



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/2021-22/6986-7039

Dated the 23rd December, 2020

From: Member Secretary, ERPC, Kolkata

To: As per list enclosed

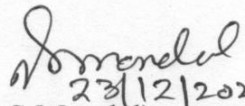
Sub: Draft Load Generation Balance Report (LGBR) for the year 2021-22 of Eastern Region

Sir,

Enclosed please find the minutes of draft LGBR of Eastern Region for the year 2021-22 held on 18.12.2020 through Webinar. The LGBR has been prepared after the detailed discussion with the constituents of Eastern Region in the meeting on finalization of draft Load-Generation Balance Report (LGBR) for the year 2021-22.

The following considerations have been made for preparation of the report:

- (i) Coordinated Annual Maintenance Programme of thermal generating units in Eastern Region as per the deliberation in the LGBR meeting held on 18.12.2020.
- (ii) 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 18.12.2020.
- (iii) Energy availability from new thermal units which are expected to be declared commercial operation during 2021-22 have also been considered as per the figures received from the constituents.
- (iv) The final LGBR of Eastern Region for the year 2021-22 will be published after the receipt of Annual generation target from CEA/MoP.


23/12/2020
(N.S.Mondal)
Member Secretary

LIST OF ADDRESSES:

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25. PLANT HEAD, MTPS-II, NTPC, MUZAFFARPUR, BIHAR.
26. PLANT HEAD, BRBCL, NTPC, NABI NAGAR, BIHAR
27. PLANT HEAD, NPGC, NTPC, SHIVANPUR, AURANGABAD, BIHAR
28. PLANT HEAD, DARLIPALI STPS, NTPC, ODISHA
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46. PLANT HEAD, JORTHAN HPS, SIKKIM
47. PLANT HEAD, DIKCHU HPS, SIKKIM
48. PLANT HEAD, CHUZACHEN HPS, SIKKIM
49. PLANT HEAD, TASHIDING HPS, SIKKIM
50. HEAD CONSTRUCTION, EAST – NORTH INTERCONNECTION COMPANY LIMITED (ENICL), C/O GANGADHAR MEMORIAL EDUCATION SOCIETY, GANGADHAR SADAN, 2ND FLOOR, BEHIND SPENCER PLAZA, BURDWAN ROAD, SILIGURI - 734005.
51. PROJECT DIRECTOR (AM / O&M), ODISHA GENERATION PHASE – II TRANSMISSION LIMITED (OGPTL), TULIP – 634, NEW MINAL RESIDENCY, J.K. ROAD, NEAR AYODHA BYPASS, BHOPAL – 462023, MADHYA PRADESH.
52. HEAD (AM / O&M), PURULIA & KHARAGPUR TRANSMISSION COMPANY LIMITED (PKTCL), TULIP – 634, NEW MINAL RESIDENCY, J.K. ROAD, NEAR AYODHA BYPASS, BHOPAL – 462023, MADHYA PRADESH.
53. CHIEF EXECUTIVE OFFICER, CROSS BORDER POWER TRANSMISSION COMPANY LIMITED (CPTC), FIRST FLOOR, CORPORATE OFFICE TOWER AMBIENCE MALL COMPLEX, AMBIENCE ISLAND, NH – 8, GURGAON, HARYANA – 122001.
54. THE EXECUTIVE DIRECTOR & CEO, POWERLINKS TRANSMISSION LIMITED, 10TH FLOOR, DLF TOWER – A, DISTRICT CENTRE – JASOLA, NEW DELHI – 110025.

ERPC :: Kolkata

Minutes of the Meeting on LGBR 2021-22 of ER held at ERPC on 18.12.2020.

The meeting was convened through MS Team Online Platform.

The list of Participants is enclosed at **Annexure -I**.

SE (Operation), ERPC welcomed the participants present on webinar and requested Member Secretary, ERPC to give his opening remarks. Member Secretary, ERPC welcomed the participants in the meeting. In his opening remarks, he mentioned that preparation of LGBR for the coming year (2021-22) is an important planning process in which entire operational performance is dependent so as to match the generation availability in the country with respect to growing load/ demand. He also mentioned that due to COVID-19 most of the generating units are unable to avail scheduled maintenance as finalised in the LGBR meeting for the year 2020-21. However he requested constituents to avail the scheduled maintenance of remaining units in the month of December, January and February-2021 being lean demand month so that maintenance of generating units for the year 2020-21 need not be deferred /spilled over to the year 2021-22. He also requested constituents to adhere to scheduled maintenance of generating units as finalised in LGBR meeting for the coming year 2021-22 .Any deviation of actual drawl / generation against their final schedule which would attract penalty under DSM, hence unnecessary burden to the customer should be avoided. Constituents also raised concerns for any deferment of scheduled maintenance of thermal units particularly from Central Sector.This forced them to absorb high cost of power from IEX, STOA etc. Therefore, final maintenance schedule as agreed upon should be strictly adhered to. He also requested all the Transmission licensee in the state and central sector of ER to submit maintenance schedules of their respective transmission elements for the year 2021-22 by 30.12.2020.

