



भारत सरकार
Government of India
विद्युत मंत्रालय
Ministry of Power
पूर्वी क्षेत्रीय विद्युत समिति



Eastern Regional Power Committee
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No: ERPC/MS/LGBR/2019-20/ 985-1026

Dated the 30th April, 2019

To,

As per list enclosed

Sub: Final Load Generation Balance Report (LGBR) of Eastern Region for the year 2019-20

Sir,

Enclosed please find a copy of the final LGBR for the year 2019-20 of Eastern Region.

The LGBR has been prepared after the detailed discussions with the constituents of Eastern Region in the meeting (s) of Load-Generation Balance Report (LGBR) for the year 2019-20 held at ERPC, Kolkata on 18.12.2018, 40th TCC meeting held at Jodhpur on 15.03.2019 and 156th OCC Meeting of ERPC held at NTPC, Kahalgaon on 25.04.2019.

Following considerations have been made for preparation of the report:

- (i) Annual generation target figures for ER of the year 2019-20 which was received from CEA on 29.03.2019 have been taken into account
- (ii) **The Coordinated Annual Maintenance Programme of generating units in Eastern Region as per the deliberation(s) in the above mentioned meetings are finally agreed upon.** Subsequent to the above, the shut^{down} of major thermal units of NTPC and one unit of MPL were also rescheduled as per regional demand profile and requirement of units (Refer Annexure-I :

NTPC	BarhSTPSU#4(660MW)	10.11.19 to 28.01.20	(80 days continuous)
	BarhSTPS U#5 (660MW)	21.03.20 to 04.04.20	(15 days continuous)
	FSTPSU#5 (500 MW)	07.06.19 to 06.07.19	(30 days continuous)
	FSTPS U#1(200 MW)	17.02.20 to 22.03.20	(35 days continuous)
	FSTPS U#3(200 MW)	04.11.19 to 18.12.19	(35 days continuous)
	KhSTPSU#4(210 MW)	01.07.19 to 30.07.19	(30 days continuous)
	KhSTPS U#7(500 MW)	22.04.19 to 21.05.19	(30 days continuous)
	MTPS-II U#4(195 MW)	01.07.19 to 04.08.19	(35 days continuous)
BRBCL	Nabinagar TPS U#2(250 MW)	01.05.19 to 15.05.19	(15 days Continuous)
MPL	Unit # 2 (525 MW)	15.06.19 to 14.07.19	(30 days continuous)
- (iii) Month-wise Peak Demand (MW) and Energy Requirement (MU) of ER constituents based on past trend, expected growth and discussion with respective utilities in the LGBR meeting on 18.12.2018. (Refer - Annexure-I & Annexure-II)
- (iv) Energy availability from new thermal units which are expected to be declared commercial operation during 2019-20 have also been considered as per the generation figures received from CEA.

Yours faithfully,

(J.Bandyopadhyay)
Member Secretary

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ERPC:KOLKATA

Proposed Maintenance Schedule of Thermal Generating Units of ER during 2019-20**(as finalised in LGBR meeting dated 18.12.2018 ,40th TCC Meeting held on 15.03.2019 & 156 OCC on 25.04.19)**

