBHASGRAM		DURGAPUR		JEERAT		PURNEA	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	0	0
	426	400	426	408	424	382	430	384	0	0

PGCIL	FARAKKA		SUBHASGRAM		DURGAPUR		JEERAT	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	419	386	431	410	418	403	425	372

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 48.2 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
JUNE-2016**

(All figs.in mtrs.)

Name of the Reservoirs	FRL	MDDL	As on last day of the		As on first day of this month & date	
			(30-6-16)	(30-6-15)		
Hirakud	192	180	181.98	183.55	183.64	01.6.16
Balimela	462	439	450.31	453.45	450.07	01.6.16
Rengali	123	109	110.01	113.85	111.22	01.6.16
Upperkolab	858	844	848.39	851.74	848.14	01.6.16
Indravati	642	625	630.39	631.68	630.66	01.6.16
Subernrekha	590	580	584.85	585.86	584.82	01.6.16

B.

CPP/IPP IMPORT by Eastern Region Constituents during JUNE-2016

(All figs. are in MU)

System	Tata Power	Crescent Power	JSPL, Angul	Sterlite	Jindal	NALCO	TISCO	Others	Total
West Bengal	57.76	26.20	0	0	0	0	0	565.92	649.88
ODISHA	0	0	24.61	261.11	13.50	26.45	0	246.44	572.11
DVC	0	0	0	0	0	0	23.15	0	23.15
TOTAL	57.76	26.20	24.61	261.11	13.50	26.45	23.15	812.36	1245.14

C.

Distribution of Schedule Supply among Key Customers by IPPs during JUNE-2016

(All figs. are in MU)

IPP	TPDDL	WBSEDCL	DVC *	Sale at IEX/NPCL	ODISHA	JSEB	CTU/Others	Total (Excl. Tr. Loss)
MPL	164.71	179.45	53.97	0.00	0	0	173.18	571.30
Sterlite	0	0	0	0	261.11	0	0.00	261.11
APNRL	0	70.10	0	2.15	0.00	89.12	143.36	304.74
GMR	0	0.00	0	0.00	130.85	0	202.37	333.22
Total	164.71	249.55	53.97	2.15	261.11	89.12	316.54	1137.15

(*)—During this month, DVC has drawn 53.97 MU of MPL energy which is included in its exchange with Grid.

D.

Monthwise Gross Generation from Chuzachen HEP

April'15	May'15	June'15	July'15	Aug'15	Sep'15	Cum. Total (2015-16)
29.18	43.87	62.48	0.00	0.00	0.00	
Oct'15	Nov'15	Dec'15	Jan'16	Feb'16	Mar'16	
0.00	0.00	0.00	0.00	0.00	0.00	
135.53						

STATUS OF IMPORTANT TRANSMISSION LINES UNDER CONSTRUCTION

(As on 30.06.16)

Sl. No.	Name of the Trans. Line	Length (CKM)	Completion Target		Remarks/Constraints
			Schedule	Ant. / Act.	
1.0 <u>INTER REGIONAL SYSTEMS</u>					
1.1	Common Scheme for 765 KV Pooling Station and Network associated with DVC & Maithon RB Project etc. and Import by NR & WR via ER	2038	Aug'12	Dec'14	Project Completed.
1.1.1	400 KV D/C Maithon - Gaya line (Q) (Inclu. M/C portion for Koderma-Gaya)-39 Kms.	552	Aug'12		Commissioned
1.2	Supplementary Transmission System Associated with DVC & Maithon Right Bank Project				
1.2.1	400 KV D/C Bokaro TPS Extn. – Koderma TPS	200	Aug'12		Commissioned
1.2.2	400 KV D/C Koderma –Gaya line (Quad) (excl. M/C portion-39 Kms.)	256	Aug'12		Commissioned
2.0 <u>EASTERN REGION</u>					
2.1	Eastern Region Strengthening Scheme - III	716	Nov'12	Jun'17	
2.1.1	400 kV D/C Sasaram-Daltonganj line	392		Jun'17	
2.1.2	LILO of 400kv D/C (one ckt) Baripada-Mendhasal line at Dubri (OPTCL)	32			Commissioned
2.1.3	400 KV D/C Baripada-Mendhasal-at Pandiabil.	56			Commissioned
2.2	Transmission System for Phase-I Generation Projects in Jharkhand and West Bengal-Part-AI.	370	Nov'13	Jul'16	Gen. projects delayed (ant. In 2016-17 & beyond)
2.2.1	400kv D/C Ranchi (765/400kv S/S)-Jharkhand Pool-Gaya line (Quad)	136		Dec'15	Commissioned
2.3	Transmission System for Transfer of Power from Generation in SIKKIM to NR/WR Part-A	52	May'13	Sep'15	Revised BPTA Schedule-May'13 land for Kishanganj substation acquired in Aug'13.
2.3.1	LILO of Siliguri (Existing)-Purnea 400 KV D/c line at New Pooling station at Kishanganj	16			Commissioned.

