

पावर सिस्टम ऑपरेशन कॉर्पोरेशन लिमिटेड

(भारत सरकार का उद्यम)

POWER SYSTEM OPERATION CORPORATION LIMITED

(A Govt. of India Enterprise)



पंजीकृत एवं केन्द्रीय कार्यालय : प्रथम तल, बी-9, कुतुब इंस्टीट्यूशनल एरिया, कटवारिया सराय, नई दिल्ली-110016
Registered & Corporate Office : 1st Floor, B-9, Qutab Institutional Area, Katwaria Sarai, New Delhi -110016
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संदर्भ संख्या : - POSOCO/NLDC/MR/

दिनांक : 23.04.2020

सेवा में,

वितरण सूची के अनुसार

विषय:- निष्पादन रिपोर्ट - मार्च-2020

महोदय,

आई०ई०जी०सी०-२०१० के प्रावधान के अनुसार, मार्च-२०२० माह की अखिल भारतीय प्रणाली की निष्पादन रिपोर्ट संलग्न है।

धन्यवाद

भवदीय

Yot ५/Com/RM
(एन नल्लारसन) २३/४/२०

मुख्य महाप्रबंधक
(रा०भा०प्र०के०)

संलग्नक : मासिक प्रणाली रिपोर्ट

वितरण सूची

Distribution List

- 1 सचिव, के.वि.नि.आ. तीसरा एवं चौथा तल, चंद्रलोक भवन, 36, जनपथ, नई दिल्ली-110001
Secretary, CERC, 3rd & 4th Floor, Chanderlok Building, 36, Janpath, New Delhi-110001
- 2 मुख्य अभियंता (जी एम), के.वि.प्रा., सेवा भवन, आर. के. पुरम, नई दिल्ली-110066
Chief Engineer (GM), CEA, Sewa Bhavan, R.K.Puram, New Delhi-110066
- 3 सदस्य सचिव, उ. क्षे. वि. स., 18/ए, शहीद जीत सिंह सनसनवाल मार्ग, नई दिल्ली - 110016
Member Secretary, NRPC, 18/A, SJSS Marg, Katwaria Sarai, New Delhi-110016
- 4 सदस्य सचिव, प. क्षे. वि. स., एफ-3, एम आई डी सी क्लेट्र, अंधेरी(पूर्व), मुंबई - 400093
Member Secretary, WRPC, F-3, MIDC Area, Andheri (East), Mumbai-400093
- 5 सदस्य सचिव, द. क्षे. वि. स., 29, रेस कोर्स क्रॉस रोड, बंगलूरु - 560009
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- 6 सदस्य सचिव, पू. क्षे. वि. स., 14, गोल्फ क्लब रोड, कोलकाता - 700033
Member Secretary, ERPC, 14, Golf Club Road, Kolkata-700033
- 7 सदस्य सचिव, पू. क्षे. वि. स., मेघालय राज्य आवासीय वित्त सहकारी समिति लिमिटेड भवन, नॉग्रिम हिल्स, शिलोंग - 793003
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- 8 मुख्य अभियंता, राष्ट्रीय विद्युत समिति, एनआरपीसी भवन, तृतीय तल, 18/ए, शहीद जीत सिंह सनसनवाल मार्ग, नई दिल्ली - 110016
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- 9 कार्यपालक निदेशक, पू. क्षे. भा. प्रे. के., 14, गोल्फ क्लब रोड, कोलकाता - 700033
Executive Director, ERLDC, 14, Golf Club Road, Kolkata-700033
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Executive Director, WRLDC, F-3, MIDC Area, Andheri (East), Mumbai-400093
- 11 महाप्रबंधक, उ.क्षे.भा.प्रे.के., 18/ए, शहीद जीत सिंह सनसनवाल मार्ग, नई दिल्ली - 110016
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General Manager, SRLDC, 29, Race Course Cross Road, Bangalore-560009
- 13 कार्यपालक निदेशक, पू. क्षे. भा. प्रे. के., डोंगतिएह, लोअर नॉग्रह, लापलंग, शिलोंग- 793006
Executive Director, NERLDC, Dongtien, Lower Nongrah, Laplang, Shillong-793006



POWER SYSTEM OPERATION CORPORATION LIMITED

पॉवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड

NATIONAL LOAD DESPATCH CENTRE –राष्ट्रीय भार प्रेषण केन्द्र

मासिक ऑपरेशन रिपोर्ट

Monthly
Operation Report



मार्च
2020

पावर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड
राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली

POWER SYSTEM OPERATION CORPORATION LTD
NATIONAL LOAD DESPATCH CENTRE, NEW DELHI



माह मार्च-2020 के लिए प्रचालन निष्पादन रिपोर्ट
OPERATIONAL PERFORMANCE REPORT FOR THE
MONTH OF MARCH-2020

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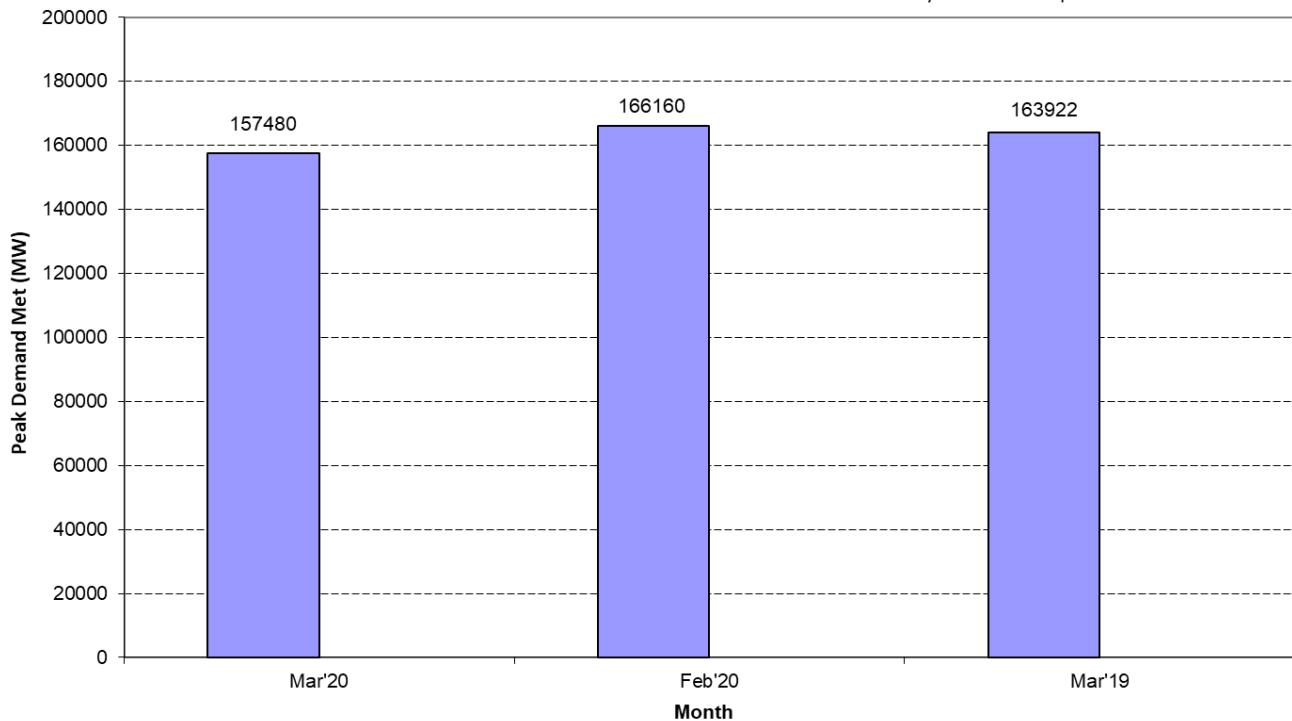
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1. SUMMARY OF REPORT FOR THE MONTH OF MARCH 2020

Peak Demand Met

Decreased by 5.22% as compared to Feb'20

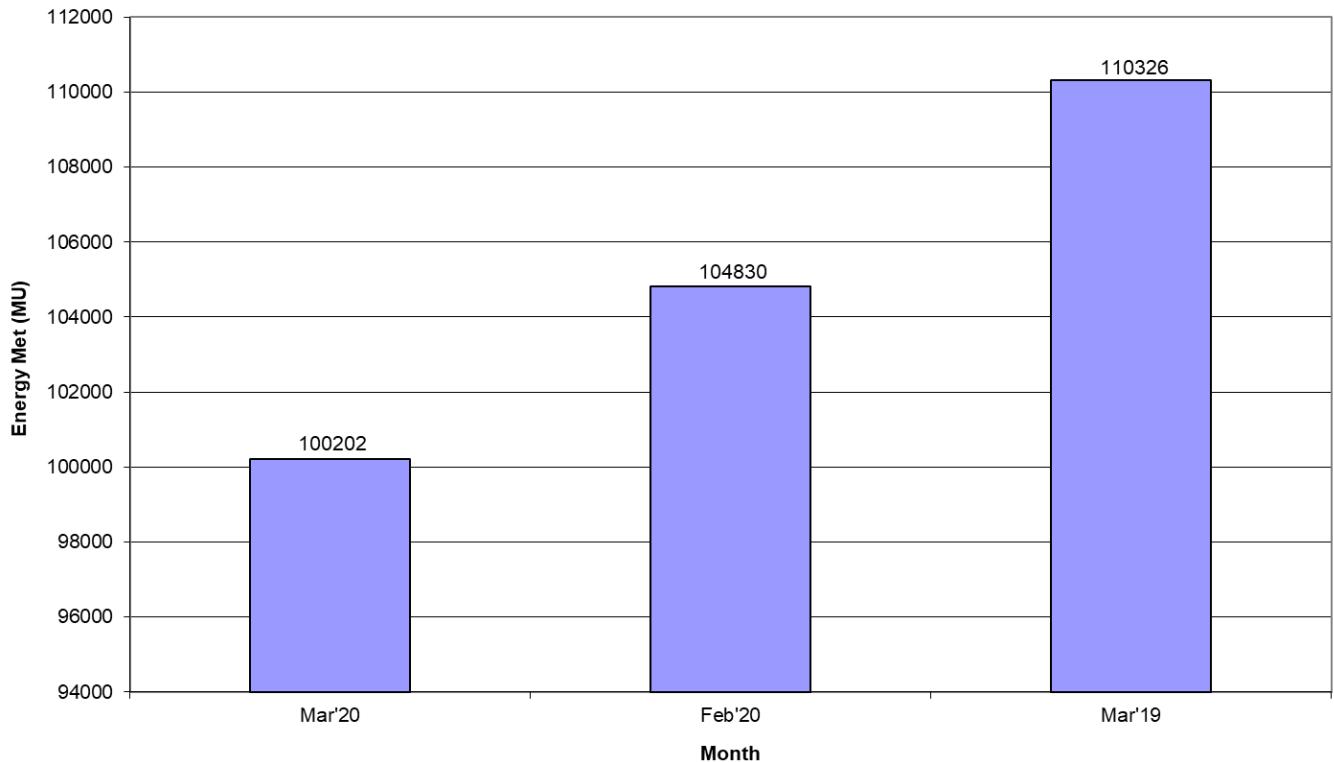
Decreased by 3.93% as compared to Mar'19

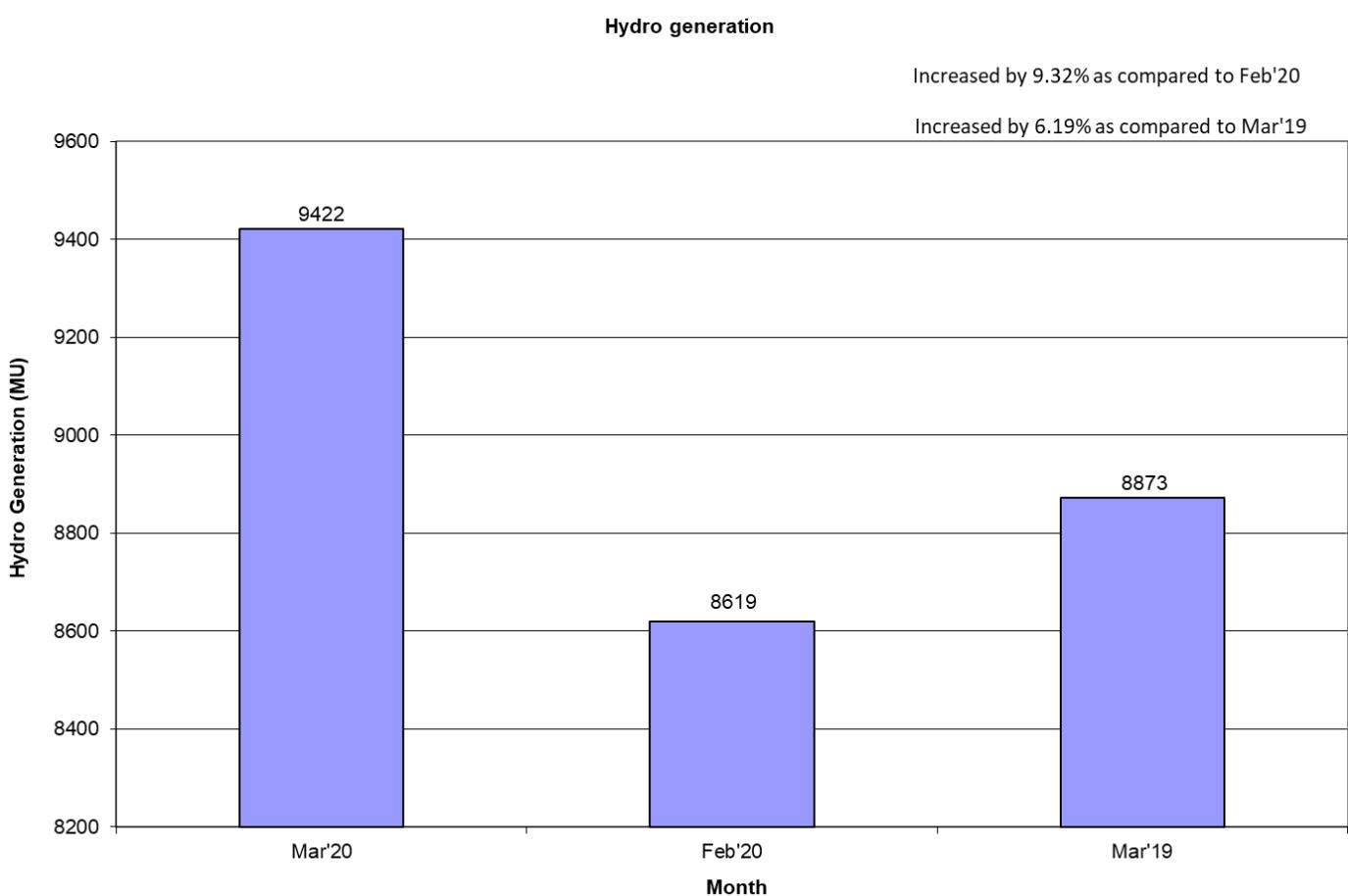
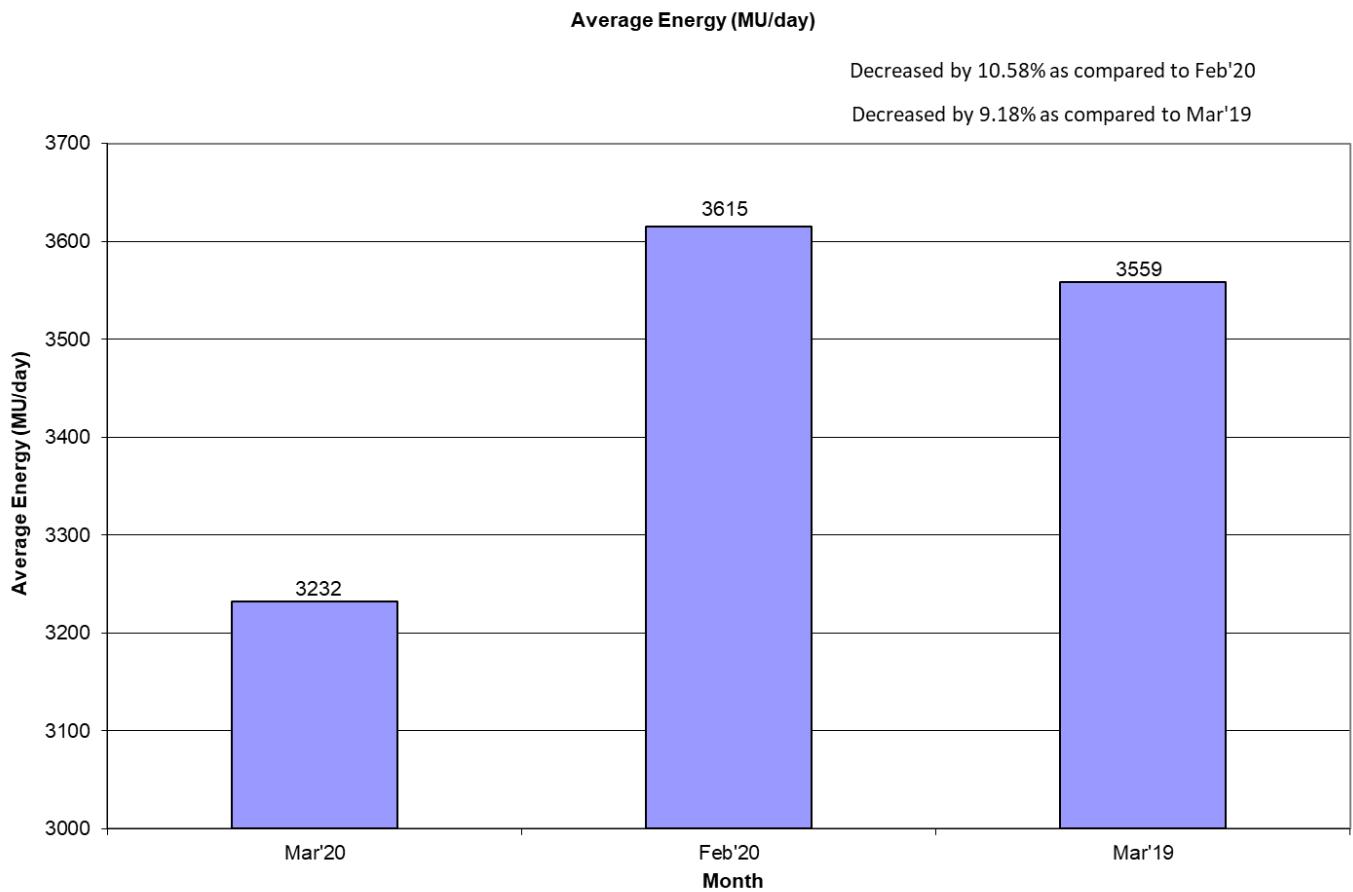


