

**EASTERN REGIONAL POWER COMMITTEE
14, GOLF CLUB ROAD, TOLLYGUNGE
KOLKATA-700 033**

**AGENDA OF THE MEETING ON LOAD - GENERATION BALANCE REPORT (LGBR)
FOR THE YEAR 2017-2018 TO BE HELD ON 30.12.2016 (FRIDAY) AT 11:00 HRS AT ERPC,
KOLKATA**

ITEM NO.1 DETAILS OF PROPOSED UNIT MAINTENANCE PROGRAMME OF THERMAL GENERATING STATIONS IN ER

Most of the constituents submitted the unit-wise maintenance programme of their respective thermal generating stations for the year 2017-18 (except for Patratu, GMR & JITPL units). Those who have not submitted their detail maintenance programme are requested to submit the same for finalization. The schedule of the maintenance programme as submitted by the constituents has been tabulated in **Annexure-I**.

On analysis of the proposed schedule of maintenance programme of the constituents, ERPC suggests a minor revision/shifting the schedule of some units from September'17 considering the Durga Puja festival during the end of the month to any time during winter months. Shifting of the maintenance of the following units are proposed.

System	Station/ Unit	Proposed Period	Suggested Period
WBPDCCL	KTPS U # 3 (210MW)	25.07.2017 to 05.02.2018 for R&M	25.10.2017 to 05.04.2018
	Bandel U # 5 (210 MW)	01.09.2017 to 30.09.2017 for Boiler Overhauling	Either pre-pone to April'17 or post-pone to December'17
NTPC	FSTPS U#4 & Barh U#5 (both 500 MW)	Both the units proposed from middle of Aug'17 to middle of Sep'17 for Boiler issue	Maintenance of any one unit may be shifted to Dec'17. The other unit which will avail S/D during Aug-Sep must ensure the date of return considering the Durga Puja factor.

Bihar & Jharkhand being the peak deficit state round the year, shifting of Central Sector units shut down will not affect further in general.

Exigencies aroused during last summer due to generation loss from FSTPS for water shortage may please be kept under consideration and necessary arrangement may be kept ready to address such recurrence.

Member may discuss and finalize the shutdown program of the thermal units of different utilities.

ITEM NO. 2 ABSTRACT OF SYSTEMWISE PEAK DEMAND (MW) Vs. AVAILABILITY (MW) AND OFF-PEAK DEMAND (MW) Vs. AVAILABILITY (MW) FOR 2017-2018

The month-wise projected Peak Demand (MW) has been received from all the constituents except Sikkim. In absence of relevant data, the projected off-peak demand of some constituents has been calculated on the basis of present load factor of the concerned constituents and availability (MW) is considered as per the trend of past data available at ERPC.

On the basis of the information furnished by the constituents and historical data available with ERPC (for some utilities), the abstract statement of system wise peak & off peak demand against availability (MW) has been prepared and placed for discussion in the draft LGBR (**refer Annexure-II & III respectively**).

The proposed unrestricted peak demand by Bihar (3900 – 4500 MW) appears to be high, hence based on the past trend after allowing growth month wise maximum demand has been considered around 3800 – 4000 MW. Bihar will face peak shortage in every month to the tune of 342-835 MW (maximum peak shortage in Nov'17) and also maximum off peak shortage 526 MW in Nov'17. This shortage is mainly due to low availability from own source. Practically, there is no generation from Barauni. If new units of Kanti (Mazaffarpur) able to perform significantly good then it is fine otherwise Bihar's peak power availability will suffer very adversely. Bihar's Barauni units are shutdown since long back. As reported Unit # 7 are presently under trial run. Bihar also optimistically informed that Barauni unit # 6 will be available from June'17. Bilateral drawal from Adani and GMR to the tune of 200 MW and 260 MW respectively considered. Bihar may kindly appraise source wise availability of additional power through LTOA, MTOA and STOA also, if any.

Jharkhand will also pass through under peak shortage throughout the year to the tune of 195-342 MW. There will be off peak shortage also for most of the months to the tune of 200 MW. Poor performance of own source particularly Patratu is the main reason for shortage of Jharkhand. Bilateral drawal from APNRL to the tune of 100 MW considered. Jharkhand may kindly appraise source wise availability of additional power through LTOA, MTOA and STOA also, if any.

There might be no peak shortage in Odisha system. Though there is very small shortage in few months that might be managed by Odisha through optimization of their hydro resources. There will be no off peak shortage in Odisha. There will be reasonable surplus during off peak, particularly during the monsoon. However being dominated by hydro stations everything will depend upon rainfall throughout the year, though their thermal availability is stable as well as highly performed. Why Odisha has shown hydro generation in off peak hours as low as only around 100 MW is not understandable. For working out off peak condition hydro availability has been considered as per normal practice of around 600 MW.

For DVC peak as well as off peak is not at all a problem. After considering bilateral export to the tune of 1300 MW (though DVC considered the export amount much higher) round the clock there will be sufficient surplus throughout the year.