2.3.2	LILO of Siliguri (Existing)-Purnea 400 KV D/c line (on which reconductoring is being carried out) at Kishanganj with QUAD Cond.	48		Jun'15	Completion matching with Kishanganj S/s.
2.3.3	LILO of Siliguri-Dalkhola 220KV D/c line at New pooling station Kishanganj	36			Commissioned
2.3.4	LILO of Gangtok-Melli 132 KV S/c line up to Rangpo	19			Commissioned
2.4	Eastern Region Strengthening Scheme - V	961		Dec'16	
2.4.1	400 kV Rajarhat – Purnea line(Tripal) with LILO of one Ckt at Gokarana (WBSETCL) & other Ckt at Farakka(NTPC)	953		Dec'16	Severe row problem in Jharkand area.
2.4.2	LILO of Subhasgram-Jeerat 400 kV S/C line at Rajarhat.	8		Sep'16	
2.5	Trans mission system associated with Darlipali TPS	48	Jun'18	Jun'18	
2.5.1	765 kV D/C Darlipalli TPS – Jharsuguda (Sundergarh) Polling Stn. Line.	48		Jun'18	Award placed in Jan'16. Efforts being made to complete in 2016-17 for start up power to NTPC.
2.6	Eastern Region Strengthening Scheme - XV	195	Apr'18	Apr'18	
2.6.1	400 kV D/C Farakka – Baharampur line (Twin HTLS)	160		Apr'18	Award place in Apr'16
2.6.2	LILO 400 kV S/C Farakka – Jeerat line at sagardighi.	30		Apr'18	Award place in Apr'16
2.6.3	LILO 400 kV S/C Sagardighi – Subhasgram t line at Jeerat.	2		Apr'18	Award place in Apr'16
2.6.4	Removal of the existing LILO Farakka – Jeerat S/C line at Baharampur.	3		Apr'18	Award place in Apr'16
2.7	Powergrids works associated with Common trans. System for Phase II Gen. Proj. in Odisha.	136	Apr'19	Apr'19	
2.7.1	LILO of both Ckt of 400kV D/C Rourkela- Raigarh (2 nd line) at Jharsuguda.	136		Apr'19	Award place in Apr'16
2.8	Associted transmission system for Nabinagar-II TPS.	482	Jun'19	Jun'19	
2.8.1	400kV D/C Nabinagar II- Gaya Line(Q)	204		Jun'19	Award place in Apr'16
2.8.2	400kV D/C Nabinagar II- Patna Line (Q)	278		Jun'19	Award place in Apr'16

2.0 JUSNL

2.1	220kV Govindpur- Dumka D/C				Present status awaited
2.2	220kV Dalton ganj - Garwah				Present status awaited

2.3	400kV Patraru-New Ranchi(PG)				Expected in Oct'16
2.4	400kV Patraru- Latehar				Present status awaited

3.0 DVC

3.1	220 KV D/C MTPS- Ramgarh line via Gola	342	Dec' 08	Mar'16	Working clearance obtained in 6.3.13. 108ckm of line has been charged at 220 kV from MTPS end on 09.09.15.
3.2	220 KV D/C Gola-Ranchi Line	112	Nov,14	Jul'16	Railway Crossing proposal, Line crossing proposal and PTCC proposal to be submitted in Feb'14.
3.3	220 KV D/C Koderma – Giridih	212			Commissioned.
3.4	2 nd Circuit LILO of MTPS-Kalyaneswari line at Burnpur Sub-station	37	Dec'10	Mar'16	Severe ROW problem in most locations.
3.5	a) 400kv D/C Raghunathpur TPS to Ranchi.	311		Dec'14	Working clearance obtained in Jan'13. PTCC clearance issued on 18.02.14.
3.6	220 kv D/C Koderma-Giridih line	212	Feb'10		Commissioned.

4.0 ODISHA

4.1	220 KV D/C line from Bidanasi to Cuttack	20.84	Oct'10		Commissioned.
4.2	400 KV line from Meramundali to Mendhasal	200.9	June'99		Commissioned.
4.3	Construction of 2 nos. 220kv feeders from 220/132/33 kv Grid s/s of OPTCL at Jaynagar to 400/220 kv Grid s/s of PGCIL at Jaynagar having line length of approx. 8.608 kms with 2 nos. of 220 kv bay extension at each end.	15.098	--		Commissioned.
4.4	Commissioning of 220kV/132kV Cuttack S/s				Expected in Sep'16

5.0 WBSETCL

5.1	Subhasgram (PG) – Saintala 220 KV D/C line (ACSR Zebra)	25	--	--	Converted to M/C line. Work will be carried jointly with CESC.
5.2	TLDC-IV-NJP 220 KV D/C (ACSR Zebra)-ckt-2			May'13	Commissioned.
5.3	Santalalhi TPS-Bishnupur 220 KV D/C	224.0			Work held up due to Contractual problem.
5.4	Raghunathpur to Hura 220 KV D/C	72.0		June'13	Foundation work not yet commenced.
5.5	2x160MVA 220/132kV Singur S/s				Present status awaited
5.6	220kV Arambagh- Rishra LILO at Singur				Present status awaited