He thereafter, requested Shri S.M. Jha, Consultant, ERPC to take up the agenda points for discussions:

Shri S.M. Jha thanked the constituents for providing the necessary data for the preparation of draft LGBR 2021-22.

Item No.1 DETAILS OF PROPOSED UNITWISE MAINTENANCE PROGRAMME OF THERMAL GENERATING UNITS IN ER

The proposals of thermal units maintenances plan as received from the constituents indicated in the agenda at **Annexure – II** was taken up for deliberation. On analysis of the proposal of the constituents, the scheduled maintenance programmes were generally found to be in order with respect to Eastern Region demand profiles. Minimum planned maintenance of thermal units should be allowed during April, 2021 to October, 2021 i.e. high demand period and maximum planned maintenance of thermal units should be availed during November, 2021 to February, 2021 i.e. low demand period.

However, ERPC Secretariat was of the view that April , May & June and pre puja days in August/September would be normally higher demand period in ER, the maintenance schedule of following units may be considered for deferment possibly during lean demand period i.e. during November to February, wherever possible. On the request of WBSEDCL and other constituents, FSTPS agreed to prepone U#6 (500 MW) by 27 days, U#5 (500 MW) by 9 days and TSTPS U#1 (500 MW) deferred in the month of Dec-21 to Jan-22. After detailed deliberation, the following units schedule maintenance programmes were revised:

S N	Station / Unit / System	Schedule maintenance programme as requested by the Constituents	Agreed Schedule maintenance programme in the meeting
1	Farakka STPS U#5 (500 MW) of NTPC	09.02.22 to 25.03.22(45days)	01.02.22 to 17.03.22(45days)
2	Farakka STPS U#6 (500 MW) of NTPC	29.07.21 to 06.09.21(40days)	01.07.21 to 09.08.21(40days)
3	Talcher STPS U#1 (500 MW) of NTPC	25.07.21 to 28.08.21(35days)	10.12.21 to 13.01.22(35days)
4	Darlipali STPS U#1 (800 MW) of NTPC	03.04.21 to 14.04.21(12days)	01.07.21 to 12.07.21(12days)

5	Darlipali STPS U#1 (800 MW) of NTPC	01.03.22 to 30.04.22(61days)	01.07.22 to 30.08.22(61days)
6	Nabinagar STPS U#1 (660 MW) of NTPC	01.10.21 to 31.12.21(92days)	17.10.21 to 16.01.22(92days)
7	Mejia TPS U#1 (210 MW) of DVC	01.04.21 to 11.05.21(40days)	01.11.21 to 10.12.21(40days)
8.	KhSTPS U#3(210 MW) of NTPC	01.07.21 to 30.07.21(30days)	15.07.21 to 13.08.21(30 days)
9.	KhSTPS U#4(210 MW) of NTPC	01.09.21 to 30.09.21(30days)	15.09.21 to 14.10.21(30 days)

Item No.2 ABSTRACT OF SYSTEMWISE UNRESTRICTED PEAK&OFF-PEAK DEMAND (MW)

The month wise unrestricted demand (MW) as received from the constituents and also considering the actual demand which is being met during the current months, previous year were analysed and corrected during the meeting. Based on the demand forecast of the constituents and projected demand, the cumulative regional demand varies in the range of 20165 MW to 25120 MW. The regional monthly peak surplus considering export of power to neighbouring countries worked out to be in the range of (+) 1200 MW to 5620 MW on account of expected addition of thermal generation of 3280 MW during 2021-22. However, Jharkhand state remained peak deficit on monthly basis throughout the year considering their present availability from all source.

The anticipated month wise Peak and Off-Peak demand (MW) against Availability (MW) of the constituents are shown at **Annexure – III & Annexure-IV**.

Item No. 3 ABSTRACT OF SYSTEMWISE UNRESTRICTED ENERGY REQUIREMENT (MU)

The expected monthly energy requirement (MU) of the constituents against energy availability indicated that there would be short fall in Bihar state up to October-21, Jharkhand state throughout the year and DVC except Sep-21 & Oct-21 will remain shortfall throughout the year, whereas rest of the constituents would meet their energy requirement and also there would be surplus of energy. Eastern Region would be in surplus on monthly basis from July-21 onwards. The energy availability from the new units of NTPC stations have also been considered. The energy availability would vary in between 14000 MU to 17180 MU on monthly basis considering monthly scheduled maintenance of generating units. The anticipated month-wise Energy Requirement (MU) against Availability (MU) of the constituents are shown at **Annexure-V**.

Item No. 4 SCHEDULE OF COMMISSIONING OF NEW GENERATING UNITS IN THE CONSTITUENT SYSTEMS

The following units are expected to commission during 2021-22 and their energy availability (MU) have been taken into consideration as agreed by the constituents:

System	Units	Capacity (MW)	Expected date of commercial operation
BIHAR	Barauni TPS U#9	250	01.08.2021
NTPC	Barh STPS Stg-I U#1	660	01.04.2021
	Barh STPS Stg-I U#2	660	01.02.2022
	Darlipali STPS U#2	800	01.07.2021
NPGC	Nabinagar STPS U #2	660	01.04.2021
BRBCL	Nabinagar TPS U #4	250	01.04.2021
TOTAL		3280	

The final LGBR of ER would be subsequently prepared and published on receipt of Annual Generation Target from CEA/MOP.