CESC has planned their load generation balance in such a way that there will be no shortage or surplus for both the peak as well as off peak. Though they have to import a large quantity of power particularly during peak hours to meet their demand but no source has been indicated. CESC

has also shown no generation from their Titagarh station throughout the year and for Southern from November'17 to February'18.

DPL will also be able to meet their peak and off peak demand from its own generation. There will be surplus power mostly throughout the year if their units run steadily. Partly during Nov'17 and Dec'17 there would be marginal shortage as their one big unit one at a time will be out for planned maintenance for 15 days in those months. Also as indicated by West Bengal SLDC, they would not draw any power from DPL, so DPL have to find the buyer for their surplus power or they have to reduce their generation according to their own demand.

As per WBSSEDCL's projection there will be no peak shortage for both the peak as well as off peak. In some months there are very marginal shortfall which could be managed through optimization of their own generation. In some months off peak power will be surplus to the tune of 1000 MW. WB SLDC has shown significant amount of power import from Renewable non-solar power (184 MW), LTOA & MTOA (325 MW), outside state IPP (around 190 MW), NVVNL Bundeled power (around 60 MW) and some months through STOA to the tune of 787 MW.

Import from TLDP has also shown as high as 262 MW. How many unit of TLDP Considered, West Bengal may please confirm.

No supply of power to CESC from WBSSEDCL is considered during the year. No import of power from DPL by WBSSEDCL is also considered this year.

Export to Bangladesh during the year is also not considered by WBSETCL/WBSSEDCL.

WBSSEDCL/WBSETCL may please explain.

Sikkim as usual this year also not furnished any data for their system. However, they will be not only able to meet their full requirement from the central sector share of power but also be a surplus system.

From the regional perspective, there will be peak surplus throughout the year to the tune of 850 MW to 2300 MW and surplus during off peak hours to the tune of 250 Mw to 2200 MW. These surplus figures are after fulfilling bilateral export commitment of DVC (considering regional diversity factor as 1.03). This is mainly due to huge surplus in DVC system and import of power by WBSSEDCL/WBSETCL as well as CESC from various sources apart from regional sources.

Moreover, there is also availability from the regional thermal IPP source namely Jindal, Adhunik, GMR & MPL and hydro IPP namely Chuzachen & Zorthang. Another thermal IPP, Indbharat and one hydro IPP, Teesta Urja are also waiting to contribute to the system. As far as regional availability of power is concerned, apart from system constraint and financial burden of the concerned utility there is no reason for shortfall in any individual utility system as well as regional system.

The data taken into consideration for preparation of LGBR requires further discussion for its finalization. Members may please discuss and confirmed after deliberation.

ITEM NO. 3 ABSTRACT OF SYSTEMWISE ENERGY REQUIREMENT (MU) vs. AVAILABILITY (MU) FOR 2017-2018

The data of Energy Requirement (MU) for the year 2017-18 have been received from all constituents except Sikkim. For Sikkim, the energy requirement (MU) has been considered based on assumption only.

The data as received from the constituents have been compiled and shown in draft LGBR (**Refer Annexure-IV**).

For Bihar System there will energy shortage throughout the year ranging from 247 MU (Jul'17) to 576 MU (Nov'17). Bihar has shown generation plan of 915 MU from its Barauni station. It is also doubtful how the units will perform after returning from long shutdown. However, if Barauni and Kanti could not generate as per projection made by BSPTCL, shortage of Bihar might be increased. **Bihar has shown flat energy availability from Hydro source around 15 MU.** Bihar may please explain.

For Jharkhand also there will energy shortage round the year ranging from 153 MU (Sep'17) to 279 MU (Jan'18).

There would be surplus throughout the year in the year ranging between 263 MU to 489 MU of energy in DVC system.

For Odisha, very little shortfall (25-90 MU) appeared in some non-monsoon months which could be easily managed by Odisha through proper management in their hydro generation and if required through thermal plants under OPGC (IB TPS) & NTPC (TTPS).

WBSEDCL will be surplus in the range from 21 MU to 700 MU during the year as they will import significant amount of power from various sources. Export of power to Bangladesh has not been indicated.

CESC has planned their system uniquely so that there would be neither surplus nor any shortage.

DPL system will be marginally surplus though the year except marginal shortfall during Nov'17 & Dec'17 (around 15 MU) as their one big unit, one at a time, will be out for planned maintenance for 15 days in those months.

Sikkim system will be always energy surplus.

However, there is possible regional energy shortage in the month of April'17, Feb'18 & March'18 only.

Month wise energy generation programme from the IPP namely GMR has not been received. Jorthang, a new hydro IPP, whose generation as well as supply plan also not known. Another thermal IPP namely Indbharat and hydro IPP namely Teesta Urja will also likely to come whose generation as well as supply plan also not known.

IPPs are requested to clearly indicate their proposed supply plan to the respective States/beneficiaries of ER during 2017-18. Concerned States/beneficiaries are also requested to confirm the same.

Generation plan of some of IPP during 2017-18 is produced below:

JITPL – 9776 MU, MPL – 7376 MU, APNRL – 4021 MU, Chuzachen – 495 MU

Apart from the above, generation would be available from GMR, Indbharat & Jorthang.