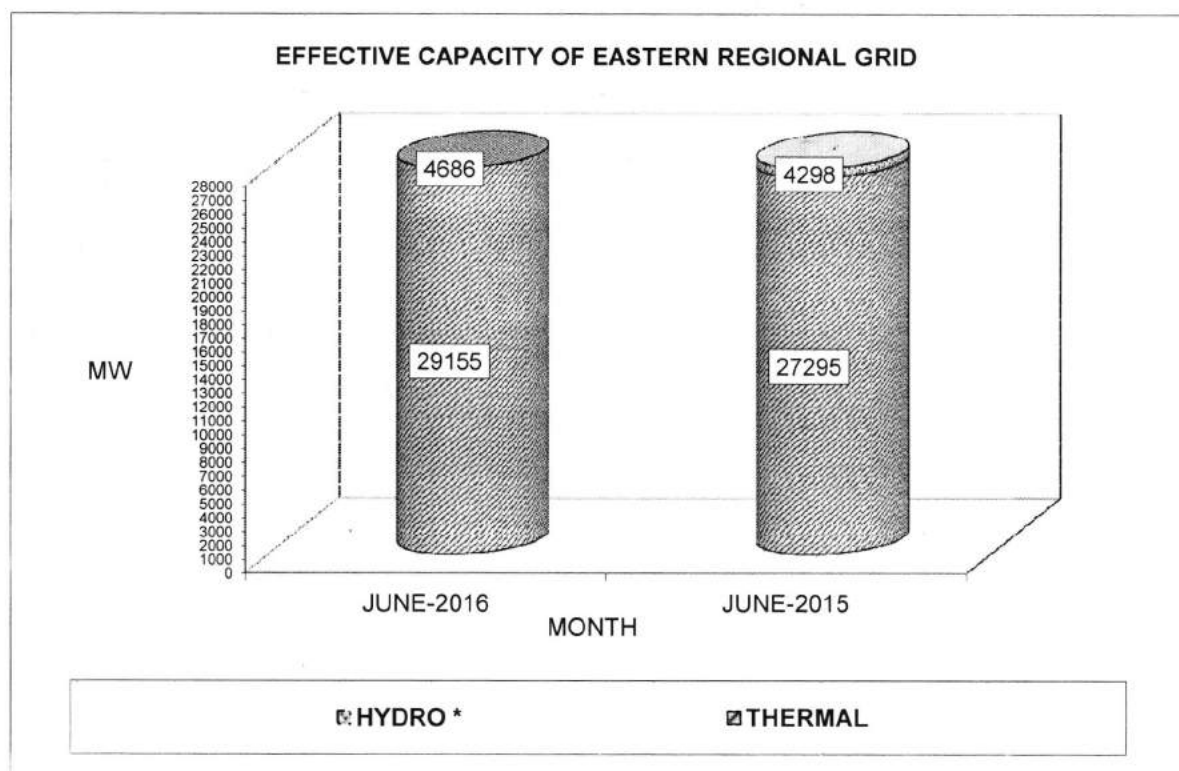
ANNEXURE-VI**COMMISSIONING SCHEDULE OF NEW GENERATING STATION**

(As on 30.06.16)

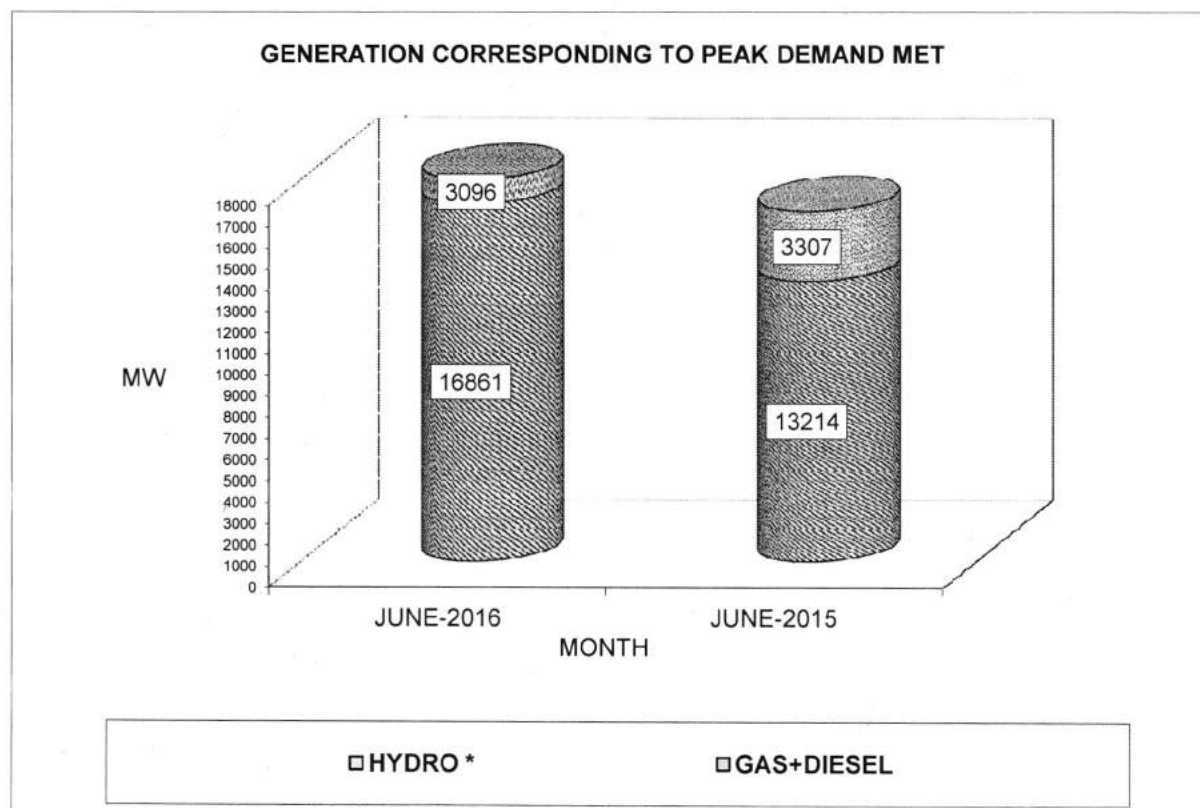
Sl. No.	AGENCY	NAME OF POWER STATION	STATE	TYPE	UNIT NO.	CAPACITY (MW)	LATEST COMMISSIONING SCHEDULE
1	DVC	BTPS 'A'	Jharkand	THERMAL	1	500	Status awated
2	ODISHA	Corporate Power Ltd.	Odisha	THERMAL	1	257	Status awated
3	WBPDC	Sagardighi	West Bengal	THERMAL	3	500	Status awated
4	WBPDC	Sagardighi	West Bengal	THERMAL	4	500	Status awated
5	KBUNL	Muzaffarpur (MTPS)	Bihar	THERMAL	1	195	Expected COD on Mar, 2017
6	KBUNL	Muzaffarpur (MTPS)	Bihar	THERMAL	2	195	Expected COD on Mar, 2017
7	BRBCL	Nabinagar TPP	Bihar	THERMAL	4	4x250	Expected COD from Mar, 2017
8	BRBCL	New Nabinagar STPP	Bihar	THERMAL	2	2x600	Expected Dec, 2017
9	DVC	Maithon Left Bank	West Bengal	THERMAL	2	525	Status awated from DVC
10	NHPC	Teesta Urja	West Bengal	Hydro	3	200	Present status awated
11	NTPC	Barh Stage- I	Bihar	THERMAL	3	660	Status awated from NTPC
12	Lanco Babandh Power Ltd	Lanco Babandh TPP	ODISHA	THERMAL	1	660	