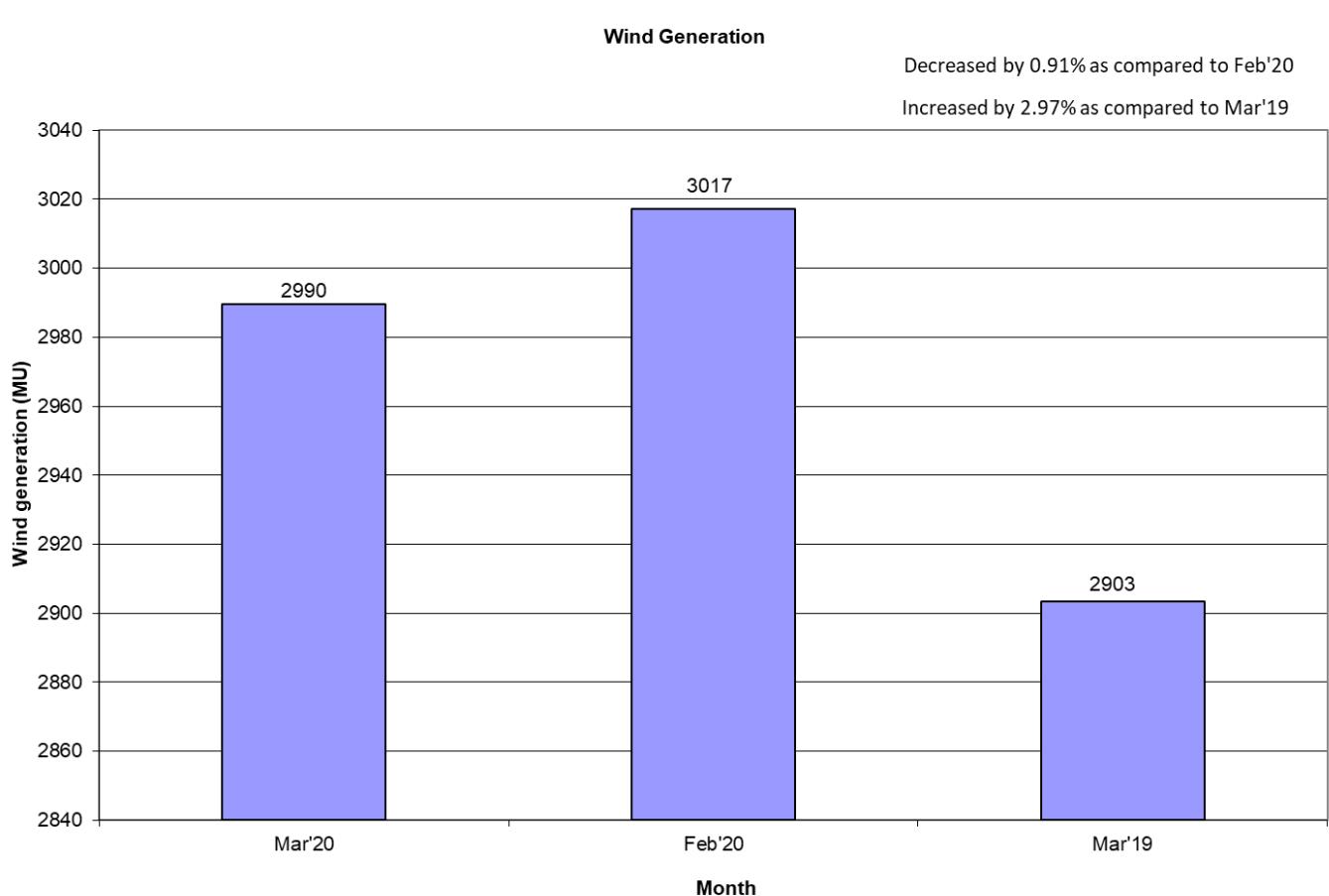
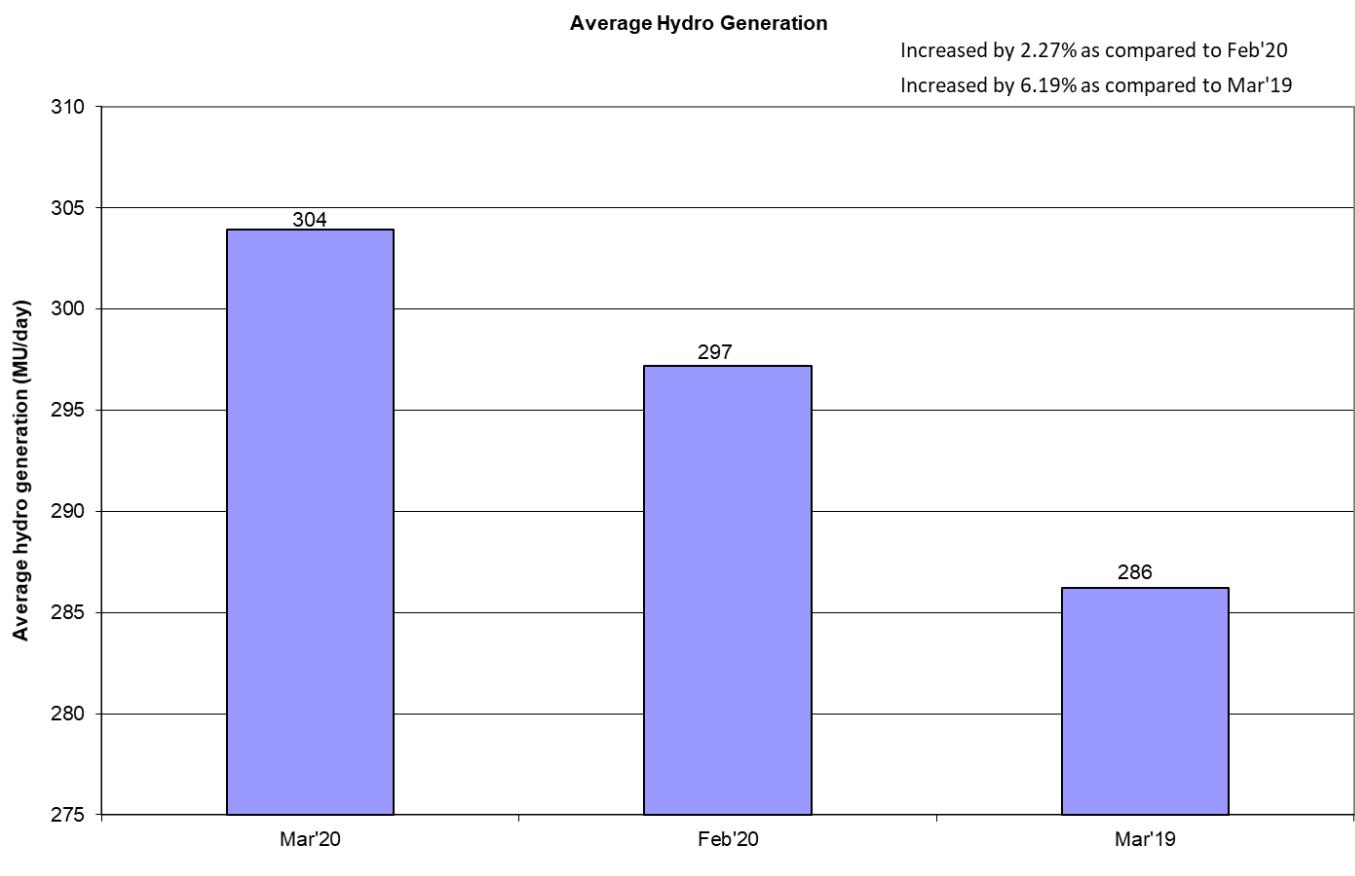
Energy Met

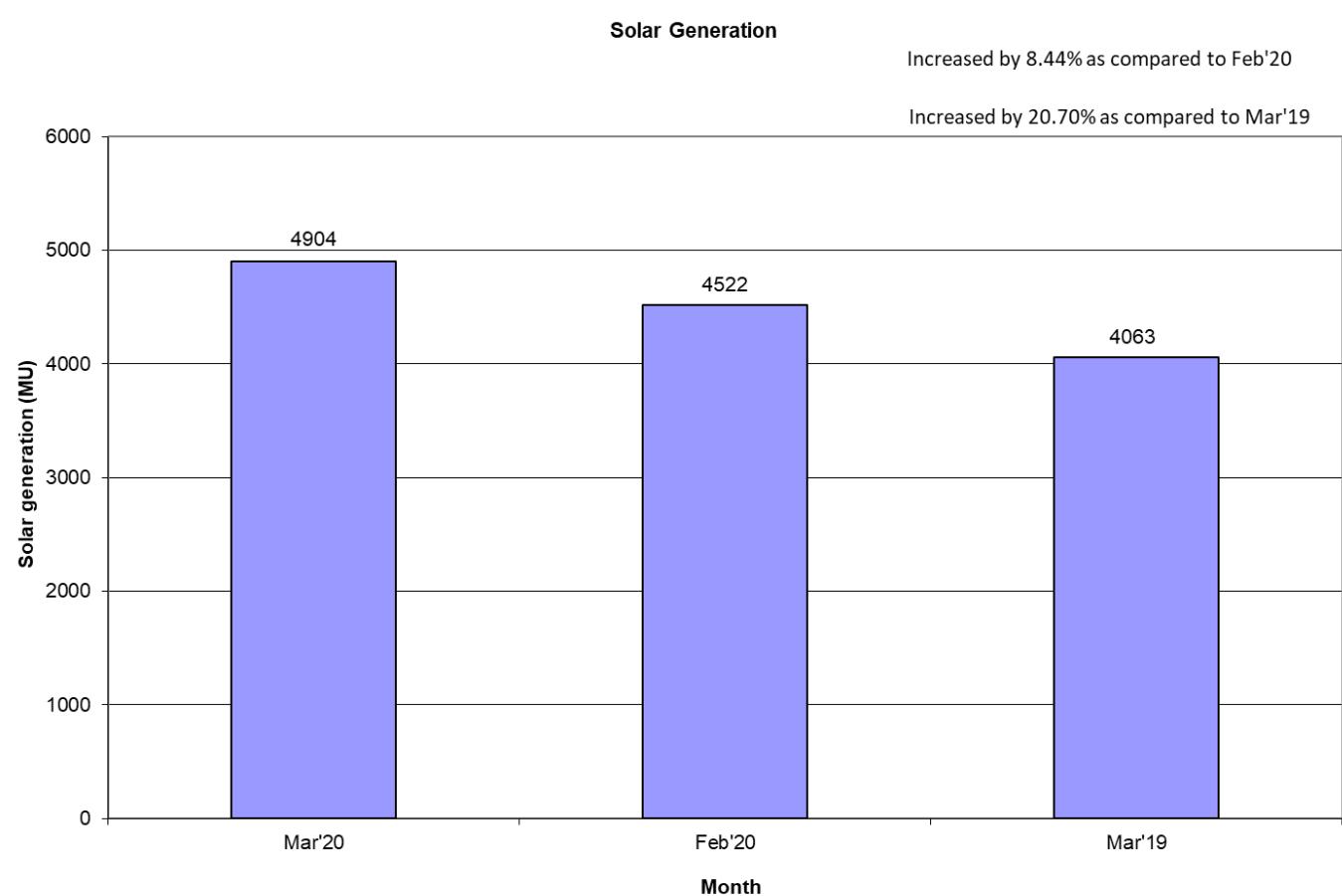
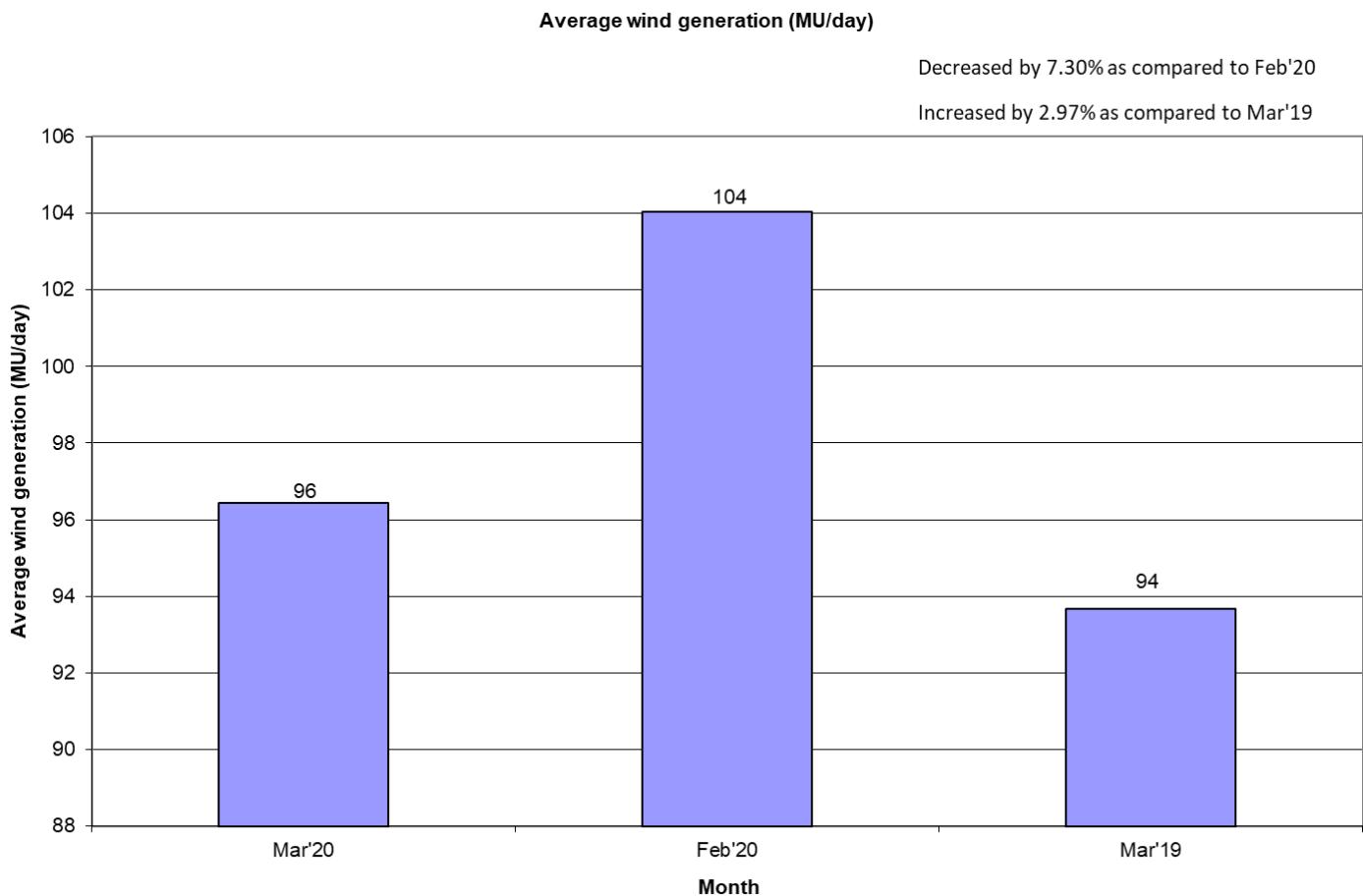
Decreased by 4.42% as compared to Feb'20