Only a small portion of the above availability from the IPPs would be used in ER as per past trend and rest would be available for export to outside region or additional requisition from the deficit utilities of ER.

However, after finalization of Generation Target by CEA & MoP, availability will be re-casted accordingly and be a part of the final LGBR.

Members may please discuss.

ITEM NO. 4 SCHEDULE OF COMMISSIONING OF NEW GENERATING UNITS IN THE CONSTITUENTS SYSTEM

Respective utilities may please confirm the schedule of commissioning / commercial declaration (COD) of the following new generating units/any other units likely to come during 2017-18:

Constituent/ State	Power station	Capacity	Expected month of commissioning/ COD
DVC, Jharkhand	BSTPS 'A'	Unit #1 (500 MW)	
BSPHCL, Bihar	Muzaffarpur (KBUNL)	Unit#3&4 (195MW each)	
	Baruni Extn.	Unit#8&9 (250MW each)	
WBPDC, West Bengal	Sagardighi TPS	4 (500 MW)	
Ind Bharat, Odisha	Utkal TPP	U#1 & 2 (350 MW each)	
Joint venture of NTPC & Railways	Nabi Nagar TPP	U#1 - 4 (250 MW each)	
Joint venture of NTPC & Bihar	New Nabi Nagar TPP	U#1 -3 (660 MW each)	
NTPC	Barh Stage-I	U#1 -3 (660 MW each)	
Any other units			

ITEM NO. 5 ANNUAL MAINTENANCE OF TRANSMISSION ELEMENTS

Annual maintenance programme of transmission elements as received from the constituents will be circulated along with the final LGBR for 2017-18. However, any constituent having its plan for maintenance of transmission element but yet to submit the same are requested to furnish the same at the earliest for inclusion in the final LGBR 17-18.

Members may please discuss.

ITEM NO. 6 ANY OTHER POINTS WITH THE PERMISSION OF THE CHAIR.