IPP

13	Corporate Power Ltd	Mata shri Usha TPP- Ph-I	Jharkand	THERMAL	2	270	
14	IPP	Ind Bharat TPP	Odisha	THERMAL	1	350	COD on Jul' 2016
15	IPP	Ind Bharat TPP	Odisha	THERMAL	1	350	COD on Jul' 2016

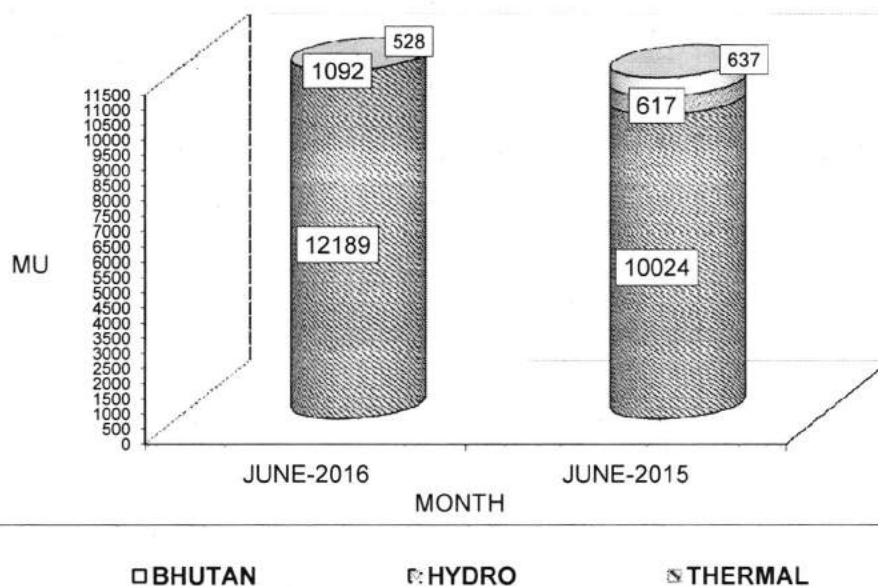


*Excludes 1350 MW contribution from HEPs of Bhutan