The meeting ended with vote of thanks to the chair.

Annexure-I**List of Participants of Load Generation Balance Report (LGBR) Meeting for the year 2021-22 held through Webinar on 18.12.2020 at 11:00 Hrs.**

Sl.	Name	Designation	Organisation
1	N. S. Mondal	Member Secretary	ERPC
2	D K Bauri	SE (Operation)	ERPC
3	J. G. Rao	EE (Operation)	ERPC
4	P. P. Jena	AEE	ERPC
5	S. M. Jha	Consultant	ERPC
6	Sanatan Sarvesh	AEE	ERPC
7	Kumar Satyam	AE	ERPC
8	Abhinav Basu	AEE	BSPTCL
9	Rajdeep Bhattacharjee	Regional Engineer	BSPHCL, Kolkata
10	Biplab Chaterjee		Tata Power
11	Partha Gosh	Chief Manager	POWERGRID
12	R. Biswas		
13	Piyush Pradhan		OPGC
14	Gagan K Mishra		
15	S K Mishra		NTPC
16	Saurabh Kumar		BRBCL
17	Sanjay Kumar Sharma		DVC
18	Tushar Ranjan Mohapatra	Manager	ERLDC, POSOCO
19	Anupam Kumar		
20	Sanjeev Kumar		
21	Bans Narain Yadav		
22	Manoj Thakur		
23	Pawan Kumar Tomar		
24	Prakash Kumar Gupta		WBPDC
25	Soumya Mukherjee		
26	Preetam Banarjee		
27	Biresh Kumar		
28	Yogesh Singla	DGM	KBUNL, Bihar
29	Sujit Kumar Moharana		
30	Smita		SLDC, Odisha
31	A Bhuin		ERLDC, POSOCO
32	Gagan Kumar		SLDC, BSPTCL
33	Nurul Hoda		TVNL, Jharkhand

ERPC:KOLKATA

**Maintenance Schedule of Thermal Generating Units of ER during 2021-22
As finalised in LGBR meeting for the year 2021-22 of ERPC held on 18.12.2020**