Proposed Maintenance Schedule of Thermal Generating Units of ER during 2017-18

System	Station	Unit	Size (MW)	period		No. of Days	Reason	
				From	To			
BSPTCL	MTPS (KBUNL) BTPS	2	110	15.07.17	15.08.17	32	Overhauling	
		6	105	01.04.17	31.05.17	61	Under S/D since 18.03.12 for R&M work (Exp. by Mar'17, Gen. cons. from Jun'17)	
		7	105	15.07.17	31.07.17	17	Under S/D since 22.08.06. Presently under trial run. Gen. cons. full year. OM	
JUSNL	PTPS	4	40				Under Maintenance since long	
		6	90				Under Maintenance since long	
		7	105				Under Maintenance since long	
		9	110					
		10	110					
	TVNL, Tenughat		1	210	17.07.17	31.07.17	15	Annual Overhauling/Boiler Overhauling
2			210	16.06.17	30.06.17	15	Annual Overhauling/Boiler Overhauling	
DVC	MTPS	1	210	01.12.17	17.12.17	17	Burner Replacement	
		3	210	25.08.17	14.09.17	21	AOH (Boiler)	
		4	210	01.04.17	21.04.17	21	AOH (Boiler)	
		5	210	05.03.18	25.03.18	21	AOH (Boiler)	
		7	500	20.05.17	04.06.17	15	Burner Replacement	
	BTPS - B	8	500	24.12.17	08.01.18	16	Burner Replacement	
		3	210	01.11.17	21.11.17	21	AOH (Boiler)	
		2	130	01.04.17	21.04.17	21	Burner Replacement	
	CTPS	3	130	03.08.17	18.08.17	16	Burner Replacement	
		8	250	17.01.18	26.02.18	41	COH	
KTPS	2	500	15.09.17	10.10.17	26	AOH (Blr. TG Brgs, LPT Gen)		
DSTPS	2	500	20.07.17	14.08.17	26	AOH (Blr. TG Brgs, LPT Gen)		
ODISHA	TTPS	1	60	23.10.17	21.11.17	30	Capital Maintenance	
		2	60	10.04.17	24.04.17	15	Boiler Overhaul	
		3	60	01.09.17	15.09.17	15	Boiler Overhaul	
		4	60	26.06.17	10.07.17	15	Boiler Overhaul	
		5	110	20.07.17	23.08.17	35	Boiler Overhaul + HPT + IPT	
		6	110	03.12.17	22.12.17	20	Boiler Overhaul	
	IB TPS	1	210	05.06.17	25.06.17	21	Minor AOH	
		2	210	01.08.17	04.09.17	35	COH	
	WBPDCL	KTPS	1	210	20.10.17	26.10.17	7	Boiler License
			2	210	02.01.18	21.01.18	20	Boiler Overhauling
3			210	25.07.17	05.02.18	196	R&M	
4			210	27.01.18	15.02.18	20	BTG Overhauling	
5			210	17.12.17	23.12.17	7	Boiler License	
6			210	01.06.17	31.07.17	61	BTG+DCS+Stator Replacement+HPC Replacement	
Bakreswar TPS		1	210	22.10.17	26.11.17	36	BTG+TPR+(EHG+DAVR) Upgradation+GT OH	
		4	210	09.07.17	29.07.17	21	Boiler Overhauling	
Bandel TPS		5	210	13.08.17	02.09.17	21	Boiler Overhauling	
		2	60	01.11.17	28.02.18	120	Capital Overhauling & Departmental R&M	
		3	60	01.03.17	30.06.17	122	Capital Overhauling & Departmental R&M	
		4	60	01.07.17	31.10.17	123	Capital Overhauling & Departmental R&M	
		5	210	01.09.17	30.09.17	30	Boiler Overhauling	
Santalidih TPS		5	250	01.08.17	25.08.17	25	Boiler + LTP + Generator OH	
		6	250	01.09.17	07.09.17	7	Boiler License	
Sagarighi TPS		1	300	01.11.17	06.11.17	6	Boiler License	
	2	300	01.12.17	05.01.18	36	Capital Overhauling		
	1	250	19.12.17	08.01.18	21	Not Specified		
CESC	BUDGE-BUDGE	2	250	12.12.17	18.12.17	7	Not Specified	
		3	250	18.11.17	24.11.17	7	Not Specified	
		1	60	05.12.17	08.12.17	4	Not Specified	
	TITAGARH	2	60	18.01.18	01.02.18	15	Not Specified	
		3	60	13.12.17	03.01.18	22	Not Specified	
		4	60	15.11.17	18.11.17	4	Not Specified	
		1	67.5	21.11.17	05.12.17	15	Not Specified	
	SOUTHERN	2	67.5	11.01.18	14.01.18	4	Not Specified	
		1	300	17.01.17	31.01.17	15	Not Specified	
HEL	HALDIA	2	300				NO PLANNED MAINTENANCE	
DPL	DPPS	6	110				Under Maintenance since long	
		7	300	15.12.17	31.12.17	17	Boiler License Renewal	
		8	250	01.11.17	15.11.17	15	Boiler License Renewal	
NTPC	FSTPS	1	200	01.05.17	04.06.17	35	Boiler, Turbine, Gen., ESP R&M	
		3	200	01.07.17	04.08.17	35	Boiler, ESP R&M	
		4	500	12.08.17	15.09.17	35	Boiler, Turbine, Gen.	
		5	500	10.03.17	13.04.17	35	Boiler, Turbine, DDCMIS R&M	
		6	500	20.10.17	23.11.17	35	Boiler, Turbine	
		1	210	01.06.17	05.07.17	35	Boiler, Gen., DDCMIS R&M	
	KhSTPS	2	210	03.02.18	27.02.18	25	Boiler, DAVR	
		4	210	01.11.17	05.12.17	35	Boiler, Turbine, Gen., DDCMIS R&M	
		6	500	13.07.17	16.08.17	35	Boiler, Turbine, Gen.	
	Barh	5	660	16.08.17	15.09.17	31	Boiler	
		1	500	21.10.17	14.11.17	25	Boiler+LPT+Gen.+CT Cell R&M	
	TSTPS	3	500	01.08.17	14.09.17	45	Boiler Mod.+Capital+Gen.+ESP R&M+Boiler RLA	
4		500	01.06.17	15.07.17	45	Boiler Mod.+LPT+Gen.+ESP R&M+Boiler RLA		
1		350						
IPP	GMR	2	350					
		3	350					
		1	600					
	JITPL	2	600					
		1	525	14.08.17	14.09.17	32	Not Specified	
	APNRL	1	270					
2		270						

**ABSTRACT OF STATEWISE/SYSTEMWISE/CONSTITUENTWISE PEAK DEMAND- vs- AVAILABILITY
IN EASTERN REGION FOR THE PERIOD FROM APRIL-2017 TO MARCH-2018**