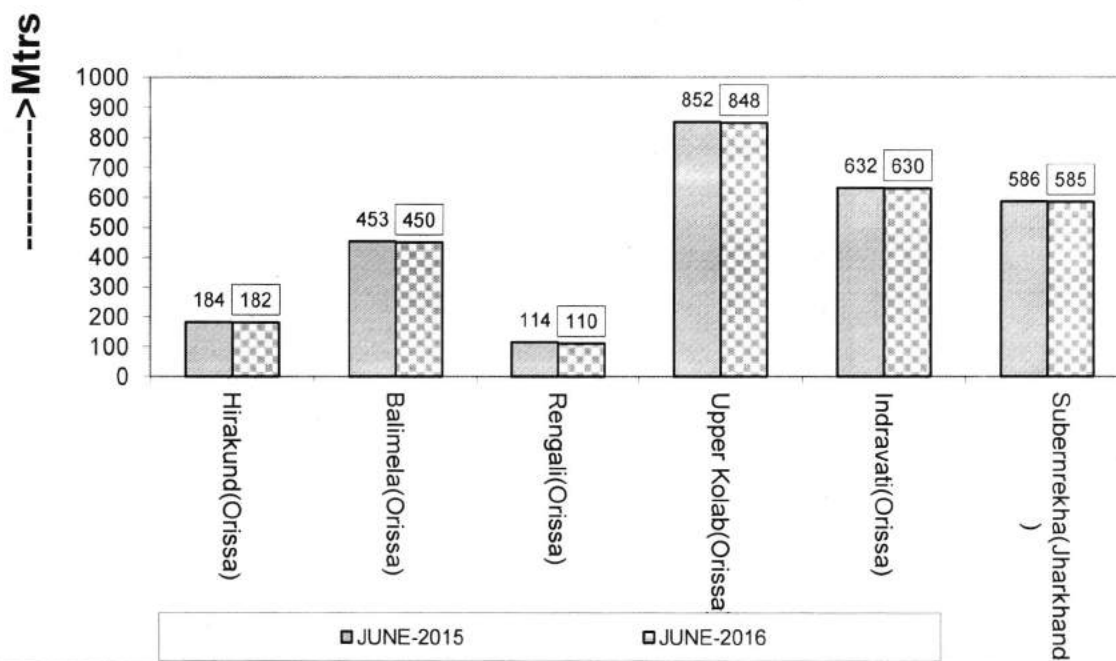


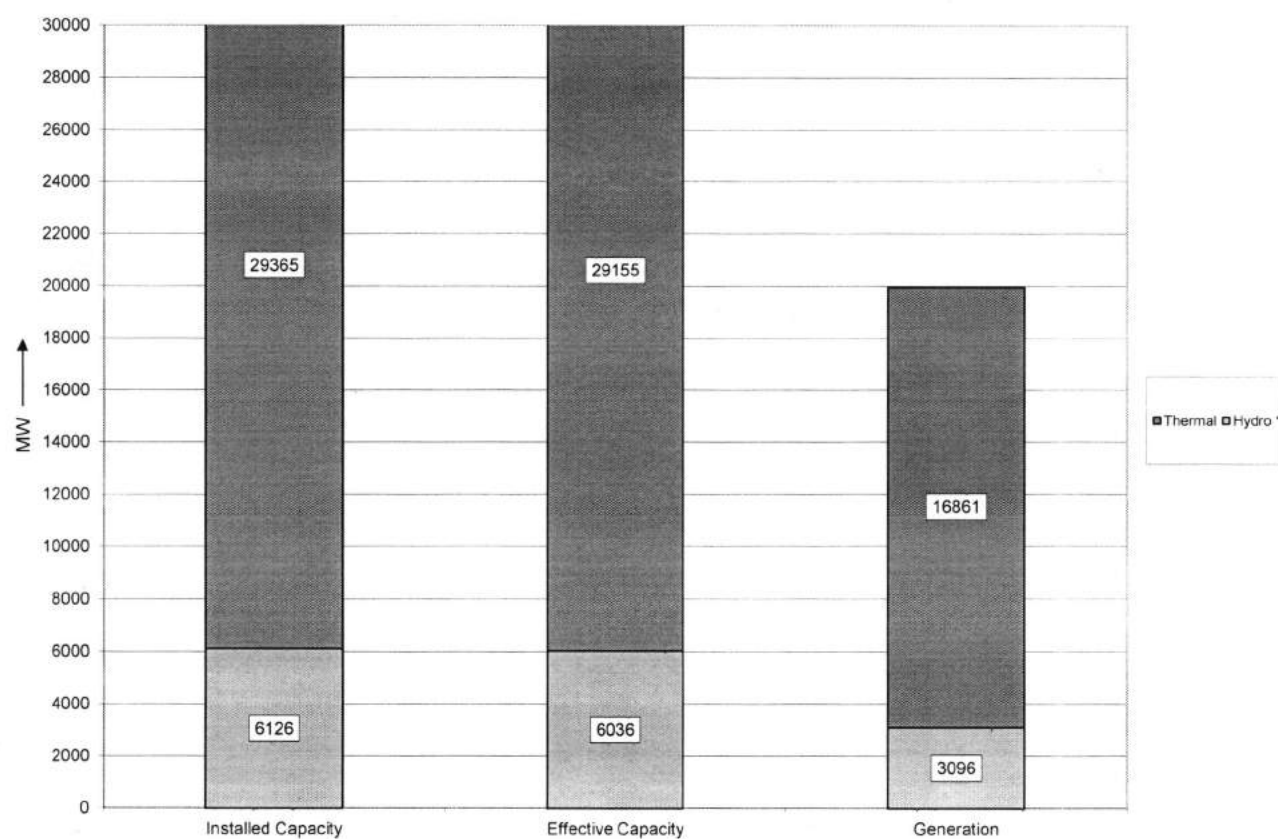
*Includes contribution from HEP of Bhutan

NET ENERGY GENERATION



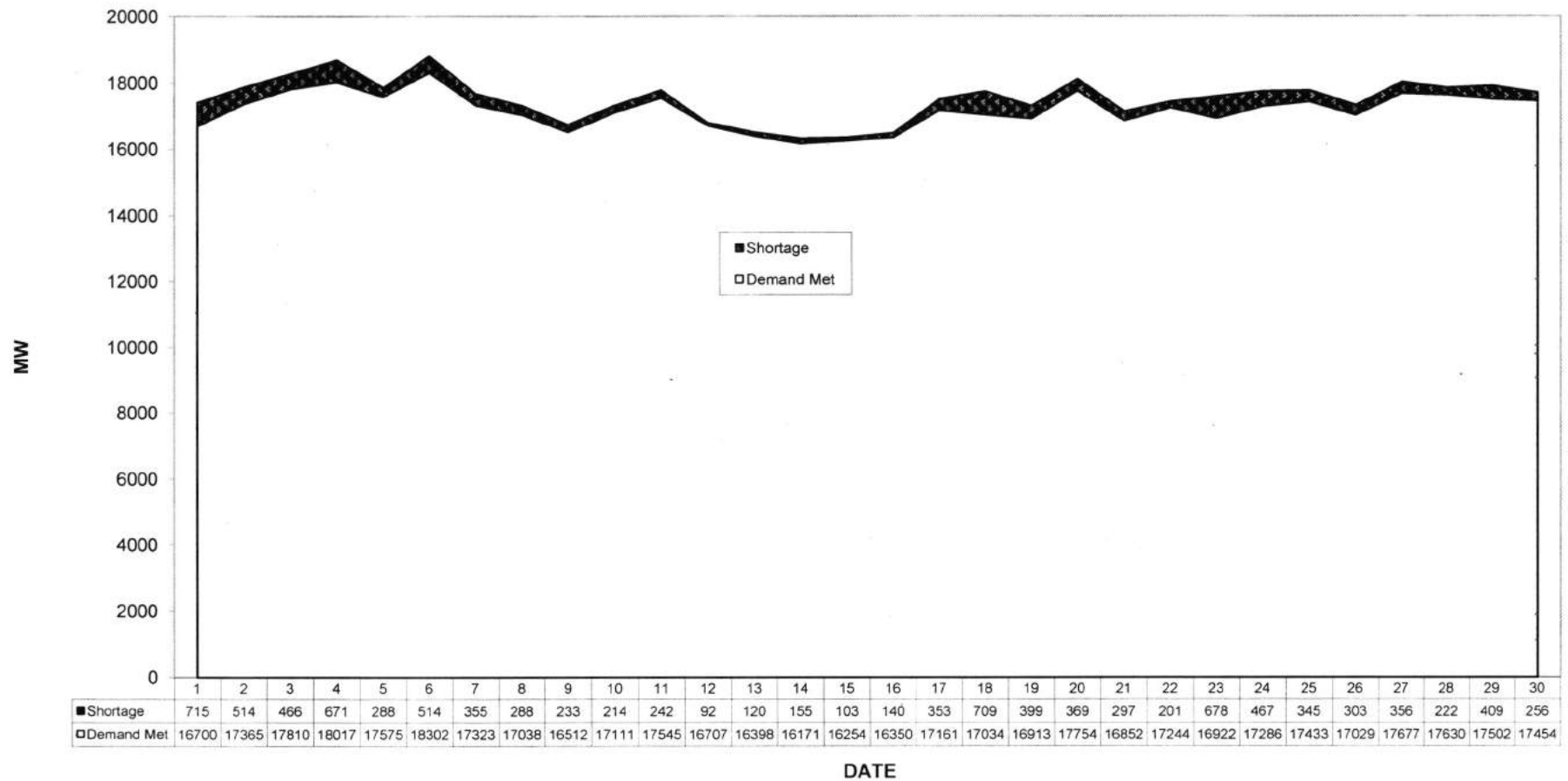
RESERVOIR LEVEL OF HPS OF ER (RECORDED ON LAST DAY OF MONTH)