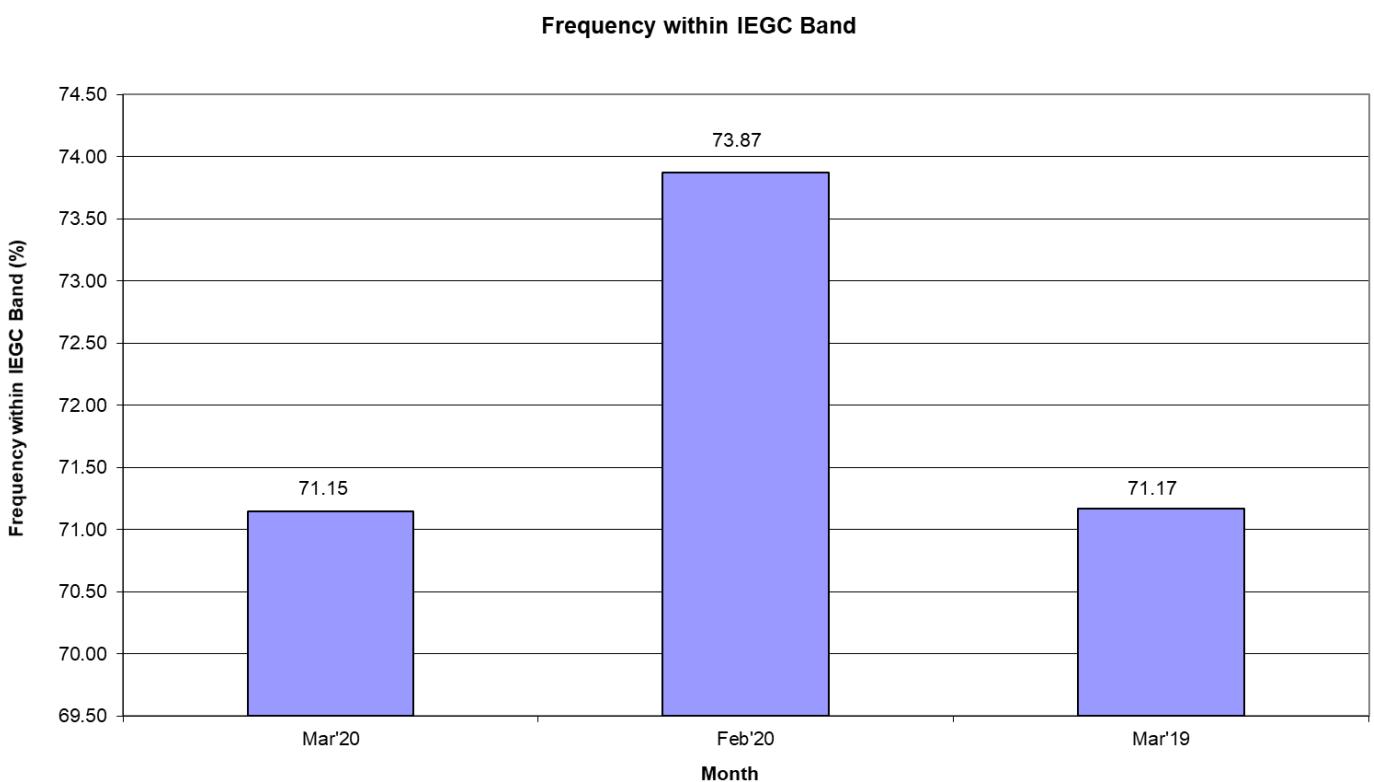
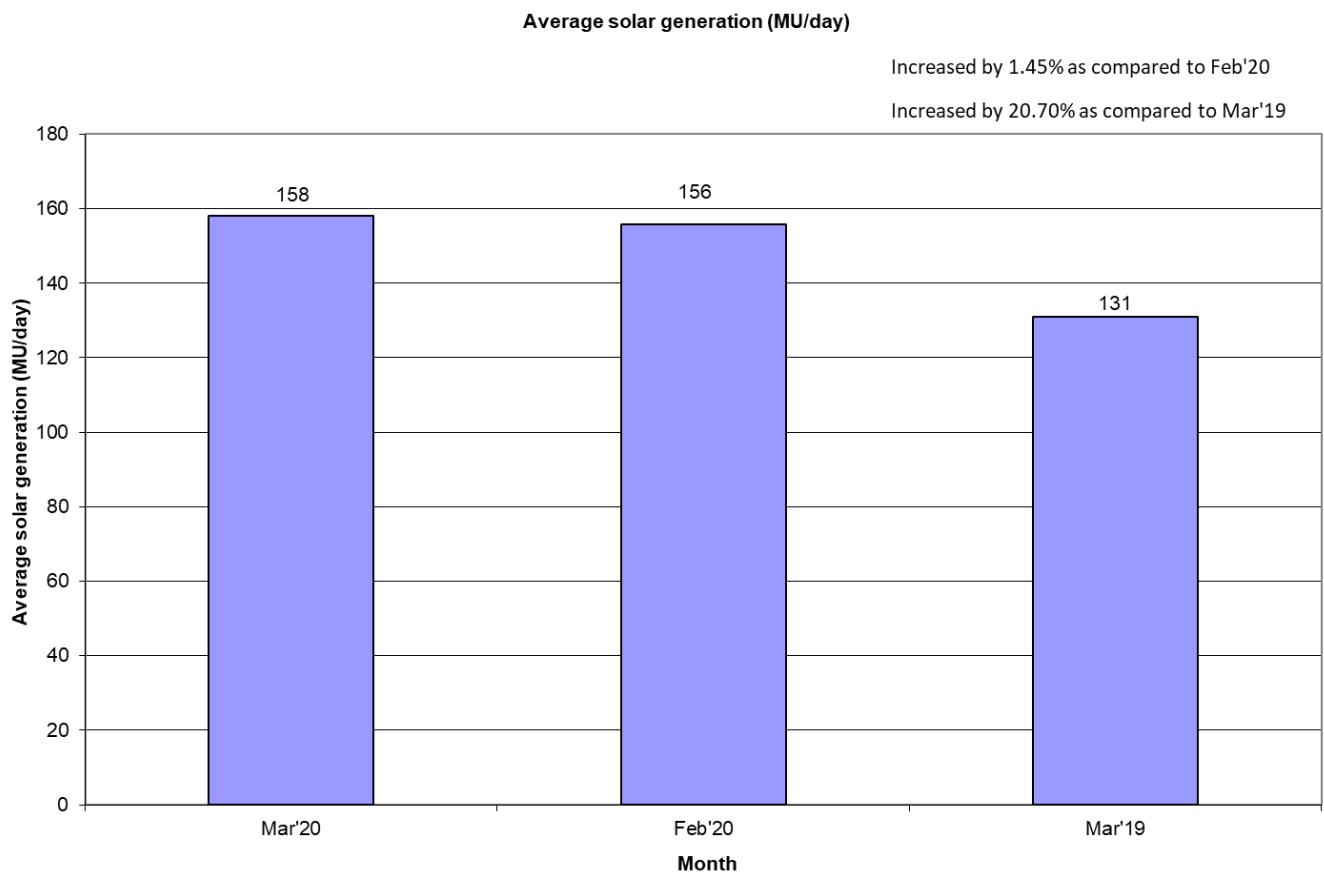
Decreased by 9.18% as compared to Mar'19











2. ALL INDIA REGIONWISE INSTALLED CAPACITY

As on 31.03.2020

(All figures are in MW)

S No	Region	THERMAL					NUCLEAR	HYDRO	RES @ MNRE	GRAND TOTAL
		COAL	LIGNITE	GAS	DIESEL	TOTAL				
1	NR	53650	1580	5781	0	61011	1620	20086	16762	99479
2	WR	72935	1540	10806	0	85282	1840	7623	25782	120526
3	SR	44095	3490	6492	434	54510	3320	11775	42336	111941
4	ER	27285	0	100	0	27385	0	4639	1497	33521
5	NER	770	0	1776	36	2582	0	1577	364	4523
6	ISLANDS	0	0	0	40	40	0	0	18	58
	ALL INDIA	198735	6610	24955	510	230810	6780	45699	86759	370048

Remarks: Data from CEA website

3. राष्ट्रीय स्तर पर संध्याकालीन शिखर विद्युत मांग पूर्ति
EVENING PEAK HOUR DEMAND MET AT NATIONAL LEVEL

माह: मार्च 2020 MONTH:- MARCH 2020

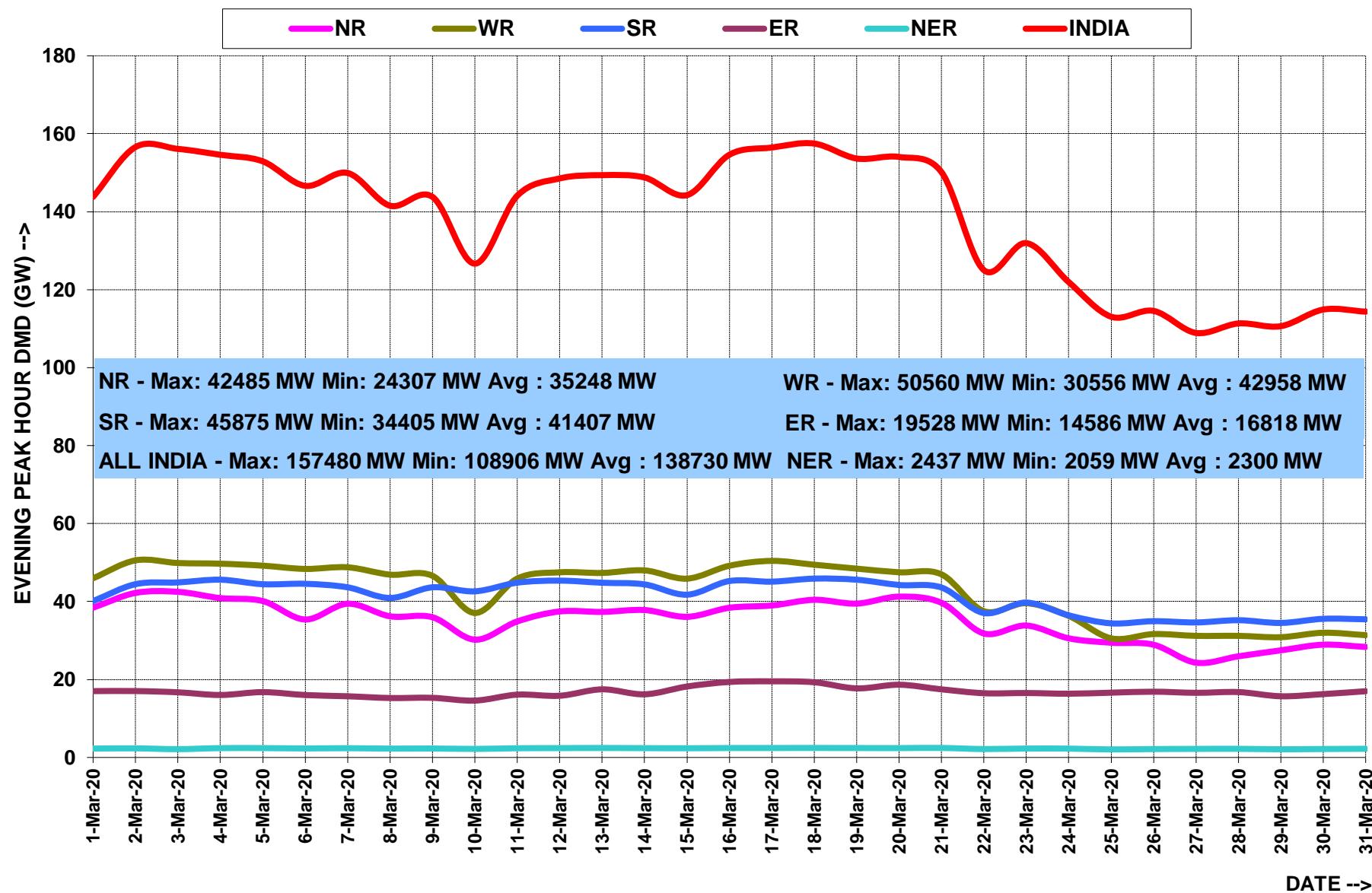
सभी आंकड़े मेगावाट में All figures in MW

दिनांक Date	उत्तरी क्षे. NR	पश्चिमी क्षे. WR	दक्षिणी क्षे. SR	पूर्वी क्षे. ER	पूर्वोत्तर क्षे. NER	कुल TOTAL
1-Mar-20	38424	45963	40122	17017	2278	143804
2-Mar-20	42209	50560	44448	17032	2334	156583
3-Mar-20	42485	49877	44904	16713	2130	156109
4-Mar-20	40876	49707	45593	16024	2395	154595
5-Mar-20	40124	49198	44438	16760	2399	152919
6-Mar-20	35391	48364	44548	16012	2312	146627
7-Mar-20	39437	48778	43643	15694	2380	149932
8-Mar-20	36208	46894	40918	15250	2267	141537
9-Mar-20	35968	46600	43644	15293	2298	143803
10-Mar-20	30215	37065	42618	14586	2188	126672
11-Mar-20	34899	45894	44839	16110	2363	144105
12-Mar-20	37453	47493	45354	15831	2403	148534
13-Mar-20	37332	47331	44814	17470	2431	149378
14-Mar-20	37811	47985	44391	16201	2392	148780
15-Mar-20	36072	45868	41756	18198	2364	144258
16-Mar-20	38399	49175	45255	19367	2415	154611
17-Mar-20	38981	50426	45097	19528	2424	156456
18-Mar-20	40437	49440	45875	19292	2436	157480
19-Mar-20	39473	48434	45593	17724	2418	153642
20-Mar-20	41253	47497	44241	18653	2401	154045
21-Mar-20	39680	46970	43591	17473	2437	150151
22-Mar-20	31804	37511	37047	16479	2159	125000
23-Mar-20	33835	39571	39726	16528	2286	131946
24-Mar-20	30563	36306	36450	16352	2266	121937
25-Mar-20	29426	30556	34405	16617	2059	113063
26-Mar-20	28917	31652	34956	16865	2158	114548
27-Mar-20	24307	31190	34632	16583	2194	108906
28-Mar-20	25947	31192	35205	16768	2215	111327
29-Mar-20	27479	30855	34504	15697	2097	110632
30-Mar-20	28926	31988	35562	16249	2169	114894
31-Mar-20	28344	31372	35444	16986	2218	114364
उच्चतम MAXIMUM	42485	50560	45875	19528	2437	157480
निम्नतम MINIMUM	24307	30556	34405	14586	2059	108906
औसत AVERAGE	35248	42958	41407	16818	2300	138730
अब तक का उच्चतम All Time Max.	62627	54589	50436	23016	2944	176381
दिनांक Date	03.07.19	15.10.18	24.02.20	31.08.19	29.08.19	29.05.19

नोट : सभी आंकड़े 1900 बजे की मांगपूर्ति पर आधारित हैं।

Note: The above figures correspond to value at 1900 Hrs

EVENING PEAK HOUR DEMAND MET DURING THE MONTH OF MARCH' 2020



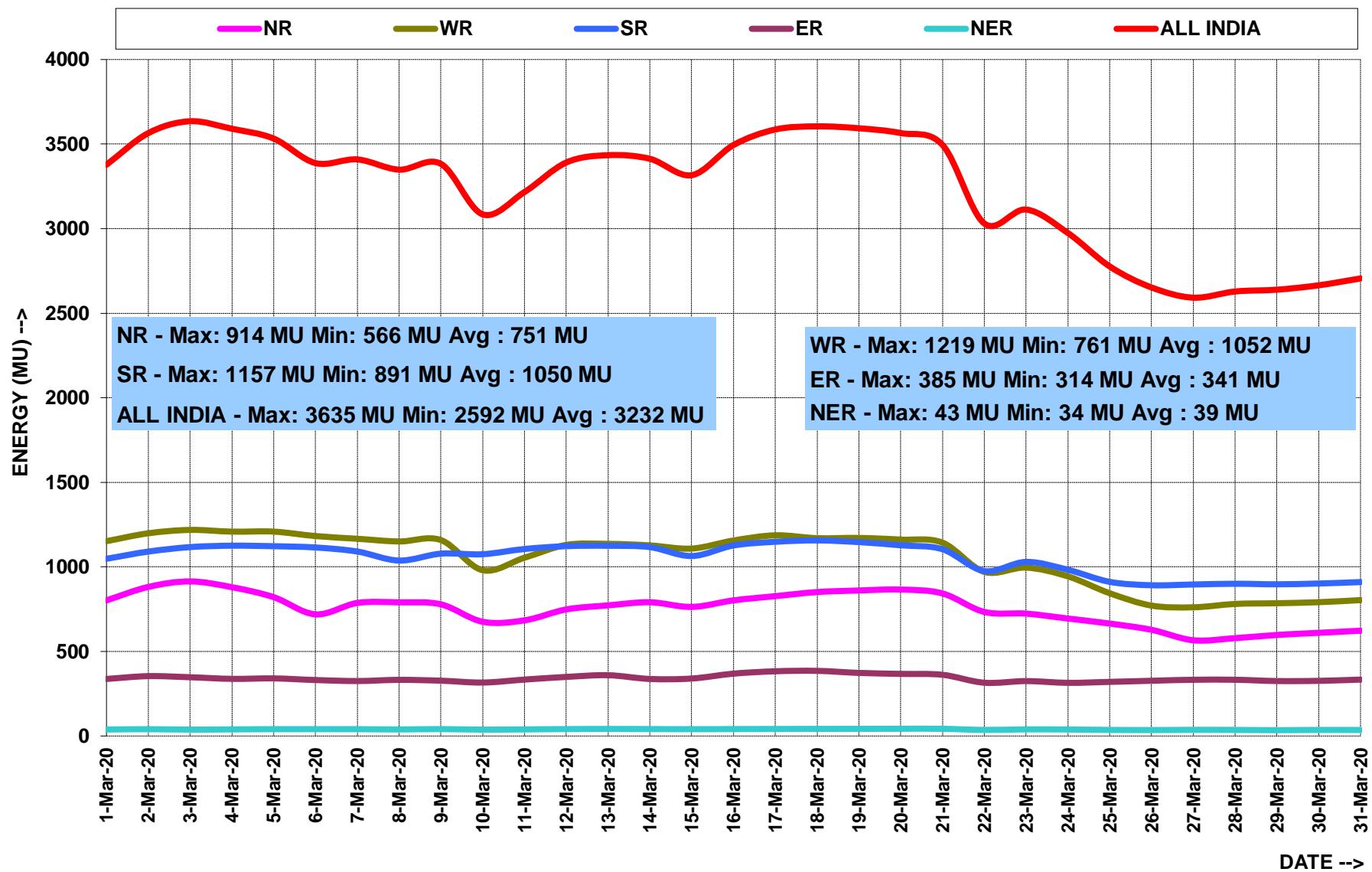
4. राष्ट्रीय स्तर पर विद्युत ऊर्जा आपूर्ति ENERGY MET AT NATIONAL LEVEL