System	Station	Unit	Capacity (MW)	Period		No. of Days	Reason	
				From	To			
BSPHCL	NTPC BTPS Stg-II	8	250	01.03.2022	25.03.2022	25	Boiler+LPT+Generator Overhauling	
TVNL	Tenughat TPS	1	210	10.07.2021	31.07.2021	22	R&M + Overhauling	
		2	210	10.08.2021	31.08.2021	22	R&M + Overhauling	
DVC	Mejia TPS	1	210	01.11.2021	10.12.2021	40	COH-Boiler, Turbine-RLA, Generator	
	Mejia TPS	3	210	20.11.2021	12.12.2021	22	BOH	
	Mejia TPS	7	500	20.07.2021	24.08.2021	35	BOH-License Renewal, De-Nox	
	Chandrapura TPS	7	250	01.09.2021	23.09.2021	23	BOH	
	DSTPS	1	500	28.09.2021	02.11.2021	35	BOH+FGD+De-Nox Burner	
	Koderma TPS	1	500	26.11.2021	31.12.2021	35	BOH+FGD+De-Nox Burner	
	Koderma TPS	2	500	15.05.2021	19.06.2021	35	BOH+FGD+De-Nox Burner	
ODISHA	TTPS	1	60	07.09.2021	26.09.2021	20	AOH	
		2	60	01.10.2021	30.10.2021	30	AOH	
		3	60	04.11.2021	28.11.2021	25	AOH	
		4	60	01.12.2021	20.12.2021	20	AOH	
		5	110	10.01.2022	29.01.2022	30	AOH	
		6	110	07.03.2022	31.03.2022	25	AOH	
	IB TPS	1	210	01.04.2021	24.04.2021	24	AOH	
		2	210	01.08.2021	30.08.2021	30	AOH	
		3	660	01.06.2021	25.06.2021	25	AOH	
		4	660	01.08.2021	25.08.2021	25	AOH	
	WBPDC	Kolaghat TPS	1	210	07.06.2018	30.06.2021	1120	R&M in PROGRESS
			2	210	11.07.2020	31.03.2022	629	R&M in PROGRESS
			3	210	15.01.2022	24.01.2022	10	PG Test
			4	210	10.06.2021	19.06.2021	10	Boiler Inspection
5			210	01.02.2022	09.02.2022	9	PG Test	
6			210	02.08.2021	26.08.2021	25	AOH/BOH	
Bakreswar TPS		1	210	01.11.2021	25.11.2021	25	AOH/BOH	
		2	210	10.02.2022	19.02.2022	10	PG Test	
		3	210	28.11.2021	07.12.2021	10	PG Test	
		4	210	06.08.2021	30.08.2021	25	AOH/BOH	
		5	210	01.06.2021	05.07.2021	35	COH	
Bandel TPS		2	60	05.01.2022	14.01.2022	10	PG Test	
		5	215	10.12.2021	19.12.2021	10	PG Test	
Santalidih TPS		5	250	20.12.2021	13.01.2022	25	AOH/Boiler Overhauling	
		6	250	11.09.2021	20.09.2021	10	PG Test	
Sagarighi TPS		1	300	01.09.2021	05.10.2021	35	COH	
		2	300	01.08.2021	10.08.2021	10	PG Test	
		3	500	21.01.2022	14.02.2022	25	AOH/Boiler Overhauling	
		4	500	10.11.2021	19.11.2021	10	PG Test	
CESC		BUDGE-BUDGE	1	250	20.11.2021	26.11.2021	7	Boiler Certification
	2		250	28.11.2021	12.12.2021	15	Boiler Overhauling	
	3		250	14.12.2021	20.12.2021	7	Minor works	
	TITAGARH	1	60	02.01.2022	05.01.2022	4		
		2	60	07.01.2022	21.01.2022	15		
		3	60	11.12.2021	25.12.2021	15		
		4	60	27.12.2021	30.12.2021	4		
	SOUTHERN	1	67.5	06.08.2021	20.08.2021	15	Boiler Overhauling	
		2	67.5	22.08.2021	31.08.2021	10	Boiler Overhauling	
HEL	HALDIA	1	300	03.01.2022	16.02.2022	45	Boiler+ Turbine	
		2	300	21.02.2022	25.02.2022	5	Minor works	
DPL	DPPS	7	300	01.08.2021	31.08.2021	31	Annual Overhauling	
		8	250	01.12.2021	15.01.2022	46	Annual Overhauling	
NTPC	FSTPP	3	200	09.11.2021	08.12.2021	30	Boiler + FGD Works	
		5	500	01.02.2022	17.03.2022	45	Boiler + FGD + Turbine	
		6	500	01.07.2021	09.08.2021	40	Boiler+FGD+Nox	
	KhSTPS	3	210	15.07.2021	13.08.2021	30	Boiler	
		4	210	15.09.2021	14.10.2021	30	Boiler	
		5	500	06.04.2021	20.05.2021	45	Boiler+Turbine+Combustion Modification	
		7	500	15.11.2021	29.12.2021	45	Boiler+Turbine+Generator+Combustion Modification	
	Barh	4	660	14.02.2022	30.03.2022	45	Boiler+HPT Repl.+IPT+LPT	
		5	660	01.02.2021	21.04.2021	80	Boiler Modification + HPT Repl.	
	TSTPS	1	500	10.12.2021	13.01.2022	35	Overhauling	
		3	500	08.09.2021	07.10.21	30	Overhauling	
		4	500	01.06.2021	15.07.2021	45	Overhauling	
		Darlipalli STPS	1	800	01.07.2021	12.07.2021	12	TG PG Test
	Darlipalli STPS	1	800	01.07.2022	30.08.2022	61	Overhauling	
	KBUNL	3	195	01.07.2021	05.08.2021	35	LPT+Boiler OH+Boiler License renew+Combustion Modification	
BRBCL	Nabinagar TPS	1	250	25.07.2021	08.09.2021	45	Overhauling	
NPGL	Nabinagar STPS	1	660	17.10.2021	16.01.2022	92	Annual Overhauling + Boiler Modification	
IPP	GMR	1	350	01.06.2021	15.07.2021	45	Turbine Overhauling	
	JITPL	1	600	01.08.2021	30.09.2021	61	COH	
		2	600	01.12.2021	10.12.2021	10	Short maintenance	
	MPL	2	525	02.12.2021	15.01.2022	45	COH	
	APNRL	1	270	05.04.2021	21.05.2021	47	AOH + COH	

**ABSTRACT OF STATEWISE/SYSTEMWISE/CONSTITUENTWISE PEAK DEMAND- vs- AVAILABILITY
IN EASTERN REGION FOR THE PERIOD FROM APRIL-2021 TO MARCH-2022**

(ALL FIGURES IN MW & NET)