System	Station	Unit	Capacity (MW)	Period		No. of Days	Reason
				From	To		
Jharkhand	TVNL, Tenughat	1	210	15.07.19	10.08.19	27	Annual Overhauling
		2	210	12.08.19	08.09.19	28	Annual Overhauling
DVC	MTPS	1	210	11.12.19	15.01.20	36	COH (Blr,Turb-RLA,Gen.)
		2	210	29.10.19	03.12.19	36	COH (Blr-RLA,Turb-RLA,Gen.)
		3	210	25.06.19	30.07.19	36	COH (Blr-RLA,Turb-RLA,Gen.)
		7	500	14.05.19	18.06.19	36	COH (Blr,Turb,Gen.)
		8	250	22.02.20	28.03.20	36	COH (Blr,Turb,Gen.)
	DSTPS	1	500	16.08.19	20.09.19	36	COH (Blr,Turb,Gen.)
	KTPS	1	500	16.01.20	19.02.20	35	COH (Blr,Turb,Gen.)
ODISHA	TTPS	1	60	01.02.20	15.02.20	15	AOH
		2	60	25.06.19	09.07.19	15	AOH
		3	60	20.07.19	03.08.19	15	AOH
		4	60	13.08.19	27.08.19	15	AOH
		5	110	09.09.19	28.09.19	20	AOH
		6	110	09.10.19	28.10.19	20	AOH
	IB TPS	1	210	11.07.19	31.07.19	21	AOH
		2	210	06.06.19	30.06.19	25	AOH
		3	660	01.12.19	25.12.19	25	AOH
		4	660				NO MAINTENANCE
WBPDCL	Kolaghat TPS	1	210	07.06.18	30.06.19	91	R&M
		2	210	01.08.19	31.03.20	122	R&M
		4	210	01.02.20	15.03.20	44	Capital Overhauling
		5	210	24.11.19	30.11.19	7	Boiler License renewal
		6	210	01.11.19	28.11.19	28	Boiler Overhauling
		1	210	16.11.19	05.12.19	20	Boiler Overhauling
	Bakreswar TPS	2	210	21.08.19	27.08.19	7	Boiler License renewal
		3	210	01.11.19	07.11.19	7	Boiler License renewal
		4	210	01.07.19	07.07.19	7	Boiler License renewal
	Bandel TPS	4	210	01.01.20	07.02.20	38	COH
		5	210	24.06.19	30.06.19	7	Boiler License renewal
		1	60	16.06.19	14.08.19	60	Capital Overhauling
		2	60	25.12.19	31.12.19	15	Boiler License renewal
		5	210	12.11.19	18.11.19	7	Boiler License renewal
	Santalidih TPS	5	250	01.11.19	05.12.19	35	Capital Overhauling
		6	250	15.09.19	21.09.19	7	Boiler License renewal
		1	300	12.07.19	15.08.19	35	Capital Overhauling
	Sagarighi TPS	2	300	01.07.19	07.07.19	7	Boiler License renewal
		3	500	01.05.19	07.05.19	7	Boiler License renewal
		4	500	20.12.19	26.12.19	7	Boiler License renewal
		1	250	10.11.19	14.11.19	4	Not Specified
CESC	BUDGE-BUDGE	2	250	16.11.19	30.11.19	15	Not Specified
		3	250	02.12.19	19.12.19	18	Not Specified
		1	60	02.01.20	05.01.20	4	Not Specified
	TITAGARH	2	60	22.02.20	07.03.20	15	Not Specified
		3	60	12.12.19	26.12.19	15	Not Specified
		4	60	27.12.19	30.12.2019	4	Not Specified
	SOUTHERN	1	67.5	01.01.20	15.01.20	15	Not Specified
		2	67.5	17.01.20	20.01.20	4	Not Specified
		1	300	21.12.19	03.02.20	45	AOH
		2	300				NO MAINTENANCE
HEL	HALDIA	7	300	17.08.19	31.08.19	15	Boiler License renewal & Maintenance of Boiler
		8	250	23.12.19	31.01.20	40	BTG OH
NTPC	FSTPP	1	200	17.02.20	22.03.20	35	Boiler (Acid Cleaning) R&M+RLA
		3	200	04.11.19	18.12.19	45	Boiler (Acid Cleaning) R&M+RLA
		5	500	07.06.19	06.07.19	30	Boiler+Gen.+ESP R&M
		6	500	01.11.19	05.12.19	35	Boiler+HPT+LPT+GEN.
	KhSTPS	2	210	10.11.19	09.12.19	30	Boiler+Gen.+ESP R&M
		4	210	01.07.19	30.07.19	30	Boiler+Gen.+ESP R&M
		5	500	06.04.19	15.04.19	10	Short Shut Down
		7	500	22.04.19	21.05.19	30	Boiler
	Barh	4	660	10.11.19	28.01.20	80	Boiler Modification
		5	660	21.03.20	04.04.20	15	Short Shut Down
	TSTPS	1	500	01.12.19	04.01.20	35	AOH
		3	500	03.09.19	27.09.19	25	AOH
		4	500	21.06.19	15.07.19	25	AOH
	KBUNL	3	195	15.11.19	20.12.19	35	LP rotor inspection,Boiler OH & Com.Modifi/NOX
BRBCL	Nabinagar TPP	4	195	01.07.19	04.08.19	35	LP rotor inspection,Boiler OH
		1	250	26.07.19	19.08.19	25	LP turbine inspection,Rotor threading,Generator inspection.
		2	250	01.05.19	15.05.19	15	Boiler and TG PG Test,Boiler License Renewal
		3	250				No planned maintenance
IPP	GMR	1	350	01.06.19	05.07.19	35	Turbine Overhauling
		2	350				No planned maintenance
		3	350				No planned maintenance
	JITPL	1	600	01.04.19	05.05.19		AOH
		2	600				No planned maintenance
	MPL	1	525	01.11.19	14.11.19	14	AOH
		2	525	15.06.19	14.07.19	30	AOH
	APNRL	1	270				No planned maintenance
		2	270				No planned maintenance