माह: मार्च 2020 MONTH:- MARCH 2020

सभी आंकड़े मिलियन यूनिट में All figures in MU

दिनांक Date	उत्तरी क्षे. NR	पश्चिमी क्षे. WR	दक्षिणी क्षे. SR	पूर्वी क्षे. ER	पूर्वोत्तर क्षे. NER	कुल TOTAL
01-Mar-20	802	1152	1048	337	38	3378
02-Mar-20	882	1199	1090	354	40	3565
03-Mar-20	914	1219	1117	347	38	3635
04-Mar-20	880	1208	1125	338	39	3591
05-Mar-20	821	1208	1122	341	40	3533
06-Mar-20	719	1182	1115	331	40	3388
07-Mar-20	787	1166	1091	325	40	3409
08-Mar-20	790	1150	1037	332	39	3349
09-Mar-20	778	1159	1078	327	41	3383
10-Mar-20	675	980	1075	316	38	3085
11-Mar-20	684	1054	1106	334	39	3217
12-Mar-20	748	1130	1123	349	41	3391
13-Mar-20	772	1136	1125	359	42	3434
14-Mar-20	791	1127	1117	337	41	3413
15-Mar-20	763	1108	1064	340	40	3316
16-Mar-20	802	1156	1127	369	41	3494
17-Mar-20	827	1187	1148	383	42	3586
18-Mar-20	851	1170	1157	385	42	3605
19-Mar-20	860	1171	1147	373	42	3594
20-Mar-20	866	1161	1128	367	43	3565
21-Mar-20	843	1143	1104	362	43	3495
22-Mar-20	734	971	975	315	36	3030
23-Mar-20	724	996	1030	325	39	3113
24-Mar-20	695	944	983	314	39	2974
25-Mar-20	665	844	911	320	36	2777
26-Mar-20	628	771	891	327	35	2652
27-Mar-20	566	761	896	333	36	2592
28-Mar-20	579	781	900	333	36	2628
29-Mar-20	598	785	897	325	34	2639
30-Mar-20	610	791	902	326	36	2665
31-Mar-20	623	804	910	334	36	2705
कुल TOTAL	23277	32616	32539	10557	1212	100202
उच्चतम MAXIMUM	914	1219	1157	385	43	3635
निम्नतम MINIMUM	566	761	891	314	34	2592
औसत AVERAGE	751	1052	1050	341	39	3232
संचयी 2019-20 Cumulative 2019-20	386593	402263	346409	146672	16342	1298278
अब तक का उच्चतम All Time Max.	1493	1293	1157	496	58	4145
दिनांक Date	01.07.19	16.10.18	18.03.20	25.06.19	22.08.19	30.05.19

ENERGY MET DURING THE MONTH OF MARCH' 2020



5. वर्ष 2019-20 के लिए आवृति रूपरेखा FREQUENCY PROFILE FOR YEAR 2019-20

राष्ट्रीय ग्रिड NATIONAL GRID								
		फ्रिक्वेंसी रूपरेखा (Hz)	<49.9	49.9-50.05	>50.05	उच्चतम फ्रिक्वेंसी	निम्नतम फ्रिक्वेंसी	औसत फ्रिक्वेंसी
% समय	Apr-19	All India Grid	7.33	73.11	19.56	50.32	49.65	50.00
	May-19	All India Grid	9.39	72.70	17.91	50.33	49.65	49.99
	Jun-19	All India Grid	9.49	70.01	20.51	50.31	49.63	50.00
	Jul-19	All India Grid	7.09	68.27	24.64	50.32	49.64	50.01
	Aug-19	All India Grid	7.28	72.68	20.04	50.32	49.55	50.00
	Sep-19	All India Grid	4.59	75.27	20.14	50.27	49.62	50.01
	Oct-19	All India Grid	3.19	77.04	19.77	50.31	49.67	50.01
	Nov-19	All India Grid	4.14	74.02	21.84	50.26	49.65	50.01
	Dec-19	All India Grid	6.48	71.67	21.85	50.34	49.65	50.00
	Jan-20	All India Grid	6.47	75.04	18.49	50.27	49.69	50.00
	Feb-20	All India Grid	7.23	73.87	18.90	50.33	49.68	50.00
	Mar-20	All India Grid	5.74	71.15	23.11	50.32	49.69	50.01
	2019-20 (upto Mar)	All India Grid	6.53	72.90	20.56	50.34	49.55	50.00

5.1 मार्च 2020 के लिए आवृत्ति रूपरेखा FREQUENCY PROFILE FOR MARCH 2020

फ्रिकेंसी रूपरेखा (Hz)	<49.9	49.9-50.05	>50.05	उच्चतम फ्रिकेंसी	निम्नतम फ्रिकेंसी	औसत फ्रिकेंसी	एफ.वी.आई.	
% समय	01-Mar-20	3.15	72.29	24.56	50.26	49.81	50.01	0.04
	02-Mar-20	10.06	73.66	16.28	50.20	49.76	49.99	0.05
	03-Mar-20	4.68	76.85	18.47	50.18	49.80	50.00	0.03
	04-Mar-20	4.73	72.35	22.92	50.22	49.82	50.01	0.04
	05-Mar-20	5.50	73.60	20.90	50.23	49.75	50.00	0.04
	06-Mar-20	7.69	70.30	22.01	50.24	49.75	50.00	0.04
	07-Mar-20	9.44	77.55	13.01	50.18	49.74	49.99	0.04
	08-Mar-20	3.48	73.99	22.52	50.23	49.81	50.01	0.04
	09-Mar-20	0.45	70.58	28.97	50.21	49.86	50.02	0.03
	10-Mar-20	0.43	61.70	37.87	50.24	49.88	50.04	0.04
	11-Mar-20	12.57	65.63	21.81	50.21	49.70	49.99	0.06
	12-Mar-20	5.86	75.51	18.63	50.20	49.78	50.00	0.03
	13-Mar-20	3.24	78.28	18.48	50.19	49.82	50.01	0.03
	14-Mar-20	6.97	75.07	17.96	50.22	49.81	50.00	0.04
	15-Mar-20	3.55	73.75	22.70	50.24	49.78	50.01	0.04
	16-Mar-20	9.28	70.06	20.66	50.18	49.82	49.99	0.04
	17-Mar-20	3.25	74.10	22.65	50.22	49.79	50.01	0.03
	18-Mar-20	7.37	71.88	20.75	50.19	49.78	50.00	0.04
	19-Mar-20	6.26	74.42	19.32	50.24	49.69	50.00	0.05
	20-Mar-20	1.38	71.92	26.70	50.25	49.81	50.02	0.03
	21-Mar-20	1.99	64.06	33.95	50.30	49.82	50.03	0.04
	22-Mar-20	8.02	57.89	34.09	50.32	49.70	50.02	0.07
	23-Mar-20	4.12	79.24	16.64	50.21	49.81	50.00	0.03
	24-Mar-20	1.10	58.53	40.37	50.30	49.87	50.04	0.05
	25-Mar-20	2.81	67.91	29.28	50.27	49.83	50.02	0.04
	26-Mar-20	8.08	68.43	23.50	50.24	49.77	50.01	0.04
	27-Mar-20	8.45	74.05	17.50	50.22	49.74	49.99	0.04
	28-Mar-20	3.83	65.39	30.78	50.27	49.77	50.02	0.05
	29-Mar-20	7.85	68.40	23.75	50.30	49.74	50.01	0.07
	30-Mar-20	14.26	71.18	14.56	50.17	49.71	49.98	0.06
	31-Mar-20	8.14	77.07	14.79	50.18	49.69	49.99	0.04

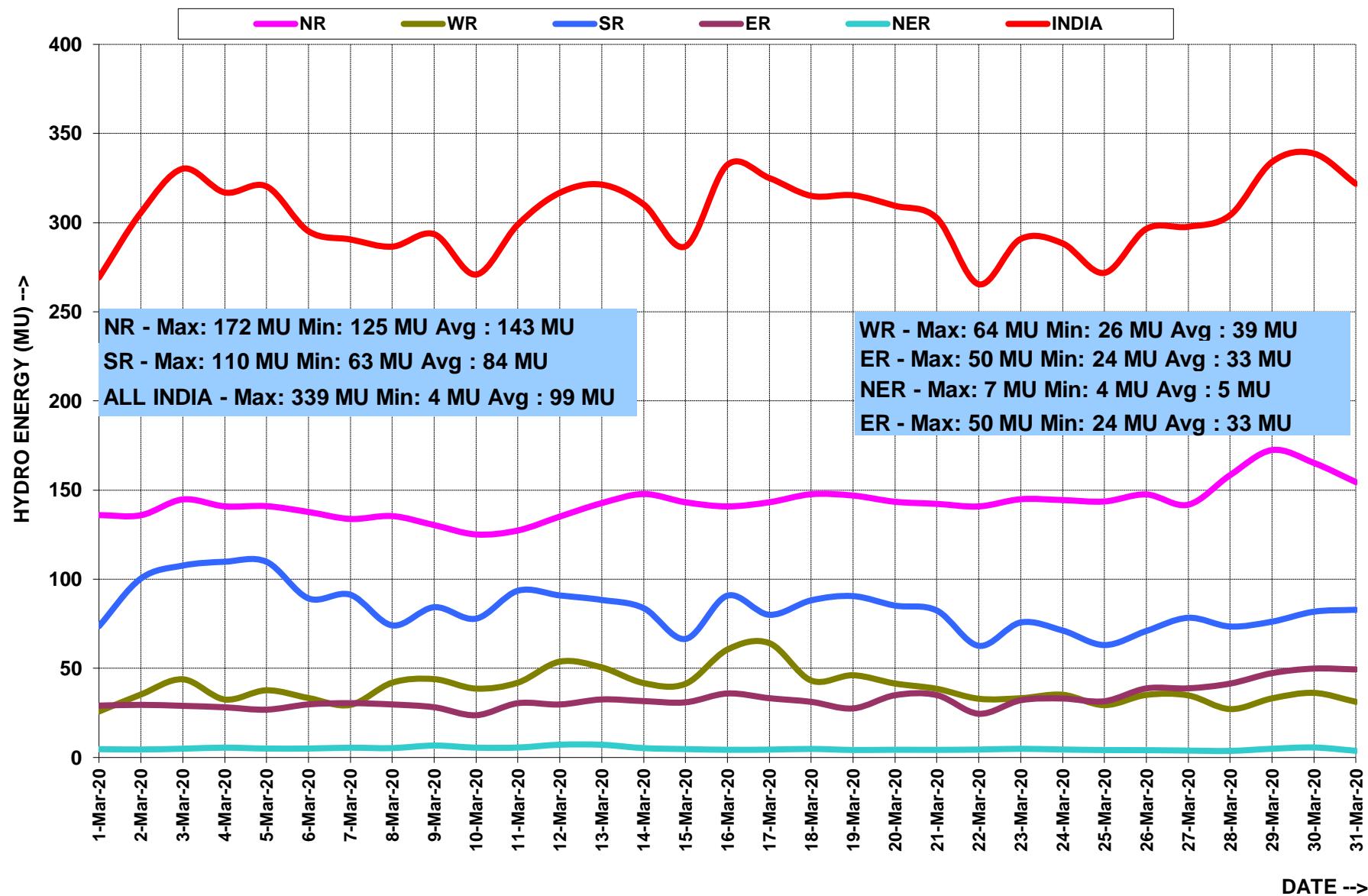
6. राष्ट्रीय स्तर पर जल विद्युत उत्पादन
HYDRO GENERATION AT NATIONAL LEVEL

माह: मार्च 2020 MONTH:- MARCH 2020

सभी आंकड़े मिलियन यूनिट में All figures in MU

दिनांक Date	उत्तरी क्षे. NR	पश्चिमी क्षे. WR	दक्षिणी क्षे. SR	पूर्वी क्षे. ER	पूर्वोत्तर क्षे. NER	कुल TOTAL
01-Mar-20	136	26	74	29	5	269
02-Mar-20	136	35	100	30	4	306
03-Mar-20	145	44	108	29	5	330
04-Mar-20	141	33	110	28	6	317
05-Mar-20	141	38	110	27	5	320
06-Mar-20	138	33	89	30	5	295
07-Mar-20	134	30	91	30	6	291
08-Mar-20	135	42	74	30	5	287
09-Mar-20	130	44	84	28	7	294
10-Mar-20	125	39	78	24	6	271
11-Mar-20	127	42	94	30	6	299
12-Mar-20	135	54	91	30	7	317
13-Mar-20	143	51	88	33	7	321
14-Mar-20	148	42	84	32	5	310
15-Mar-20	143	41	67	31	5	287
16-Mar-20	141	61	91	36	4	332
17-Mar-20	143	64	80	33	4	325
18-Mar-20	148	43	88	31	5	315
19-Mar-20	147	46	91	28	4	315
20-Mar-20	143	42	85	35	4	309
21-Mar-20	142	39	82	35	4	303
22-Mar-20	141	33	63	25	4	265
23-Mar-20	145	33	76	32	5	291
24-Mar-20	144	35	71	33	4	288
25-Mar-20	144	29	63	32	4	272
26-Mar-20	148	35	71	39	4	297
27-Mar-20	142	35	78	39	4	298
28-Mar-20	158	27	73	41	4	304
29-Mar-20	172	33	76	47	5	334
30-Mar-20	165	36	82	50	6	339
31-Mar-20	154	31	83	49	4	322
कुल TOTAL	4435	1215	2595	1025	153	9422
उच्चतम MAXIMUM	172	64	110	50	7	339
निम्नतम MINIMUM	125	26	63	24	4	265
औसत AVERAGE	143	39	84	33	5	304
संचयी 2019-20 Cumulative 2019-20	80960	18105	32762	26848	5107	163782
अब तक का उच्चतम All Time Max.	389	167	208	145	37	816
दिनांक Date	18.08.15	18.12.14	31.08.18	15.09.19	03.07.19	09.09.19

HYDRO ENERGY DURING THE MONTH OF MARCH' 2020



7. राष्ट्रीय स्तर पर पवन ऊर्जा उत्पादन
WIND GENERATION AT NATIONAL LEVEL
माह: मार्च 2020 MONTH:- MARCH 2020

सभी आंकड़े मिलियन यूनिट में All figures in MU

दिनांक Date	उत्तरी क्षे. NR	पश्चिमी क्षे. WR	दक्षिणी क्षे. SR	पूर्वी क्षे. ER	पूर्वोत्तर क्षे. NER	कुल TOTAL
01-Mar-20	33.3	31.2	37.1	-----	-----	102
02-Mar-20	11.2	34.3	18.7	-----	-----	64
03-Mar-20	6.9	53.6	22.9	-----	-----	83
04-Mar-20	15.8	66.3	33.0	-----	-----	115
05-Mar-20	32.9	65.2	30.5	-----	-----	129
06-Mar-20	13.1	74.6	41.5	-----	-----	129
07-Mar-20	4.4	22.5	19.1	-----	-----	46
08-Mar-20	12.8	35.6	19.2	-----	-----	68
09-Mar-20	18.0	51.6	23.0	-----	-----	93
10-Mar-20	33.0	78.8	25.2	-----	-----	137
11-Mar-20	24.9	91.9	19.3	-----	-----	136
12-Mar-20	35.1	60.8	23.2	-----	-----	119
13-Mar-20	8.0	37.5	32.7	-----	-----	78
14-Mar-20	8.1	58.3	33.8	-----	-----	100
15-Mar-20	17.3	71.7	44.6	-----	-----	134
16-Mar-20	11.4	80.1	40.8	-----	-----	132
17-Mar-20	9.3	53.8	53.3	-----	-----	116
18-Mar-20	6.6	36.9	31.1	-----	-----	75
19-Mar-20	4.8	42.8	17.4	-----	-----	65
20-Mar-20	10.5	75.4	29.8	-----	-----	116
21-Mar-20	13.7	49.7	25.1	-----	-----	88
22-Mar-20	12.6	29.6	18.9	-----	-----	61
23-Mar-20	5.9	30.6	23.3	-----	-----	60
24-Mar-20	13.9	31.8	25.0	-----	-----	71
25-Mar-20	9.7	42.8	35.2	-----	-----	88
26-Mar-20	11.4	69.1	40.3	-----	-----	121
27-Mar-20	5.9	35.7	47.1	-----	-----	89
28-Mar-20	3.7	33.5	38.7	-----	-----	76
29-Mar-20	5.9	36.9	39.8	-----	-----	83
30-Mar-20	19.7	41.7	38.1	-----	-----	99
31-Mar-20	26.0	55.5	36.4	-----	-----	118
कुल TOTAL	445.5	1579.9	964.1	-----	-----	2989.5
उच्चतम MAXIMUM	35.1	91.9	53.3	-----	-----	137
निम्नतम MINIMUM	3.7	22.5	17.4	-----	-----	46
औसत AVERAGE	14.4	51.0	31.1	-----	-----	96
संचयी 2019-20 Cumulative 2019-20	6354.6	23845.8	27604.7	-----	-----	57805
अब तक का उच्चतम All Time Max.	71.3	199.3	245.5	467
दिनांक Date	14.07.19	27.07.19	20.07.18	12.06.18