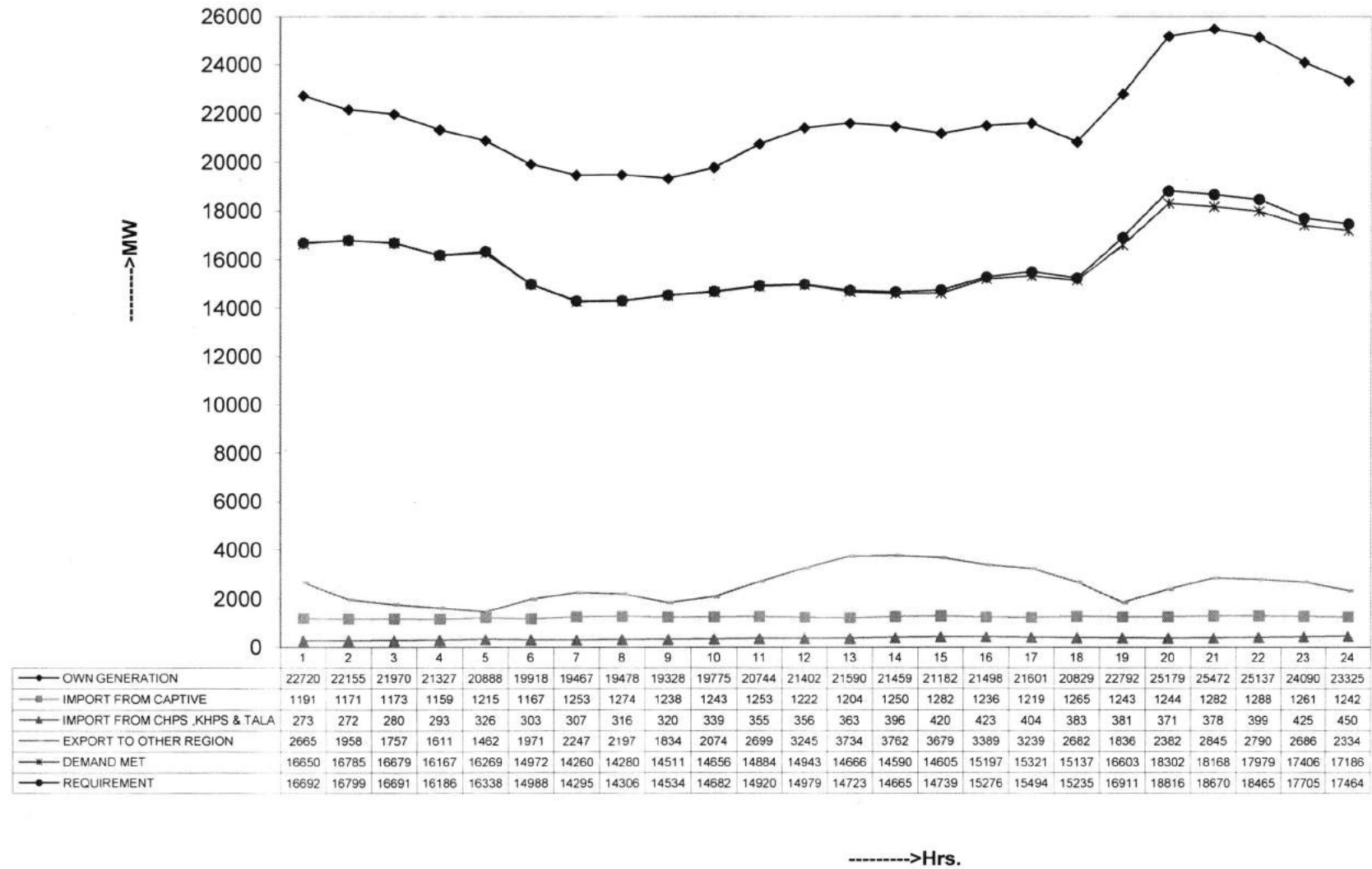
Capacity / Actual Generation Pattern of ER on Peak Day (6-6-2016) at 20.00 hrs.