SL.NO	P A R T I C U L A R S	(ALL FIGURES IN MW & NET)											
		Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18
1	BIHAR												
	i) NET MAX DEMAND	3800	3800	3900	3900	3900	3900	4000	3900	3800	3800	3900	4000
	ii) NET POWER AVAILABILITY- Own Source	322	322	425	341	393	435	425	425	405	405	403	405
	Central Sector+Bi-Lateral	2891	2938	3133	2893	2714	2755	2849	2640	2726	2693	2724	2860
	iii) SURPLUS(+)/DEFICIT(-)	-587	-540	-342	-666	-793	-710	-725	-835	-669	-702	-773	-734
2	JHARKHAND												
	i) NET MAX DEMAND	1220	1250	1280	1300	1280	1280	1300	1280	1250	1250	1250	1260
	ii) NET POWER AVAILABILITY- Own Source	360	360	289	415	489	489	460	420	410	400	390	390
	Central Sector+Bi-Lateral	598	630	729	635	588	596	614	557	527	508	551	592
	iii) SURPLUS(+)/DEFICIT(-)	-262	-260	-262	-250	-203	-195	-226	-303	-313	-342	-309	-278
3	DVC												
	i) NET MAX DEMAND (OWN)	2760	2760	2770	2780	2640	2720	2720	2750	2760	2770	2770	2800
	ii) NET POWER AVAILABILITY- OWN SOURCE	4806	4884	4952	4968	4851	4829	4981	4914	4783	4781	4898	4837
	- Central Sector+MPL	522	574	648	502	453	442	529	489	464	433	492	503
	BI-LATERAL EXPORT BY DVC	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300
	iii) SURPLUS(+)/DEFICIT(-) AFTER EXPORT	1269	1398	1531	1390	1364	1251	1490	1353	1187	1143	1320	1240
4	ODISHA												
	i) NET MAX DEMAND	4400	4450	4400	4350	4350	4300	4300	4250	4200	4100	4100	4250
	ii) NET POWER AVAILABILITY- OWN+IPP+CPP	3152	3253	3151	3201	3521	3530	3154	3111	3117	2994	3022	3124
	- Central Sector	1201	1253	1293	1185	1120	1181	1139	1025	1099	1094	1110	1183
	iii) SURPLUS(+)/DEFICIT(-)	-47	56	44	36	291	411	-7	-114	16	-12	32	57
5	WEST BENGAL												
5.1	WBSEDCL												
	i) NET MAX DEMAND (OWN)	6100	5800	5830	6030	5980	6040	5860	5190	5160	5400	5650	6110
	ii) CESC's DRAWAL	0	0	0	0	0	0	0	0	0	0	0	0
	iii) TOTAL WBSEDCL's DEMAND (incl. Export)	6105	5805	5840	6040	5990	6050	5870	5200	5170	5405	5655	6115
	iv) NET POWER AVAILABILITY- Own Source	3466	3649	3716	3481	3311	3566	3564	3324	3663	3649	3779	3613
	- Import from DPL	0	0	0	0	0	0	0	0	0	0	0	0
	- Central Sector+Bi-lateral+IPP+CPP+TLDP	2966	2548	2605	2563	2648	2480	2402	1969	1857	1913	2188	2806
	v) SURPLUS(+)/DEFICIT(-) AFTER EXPORT	327	392	481	4	-31	-4	96	93	350	157	312	304
	vi) EXPORT (TO B'DESH & SIKKIM)	5	5	10	10	10	10	10	10	10	5	5	5
5.2	DPL												
	i) NET MAX DEMAND	310	300	290	280	260	280	285	275	270	270	285	305
	ii) NET POWER AVAILABILITY	426	426	426	426	426	426	426	329	298	426	426	426
	iii) SURPLUS(+)/DEFICIT(-)	116	126	136	146	166	146	141	54	28	156	141	121
5.3	CESC												
	i) NET MAX DEMAND	2020	2095	2100	1870	1895	1990	1950	1780	1590	1410	1610	1810
	ii) NET POWER AVAILABILITY - OWN SOURCE	750	750	750	750	750	750	750	670	670	670	670	730
	IMPORT FROM OTHER SOURCE (INCL. IPP/CPP -40 MW)	740	815	820	590	615	710	670	580	390	210	410	550
	IMPORT FROM HALDIA ENERGY LTD.	530	530	530	530	530	530	530	530	530	530	530	530
	iii) TOTAL AVAILABILITY	2020	2095	2100	1870	1895	1990	1950	1780	1590	1410	1610	1810
	iv) SURPLUS(+)/DEFICIT(-)	0	0	0	0	0	0	0	0	0	0	0	0
6	WEST BENGAL (WBSEDCL+DPL+CESC) (excluding DVC's supply to WBSEDCL's command area)												
	i) NET MAX DEMAND OWN (Excl. Export)	8430	8195	8220	8180	8135	8310	8095	7245	7020	7080	7545	8225
	ii) NET POWER AVAILABILITY- Own Source	4642	4825	4892	4657	4487	4742	4740	4323	4631	4745	4875	4769
	iii) CS SHARE+BILETARAL+IPP/CPP+TLDP+HEL	4236	3893	3955	3683	3793	3720	3602	3079	2777	2653	3128	3886
	iv) SURPLUS(+)/DEFICIT(-) BEFORE WBSEDCL'S EXP.	448	523	627	160	145	152	247	157	388	318	458	430
	v) SURPLUS(+)/DEFICIT(-) AFTER WBSEDCL'S EXP.	443	518	617	150	135	142	237	147	378	313	453	425
7	SIKKIM												
	i) NET MAX DEMAND	85	85	85	85	85	85	85	85	90	90	90	90
	ii) NET POWER AVAILABILITY- Own Source	5	5	10	10	10	10	10	3	3	3	3	5
	- Central Sector	127	148	169	153	149	149	138	116	82	81	96	122
	iii) SURPLUS(+)/DEFICIT(-)	47	68	95	78	74	74	63	34	-5	-6	9	37
8	EASTERN REGION												
	At 1.03 AS DIVERSITY FACTOR												
	i) NET MAX DEMAND	20092	19942	20053	19995	19796	19995	19903	18942	18563	18534	19083	20024
	ii) BI-LATERAL EXPORT BY DVC	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300
	iii) EXPORT BY WBSEDCL	5	5	10	10	10	10	10	10	10	5	5	5
	iv) NET TOTAL POWER AVAILABILITY OF ER (INCLUDING CS ALLOCATION +BILATERAL+CPP+HEL)	22863	23085	23647	22643	22568	22878	22641	21102	21024	20790	21692	22677
	v) PEAK SURPLUS(+)/DEFICIT(-) OF ER AFTER EXPORT (v = iv - i - ii - iii)	1466	1839	2284	1338	1462	1573	1429	851	1151	951	1304	1347