***Source:** As reported by SLDCs. Limited visibility of embedded wind generator data.

8. राष्ट्रीय स्तर पर सौर ऊर्जा उत्पादन
SOLAR GENERATION AT NATIONAL LEVEL
माह: मार्च 2020 MONTH:- MARCH 2020

सभी आंकड़े मिलियन यूनिट में All figures in MU

दिनांक Date	उत्तरी क्षे. NR	पश्चिमी क्षे. WR	दक्षिणी क्षे. SR	पूर्वी क्षे. ER	पूर्वोत्तर क्षे. NER	कुल TOTAL
01-Mar-20	36	26	92	1	0.0	155
02-Mar-20	40	26	85	1	0.1	153
03-Mar-20	41	28	83	2	0.0	153
04-Mar-20	39	29	88	1	0.0	158
05-Mar-20	31	28	86	2	0.0	147
06-Mar-20	20	27	87	1	0.0	135
07-Mar-20	36	30	80	1	0.0	147
08-Mar-20	45	28	77	2	0.0	152
09-Mar-20	43	27	73	2	0.0	144
10-Mar-20	36	25	99	1	0.0	162
11-Mar-20	32	28	86	1	0.0	148
12-Mar-20	34	31	87	1	0.0	153
13-Mar-20	34	32	94	1	0.0	162
14-Mar-20	38	30	91	1	0.0	161
15-Mar-20	34	28	94	2	0.0	158
16-Mar-20	42	27	93	2	0.0	164
17-Mar-20	36	27	100	5	0.1	168
18-Mar-20	44	27	101	5	0.0	176
19-Mar-20	39	28	93	5	0.0	165
20-Mar-20	40	28	93	5	0.0	166
21-Mar-20	39	30	100	4	0.0	174
22-Mar-20	36	27	92	5	0.0	159
23-Mar-20	33	26	94	5	0.0	157
24-Mar-20	30	25	96	5	0.0	155
25-Mar-20	28	18	97	5	0.0	148
26-Mar-20	17	19	97	5	0.0	139
27-Mar-20	30	22	97	5	0.0	154
28-Mar-20	45	30	98	5	0.0	178
29-Mar-20	45	30	95	5	0.0	174
30-Mar-20	45	29	96	5	0.0	174
31-Mar-20	35	28	98	5	0.0	166
कुल TOTAL	1123	845	2840	94	1.1	4904
उच्चतम MAXIMUM	45	32	101	5	0.05	178
निम्नतम MINIMUM	17	18	73	1	0.02	135
औसत AVERAGE	36	27	92	3	0.04	158
संचयी 2019-20 Cumulative 2019-20	10205	7725	27538	697	13.3	46178
अब तक का उच्चतम All Time Max.	45	32	104	5	0.24	178
दिनांक Date	28.03.20	13.03.20	17.02.20	17.03.20	22.11.19	28.03.20

*Source: RLDCs for solar connected to ISTS; SLDCs for embedded solar. Limited visibility of embedded solar data.

९. राष्ट्रीय स्तर पर दैनिक अधिकतम विद्युत मांग पूर्ति
DAILY MAXIMUM DEMAND MET AT NATIONAL LEVEL

माह: मार्च 2020 MONTH:- MARCH 2020

सभी आंकड़े मेगावाट में All figures in MW

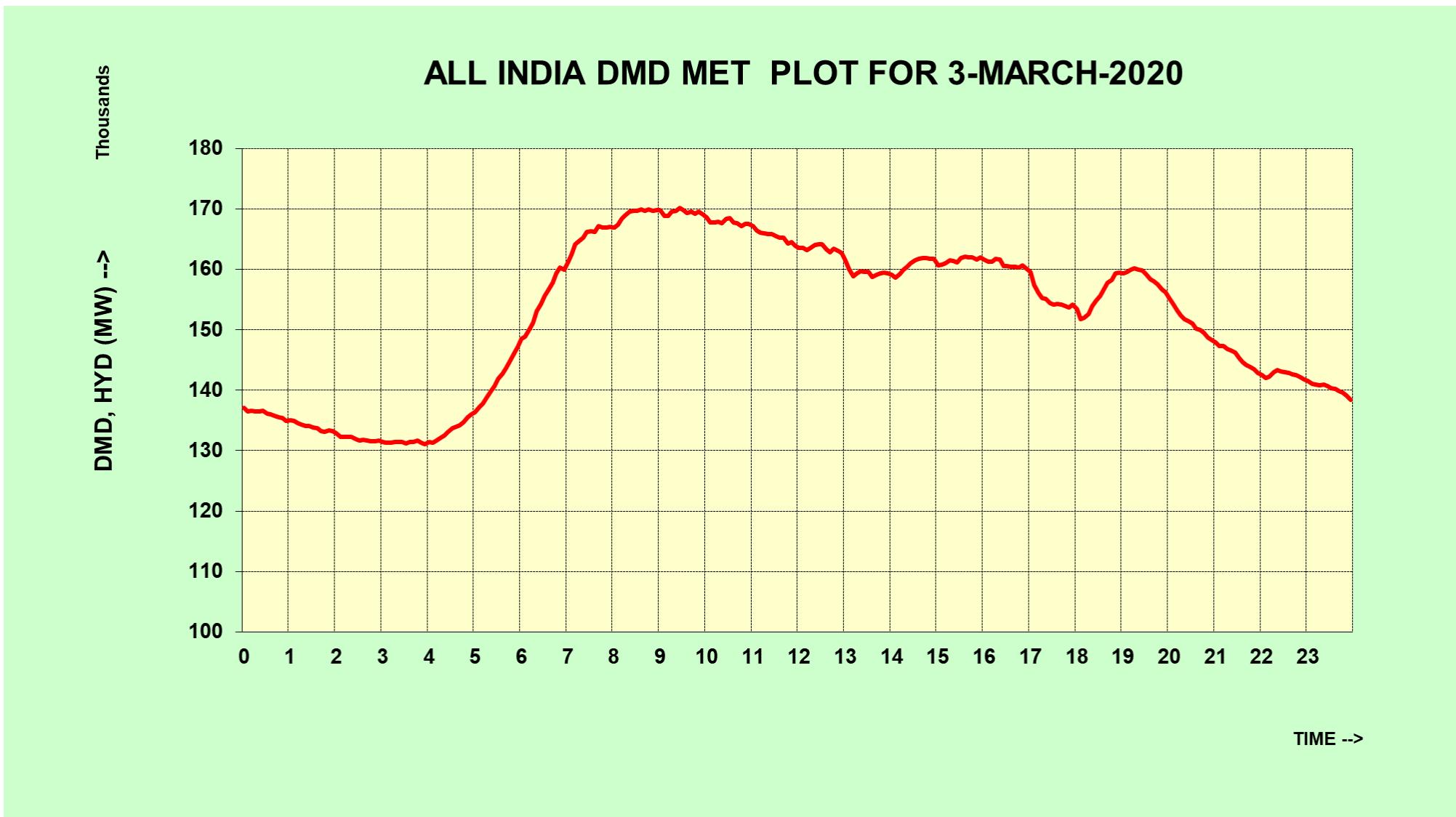
दिनांक Date	ऊतरी क्षे. NR	पश्चिमी क्षे. WR	दक्षिणी क्षे. SR	पूर्वी क्षे. ER	पूर्वोत्तर क्षे. NER	कुल TOTAL	विभिन्नता फैक्टर Diversity Factor*
01-Mar-20	40904	53751	48004	17386	2362	156933	1.035
02-Mar-20	44471	56177	51170	18061	2369	166819	1.033
03-Mar-20	45510	56883	51794	17928	2205	170170	1.024
04-Mar-20	45268	56260	52108	17124	2424	168894	1.025
05-Mar-20	42039	56840	53240	18060	2460	167385	1.031
06-Mar-20	37859	55994	51557	17373	2426	160825	1.027
07-Mar-20	41074	54570	50426	17650	2450	158892	1.046
08-Mar-20	39242	53362	47277	17153	2256	153458	1.038
09-Mar-20	39269	55264	50335	16885	2295	159231	1.030
10-Mar-20	34869	46894	49599	16148	2238	144098	1.039
11-Mar-20	36517	51299	52135	17737	2390	151412	1.057
12-Mar-20	40554	53335	53110	18474	2415	157715	1.065
13-Mar-20	39282	53728	52705	18648	2510	160136	1.042
14-Mar-20	39746	52361	51771	17362	2434	158672	1.032
15-Mar-20	38341	51426	48424	17785	2428	153058	1.035
16-Mar-20	40619	54336	52332	19080	2384	162783	1.037
17-Mar-20	42195	55308	52724	19266	2500	164409	1.046
18-Mar-20	42759	53408	53465	19432	2497	164440	1.043
19-Mar-20	42914	53319	52928	17750	2487	163703	1.035
20-Mar-20	42450	52842	52829	19001	2453	163729	1.036
21-Mar-20	41710	56086	51293	17463	2484	161746	1.045
22-Mar-20	34866	44797	44261	16499	2144	135202	1.054
23-Mar-20	37285	46640	49943	16360	2280	145495	1.048
24-Mar-20	33238	44566	46618	16430	2255	135937	1.053
25-Mar-20	33345	41100	43042	16519	2206	127968	1.064
26-Mar-20	32973	34841	42426	16830	2205	120312	1.075
27-Mar-20	27775	34030	41981	16728	2252	115232	1.065
28-Mar-20	31196	35593	42125	16912	2203	117761	1.087
29-Mar-20	32030	36181	42523	15935	2177	120184	1.072
30-Mar-20	32466	35844	43001	16183	2249	120790	1.074
31-Mar-20	32267	36473	42849	16827	2249	123088	1.062
उच्चतम MAXIMUM	45510	56883	53465	19432	2510	170170	1.087
निम्नतम MINIMUM	27775	34030	41981	15935	2144	115232	1.024
औसत AVERAGE	38227	49145	48968	17451	2345	149370	1.047
अब तक का उच्चतम All Time Max.	66687	59385	53465	23783	3145	182610	
दिनांक Date	03.07.19	21.02.20	18.03.20	14.06.19	07.09.19	30.05.19	

* Diversity factor = (Sum of regional max demands) / All India max demand

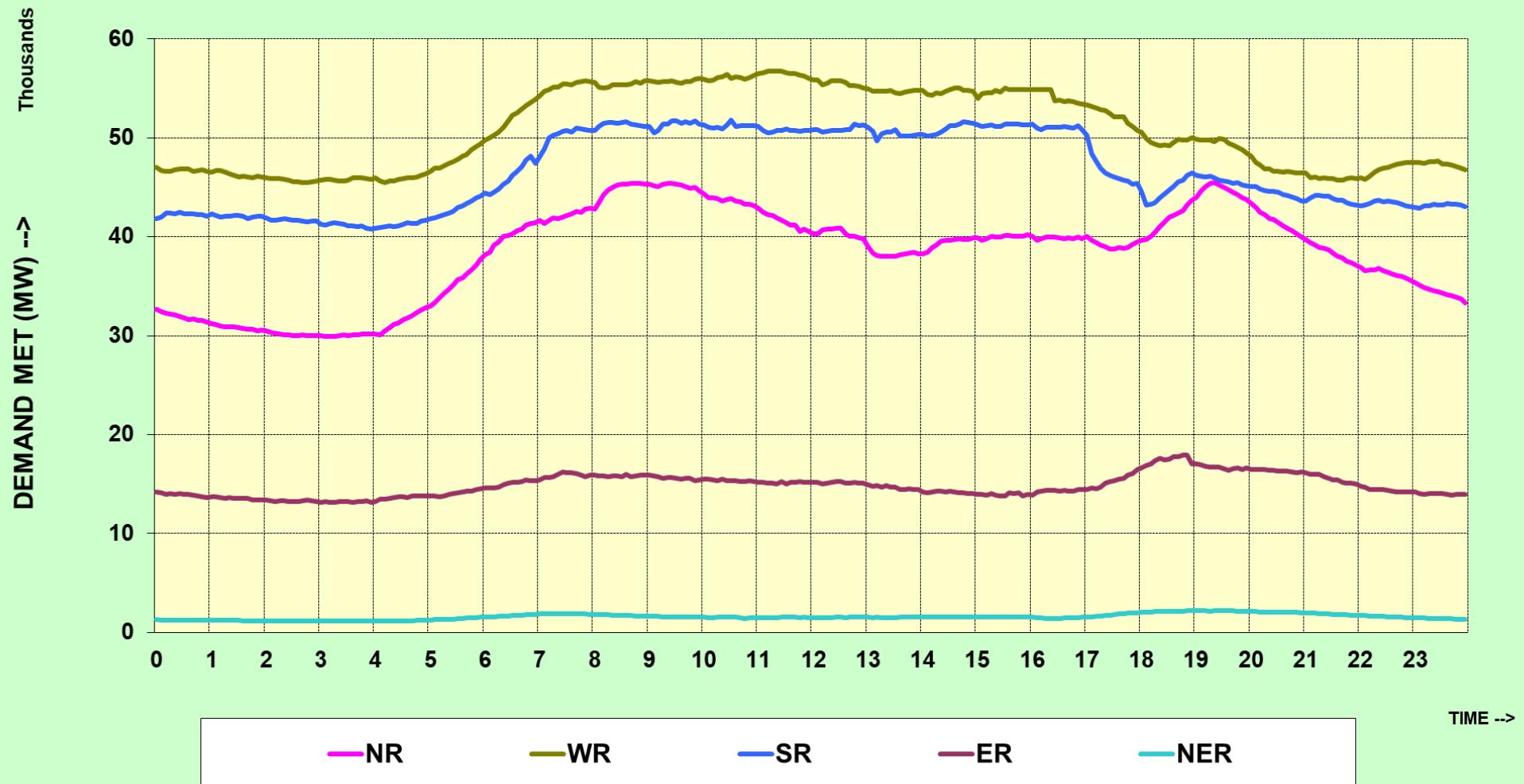
नोट : यह आंकड़े एनएलडीसी स्काडा प्रणाली में दर्ज दैनिक अधिकतम मांगपूर्ति दर्शाते हैं।

Note: The above figures denote daily maximum demand met recorded in NLDC SCADA.

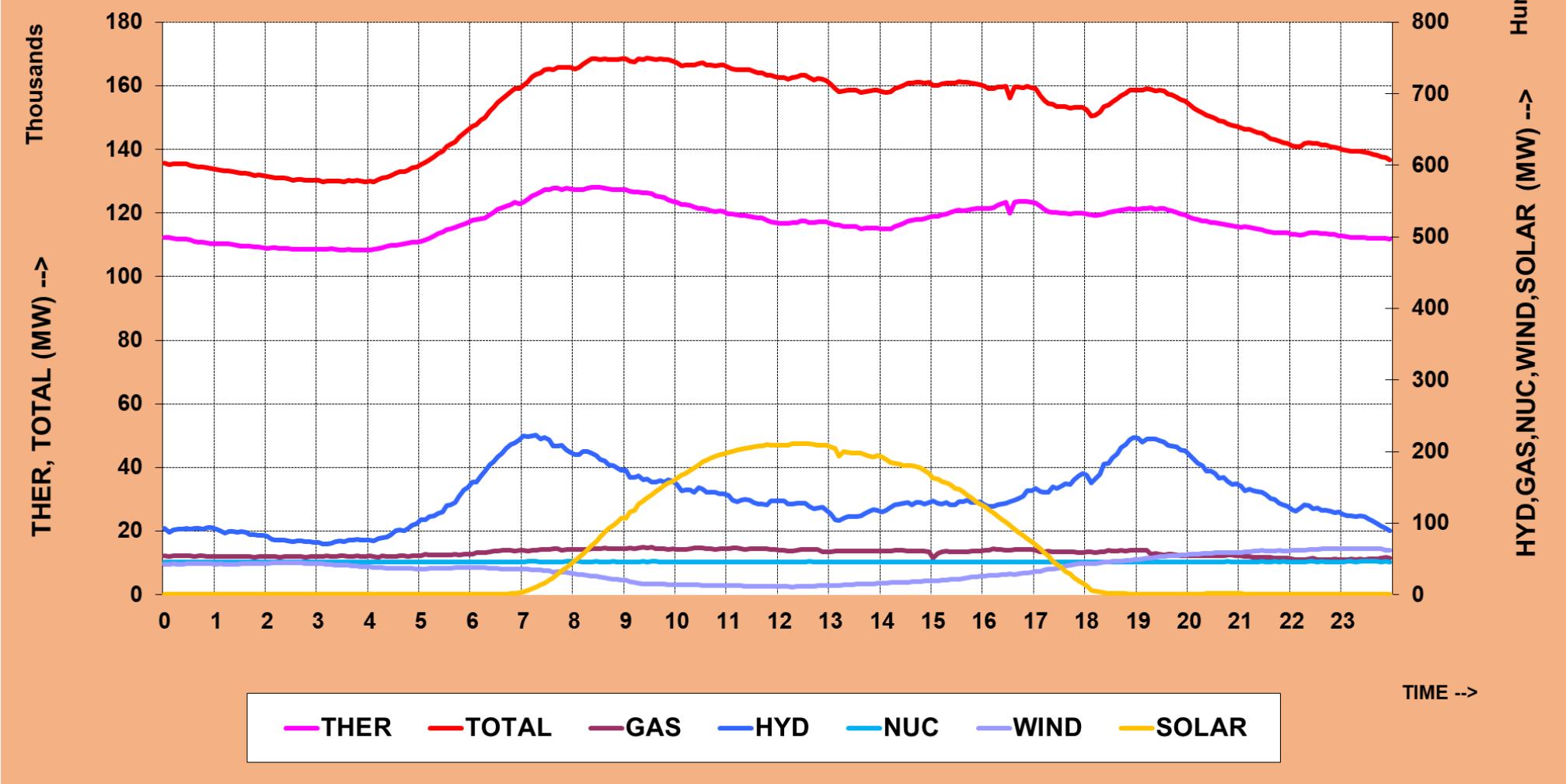
10. DEMAND AND GENERATION PLOTS FOR 03 MARCH (MAXIMUM DEMAND MET)