SL.NO	PARTICULARS	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22
1	BIHAR												
i)	NET MAX DEMAND	5690	6075	6300	6350	6400	6475	6000	5000	5220	5150	5150	5500
ii)	NET POWER AVAILABILITY- Own+KBUNL	522	537	525	523	690	678	685	681	680	688	696	570
	Central Sector+Bi-Lateral+MTOA	5517	5918	5924	5789	6030	6123	5825	5626	5450	5867	6226	6240
iii)	SURPLUS(+)/DEFICIT(-)	349	380	149	-38	319	326	509	1306	910	1405	1771	1311
2	JHARKHAND												
i)	NET MAX DEMAND	1670	1690	1700	1670	1660	1760	1770	1775	1810	1830	1850	1860
ii)	NET POWER AVAILABILITY- Own Source	314	389	389	292	292	404	404	359	359	359	359	359
	Central Sector+Bi-Lateral+CPP	1071	1107	1108	1066	1161	1182	1172	1078	1039	1069	1076	1064
iii)	SURPLUS(+)/DEFICIT(-)	-285	-194	-203	-312	-206	-174	-194	-338	-412	-402	-415	-437
3	DVC												
i)	NET MAX DEMAND (OWN)	3115	3160	3200	3225	3100	3125	3035	3040	3060	3210	3140	3160
ii)	NET POWER AVAILABILITY- OWN SOURCE	5006	5169	5227	5408	5257	5371	5169	5159	4967	5475	5475	5475
	- Central Sector+MPL	221	230	237	232	236	235	235	207	179	186	187	186
	BI-LATERAL EXPORT BY DVC	2175	2199	2258	2213	1998	1751	1534	2078	2152	2280	2515	2424
iii)	SURPLUS(+)/DEFICIT(-) AFTER EXPORT	-63	41	5	203	395	729	835	248	-66	171	7	77
4	ODISHA												
i)	NET MAX DEMAND	4400	4450	4500	4500	4500	4400	4400	4200	3850	3800	3950	4350
ii)	NET POWER AVAILABILITY- OWN+IPP+CPP	4052	4199	3489	4060	3857	4406	4247	3892	3811	3748	3954	4039
	- Central Sector	1533	1556	1518	1697	1958	1944	1971	1958	1847	1906	1912	1937
iii)	SURPLUS(+)/DEFICIT(-)	1185	1305	507	1257	1315	1950	1818	1649	1808	1853	1916	1625
5	WEST BENGAL												
5.1	WBSIEDCL												
i)	NET MAX DEMAND (OWN)	7225	7425	7495	7600	7410	7440	6900	5495	4970	5190	5230	7460
ii)	IPCL DEMAND	130	130	130	130	130	130	130	130	130	130	130	130
iii)	TOTAL WBSIEDCL'S DEMAND (incl. +Sikkim+IPCL)	7360	7560	7635	7740	7550	7580	7040	5635	5110	5325	5365	7595
iv)	NET POWER AVAILABILITY- Own Source	4674	4684	4457	4876	4544	4661	4858	4265	4442	4301	4506	4845
	Contribution from DPL	450	450	450	450	205	450	450	450	246	332	450	450
	- Central Sector+Bi-lateral+IPP+CPP+TLDP+IPCL	2632	2601	2637	2528	2660	2688	2759	2402	2313	2339	2264	2350
v)	EXPORT (SIKKIM)	5	5	10	10	10	10	10	10	10	5	5	5
vi)	SURPLUS(+)/DEFICIT(-) AFTER EXPORT	396	175	-91	113	-141	219	1028	1482	1891	1648	1855	50
5.2	CESC												
i)	NET MAX DEMAND	2050	2250	2280	2050	1900	1920	1920	1720	1400	1350	1550	1750
ii)	NET POWER AVAILABILITY - OWN SOURCE	770	770	770	770	770	770	770	690	450	770	770	770
	IMPORT FROM OTHER SOURCE	740	940	970	740	590	610	610	490	410	310	510	440
	IMPORT FROM HALDIA ENERGY LTD.	540	540	540	540	540	540	540	540	540	270	270	540
iii)	TOTAL AVAILABILITY	2050	2250	2280	2050	1900	1920	1920	1720	1400	1350	1550	1750
iv)	SURPLUS(+)/DEFICIT(-)	0	0	0	0	0	0	0	0	0	0	0	0
6	WEST BENGAL (WBSIEDCL+DPL+CESC+IPCL) (excluding DVC's supply to WBSIEDCL's command area)												
i)	NET MAX DEMAND OWN (Excl. Export)	9405	9805	9905	9780	9440	9490	8950	7345	6500	6670	6910	9340
ii)	NET POWER AVAILABILITY- Own Source	5894	5904	5677	6096	5519	5881	6078	5405	5138	5403	5726	6065
iii)	CS SHARE+BILATERAL+IPP/PP+TLDP+HEL	3912	4081	4147	3808	3790	3838	3909	3432	3263	2919	3044	3330
iv)	SURPLUS(+)/DEFICIT(-) BEFORE WBSIEDCL'S EXP.	401	180	-81	123	-131	229	1038	1492	1901	1653	1860	55
v)	SURPLUS(+)/DEFICIT(-) AFTER WBSIEDCL'S EXP.	396	175	-91	113	-141	219	1028	1482	1891	1648	1855	50
7	SIKKIM												
i)	NET MAX DEMAND	107	107	102	97	102	102	113	130	130	130	124	115
ii)	NET POWER AVAILABILITY- Own Source	8	8	8	8	8	8	8	4	2	2	2	2
	- Central Sector	182	188	188	194	200	200	198	195	186	193	198	198
iii)	SURPLUS(+)/DEFICIT(-)	83	89	95	105	106	106	94	69	58	65	75	85
8	EASTERN REGION												
	At L02 AS DIVERSITY FACTOR												
i)	NET MAX DEMAND	23909	24790	24958	25120	24708	24855	23791	21069	20167	20382	20710	23848
ii)	BI-LATERAL EXPORT BY DVC	2175	2199	2258	2213	1998	1751	1534	2078	2152	2280	2515	2424
iii)	EXPORT BY WBSIEDCL TO SIKKIM	5	5	10	10	10	10	10	10	10	5	5	5
iv)	EXPORT to B'DESH & NEPAL OTHER THAN DVC												
v)	NET TOTAL POWER AVAILABILITY OF ER (INCLUDING CS ALLOCATION +BILATERAL+CPP+HEL)	28232	29286	28436	29173	28998	30270	29902	27994	26921	27814	28854	29466
vi)	PEAK SURPLUS(+)/DEFICIT(-) OF ER AFTER EXPORT (v = iv - i - ii - iii)	2143	2292	1211	1830	2282	3653	4566	4837	4593	5147	5624	3189