**ABSTRACT OF STATEWISE/SYSTEMWISE/CONSTITUENTWISE OFF-PEAK DEMAND- vs- AVAILABILITY
IN EASTERN REGION FOR THE PERIOD FROM APRIL-2017 TO MARCH-2018**

(ALL FIGURES IN MW & NET)

SL.NO	PARTICULARS	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-17	Mar-18
1	BIHAR												
i)	NET MIN DEMAND	2600	2600	2650	2650	2650	2700	2700	2700	2700	2700	2750	2750
ii)	NET POWER AVAILABILITY- Own Source	322	322	405	331	383	425	405	405	405	405	403	405
	Central Sector+Bi-Lateral	1950	1935	1963	2310	2153	2080	1927	1769	1942	1947	1888	1959
iii)	SURPLUS(+)/DEFICIT(-)	-328	-343	-282	-9	-113	-195	-368	-526	-353	-348	-459	-386
2	JHARKHAND												
i)	NET MIN DEMAND	900	925	925	925	925	925	950	950	950	950	950	950
ii)	NET POWER AVAILABILITY- Own Source	360	360	289	346	420	420	420	360	360	360	360	360
	Central Sector+Bi-Lateral	391	395	425	581	539	497	401	364	388	386	384	394
iii)	SURPLUS(+)/DEFICIT(-)	-149	-170	-211	3	34	-8	-129	-226	-202	-204	-206	-196
3	DVC												
i)	NET MIN DEMAND (OWN)	2185	2150	2190	2200	2090	2150	2155	2180	2190	2195	2120	2215
ii)	NET POWER AVAILABILITY- Own Source	3343	3417	3432	3435	3368	3338	3424	3391	3341	3338	3422	3379
	- Central Sector+MPL	398	421	436	511	463	426	413	386	400	383	402	390
	BI-LATERAL EXPORT BY DVC	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300
iii)	SURPLUS(+)/DEFICIT(-)	256	388	377	446	441	314	382	297	251	226	404	254
4	ODISHA												
i)	NET MIN DEMAND	3300	3350	3300	3250	3250	3250	3150	3100	2950	2900	2900	3100
ii)	NET POWER AVAILABILITY- Own Source+CPP	2406	2522	2485	2505	2892	2776	2809	2603	2482	2416	2426	2398
	- Central Sector	899	898	865	1022	965	998	857	771	891	894	873	903
iii)	SURPLUS(+)/DEFICIT(-)	5	70	50	277	606	524	516	274	423	410	399	201
5	WEST BENGAL												
5.1	WBSEDCL												
i)	NET MIN DEMAND (OWN)	4640	4200	4280	4125	4055	4035	3710	3100	3085	3225	3610	4495
ii)	CESC's DRAWAL	0	0	0	0	0	0	0	0	0	0	0	0
iii)	TOTAL WBSEDCL's DEMAND (INCL. EXPORT)	4645	4205	4290	4135	4065	4045	3720	3110	3095	3230	3615	4500
iv)	NET POWER AVAILABILITY- OWN SOURCE	2787	2747	2812	2581	2411	2664	2659	2647	2761	2748	2872	2708
	- Import from DPL	0	0	0	0	0	0	0	0	0	0	0	0
	- Central Sector+Bi-lateral+IPP&CPP+TLDP	1765	1611	1826	2275	2254	2081	1617	1427	1435	1425	1501	1705
v)	SURPLUS(+)/DEFICIT(-) AFTER EXPORT	-93	153	348	721	600	700	556	964	1101	943	758	-87
vi)	EXPORT TO BANGLADESH & SIKKIM	5	5	10	10	10	10	10	10	10	5	5	5
5.2	DPL												
i)	NET MIN DEMAND	260	260	255	245	230	245	250	240	240	240	250	270
ii)	NET POWER AVAILABILITY	308	308	308	308	308	308	308	238	254	362	362	308
iii)	SURPLUS(+)/DEFICIT(-)	48	48	53	62	78	62	58	-2	14	123	112	37
5.3	CESC												
i)	NET MIN DEMAND	1400	1465	1400	1360	1265	1400	1340	960	740	705	805	1340
ii)	NET POWER AVAILABILITY - OWN SOURCE	675	675	675	675	675	675	675	603	603	603	603	657
	FROM/TO OTHER SOURCE EXP/IMP	301	366	301	261	166	301	241	-67	-287	-322	-222	259
	FROM HALDIA ENERGY LTD.	424	424	424	424	424	424	424	424	424	424	424	424
iii)	TOTAL AVAILABILITY	1400	1465	1400	1360	1265	1400	1340	960	740	705	805	1340
iv)	SURPLUS(+)/DEFICIT(-)	0	0	0	0	0	0	0	0	0	0	0	0
6	WEST BENGAL (WBSEDCL+DPL+CESC) (excluding DVC's supply to WBSEDCL's command area)												
i)	NET MIN DEMAND	6300	5925	5935	5730	5550	5680	5300	4300	4065	4170	4665	6105
ii)	NET POWER AVAILABILITY- Own Source	3770	3730	3795	3564	3394	3647	3642	3488	3618	3713	3837	3673
	CENTRAL SECTOR SHARE+BILETARAL+IPP/CPP+TLDP+HEL	2490	2401	2551	2960	2844	2806	2282	1784	1572	1527	1703	2388
iii)	SURPLUS(+)/DEFICIT(-) BEFORE WBSEDCL'S EXP.	-40	206	411	794	688	772	624	972	1125	1070	876	-45
	SURPLUS(+)/DEFICIT(-) AFTER WBSEDCL'S EXP.	-45	201	401	784	678	762	614	962	1115	1065	871	-50
7	SIKKIM												
i)	NET MIN DEMAND	50	50	50	50	50	50	50	50	55	55	55	55
ii)	NET POWER AVAILABILITY- Own Source	0	0	0	0	0	0	0	0	0	0	0	0
	- Central Sector	71	77	80	138	135	132	77	66	64	64	63	70
iii)	SURPLUS(+)/DEFICIT(-)	21	27	30	88	85	82	27	16	9	9	8	15
8	EASTERN REGION												
	At L03 AS DIVERSITY FACTOR												
i)	NET MIN DEMAND	14888	14563	14612	14374	14092	14326	13888	12893	12534	12592	13048	14733
ii)	BILATERAL EXPORT BY DVC	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300
iii)	EXPORT BY WBSEDCL	5	5	10	10	10	10	10	10	10	5	5	5
iv)	NET TOTAL POWER AVAILABILITY OF ER (INCLUDING C/S ALLOCATION +BILATERAL+CPP)	16401	16477	16725	17704	17556	17545	16657	15387	15463	15433	15761	16319
v)	OFF-PEAK SURPLUS(+)/DEFICIT(-) OF ER AFTER EXPORT (v = iv- i - ii - iii)	208	609	803	2020	2154	1909	1459	1184	1619	1536	1407	280