**ABSTRACT OF STATEWISE/SYSTEMWISE/CONSTITUENTWISE PEAK DEMAND- vs- AVAILABILITY
IN EASTERN REGION FOR THE PERIOD FROM APRIL-2019 TO MARCH-2020**

		(ALL FIGURES IN MW & NET)											
SL.NO	PARTICULARS	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20
1	BIHAR												
i)	NET MAX DEMAND	4850	5000	5100	5180	5130	5250	5300	4875	4800	5300	5055	5350
ii)	NET POWER AVAILABILITY- Own+KBUNL	311	316	332	517	519	520	427	412	406	422	427	419
	Central Sector+Bi-Lateral	3591	3992	3944	3892	4101	4609	4609	3948	3690	4060	4539	4366
iii)	SURPLUS(+)/DEFICIT(-)	-949	-692	-824	-771	-510	-121	-264	-515	-704	-818	-88	-565
2	JHARKHAND												
i)	NET MAX DEMAND	1410	1400	1340	1340	1380	1430	1390	1410	1440	1440	1370	1360
ii)	NET POWER AVAILABILITY- Own Source	321	341	341	305	242	346	386	341	341	341	341	341
	Central Sector+Bi-Lateral	841	865	864	932	950	972	969	818	804	873	938	926
iii)	SURPLUS(+)/DEFICIT(-)	-248	-194	-135	-104	-188	-112	-35	-251	-295	-226	-91	-93
3	DVC												
i)	NET MAX DEMAND (OWN)	3000	2980	2960	2930	2885	2820	2900	2925	3000	3135	3045	3055
ii)	NET POWER AVAILABILITY- OWN SOURCE	5475	5247	5207	5401	5358	5299	5544	5311	5348	5193	5165	5298
	- Central Sector+MPL	467	485	529	510	483	529	529	518	490	487	511	513
	BI-LATERAL EXPORT BY DVC	1675	1772	1731	1644	1416	1467	1241	1446	1684	1671	1825	1765
iii)	SURPLUS(+)/DEFICIT(-) AFTER EXPORT	1267	980	1045	1337	1540	1540	1932	1457	1154	874	806	991
4	ODISHA												
i)	NET MAX DEMAND	4445	5075	4780	4620	5075	5035	5250	4610	4975	4950	4930	5235
ii)	NET POWER AVAILABILITY- OWN+IPP+CPP	2689	3913	3589	3628	4167	4079	3736	3778	3492	3673	3690	3848
	- Central Sector	1242	1299	1247	1604	1681	1644	1683	1483	1343	1527	1665	1626
iii)	SURPLUS(+)/DEFICIT(-)	-515	136	57	613	773	689	168	650	-139	250	425	240
5	WEST BENGAL												
5.1	WBSEDCL												
i)	NET MAX DEMAND (OWN)	6875	6800	6710	7290	6910	7030	7080	5770	5795	5910	6370	7735
ii)	IPCL DEMAND	85	86	84	83	83	83	83	81	79	79	82	84
iii)	TOTAL WBSEDCL'S DEMAND (incl.B'Desh+Sikkim+IPCL)	7165	7091	7004	7583	7203	7323	7373	6061	6084	5994	6457	7824
iv)	NET POWER AVAILABILITY- Own Source	4357	4359	4333	4191	4201	4305	4679	4076	4231	4768	4598	4701
	- Import from DPL	170	155	160	160	68	165	185	195	139	9	185	175
	- Central Sector+Bi-lateral+IPP&CPP+TLDP+IPCL	2409	2408	2408	2570	2639	2505	2619	2115	2177	2294	2416	2503