**ABSTRACT OF STATEWISE/SYSTEMWISE/CONSTITUENTWISE OFF PEAK DEMAND- vs- AVAILABILITY
IN EASTERN REGION FOR THE PERIOD FROM APRIL-2021 TO MARCH-2022**

(ALL FIGURES IN MW & NET)

SL.NO	PARTICULARS	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22
1	BIHAR												
i)	NET OFF PEAK DEMAND	3882	4503	4862	4434	5008	4989	3971	3503	3899	4145	3944	3417
ii)	NET POWER AVAILABILITY	522	537	525	523	690	678	685	681	680	688	696	570
	Central Sector+Bi-Lateral+MTOA	5517	5918	5924	5789	6030	6123	5825	5626	5450	5867	6226	6240
iii)	SURPLUS(+)/DEFICIT(-)	2157	1952	1587	1878	1711	1812	2538	2803	2231	2410	2977	3394
2	JHARKHAND												
i)	NET OFF PEAK DEMAND	1253	1268	1275	1253	1245	1320	1328	1331	1358	1373	1388	1395
ii)	NET POWER AVAILABILITY- Own Source	314	389	389	292	292	404	404	359	359	359	359	359
	Central Sector+Bi-Lateral+CPP	1071	1107	1108	1066	1161	1182	1172	1078	1039	1069	1076	1064
iii)	SURPLUS(+)/DEFICIT(-)	132	229	222	106	209	266	249	106	41	55	48	28
3	DVC												
i)	NET OFF PEAK DEMAND	2470	2500	2550	2555	2435	2440	2400	2400	2450	2530	2500	2520
ii)	NET POWER AVAILABILITY- OWN SOURCE	5006	5169	5227	5408	5257	5371	5169	5159	4967	5475	5475	5475
	- Central Sector+MPL	221	230	237	232	236	235	235	207	179	186	187	186
	BI-LATERAL EXPORT BY DVC	2175	2199	2258	2213	1998	1751	1534	2078	2152	2280	2515	2424
iii)	SURPLUS(+)/DEFICIT(-) AFTER EXPORT	582	701	655	873	1060	1414	1470	888	544	851	647	717
4	ODISHA												
i)	NET OFF PEAK DEMAND	3050	3150	3250	3250	3250	3100	2950	2800	2450	2300	2450	2850
ii)	NET POWER AVAILABILITY- OWN+HPP+CPI	4052	4199	3489	4060	3857	4406	4247	3892	3811	3748	3954	4039
	- Central Sector	1533	1556	1518	1697	1958	1944	1971	1958	1847	1906	1912	1937
iii)	SURPLUS(+)/DEFICIT(-)	2535	2605	1757	2507	2565	3250	3268	3049	3208	3353	3416	3125
5	WEST BENGAL												
5.1	WBSEDCL												
i)	NET OFF PEAK DEMAND (OWN)	5855	5190	5385	4845	5445	5630	4975	3645	3295	3450	4270	5540
ii)	IPCL DEMAND	90	90	90	90	90	90	90	90	90	90	90	90
iii)	TOTAL WBSEDCL'S DEMAND (inc.Sikkim+IPCL)	5945	5280	5475	4935	5535	5720	5065	3735	3385	3540	4360	5630
iv)	NET POWER AVAILABILITY- Own Source	4674	4684	4457	4876	4544	4661	4858	4265	4442	4301	4506	4845
	Contribution from DPL	450	450	450	450	205	450	450	450	246	332	450	450
	- Central Sector+Bi-lateral+HPP&CPP+TLDP+IPCL	2368	2336	2373	2263	2460	2491	2494	2138	2048	2074	2000	2085
v)	EXPORT (SIKKIM)	5	5	10	10	10	10	10	10	10	5	5	5
vi)	SURPLUS(+)/DEFICIT(-) AFTER EXPORT	1542	2185	1795	2644	1664	1873	2728	3108	3341	3163	2591	1745
5.2	CESC												
i)	NET OFF PEAK DEMAND	1155	1461	1216	1415	1223	1243	1123	776	619	610	683	894
ii)	NET POWER AVAILABILITY - OWN SOURCE	770	770	770	770	770	770	770	690	450	770	770	770
	IMPORT FROM OTHER SOURCE	740	940	970	740	590	610	610	490	410	310	510	440
	IMPORT FROM HALDIA ENERGY LTD.	540	540	540	540	540	540	540	540	540	270	270	540
iii)	TOTAL AVAILABILITY	2050	2250	2280	2050	1900	1920	1920	1720	1400	1350	1550	1750
iv)	SURPLUS(+)/DEFICIT(-)	895	789	1064	635	677	677	797	944	781	740	867	856
6	WEST BENGAL (WBSEDCL+DPL+CESC+IPCL) (excluding DVC's supply to WBSEDCL's command area)												
i)	NET OFF DEMAND OWN (Excl. Export)	7100	6741	6691	6350	6758	6963	6188	4511	4004	4150	5043	6524
ii)	NET POWER AVAILABILITY- Own Source	5894	5904	5677	6096	5519	5881	6078	5405	5138	5403	5726	6065
iii)	CS SHARE+BILETARAL+HPP/CPP+TLDP+HEI	3648	3816	3883	3543	3590	3641	3644	3168	2998	2654	2780	3065
iv)	SURPLUS(+)/DEFICIT(-) BEFORE WBSEDCL'S EX	2442	2979	2869	3289	2351	2560	3535	4062	4132	3908	3463	2606
v)	SURPLUS(+)/DEFICIT(-) AFTER WBSEDCL'S EXP	2437	2974	2859	3279	2341	2550	3525	4052	4122	3903	3458	2601
7	SIKKIM												
i)	NET OFF PEAK DEMAND	77	77	73	70	73	73	81	94	94	93	90	83
ii)	NET POWER AVAILABILITY- Own Source	8	8	8	8	8	8	8	4	2	2	2	2
	- Central Sector	182	188	188	194	200	200	198	195	186	193	198	198
iii)	SURPLUS(+)/DEFICIT(-)	113	119	123	132	135	134	125	105	94	102	110	117
8	EASTERN REGION												
	At L02 AS DIVERSITY FACTOR												
i)	NET MAX DEMAND	17831	18238	18701	17911	18769	18885	16918	14639	14254	14591	15414	16789
ii)	BI-LATERAL EXPORT BY DVC	2175	2199	2258	2213	1998	1751	1534	2078	2152	2280	2515	2424
iii)	EXPORT BY WBSEDCL	5	5	10	10	10	10	10	10	10	5	5	5
iv)	EXPORT to B'DESH & NEPAL OTHER THAN DVC												
v)	NET TOTAL POWER AVAILABILITY OF ER (INCLUDING CS ALLOCATION +BILATERAL+CPP+HEL)	27968	29021	28172	28908	28798	30073	29637	27730	26656	27549	28590	29201
vi)	PEAK SURPLUS(+)/DEFICIT(-) OF ER AFTER EXPORT (v = iv - i - ii - iii)	7956	8579	7203	8773	8021	9426	11175	11003	10240	10673	10656	9983