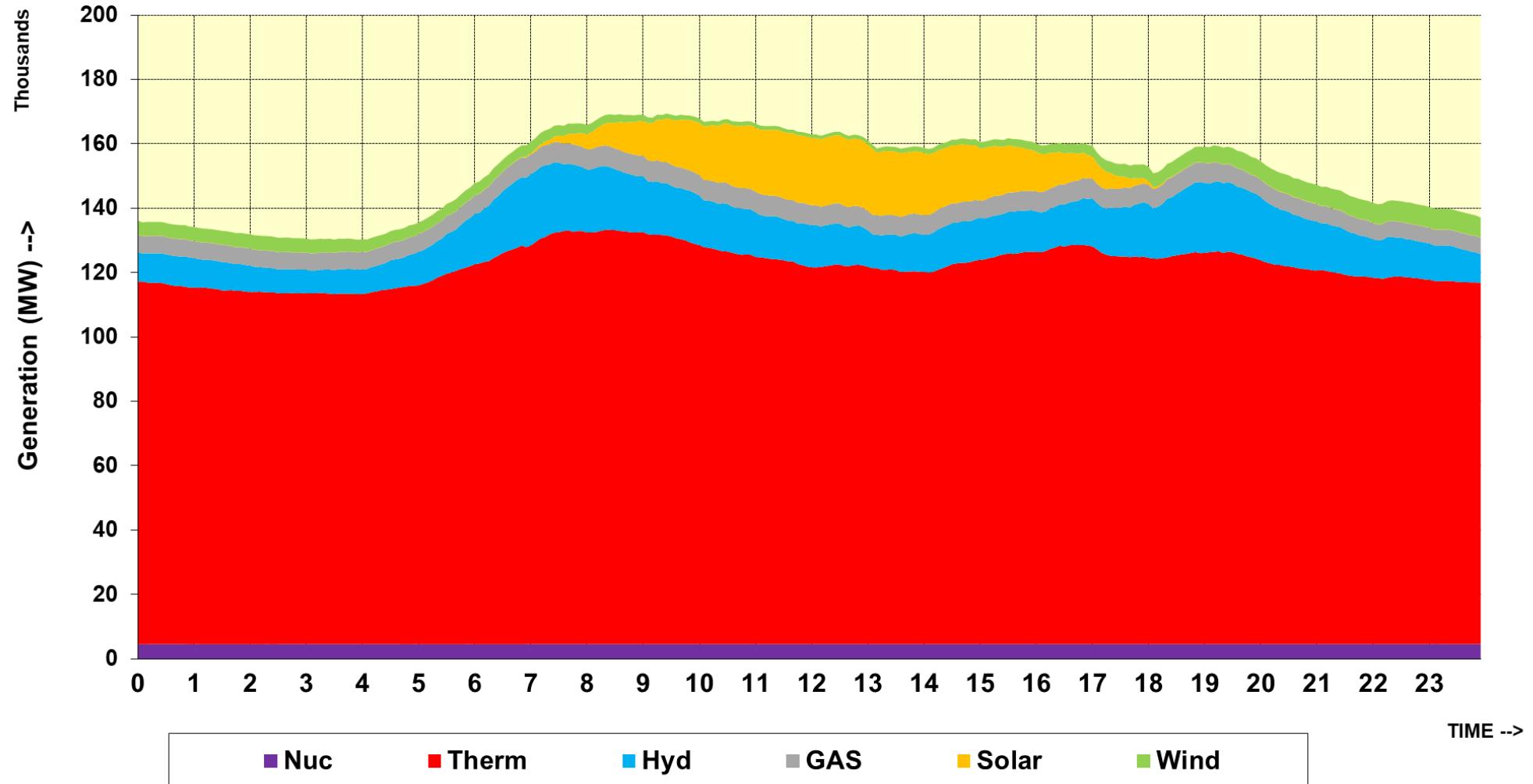
REGIONAL DMD MET PLOT FOR 3-MARCH-2020



ALL INDIA GENERATION PLOT FOR 3-MARCH-2020



All India Fuel-wise Generation Patterns for 3-MARCH-2020



03 मार्च 2020 (अधिकतम माँग) की आल इंडिया माँग आपूर्ति
INDIA DEMAND MET FOR 03 MARCH-2020 (MAXIMUM DEMAND*)

Time Block	All India Demand (MW)		Time Block	All India Demand (MW)
1	136492		49	163549
2	136513		50	164032
3	135986		51	163334
4	135442		52	163048
5	134888		53	160093
6	134136		54	159723
7	133711		55	158780
8	133370		56	159398
9	132340		57	158655
10	132229		58	160468
11	131770		59	161734
12	131614		60	161773
13	131311		61	160789
14	131390		62	161366
15	131458		63	162090
16	131350		64	161613
17	131295		65	161241
18	132576		66	161673
19	134007		67	160426
20	135487		68	160600
21	137233		69	157451
22	139859		70	155122
23	142756		71	154232
24	146160		72	153658
25	148833		73	151738
26	153093		74	153970
27	156602		75	156657
28	160259		76	159320
29	162505		77	159585
30	165231		78	159969
31	166237		79	158331
32	166947		80	156669
33	167342		81	154162
34	169513		82	151744
35	169954		83	150210
36	169640		84	148799
37	168803		85	147250
38	169671		86	146609
39	169262		87	144660
40	169504		88	143453
41	167720		89	141981
42	167680		90	143378
43	167752		91	142805
44	167470		92	142120
45	166450		93	141069
46	165882		94	140947
47	165173		95	140237
48	164487		96	139180

* 15 minute interval SCADA DATA

11. ACTUAL POWER SUPPLY POSITION - MARCH 2020

REGION	STATE	Requirement/Availability in MU/DAY			Requirement/Availability in MU				Peak Demand/Peak Met in MW			
		Requirement	Energy met	Surplus(+)/Deficit(-)	Requirement	Energy met	Surplus(+)/Deficit(-)	% Shortage	Requirement	Peak Demand Met	Surplus(+)/Deficit(-)	% Shortage
NR	Chandigarh	3	3	0.0	91	91	0	0.0	218	218	0	0.0
	Delhi	55	55	0.0	1693	1692	0	0.0	3776	3775	-1	0.0
	Haryana	92	92	0.0	2862	2862	0	0.0	6338	6338	0	0.0
	Himachal Pradesh	22	22	0.0	675	675	0	0.0	1656	1656	0	0.0
	J&K	60	48	-11.9	1866	1496	-370	-19.8	3006	2405	-601	-20.0
	Punjab	87	87	0.0	2707	2707	0	0.0	5775	5775	0	0.0
	Rajasthan	187	187	-0.1	5809	5806	-4	-0.1	13599	13599	0	0.0
	Uttar Pradesh	233	233	0.0	7226	7226	0	0.0	14592	14592	0	0.0
	Uttarakhand	28	28	0.0	856	856	0	0.0	1892	1892	0	0.0
	NFF/Railway	2	2	0.0	70	70	0	0.0	141	141	0	0.0
TOTAL		769	757	-12.1	23854	23480	-374	-1.6	46133	45531	-602	-1.3
WR	Gujarat	304	304	0.0	9418	9418	0	0.0	16816	16816	0	0.0
	Madhya Pradesh	199	199	-0.1	6160	6158	-2	0.0	12144	12144	0	0.0
	Chhattisgarh	80	80	0.0	2487	2487	0	0.0	3989	3989	0	0.0
	Maharashtra	440	440	0.0	13649	13649	0	0.0	24012	24012	0	0.0
	Goa	9	9	0.0	287	287	0	0.0	610	609	-1	-0.2
	D&D	6	6	0.0	172	172	0	0.0	343	343	0	0.0
	DNH	14	14	0.0	435	435	0	0.0	823	823	0	0.0
	ESIL	5	5	0.0	143	143	0	0.0	861	861	0	0.0
TOTAL		1057	1056	-0.1	32752	32750	-2	0.0	56851	56851	0	0.0
SR	Andhra Pradesh	186	186	0.0	5767	5767	0	0.0	10207	10207	0	0.0
	Telangana	230	230	0.1	7132	7133	2	0.0	12941	12941	0	0.0
	Karnataka	240	240	0.1	7436	7438	2	0.0	13258	13258	0	0.0
	Kerala	77	77	0.0	2381	2382	1	0.0	4182	4182	0	0.0
	Tamil Nadu	309	309	0.1	9583	9586	3	0.0	15591	15591	0	0.0
	Pondicherry	7	7	0.0	214	214	0	0.0	401	401	0	0.0
TOTAL		1049	1049	0.2	32514	32521	7	0.0	53672	53465	-207	-0.4
ER	Bihar	70	70	0.0	2167	2166	-1	-0.1	4251	4251	0	0.0
	Jharkhand	24	23	-0.1	729	725	-4	-0.5	1424	1305	-119	-8.4
	DVC	57	57	0.0	1774	1774	0	0.0	2900	2900	0	0.0
	Odisha	73	73	0.0	2272	2272	0	0.0	3870	3870	0	0.0
	West Bengal	124	124	-0.2	3834	3829	-6	-0.1	7097	7097	0	0.0
	Sikkim	2	2	0.0	48	48	0	0.0	173	173	0	0.0
TOTAL		349	349	-0.4	10824	10813	-11	-0.1	19399	19399	0	0.0
NER	Arunachal Pradesh	1	1	0.0	19	18	0	-1.7	154	128	-26	-16.9
	Assam	9	8	-0.7	267	246	-22	-8.0	1467	1430	-37	-2.5
	Manipur	1	1	0.0	19	19	0	-2.0	210	200	-10	-4.8
	Meghalaya	2	2	-0.1	71	67	-4	-6.1	343	343	0	0.0
	Mizoram	1	1	0.0	20	20	0	-1.2	111	111	0	0.0
	Nagaland	1	1	0.0	18	18	0	-1.8	157	142	-15	-9.6
	Tripura	4	4	0.0	135	135	0	0.0	252	252	0	0.0
TOTAL		18	17	-0.9	550	523	-27	-4.9	2694	2606	-88	-3.3
ALL INDIA		3242	3229	-13.1	100494	100088	-407	-0.4	178749	177852	-897	-0.5

12. ENERGY COMPARISON OF MARCH 2020 vs MARCH 2019											
REGION	STATE	Energy Requirement (MU)					Energy Met (MU)				
		Mar-19	Mar-20	Difference	% Change	Average MU/day for Mar-20	Mar-19	Mar-20	Difference	% Change	Average MU/day for Mar-20
NR	Chandigarh	96	91	-6	-6	3	96	91	-6	-6	3
	Delhi	1925	1693	-232	-12	55	1924	1692	-232	-12	55
	Haryana	3680	2862	-818	-22	92	3676	2862	-814	-22	92
	Himachal Pradesh	831	675	-156	-19	22	829	675	-154	-19	22
	J&K	1798	1866	68	4	60	1460	1496	36	2	48
	Punjab	3576	2707	-869	-24	87	3576	2707	-869	-24	87
	Rajasthan	6775	5809	-966	-14	187	6775	5806	-969	-14	187
	Uttar Pradesh	8650	7226	-1424	-16	233	8642	7226	-1416	-16	233
	Uttarakhand	1056	856	-201	-19	28	1056	856	-200	-19	28
	NFF/Railway	81	70	-11	-13	2	81	70	-11	-13	2
	TOTAL	28468	23854	-4614	-16	769	28115	23480	-4635	-16	757
WR	Gujarat	10355	9418	-937	-9	304	10351	9418	-933	-9	304
	Madhya Pradesh	6727	6160	-567	-8	199	6723	6158	-565	-8	199
	Chhattisgarh	2870	2487	-383	-13	80	2865	2487	-378	-13	80
	Maharashtra	14015	13649	-365	-3	440	14015	13649	-365	-3	440
	Goa	350	287	-63	-18	9	350	287	-63	-18	9
	D&D	219	172	-47	-22	6	219	172	-47	-22	6
	DNH	553	435	-118	-21	14	553	435	-118	-21	14
	ESIL	274	143	-131	-48	5	274	143	-131	-48	5
	TOTAL	35362	32752	-2611	-7	1057	35349	32750	-2600	-7	1056
SR	Andhra Pradesh	6072	5767	-305	-5	186	6071	5767	-304	-5	186
	Telangana	6930	7132	202	3	230	6929	7133	205	3	230
	Karnataka	7580	7436	-143	-2	240	7578	7438	-140	-2	240
	Kerala	2497	2381	-116	-5	77	2495	2382	-113	-5	77
	Tamil Nadu	10548	9583	-964	-9	309	10546	9586	-959	-9	309
	Pondicherry	251	214	-37	-15	7	251	214	-37	-15	7
	TOTAL	33878	32514	-1364	-4	1049	33869	32521	-1348	-4	1049
ER	Bihar	2321	2167	-153	-7	70	2315	2166	-149	-6	70
	Jharkhand	740	729	-11	-2	24	723	725	1	0	23
	DVC	2207	1774	-433	-20	57	2207	1774	-433	-20	57
	Odisha	2631	2272	-359	-14	73	2631	2272	-359	-14	73
	West Bengal	4466	3834	-632	-14	124	4453	3829	-625	-14	124
	Sikkim	47	48	1	1	2	47	48	1	1	2
	TOTAL	12412	10824	-1588	-13	349	12377	10813	-1564	-13	349
NER	Arunachal Pradesh	73	19	-54	-74	1	73	18	-54	-75	1
	Assam	690	267	-423	-61	9	688	246	-443	-64	8
	Manipur	77	19	-58	-75	1	77	19	-58	-75	1
	Meghalaya	187	71	-116	-62	2	187	67	-120	-64	2
	Mizoram	50	20	-29	-59	1	49	20	-28	-59	1
	Nagaland	66	18	-48	-72	1	65	18	-47	-72	1
	Tripura	179	135	-44	-24	4	178	135	-43	-24	4
	TOTAL	1322	550	-771	-58	18	1316	523	-793	-60	17
ALL INDIA		111441	100494	-10947	-10	3242	111027	100088	-10940	-10	3229

13. DEMAND COMPARISON OF MARCH 2020 vs MARCH 2019

REGION	STATE	Peak Requirement (MW)				Peak Met (MW)			
		Mar-19	Mar-20	Difference	% Change	Mar-19	Mar-20	Difference	% Change
NR	Chandigarh	223	218	-5	-2.2	223	218	-5	-2.2
	Delhi	4016	3776	-240	-6.0	4016	3775	-241	-6.0
	Haryana	6544	6338	-206	-3.1	6544	6338	-206	-3.1
	Himachal Pradesh	1683	1656	-27	-1.6	1683	1656	-27	-1.6
	J&K	2996	3006	10	0.3	2397	2405	8	0.3
	Punjab	6564	5775	-789	-12.0	6564	5775	-789	-12.0
	Rajasthan	11885	13599	1714	14.4	11885	13599	1714	14.4
	Uttar Pradesh	16220	14592	-1628	-10.0	16220	14592	-1628	-10.0
	Uttarakhand	2002	1892	-110	-5.5	2002	1892	-110	-5.5
	NFF/Railway	122	141	19	16.0	122	141	19	16.0
WR	Gujarat	16263	16816	553	3	16263	16816	553	3.4
	Madhya Pradesh	12327	12144	-183	-1	12323	12144	-179	-1.5
	Chhattisgarh	4444	3989	-455	-10	4430	3989	-441	-10.0
	Maharashtra	22361	24012	1651	7	22291	24012	1721	7.7
	Goa	538	610	72	13	538	609	71	13.3
	D&D	336	343	7	2.1	336	343	7	2.1
	DNH	799	823	24	3.0	799	823	24	3.0
	ESIL	910	861	-49	-5.4	910	861	-49	-5.4
SR	Andhra Pradesh	8984	10207	1223	13.6	8984	10207	1223	13.6
	Telangana	10505	12941	2436	23.2	10505	12941	2436	23.2
	Karnataka	12881	13258	378	2.9	12881	13258	378	2.9
	Kerala	4242	4182	-60	-1.4	4242	4182	-60	-1.4
	Tamil Nadu	16129	15591	-538	-3.3	16129	15591	-538	-3.3
	Pondicherry	412	401	-11	-2.6	412	401	-11	-2.7
ER	Bihar	4923	4251	-672	-13.7	4568	4251	-317	-6.9
	Jharkhand	1531	1424	-107	-7.0	1275	1305	30	2.4
	DVC	3165	2900	-265	-8.4	3165	2900	-265	-8.4
	Odisha	4655	3870	-785	-16.9	4655	3870	-785	-16.9
	West Bengal	8441	7097	-1344	-15.9	8199	7097	-1102	-13.4
	Sikkim	110	173	63	57.3	110	173	63	57.3
NER	Arunachal Pradesh	133	154	21	15.8	131	128	-3	-2.3
	Assam	1542	1467	-75	-4.9	1508	1430	-78	-5.2
	Manipur	203	210	7	3.7	199	200	1	0.7
	Meghalaya	357	343	-14	-3.9	357	343	-14	-3.9
	Mizoram	107	111	4	3.4	105	111	6	5.4
	Nagaland	127	157	30	23.5	125	142	17	13.5
	Tripura	250	252	2	0.8	249	252	3	1.2