v)	EXPORT (TO B'DESH & SIKKIM)	205	205	210	210	210	210	210	210	210	5	5	5
vi)	SURPLUS(+)/DEFICIT(-) AFTER EXPORT	-229	-170	-103	-662	-295	-348	110	325	464	1077	742	-445
5.2	DPL												
i)	NET MAX DEMAND	295	310	305	305	295	300	280	270	275	280	280	290
ii)	NET POWER AVAILABILITY	465	465	465	465	363	465	465	465	414	289	465	465
iii)	SURPLUS(+)/DEFICIT(-)	170	155	160	160	68	165	185	195	139	9	185	175
5.3	CESC												
i)	NET MAX DEMAND	2100	2250	2260	1850	1900	2050	2030	1700	1520	1450	1680	1850
ii)	NET POWER AVAILABILITY - OWN SOURCE	750	750	750	750	750	750	750	700	460	700	700	750
	IMPORT FROM OTHER SOURCE	810	960	970	560	610	760	740	460	520	482	440	560
	IMPORT FROM HALDIA ENERGY LTD.	540	540	540	540	540	540	540	540	540	268	540	540
iii)	TOTAL AVAILABILITY	2100	2250	2260	1850	1900	2050	2030	1700	1520	1450	1680	1850
iv)	SURPLUS(+)/DEFICIT(-)	0	0	0	0	0	0	0	0	0	0	0	0
6	WEST BENGAL (WBSEDCL+DPL+CESC+IPCL) (excluding DVC's supply to WBSEDCL's command area)												
i)	NET MAX DEMAND OWN (Excl. Export)	9355	9446	9359	9528	9188	9463	9473	7821	7669	7719	8412	9959
ii)	NET POWER AVAILABILITY- Own Source	5572	5574	5548	5406	5314	5520	5894	5241	5105	5757	5763	5916
iii)	CS SHARE+BILETARAL+IPP/PPP+TLDP+HEL	3759	3908	3918	3670	3789	3805	3899	3115	3237	3044	3396	3603
iv)	SURPLUS(+)/DEFICIT(-) BEFORE WBSEDCL'S EXP.	-24	35	107	-452	-85	-138	320	535	674	1082	747	-440
v)	SURPLUS(+)/DEFICIT(-) AFTER WBSEDCL'S EXP.	-229	-170	-103	-662	-295	-348	110	325	464	1077	742	-445
7	SIKKIM												
i)	NET MAX DEMAND	100	100	95	90	95	95	105	125	125	125	120	110
ii)	NET POWER AVAILABILITY- Own Source	8	8	8	8	8	8	8	4	2	2	2	2
	- Central Sector	160	163	158	171	176	179	179	168	130	143	175	174
iii)	SURPLUS(+)/DEFICIT(-)	68	72	71	89	89	92	82	47	7	20	58	66
8	EASTERN REGION												
	At 1.02 AS DIVERSITY FACTOR												
i)	NET MAX DEMAND	22706	23530	23170	23224	23287	23621	23939	21340	21577	22224	22481	24577
ii)	BI-LATERAL EXPORT BY DVC	1675	1772	1731	1644	1416	1467	1241	1446	1684	1671	1825	1765
iii)	EXPORT BY WBSEDCL	205	-170	-103	-662	-295	-348	110	325	464	1077	742	-445
iv)	NET TOTAL POWER AVAILABILITY OF ER (INCLUDING CS ALLOCATION +BILATERAL+PPP+HEL)	24436	26111	25686	26044	26787	27510	27863	25136	24389	25523	26612	27032
v)	PEAK SURPLUS(+)/DEFICIT(-) OF ER AFTER EXPORT (v = iv - i - ii - iii)	-150	978	887	1839	2379	2770	2572	2025	664	551	1563	1135