**ABSTRACT OF STATEWISE/SYSTEMWISE/CONSTITUENTWISE ENERGY REQUIREMENT- vs- AVAILABILITY
IN EASTERN REGION FOR THE PERIOD FROM APRIL-2017 TO MARCH-2018**

(ALL FIGURES IN MU & NET)

SL.NO	PARTICULARS	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	TOTAL 2017-18
1	BIHAR													
i)	NET ENERGY REQUIREMENT	2150	2200	2250	2250	2250	2250	2300	2250	2200	2200	2000	2300	26600
ii)	NET ENERGY AVAILABILITY- Own Source	178	166	181	195	204	200	242	234	242	242	220	242	2544
iii)	Central Sector+Bi-Lateral	1540	1656	1698	1808	1702	1673	1708	1441	1576	1566	1386	1583	19336
iv)	SURPLUS(+)/DEFICIT(-)	-432	-379	-371	-247	-344	-377	-351	-576	-382	-392	-395	-475	-4720
2	JHARKHAND													
i)	NET ENERGY REQUIREMENT	800	810	815	790	770	760	800	780	800	800	750	810	9485
ii)	NET ENERGY AVAILABILITY- Own Source	225	230	190	178	245	260	249	244	226	225	208	233	2714
iii)	Central Sector+Bi-Lateral	301	342	363	384	354	347	354	289	300	296	267	310	3907
iv)	SURPLUS(+)/DEFICIT(-)	-273	-238	-261	-229	-171	-153	-197	-247	-274	-279	-275	-267	-2865
3	DVC													
i)	NET ENERGY REQUIREMENT (OWN)	1656	1681	1658	1726	1634	1631	1687	1652	1712	1717	1553	1734	20041
ii)	NET ENERGY AVAILABILITY- OWN SOURCE	2622	2682	2657	2700	2690	2627	2766	2668	2698	2666	2407	2716	31898
iii)	Central Sector+MPL	317	369	391	375	339	320	377	313	316	298	283	309	4008
iv)	Bi- lateral export by DVC	936	967	936	967	967	936	967	936	967	967	874	967	11387
v)	SURPLUS(+)/DEFICIT(-) AFTER EXPORT	347	402	454	382	429	381	489	393	335	280	263	324	4478
4	ODISHA													
i)	NET ENERGY REQUIREMENT	2520	2641	2520	2567	2567	2484	2492	2412	2418	2418	2184	2492	29715
ii)	NET ENERGY AVAILABILITY- OWN+IPP+CPP	1845	1931	1790	1980	2009	2146	2024	1730	1632	1685	1573	1753	22098
iii)	Central Sector	695	753	732	781	756	760	730	611	695	693	617	714	8537
iv)	SURPLUS(+)/DEFICIT(-)	20	43	2	194	198	422	262	-71	-91	-40	6	-25	920
5	WEST BENGAL													
5.1	WBSEDCL													
i)	WBSEDCL'S OWN REQUIREMENT	3691	3557	3396	3580	3535	3423	3259	2599	2649	2912	2827	3573	39001
ii)	SUPPLY TO CESC	0	0	0	0	0	0	0	0	0	0	0	0	0
iii)	TOTAL ENERGY REQUIREMENT	3695	3561	3403	3587	3542	3430	3266	2606	2656	2916	2830	3577	39069
iv)	NET ENERGY AVAILABILITY- OWN SOURCE	2189	2238	2183	2097	1964	2077	2164	2056	2229	2198	2070	2195	25659
v)	Contribution from DPL	0	0	0	0	0	0	0	0	0	0	0	0	0
vi)	Central Sector+Bi-lateral+IPP+CPP+TLDP	1527	1420	1553	1670	1676	1585	1451	1095	1135	1121	1042	1444	16719