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

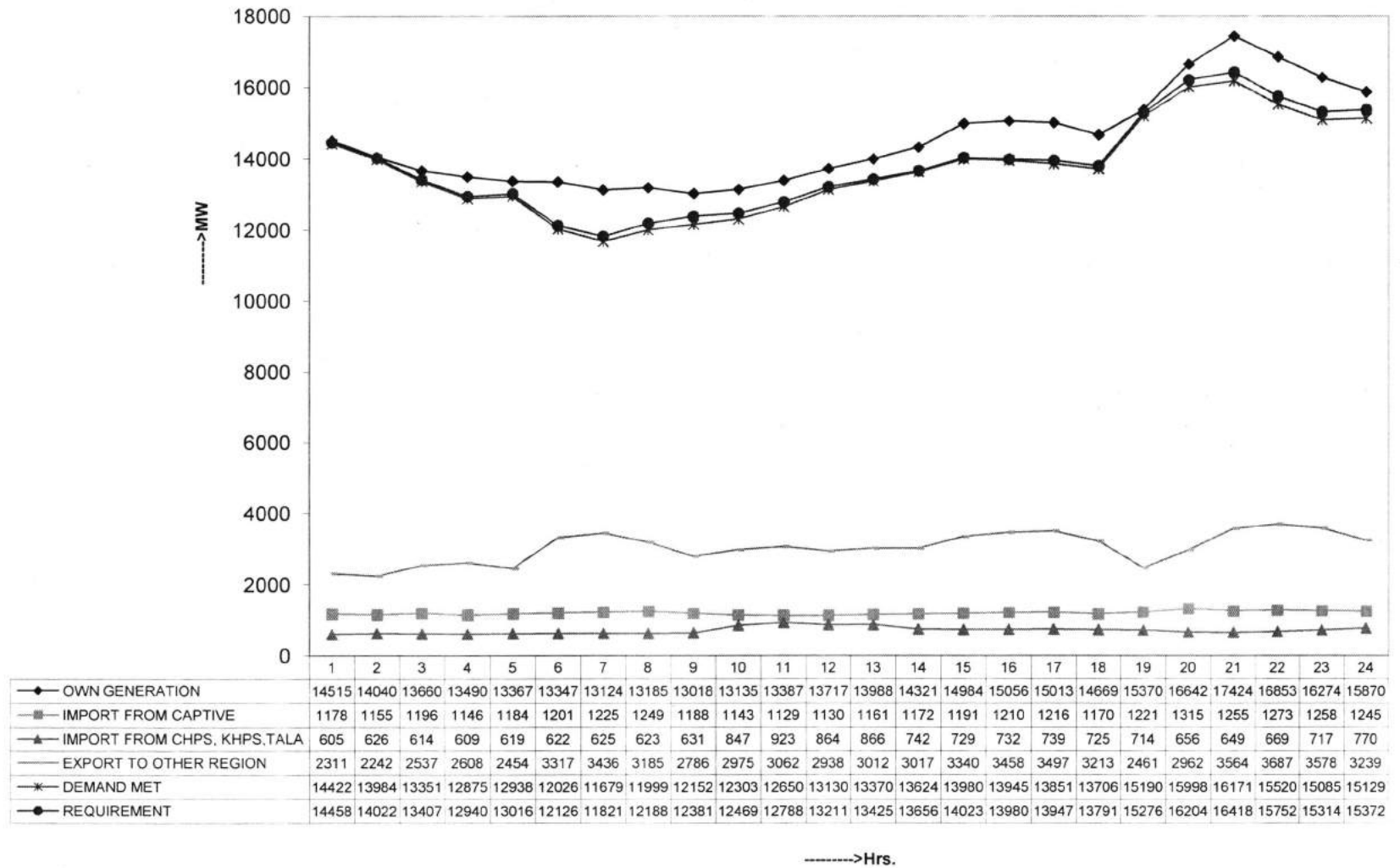
Peak Demand Met / Shortage of Eastern Region For The Month Of JUNE-2016



Hourly Load Generation Data OF ER On Regional Peak Day During The Month of JUNE-2016 (6-6-2016)