**ABSTRACT OF STATEWISE/SYSTEMWISE/CONSTITUENTWISE ENERGY REQUIREMENT- vs- AVAILABILITY
IN EASTERN REGION FOR THE PERIOD FROM APRIL-2019 TO MARCH-2020**

(ALL FIGURES IN MU & NET)														
SL.NO	PARTICULARS	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	TOTAL 2019-20
1	BIHAR													
i)	NET ENERGY REQUIREMENT	2600	2800	2880	2950	3050	2985	2850	2350	2500	2810	2380	2860	33015
ii)	NET ENERGY AVAILABILITY- Own	131	136	138	354	355	342	348	334	342	343	329	343	3496
iii)	Central Sector+Bi-Lateral	2133	2345	2276	2433	2532	2511	2485	1905	1777	1984	2136	2180	26696
iv)	SURPLUS(+)/DEFICIT(-)	-336	-319	-466	-163	-163	-133	-16	-111	-381	-484	85	-337	-2824
2	JHARKHAND													
i)	NET ENERGY REQUIREMENT	810	825	820	825	810	800	810	800	810	820	770	830	9730
ii)	NET ENERGY AVAILABILITY- Own Source	169	173	163	116	104	163	179	160	165	163	153	162	1869
iii)	Central Sector+Bi-Lateral+IPP	476	515	509	573	584	567	552	412	421	457	445	477	5989
iv)	SURPLUS(+)/DEFICIT(-)	-165	-136	-149	-135	-122	-70	-79	-228	-224	-200	-172	-191	-1872
3	DVC													
i)	NET ENERGY REQUIREMENT (OWN)	1880	1960	1915	1970	1890	1785	1875	1870	1885	1890	1710	1890	22520
ii)	NET ENERGY AVAILABILITY- OWN SOURCE	3165	3358	2806	2780	2819	2827	3071	2868	2980	2861	2606	3022	35163
iii)	Central Sector+MPL+KBUNL	223	253	286	326	314	323	301	238	223	216	198	220	3120
iv)	Bi- lateral export by DVC	1206	1318	1246	1223	1053	1056	923	1041	1253	1243	1227	1313	14102
v)	SURPLUS(+)/DEFICIT(-) AFTER EXPORT	302	333	-69	-86	190	309	574	195	64	-57	-133	38	1661
4	ODISHA													
i)	NET ENERGY REQUIREMENT	2660	2944.8	2905	2684.68	3225.2	2989.6	3285.3	2834.6	2529.6	2705	2500	2910	34174
ii)	NET ENERGY AVAILABILITY- OWN+IPP+CPP	1485	1922	1521	1831	2093	1957	1834	1651	1378	1533	1446	1681	20331
iii)	Central Sector+KBUNL	724	808	768	906	946	895	908	708	642	755	776	806	9641
iv)	SURPLUS(+)/DEFICIT(-)	-451	-215	-616	53	-187	-138	-544	-476	-510	-417	-278	-423	-4202
5	WEST BENGAL													
5.1	WBSEDCL													
i)	WBSEDCL'S OWN REQUIREMENT	3630	3678	3837	3992	4102	3896	3481	2744	2704	2940	2963	3873	41840
ii)	SUPPLY TO IPCL	61	64	60	62	62	60	62	58	59	59	57	62	726
iii)	TOTAL WBSEDCL's Energy Requirement (incl.B'Desh+Sikkim+IPCL)	3839	3895	4048	4210	4320	4107	3699	2953	2919	3003	3023	3939	43955
iv)	NET ENERGY AVAILABILITY- OWN SOURCE	2079	2118	2007	1878	1907	1960	2031	1591	1913	1858	1732	1942	23016
v)	Contribution from DPL	37	32	12	-3	-53	13	25	28	-7	-81	15	17	35