vii)	SURPLUS(+)/DEFICIT(-) AFTER EXPORT	21	98	333	180	98	232	349	544	707	403	282	62	3308
viii)	EXPORT (TO B'DESH & SIKKIM)	4	4	7	7	7	7	7	7	7	4	3	4	68
5.2	DPL													
i)	NET ENERGY REQUIREMENT	195	194	184	184	171	178	187	174	181	179	170	195	2192
ii)	NET ENERGY AVAILABILITY	198	194	187	193	193	187	199	158	168	181	172	198	2228
iii)	SURPLUS(+)/DEFICIT(-)	3	0	3	9	22	9	12	-16	-13	2	2	3	36
5.3	CESC													
i)	NET ENERGY REQUIREMENT	1103	1092	1089	1016	1040	1027	984	802	733	690	705	958	11239
ii)	NET ENERGY AVAILABILITY - Own Source	540	558	542	545	546	524	536	431	365	408	411	525	5931
iii)	FROM OTHER SOURCE (INCL. IPP/CPP-29-30 MU/M)	201	176	192	124	145	152	108	83	76	69	48	112	1486
iv)	FROM HEL	362	358	355	347	349	351	340	288	292	213	246	321	3822
v)	TOTAL AVAILABILITY OF CESC	1103	1092	1089	1016	1040	1027	984	802	733	690	705	958	11239
vi)	SURPLUS(+)/DEFICIT(-)	0	0	0	0	0	0	0	0	0	0	0	0	0
6	WEST BENGAL (WBSEDCL+DPL+CESC) (excluding DVC's supply to WBSEDCL's command area)													
i)	NET ENERGY REQUIREMENT	4989	4843	4669	4780	4746	4628	4430	3575	3563	3781	3702	4726	52432
ii)	NET POWER AVAILABILITY- Own Source	2927	2990	2912	2835	2703	2788	2898	2645	2761	2787	2653	2918	33818
iii)	CS SHARE+BILATERAL+IPP/CPP+TLDP+HEL	2090	1954	2100	2141	2170	2088	1899	1466	1503	1403	1336	1877	22027
iv)	SURPLUS(+)/DEFICIT(-) BEFORE WBSEDCL'S EXP	28	101	343	196	127	248	367	536	701	409	287	69	3412
v)	SURPLUS(+)/DEFICIT(-) AFTER WBSEDCL'S EXP.	24	97	336	189	120	241	360	529	694	405	284	65	3344
7	SIKKIM													
i)	NET ENERGY REQUIREMENT	34	35	32	34	33	34	35	37	38	38	35	38	423
ii)	NET POWER AVAILABILITY- Own Source	3	3	7	7	7	7	7	2	2	2	2	3	52
	- Central Sector	69	88	96	103	101	97	89	66	51	50	48	65	923
iii)	SURPLUS(+)/DEFICIT(-)	38	57	70	75	75	70	61	31	15	14	15	29	552
8	EASTERN REGION													
i)	NET ENERGY REQUIREMENT OF ER	12149	12210	11944	12147	12000	11787	11744	10706	10731	10954	10224	12100	138696
ii)	BILATERAL EXPORT BY DVC	936	967	936	967	967	936	967	936	967	967	874	967	11387
iii)	EXPORT BY WBSEDCL	4	4	7	7	7	7	7	7	7	4	3	4	68
iv)	NET TOTAL ENERGY AVAILABILITY OF ER (INCLUDING CS ALLOCATION +BILATERAL+IPP/CPP+HEL)	12813	13164	13117	13486	13280	13314	13343	11708	12001	11913	11000	12723	151862
v)	ENERGY SURPLUS(+)/DEFICIT(-) OF ER AFTER EXPORT (v = iv - i - ii - iii)	-276	-17	230	365	307	584	625	59	296	-12	-101	-348	1710