14. SCHEDULE AND DRAWAL OF CONSTITUENTS - MARCH 2020

REGION	STATE	SCHEDULE (MU)	ACTUAL DRAWAL (MU)	Over drawal(+)/Under Drawal(-) (MU)	% OD/UD	SCHEDULE (MU/DAY)	ACTUAL DRAWAL (MU/DAY)	Over drawal(+)/Under Drawal(-) (MU/DAY)
NR	Chandigarh	95.45	93.09	-2.36	-2.47	3.08	3.00	-0.08
	Delhi	1299.25	1264.77	-34.48	-2.65	41.91	40.80	-1.11
	Haryana	2341.83	2351.79	9.96	0.43	75.54	75.86	0.32
	Himachal Pradesh	436.39	403.49	-32.90	-7.54	14.08	13.02	-1.06
	J&K	1193.32	1154.29	-39.03	-3.27	38.49	37.24	-1.26
	Punjab	1892.90	1865.10	-27.80	-1.47	61.06	60.16	-0.90
	Rajasthan	1536.91	1484.90	-52.02	-3.38	49.58	47.90	-1.68
	Uttar Pradesh	3381.23	3365.82	-15.41	-0.46	109.07	108.57	-0.50
	Uttarakhand	344.22	339.95	-4.27	-1.24	11.10	10.97	-0.14
	NFF/Railway	60.24	63.34	3.10	5.14	1.94	2.04	0.10
WR	Gujarat	2586.15	2675.47	89.32	3.45	83.42	86.31	2.88
	Madhya Pradesh	3158.39	3095.61	-62.78	-1.99	101.88	99.86	-2.03
	Maharashtra	4431.40	4393.48	-37.92	-0.86	142.95	141.73	-1.22
	Chhattisgarh	982.37	952.63	-29.74	-3.03	31.69	30.73	-0.96
	Goa	280.71	276.48	-4.23	-1.51	9.06	8.92	-0.14
	D&D	164.80	172.45	7.65	4.64	5.32	5.56	0.25
	D&NH	438.82	437.55	-1.27	-0.29	14.16	14.11	-0.04
	ESIL	140.49	142.62	2.13	1.52	4.53	4.60	0.07
SR	Andhra Pradesh	2668.86	2674.55	5.69	0.21	86.09	86.28	0.18
	Telangana	3944.23	3948.53	4.30	0.11	127.23	127.37	0.14
	Karnataka	2456.08	2458.10	2.02	0.08	79.23	79.29	0.07
	Kerala	1846.05	1885.03	38.98	2.11	59.55	60.81	1.26
	Tamil Nadu	5706.30	5705.77	-0.53	-0.01	184.07	184.06	-0.02
	Pondicherry	225.50	214.41	-11.09	-4.92	7.27	6.92	-0.36
	Goa (SR)	48.88	49.02	0.14	0.29	1.58	1.58	0.00
ER	Bihar	2056.75	2039.93	-16.82	-0.82	66.35	65.80	-0.54
	Jharkhand	468.84	458.10	-10.74	-2.29	15.12	14.78	-0.35
	DVC	-1036.06	-1022.38	13.68	-1.32	-33.42	-32.98	0.44
	Odisha	96.83	79.24	-17.59	-18.17	3.12	2.56	-0.57
	West Bengal	992.01	1021.51	29.50	2.97	32.00	32.95	0.95
	Sikkim	51.14	47.93	-3.21	-6.27	1.65	1.55	-0.10
NER	Arunachal Pradesh	15.59	15.42	-0.17	-1.11	0.50	0.50	-0.01
	Assam	141.42	143.19	1.78	1.26	4.56	4.62	0.06
	Manipur	21.28	20.96	-0.31	-1.47	0.69	0.68	-0.01
	Meghalaya	39.05	38.43	-0.62	-1.59	1.26	1.24	-0.02
	Mizoram	11.55	11.91	0.36	3.08	0.37	0.38	0.01
	Nagaland	14.61	14.92	0.32	2.17	0.47	0.48	0.01
	Tripura	12.23	11.10	-1.13	-9.24	0.39	0.36	-0.04

15. INTER REGIONAL EXCHANGES 2019-20
 (All figures in MU)

	Apr'19	May'19	June'19	July'19	Aug'19	Sep'19	Oct'19	Nov'19	Dec'19	Jan'20	Feb'20	Mar'20	Fin. Year 2019-20
Name of Line													
Import of NR from WR (WR-NR)													
WR - NR 765 kV Gwalior - Agra 2x5/C													
WR-NR 765 kV Gwalior - Phagi 2x5/C	1152.39	1244.91	1416.19	1297.61	1447.53	1311.86	1211.67	1090.46	1333.15	1350.43	1280.71	1057.23	15194.14
WR-NR 765 kV Gwalior-Orai D/C	470.99	631.50	646.70	611.93	537.61	678.68	597.27	605.94	649.85	622.97	707.66	535.26	7296.36
WR-NR 765 kV Satna-Orai	656.16	897.10	1027.49	1072.40	1063.24	975.66	1053.73	783.33	856.46	921.07	933.15	663.56	10700.35
WR-NR 765 kV Gwalior-Orai	815.18	906.34	895.23	862.62	866.64	892.99	891.91	813.80	889.42	875.54	833.21	788.50	10331.38
WR - NR HVDC Champa - Kurukshetra	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WR - NR HVDC VindhyaChal	569.10	815.03	1194.11	1055.41	1242.77	1017.24	600.32	570.13	819.77	1006.59	398.06	260.73	9549.26
WR - NR 400 kV Zerda Kankroli	1.11	2.86	13.95	42.93	1.76	48.23	0.00	0.00	41.17	37.68	47.08	7.90	244.67
WR - NR 400 kV Zerda Bhimtal	0.00	5.02	3.73	6.80	44.58	33.60	18.49	3.08	4.44	1.46	4.60	0.74	126.54
WR - NR 400 kV Zerda Bhimtal	5.65	16.43	5.33	11.37	50.94	69.01	74.84	31.47	54.25	60.20	50.46	7.43	437.38
WR - NR 400 kV RAPP C - Shujalpur D/C	59.58	41.48	91.68	100.54	105.67	147.75	79.35	13.79	29.46	27.46	72.92	19.80	789.48
WR - NR 220 kV Bhanpura - Ranpur	17.93	18.97	25.29	48.34	33.57	21.32	23.80	3.60	1.78	1.97	10.38	20.94	227.89
WR - NR 220 kV Bhanpura - Modak	34.44	39.16	47.10	62.86	44.21	39.69	36.58	10.66	38.31	26.71	34.62	43.63	457.97
WR - NR 220 kV Auraila - Malanpur/Mehgaon	0.00	5.00	4.62	4.53	3.92	5.17	3.72	0.00	0.00	0.00	0.00	0.00	26.96
WR - NR 400 kV VindhyaChal-Rihand D/C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WR - NR HVDC Mundra - Mohindergarh	925.79	1040.00	1160.33	1077.14	925.72	986.15	938.90	915.72	993.83	1234.61	1102.00	798.01	12098.20
WR-NR 765 kV Banasaka-Chittorgarh D/C	13.09	156.24	107.36	197.65	455.80	396.61	287.41	163.68	192.70	136.49	213.03	68.87	2388.93
Total WR - NR	4721.41	5820.04	6639.11	6452.13	6823.96	6623.96	5614.99	5005.66	5904.59	6303.18	5687.88	4272.60	69869.51
Export of NR to WR (NR-WR)													
NR - WR 765 kV Gwalior - Agra 2x5/C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NR - WR 765 kV Gwalior - Phagi 2x5/C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NR - WR 765 kV Jabalpur-Orai D/C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NR - WR 765 kV Satna-Orai	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
NR - WR 765 kV Gwalior-Orai	280.55	254.42	262.28	238.53	217.80	187.37	223.43	299.41	320.93	336.23	331.68	296.02	3248.65
NR - WR HVDC Champa - Kurukshetra	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NR - WR HVDC VindhyaChal	173.15	215.47	300.88	193.16	267.98	196.37	307.93	271.11	227.86	242.96	188.50	303.29	2888.66
NR - WR 400 kV Zerda Kankroli	78.46	33.35	31.33	25.34	1.63	0.00	1.81	16.48	16.92	17.90	7.43	69.17	299.82
NR - WR 400 kV Zerda Bhimtal	19.25	13.28	55.90	81.72	11.56	1.37	0.74	8.20	1.71	0.15	4.22	71.36	269.46
NR - WR 400 kV RAPP C - Shujalpur D/C	4.59	7.94	3.53	0.02	0.12	0.00	0.00	14.87	0.71	2.45	0.00	18.67	52.90
NR - WR 220 kV Bhanpura - Ranpur	1.29	4.19	0.24	0.00	0.00	0.00	0.00	18.62	11.79	4.15	5.21	0.04	45.53
NR - WR 220 kV Bhanpura - Modak	1.33	0.26	0.26	0.00	0.00	0.00	0.00	0.88	0.48	1.50	0.00	0.00	4.71
NR - WR 220 kV Auraila - Malanpur/Mehgaon	17.97	6.03	7.48	19.88	18.09	15.39	15.41	46.21	39.96	44.51	57.31	49.37	337.61
NR-WR 400 kV Rihand -VindhyaChal D/C	664.93	617.60	676.01	694.67	658.13	679.01	681.32	683.68	695.74	679.92	670.31	699.22	8100.54
NR - WR HVDC Mundra - Mohindergarh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NR - WR 765 kV Banasaka-Chittorgarh D/C	55.96	10.95	23.17	12.01	12.01	0.00	0.00	0.86	0.00	0.16	0.00	101.89	217.01
Total NR - WR	1297.48	1164.49	1361.08	1265.33	1187.32	1079.51	1230.64	1360.32	1316.10	1329.93	1264.66	1609.03	15465.89
Import of NR from ER (ER-NR)													
ER - NR 765 kV Sasaram - Fatehpur	96.69	43.72	16.45	9.45	1.57	20.21	17.63	159.05	176.90	100.46	62.33	50.37	754.83
ER - NR 765 kV Gaya - Varanasi 2*S/C	173.75	63.31	139.42	147.90	32.23	173.58	119.93	302.64	386.85	300.82	264.08	142.18	2246.69
ER - NR 765 kV Gaya - Balla	134.05	128.29	243.21	211.82	168.52	183.08	162.52	200.17	212.15	207.62	186.82	156.20	2194.45
ER - NR HVDC Alipunduar - Agra	0.00	428.84	387.93	1109.50	799.07	802.30	472.84	44.92	26.14	112.72	8.65	14.63	4207.54
ER-NR 400 kV Patna - Balla 2xD/C	421.79	418.86	504.99	385.02	316.11	500.32	475.40	565.22	529.00	436.19	303.54	302.65	5159.09
ER - NR 400 kV Muzaffarpur - Gorakhpur D/C	335.11	345.54	273.69	254.56	222.87	381.38	291.54	388.41	386.12	239.37	65.60	112.92	3297.11
ER - NR 400 kV Biharshariff - Balla D/C	167.78	210.21	199.78	149.39	115.15	143.46	105.23	152.15	217.50	153.20	128.67	78.96	1821.48
ER - NR 400 kV Mothari - Gorakhpur D/C	154.73	177.28	99.63	106.95	52.72	7.47	0.00	0.00	0.00	1.90	223.69	177.39	1001.76
ER - NR 400 kV Biharshariff - Varanasi D/C	7.75	31.63	19.22	16.22	3.26	30.27	6.64	85.75	131.47	51.46	18.39	15.34	417.40
ER - NR 400 kV Sasaram - Varanasi	45.60	53.96	144.07	163.55	162.58	131.51	131.90	118.49	109.92	171.49	178.33	170.27	1581.67
ER - NR 400 kV Sasaram - Allahabad	6.42	3.89	40.33	49.67	21.80	38.36	31.59	51.52	74.79	75.12	72.61	44.47	510.57
ER - NR 220 kV Pusaulli - Sahupuri	85.65	115.19	103.22	97.06	100.60	91.35	67.94	25.68	37.06	54.37	55.24	79.12	912.48
ER - NR 132 kV Sahupuri - Karamnasa	8.16	12.82	10.30	6.72	7.68	13.90	10.02	9.12	7.53	9.12	7.68	10.56	113.61
ER - NR 132 kV Rihand - Son Nagar	0.00	0.00	0.00	0.42	0.00	1.74	0.00	0.00	0.63	2.84	4.05	2.13	11.81
ER - NR 132 kV Rihand - Garhwa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total ER-NR	1637.48	2033.54	2182.24	2708.23	2004.16	2518.93	1893.18	2103.12	2296.06	1916.68	1579.68	1357.19	24230.49
Import of NR from NER (NER-NR)													
NER-NR HVDC Biswanath Chariali - Agra	0.00	234.57	355.35	589.31	476.16	417.67	356.57	44.21	0.00	11.83	11.83	11.83	2509.33
Total NER - NR	0.00	234.57	355.35	589.31	476.16	417.67	356.57	44.21	0.00	11.83	11.83	11.83	2509.33
Export of NR to ER (NR-ER)													
NR - ER 765 kV Sasaram - Fatehpur	0.00	7.18	55.51	75.74	111.33	34.47	18.68	0.00	0.00	0.00	-0.04	17.03	319.90
NR - ER 765 kV Gaya - Varanasi 2*S/C	0.00	4.02	4.02	6.52	40.29	0.33	4.93	0.00	0.00	0.00	0.00	3.37	63.48
NR - ER 765 kV Gaya - Balla	0.00	0.00	0.00	0.00	0.00	3.15	4.92	0.00	0.00	0.00	0.00	0.00	8.07
NR - ER HVDC Alipunduar - Agra	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NR - ER 400 kV Patna - Balla 2xD/C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NR - ER 400 kV Muzaffarpur - Gorakhpur D/C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NR - ER 400 kV Biharshariff - Balla D/C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.86	0.00	2.86
NR - ER 400 kV Biharshariff - Balla D/C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NR - ER 400 kV Mothari - Gorakhpur D/C	0.00	0.00	72.74	43.89	43.89	0.00	0.00	0.00</td					