**ABSTRACT OF STATEWISE/SYSTEMWISE/CONSTITUENTWISE ENERGY REQUIREMENT- vs- AVAILABILITY
IN EASTERN REGION FOR THE PERIOD FROM APRIL-2021 TO MARCH-2022**

(ALL FIGURES IN MU & NET)

SL.NO	PARTICULARS	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	TOTAL 2021-22
1	BIHAR													
i)	NET ENERGY REQUIREMENT	3090	3550	3710	3605	3950	3850	3315	2705	2725	2875	2475	2980	38830
ii)	NET ENERGY AVAILABILITY- Own	235	203	204	209	255	248	250	248	289	292	266	232	2932
iii)	Central Sector+Bi-Lateral+MTOA	2493	2885	3011	3147	3265	3242	2991	2708	2638	2845	2527	2863	34615
iv)	SURPLUS(+)/DEFICIT(-)	-362	-462	-495	-249	-430	-360	-74	251	202	261	318	116	-1283
2	JHARKHAND													
i)	NET ENERGY REQUIREMENT	790	860	878	943	965	986	1025	1030	1028	895	825	820	11045
ii)	NET ENERGY AVAILABILITY- Own Source	199	208	205	161	169	219	233	213	217	211	194	130	2359
iii)	Central Sector+Bi-Lateral+IPP	516	597	625	649	699	690	633	512	496	505	447	500	6869
iv)	SURPLUS(+)/DEFICIT(-)	-75	-56	-48	-133	-97	-77	-159	-305	-315	-179	-184	-190	-1817
3	DVC													
i)	NET ENERGY REQUIREMENT (OWN)	2050	2132	2030	2066	1989	1897	1958	1953	2040	2106	1846	2122	24189
ii)	NET ENERGY AVAILABILITY- OWN SOURCE	3083	3298	3205	3182	3117	3072	3112	3099	2956	3378	3056	3381	37938
iii)	Central Sector+MPL	99	134	150	183	183	179	153	101	85	83	73	88	1509
iv)	Bi- lateral export by DVC	1566	1636	1626	1646	1486	1261	1141	1496	1601	1696	1690	1803	18648
v)	SURPLUS(+)/DEFICIT(-) AFTER EXPORT	-435	-336	-301	-346	-175	93	165	-249	-600	-341	-408	-456	-3390
4	ODISHA													
i)	NET ENERGY REQUIREMENT	2779	2946	2707	2723	2723	2635	2649	2376	2344	2344	2218	2641	31085
ii)	NET ENERGY AVAILABILITY- OWN+IPP+CPP	2321	2535	2185	2469	2354	2663	2642	2306	2283	2315	2185	2410	28668
iii)	Central Sector	887	961	923	833	998	957	967	887	832	864	787	896	10793
iv)	SURPLUS(+)/DEFICIT(-)	429	550	401	579	629	985	960	817	771	835	754	665	8376
5	WEST BENGAL													
5.1	WBSEDCL													
i)	WBSEDCL'S OWN REQUIREMENT	4000	4385	4380	4525	4470	4155	3610	2859	2854	2963	3030	4069	45300
ii)	IPCL Requirement	84	84	84	84	84	84	84	84	84	84	84	84	1008
iii)	TOTAL WBSEDCL's Energy Requirement (incl.B'Desh+Sikkim+IPCL)	4088	4473	4471	4616	4561	4246	3701	2950	2945	3051	3117	4157	46376
iv)	NET ENERGY AVAILABILITY- OWN SOURCE	2811	2912	2655	3039	2790	2735	3027	2685	2849	2753	2465	3017	33738