vi)	Central Sector+Bi-lateral+IPP&CPP+TLDP	1250	1415	1445	1772	1803	1648	1594	1130	1148	1176	1090	1195	16667
vii)	EXPORT (TO B'DESH & SIKKIM)	148	153	151	156	156	151	156	151	156	4	3	4	1389
viii)	SURPLUS(+)/DEFICIT(-) AFTER EXPORT	-473	-330	-584	-564	-663	-486	-49	-203	136	-51	-186	-786	-4237
5.2	DPL													
i)	NET ENERGY REQUIREMENT	200	210	210	210	212	205	200	190	195	195	190	205	2422
ii)	NET ENERGY AVAILABILITY	237	242	222	207	159	218	225	218	188	114	205	222	2457
iii)	SURPLUS(+)/DEFICIT(-)	37	32	12	-3	-53	13	25	28	-7	-81	15	17	35
5.3	CESC													
i)	NET ENERGY REQUIREMENT	980	1103	1105	1070	1060	1080	985	775	713	703	720	972	11266
ii)	NET ENERGY AVAILABILITY - Own Source	498	536	525	510	508	507	499	364	363	452	420	483	5665
iii)	FROM OTHER SOURCE (INCL. IPP/CPP-29-30 MU/M)	115	176	197	172	166	194	118	100	92	96	50	125	1601
iv)	FROM HEL	367	391	383	388	386	379	368	311	258	155	250	364	4000
v)	TOTAL AVAILABILITY OF CESC	980	1103	1105	1070	1060	1080	985	775	713	703	720	972	11266
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	4871	5055	5212	5334	5436	5241	4728	3767	3671	3897	3930	5112	56254
ii)	NET POWER AVAILABILITY- Own Source	2814	2896	2754	2595	2575	2685	2755	2174	2465	2423	2357	2647	31138
iii)	CS SHARE+BILATERAL+IPP/CPP+TLDP+HEL	1732	1982	2025	2332	2355	2221	2080	1541	1498	1427	1390	1684	22268
iv)	SURPLUS(+)/DEFICIT(-) BEFORE WBSEDCL'S EXP.	-325	-177	-433	-408	-507	-335	107	-52	292	-47	-183	-782	-2848
v)	SURPLUS(+)/DEFICIT(-) AFTER WBSEDCL'S EXP.	-473	-330	-584	-564	-663	-486	-49	-203	136	-51	-186	-786	-4237
7	SIKKIM													
i)	NET ENERGY REQUIREMENT	50	45	45	46	44	44	48	61	61	62	63	56	624
ii)	NET POWER AVAILABILITY- Own Source	3	3	3	3	3	3	3	1	1	1	1	2	27
	- Central Sector+KBUNL	79	95	99	111	114	112	102	72	58	62	63	70	1038
iii)	SURPLUS(+)/DEFICIT(-)	32	53	57	68	73	71	57	13	-1	2	1	16	441
8	EASTERN REGION													
i)	NET ENERGY REQUIREMENT OF ER	12870	13630	13777	13810	14456	13844	13596	11682	11456	12184	11353	13658	156316
ii)	BILATERAL EXPORT BY DVC	1206	1318	1246	1223	1053	1056	923	1041	1253	1243	1227	1313	14102
iii)	EXPORT BY WBSEDCL	148	153	151	156	156	151	156	151	156	4	3	4	1389
iv)	NET TOTAL ENERGY AVAILABILITY OF ER (INCLUDING CS ALLOCATION +BILATERAL+IPP/CPP+HEL)	13133	14487	13348	14362	14792	14605	14619	12064	11949	12225	11900	13292	160775
v)	ENERGY SURPLUS(+)/DEFICIT(-) OF ER AFTER EXPORT (v = iv - i -ii - iii)	-1091	-614	-1826	-827	-873	-446	-56	-810	-916	-1206	-683	-1684	-11032