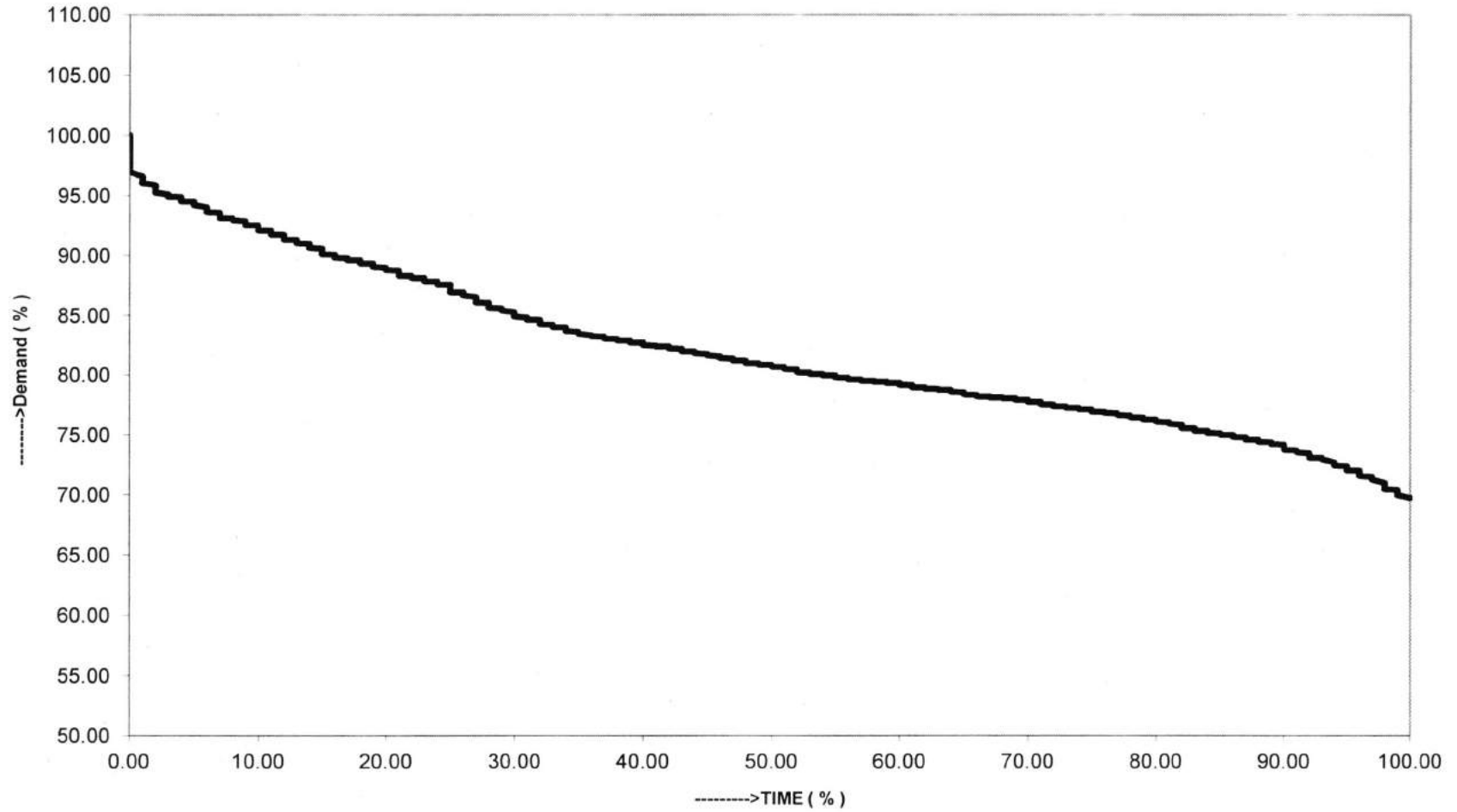


Hourly Load Generation Data of ER On Regional Lean Day During The Month of JUNE-2016 (14-6-2016)



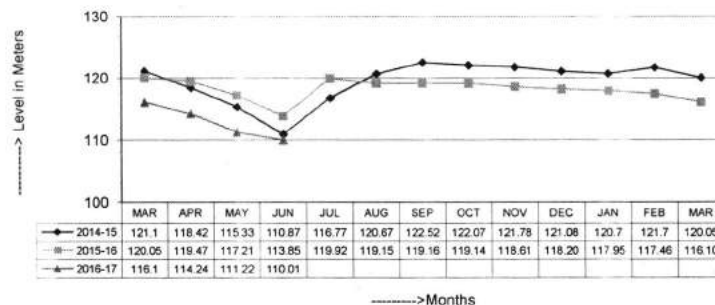
Monthly Load Duration Curve of Eastern Region for JUNE-2016

Maximum Demand met : 18302 MW
Minimum Demand met: 11679 MW

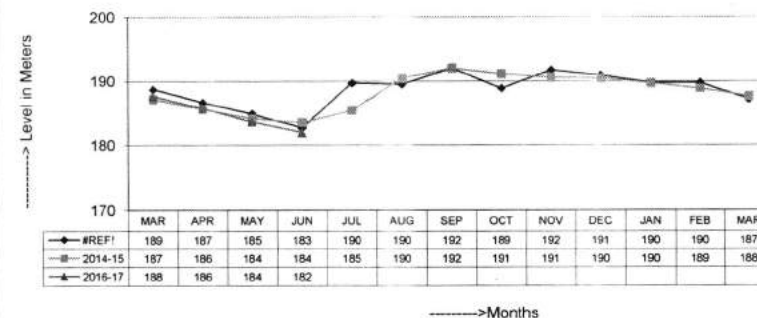


WATER LEVEL IN MAJOR RESERVOIRS ON LAST DATE OF MONTH

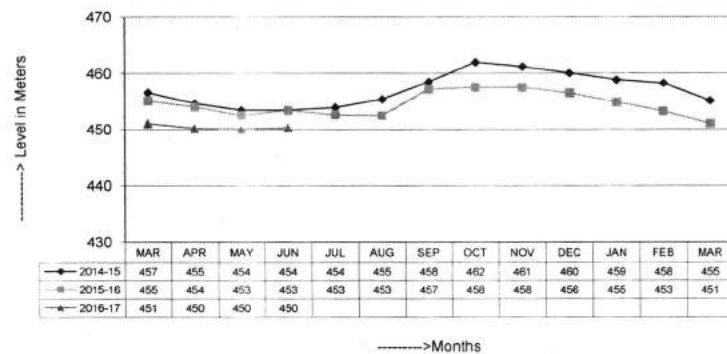
RENGALI RESERVOIR LEVEL



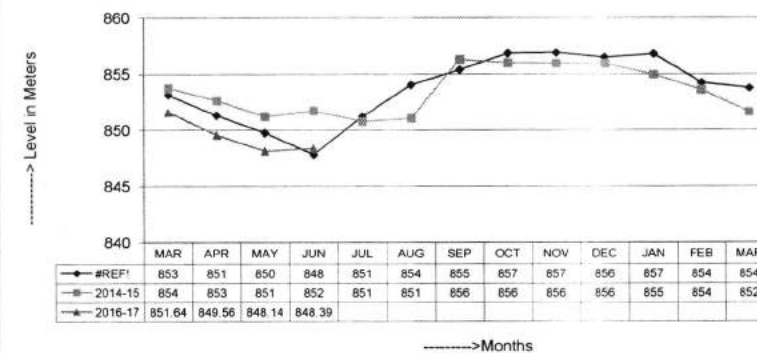
HIRAKUD RESERVOIR LEVEL



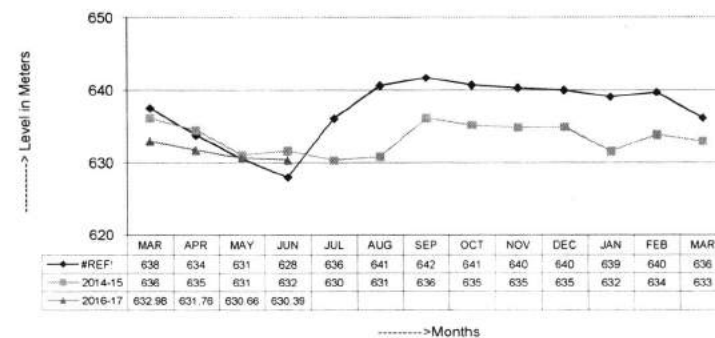
BALIMELA RESERVOIR LEVEL



UPPER KOLAB RESERVOIR LEVEL



INDRAVATI RESERVOIR LEVEL



SUBERNREKHA RESERVOIR LEVEL