v)	Contribution from DPL	328	339	328	339	169	328	339	328	169	262	306	339	3571
vi)	Central Sector+Bi-lateral+IPP&CPP+TLDP	1261	1447	1589	1708	1752	1702	1552	1184	1160	1155	994	1171	16674
vii)	EXPORT (SIKKIM)	4	4	7	7	7	7	7	7	7	4	3	4	#REF!
viii)	SURPLUS(+)/DEFICIT(-) AFTER EXPORT	312	224	100	469	150	519	1217	1246	1232	1119	647	370	7608
5.2	CESC													
i)	NET ENERGY REQUIREMENT	920	1150	1090	1110	1020	1020	940	755	685	680	640	850	10860
ii)	NET ENERGY AVAILABILITY - Own Source	523	550	531	552	500	503	498	410	332	474	426	460	5759
iii)	FROM OTHER SOURCE (INCL. IPP/CPP-29-30 MU/M)	67	205	176	164	130	140	126	58	57	55	53	49	1280
iv)	FROM HEL	330	395	383	394	390	377	316	287	296	151	161	341	3821
v)	TOTAL AVAILABILITY OF CESC	920	1150	1090	1110	1020	1020	940	755	685	680	640	850	10860
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	5004	5619	5554	5719	5574	5259	4634	3698	3623	3727	3754	5003	57168
ii)	NET POWER AVAILABILITY- Own Source	3662	3800	3513	3930	3459	3566	3864	3423	3350	3489	3196	3816	43068
iii)	CS SHARE+BILATERAL+IPP/CPP+TLDP+HEL	1658	2047	2148	2266	2272	2219	1994	1529	1513	1361	1208	1561	21775
iv)	SURPLUS(+)/DEFICIT(-) BEFORE WBSEDCL'S EXP.	316	228	107	476	157	526	1224	1253	1239	1123	650	374	7676
v)	SURPLUS(+)/DEFICIT(-) AFTER WBSEDCL'S EXP.	312	224	100	469	150	519	1217	1246	1232	1119	647	370	#REF!
7	SIKKIM													
i)	NET ENERGY REQUIREMENT	51	47	47	48	46	46	50	63	63	64	65	58	649
ii)	NET POWER AVAILABILITY- Own Source	1	1	1	3	3	3	3	1	1	1	1	2	21
	- Central Sector	85	105	114	119	122	121	109	81	70	71	61	73	1131
iii)	SURPLUS(+)/DEFICIT(-)	35	59	68	74	79	78	62	19	8	8	-3	17	503
8	EASTERN REGION													
i)	NET ENERGY REQUIREMENT OF ER	13764	15154	14926	15104	15247	14673	13631	11825	11823	12012	11183	13623	162965
ii)	BILATERAL EXPORT BY DVC	1566	1636	1626	1646	1486	1261	1141	1496	1601	1696	1690	1803	18648
iii)	EXPORT BY WBSEDCL TO SIKKIM	4	4	7	7	7	7	7	7	7	4	3	4	#REF!
iv)	EXPORT to B'DESH & NEPAL OTHER THAN DVC													
v)	NET TOTAL ENERGY AVAILABILITY OF ER (INCLUDING CS ALLOCATION +BILATERAL+IPP/CPP+HEL)	15238	16775	16284	17152	16895	17181	16950	15107	14730	15414	14002	15952	191678
vi)	ENERGY SURPLUS(+)/DEFICIT(-) OF ER AFTER EXPORT (v = iv - ii - iii)	-96	-19	-275	395	156	1240	2171	1779	1298	1702	1126	521	9998