	Apr'19	May'19	June'19	July'19	Aug'19	Sep'19	Oct'19	Nov'19	Dec'19	Jan'20	Feb'20	Mar'20	Fin. Year 2019-20
Name of Line													
Export of WR to ER (WR-ER)													
WR - ER 765 kV Ranchi - Dharamjaygarh 2x5/C	143.47	414.49	531.34	620.37	693.60	430.36	351.97	113.62	96.73	161.63	267.53	167.39	3992.49
WR - ER 765 kV Dharamjaygarh - Jharsuguda 2x0/D/C	1109.79	917.88	710.31	855.54	1006.25	630.39	751.20	469.00	369.09	586.38	767.38	911.51	9084.72
WR - ER 765 kV Durg - Jharsuguda D/C	33.81	63.62	92.00	150.48	197.41	113.80	64.77	4.54	5.43	21.70	31.88	10.38	789.82
WR - ER 400 kV Sipat - Ranchi D/C	62.33	135.52	194.02	236.74	244.30	149.20	124.22	45.62	45.29	64.58	88.38	65.53	1455.74
WR - ER 400 kV Raigarh - Jharsuguda 2x0/D/C	44.08	128.90	265.46	220.92	227.94	99.10	52.04	46.86	70.87	41.10	13.23	15.46	1225.95
WR - ER 220 kV Korba - Budhipadar D/C	85.09	75.06	95.91	115.29	109.13	50.22	52.66	33.05	63.27	79.31	38.37	55.66	853.02
WR - ER 220 kV Raigarh - Budhipadar	0.00	0.44	3.75	2.71	0.88	0.01	0.04	0.05	0.05	0.08	0.01	0.49	8.51
Total WR - ER	1478.57	1735.90	1892.80	2202.04	2479.51	1473.08	1396.91	712.73	650.73	954.77	1206.79	1226.41	17410.25
Import of WR from ER (ER - WR)													
ER - WR 765 kV Ranchi - Dharamjaygarh 2x5/C	15.17	0.45	0.01	0.65	0.00	0.76	2.68	45.32	69.87	20.42	1.98	24.93	182.23
ER - WR 765 kV Dharamjaygarh - Jharsuguda 2x0/D/C	0.00	0.00	0.01	0.24	0.00	0.01	0.00	3.26	20.88	3.59	0.00	0.00	28.00
ER - WR 765 kV Durg - Jharsuguda D/C	4.46	5.95	3.64	0.61	0.00	0.16	2.25	58.20	77.84	49.04	19.78	42.82	264.76
ER - WR 400 kV Sipat - Ranchi D/C	3.13	0.48	0.02	0.04	0.00	0.37	1.60	11.79	17.15	6.18	0.54	7.27	48.55
ER - WR 400 kV Raigarh - Jharsuguda 2x0/D/C	12.99	15.50	0.00	5.28	0.26	4.82	15.09	43.60	20.88	49.67	90.92	58.48	317.50
ER - WR 220 kV Korba - Budhipadar D/C	0.00	0.00	0.00	0.00	0.00	0.12	0.17	2.22	0.12	0.09	0.13	0.15	3.00
ER - WR 220 kV Raigarh - Budhipadar	54.42	33.65	12.73	17.60	25.25	45.65	20.76	37.55	46.50	36.47	4.94	36.62	372.12
Total WR - ER	90.17	56.03	16.40	24.42	25.51	51.90	42.55	201.94	253.23	165.46	118.28	170.26	1216.17
Export of ER to NER (ER - NER)													
ER - NER 400 kV Binaguri - Bongaigaon D/C	6.80	87.81	224.88	281.34	341.86	275.77	188.51	24.70	4.15	40.26	198.52	119.20	1793.82
ER - NER 400 kV Alipurduar - Bongaigaon D/C	3.63	2.09	52.15	6.83	129.06	107.81	114.35	15.63	0.77	9.70	289.31	171.17	902.50
ER - NER 220 kV Birpara - Salakati D/C	1.77	5.44	32.81	30.61	66.47	56.29	45.90	7.86	1.06	6.45	50.95	29.71	335.32
Total ER - NER	12.20	95.34	309.84	318.79	537.39	439.87	348.76	48.20	5.97	56.40	538.79	320.07	3031.64
Import of ER from NER (NER - ER)													
NER - ER 400 kV Binaguri - Bongaigaon D/C	151.73	36.29	0.00	0.00	0.00	0.15	0.93	101.48	114.73	39.32	11.40	25.99	482.01
NER - ER 400 kV Alipurduar - Bongaigaon D/C	185.50	187.26	18.21	140.88	16.67	24.71	13.63	103.79	133.88	77.55	17.71	34.84	954.64
NER - ER 220 kV Birpara - Salakati D/C	32.54	12.53	0.05	0.67	0.00	0.04	0.03	14.25	20.63	9.98	3.42	7.81	101.95
Total NER - ER	369.77	236.08	18.26	141.55	16.67	24.90	14.59	219.53	269.24	126.85	32.52	68.65	1538.61
Export of ER to SR (ER - SR)													
ER - SR HVDC Gauwaka	438.03	420.15	332.54	286.92	48.45	0.00	298.60	376.35	390.42	433.67	406.99	474.40	3906.52
ER - SR HVDC Talchar - Kolar	1496.40	1275.81	947.36	1041.06	539.22	602.97	876.30	1164.91	1313.11	1223.73	1297.03	1436.13	13214.03
ER - SR 765 kV Angul - Srikakulam D/C	1104.20	920.55	726.76	628.85	743.92	708.97	873.24	1024.74	1120.66	1306.09	1501.57	1900.50	12560.06
Total ER - SR	3038.63	2616.51	2006.67	1956.83	1331.59	1311.94	2048.14	2566.00	2824.20	2963.50	3205.59	3811.04	29680.62
Import of ER from SR (SR - ER)													
SR - ER HVDC Gauwaka	0.00	0.00	0.00	0.00	213.51	224.91	33.60	0.00	0.00	0.00	0.00	0.00	472.01
SR - ER HVDC Talchar - Kolar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SR - ER 765 kV Angul - Srikakulam D/C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total SR - ER	0.00	0.00	0.00	0.00	213.51	224.91	33.60	0.00	0.00	0.00	0.00	0.00	472.01
Export of WR to SR (WR-SR)													
WR - SR HVDC Bhadravati	413.36	633.02	337.28	286.71	182.70	97.17	240.81	417.28	412.44	515.96	540.06	630.03	4706.82
WR - SR 765 kV Sholapur - Raichur 2x5/C	1242.88	696.61	196.70	247.43	78.48	120.46	323.88	480.43	739.23	827.73	828.37	1362.16	7144.37
WR - SR 765 kV Wardha - Nizamabad D/C	1289.23	780.77	569.34	714.79	649.70	611.80	837.74	980.86	1254.52	1202.34	1325.92	1892.55	12109.55
WR - SR 400KV Kolhapur-Kudgi D/C	5.33	5.79	1.85	4.73	0.00	0.00	0	0.37	0.05	4.91	0.49	1.86	25.39
Total WR - SR	2950.79	2116.19	1105.16	1253.67	910.88	829.43	1402.42	1878.95	2406.24	2550.94	2694.85	3886.60	23986.13
Import of WR from SR (SR - WR)													
SR - WR HVDC Bhadravati	0.00	0.00	4.73	22.84	42.73	85.34	15.10	0.00	0.00	0.00	0.00	0.00	170.75
SR - WR 765 kV Raichur - Sholapur 2x5/C	0.39	6.50	136.76	137.07	315.69	209.29	62.06	55.52	15.89	18.04	18.59	0.00	975.79
SR - WR 765 kV Wardha - Nizamabad D/C	0.00	0.07	22.12	5.20	0.55	0.20	0.00	0.19	0.00	0.00	0.00	0.00	28.32
SR - WR 400KV Kolhapur-Kudgi D/C	159.61	241.80	364.59	387.21	531.75	425.94	328.62	312.32	322.13	208.96	329.34	298.82	3911.09
Total SR - WR	160.00	248.37	528.20	552.31	890.71	720.78	405.79	368.03	338.02	227.00	347.93	298.82	5085.95
TOTAL ALL INDIA	16234	16427	16602	17640	17209	15780	14868	14711	16583	16861	16949	17347	197211

Date	15.1 Import-Export of NR with WR during March 2020																
	Import of NR from WR (WR-NR)																
	WR - NR 765 kV Gwalior - Agra 2xS/C	WR-NR 765 kV Gwalior-Phagi 2xS/C	WR-NR 765 kV Jabalpur- Orai D/C	WR-NR 765 kV Satna- Orai	WR-NR 765 kV Gwalior-Orai	WR - NR HVDC Champa- Kurukshtera	WR - NR HVDC VindhyaChal	WR - NR 400 kV Zerda- Kankroli	WR - NR 400 kV Zerda- Bhinmal	WR-NR 400 kV RAPP C - Shujalpur D/C	WR - NR 220 kV Bhanpura- Ranpur	WR - NR 220 kV Bhanpura- Modak	WR - NR 220 kV Auraiya - Malanpur / Mehgaon	WR-NR 400 KV Rihand VindhyaChal D/C	WR - NR HVDC Mundra - M'garh	NR - WR 765 kV Banaskata - Chittorgarh D/C	Total WR - NR
1-Mar-20	36.57	18.48	17.38	25.18	0.00	6.30	0.00	0.00	0.00	0.26	0.08	1.09	0.00	0.00	28.46	3.30	137.10
2-Mar-20	43.34	22.80	30.47	29.16	0.00	6.19	2.28		1.91	1.68	0.30	1.22	0.00	0.00	28.46	8.00	175.81
3-Mar-20	37.95	19.75	26.92	27.75	0.00	16.70	0.22	0.00	3.16	0.00	0.50	1.42	0.00	0.00	31.13	9.10	174.60
4-Mar-20	40.09	20.32	27.66	29.82	0.00	12.76	0.00	0.74	0.84	0.00	0.61	1.53	0.00	0.00	33.67	6.73	174.77
5-Mar-20	38.22	15.60	22.59	27.04	0.00	6.71	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	31.71	2.04	144.91
6-Mar-20	28.24	12.07	15.47	24.78	0.00		0.00	0.00	0.00	3.22	0.36	1.25	0.00	0.00	26.81	0.00	112.20
7-Mar-20	35.70	20.73	23.83	27.76	0.00	2.60	0.00	0.00	0.00	0.00	0.48	1.53	0.00	0.00	26.65	0.00	139.28
8-Mar-20	38.74	19.23	24.34	28.11	0.00	0.26	0.00	0.00	0.00	0.29	0.96	1.92	0.00	0.00	28.63	0.00	142.48
9-Mar-20	39.02	18.15	23.00	28.39	0.00	11.61	0.00	0.00	0.00	0.00	1.03	1.73	0.00	0.00	26.65	0.60	150.18
10-Mar-20	31.50	10.43	19.09	24.94	0.00	6.31	0.00	0.00	0.00	0.00	0.35	0.92	0.00	0.00	22.70	4.14	120.38
11-Mar-20	26.94	12.84	15.06	22.55	0.00	11.56	0.00	0.00	0.00	0.00	0.86	1.38	0.00	0.00	29.16	5.01	125.36
12-Mar-20	35.16	23.84	21.36	25.08	0.00	9.14	0.00	0.00	0.00	1.56	1.19	1.77	0.00	0.00	26.70	6.98	152.78
13-Mar-20	30.60	22.00	23.55	24.93	0.00	25.18	0.00	0.00	0.00	2.07	1.37	1.79	0.00	0.00	26.65	1.88	160.02
14-Mar-20	27.66	20.29	19.20	22.73	0.00	25.74	0.00	0.00	0.00	2.07	0.97	1.63	0.00	0.00	26.66	1.64	148.59
15-Mar-20	34.49	18.53	21.82	23.98	0.00	6.91	0.00	0.00	0.00	2.07	1.11	1.50	0.00	0.00	26.66	4.33	141.40
16-Mar-20	39.41	21.77	27.08	25.78	0.00	8.22	1.11	0.00	0.01		0.98	1.70	0.00	0.00	26.66	5.90	158.62
17-Mar-20	39.14	19.96	25.68	26.02	0.00	10.35	2.41	0.00	0.00		1.20	1.80	0.00	0.00	26.67	0.93	154.16
18-Mar-20	39.03	18.36	24.27	26.66	0.00	10.36	1.88	0.00	0.00	0.00	0.95	1.66	0.00	0.00	26.66	0.00	149.83
19-Mar-20	40.29	17.61	26.06	28.46	0.00	6.38	0.00	0.00	1.17	0.00	0.88	1.66	0.00	0.00	26.65	2.80	151.96
20-Mar-20	40.44	18.06	29.83	28.41	0.00	7.64	0.00	0.00	0.34	0.81	1.14	1.84	0.00	0.00	26.55	5.49	160.55
21-Mar-20	39.23	18.88	25.93	27.41	0.00	15.76	0.00	0.00	0.00	1.48	0.98	1.60	0.00	0.00	26.65	0.00	157.92
22-Mar-20	30.00	12.41	19.88	23.50	0.00	9.30	0.00	0.00	0.00	2.07	0.72	1.05	0.00	0.00	26.65	0.00	125.58
23-Mar-20	36.40	20.45	24.60	26.37	0.00	7.09	0.00	0.00	0.00	0.00	1.13	1.68	0.00	0.00	26.65	0.00	144.37
24-Mar-20	34.72	16.76	22.15	25.79	0.00	11.39	0.00	0.00	0.00	1.17	0.91	1.43	0.00	0.00	26.65	0.00	140.97
25-Mar-20	32.92	11.26	18.47	23.40	0.00	3.98	0.00	0.00	0.00	0.65	1.03	1.38	0.00	0.00	26.65	0.00	119.74
26-Mar-20	33.53	12.91	20.62	23.26	0.00	3.57	0.00	0.00	0.00	0.40	0.76	1.10	0.00	0.00	21.90	0.00	118.05
27-Mar-20	25.62	12.11	13.01	21.64	0.00	4.14	0.00	0.00	0.00	0.00	0.09	0.74	0.00	0.00	21.83	0.00	99.18
28-Mar-20	23.05	12.95	11.54	21.37	0.00	3.63	0.00	0.00	0.00	0.00	0.59	0.00	0.00	0.00	21.83	0.00	94.96
29-Mar-20	20.61	14.23	10.45	21.25	0.00	3.65	0.00	0.00	0.00	0.00	0.99	0.00	0.00	0.00	20.96	0.00	92.14
30-Mar-20	26.97	15.09	14.41	21.96	0.00	3.66	0.00	0.00	0.00	0.00	1.27	0.00	0.00	0.00	12.17	0.00	95.53
31-Mar-20	31.65	17.39	17.84	25.02	0.00	3.64	0.00	0.00	0.00	0.00	1.46	0.00	0.00	0.00	12.18	0.00	109.18
Total	1057.23	535.26	663.56	788.50	0.00	260.73	7.90	0.74	7.43	19.80	20.94	43.63	0.00	0.00	798.01	68.87	4272.60

Date	15.1 Import-Export of NR with WR during March 2020																
	Export of NR to WR (NR- WR)																
	NR - WR 765 kV Gwalior - Agra 2xS/C	NR-WR 765 kV Gwalior- Phagi 2xS/C	NR-WR 765 kV Jabalpur- Orai D/C	NR-WR 765 kV Satna- Orai	NR-WR 765 kV Gwalior-Orai	NR - WR HVDC Champa-Kurukshtera	NR - WR HVDC VindhyaChal	NR - WR 400 kV Zerda- Kankroli	NR - WR 400 kV Zerda- Bhinmal	NR-WR 400 kV RAPP C Shujalpur D/C	WR - NR 220 kV Bhanpura - Ranpur	WR - NR 220 kV Bhanpura - Modak	NR - WR 220 kV Auraiya - Malanpur / Mehtaon	NR-WR 400 kV Rihand- VindhyaChal D/C	NR - WR HVDC Mundra - M'garh	NR - WR 765 kV Banaskata - Chittorgarh D/C	Total NR - WR
1-Mar-20	0.00	0.00	0.00	0.00	11.25	0.00	9.72	1.35	2.16	0.00	0.00	0.00	0.55	21.41	0.00	0.00	46.44
2-Mar-20	0.00	0.00	0.00	0.00	11.70	0.00	0.52		0.00	0.00	0.00	0.00	0.75	22.76	0.00	0.00	35.73
3-Mar-20	0.00	0.00	0.00	0.00	11.70	0.00	6.67	0.01	0.00	0.07	0.00	0.00	1.32	22.48	0.00	0.00	42.25
4-Mar-20	0.00	0.00	0.00	0.00	11.70	0.00	12.13	0.00	0.00	0.62	0.00	0.00	0.85	22.75	0.00	0.00	48.05
5-Mar-20	0.00	0.00	0.00	0.00	11.69	0.00	11.60	0.80	3.45	2.99	0.04	0.00	0.76	22.87	0.00	0.00	54.20
6-Mar-20	0.00	0.00	0.00	0.00	11.70		7.00	2.04	2.47	0.00	0.00	0.00	1.49	22.60	0.00	3.10	50.40
7-Mar-20	0.00	0.00	0.00	0.00	9.69	0.00	8.87	3.09	0.77	0.11	0.00	0.00	1.20	22.50	0.00	0.78	47.01
8-Mar-20	0.00	0.00	0.00	0.00	9.37	0.00	12.47	1.81	1.02	0.00	0.00	0.00	0.91	22.71	0.00	0.46	48.75
9-Mar-20	0.00	0.00	0.00	0.00	8.57	0.00	12.48	1.86	1.94	0.69	0.00	0.00	1.15	22.91	0.00	0.00	49.60
10-Mar-20	0.00	0.00	0.00	0.00	6.68	0.00	12.17	1.94	4.21	2.11	0.00	0.00	0.70	21.66	0.00	0.00	49.47
11-Mar-20	0.00	0.00	0.00	0.00	7.62	0.00	11.28	1.56	2.56	1.34	0.00	0.00	1.35	21.93	0.00	0.00	47.64
12-Mar-20	0.00	0.00	0.00	0.00	10.82	0.00	11.58	1.44	4.09	0.00	0.00	0.00	1.54	22.82	0.00	0.00	52.29
13-Mar-20	0.00	0.00	0.00	0.00	10.82	0.00	10.66	1.22	0.86	0.00	0.00	0.00	2.36	22.77	0.00	0.00	48.69
14-Mar-20	0.00	0.00	0.00	0.00	10.22	0.00	7.49	1.35	0.00	0.00	0.00	0.00	2.20	22.60	0.00	0.00	43.86
15-Mar-20	0.00	0.00	0.00	0.00	8.85	0.00	8.27	1.26	1.81	0.00	0.00	0.00	1.84	22.82	0.00	0.00	44.85
16-Mar-20	0.00	0.00	0.00	0.00	10.59	0.00	6.47	0.83	0.00		0.00	0.00	1.55	22.76	0.00	0.00	42.20
17-Mar-20	0.00	0.00	0.00	0.00	10.56	0.00	0.00	1.45	0.17		0.00	0.00	1.69	22.93	0.00	0.00	36.80
18-Mar-20	0.00	0.00	0.00	0.00	10.16	0.00	1.13	1.89	0.12	0.84	0.00	0.00	1.73	22.83	0.00	0.91	39.61
19-Mar-20	0.00	0.00	0.00	0.00	8.82	0.00	11.51	1.07	0.00	0.45	0.00	0.00	1.20	22.76	0.00	0.00	45.81
20-Mar-20	0.00	0.00	0.00	0.00	8.15	0.00	10.04	0.86	0.00	0.00	0.00	0.00	1.03	22.89	0.00	0.00	42.97
21-Mar-20	0.00	0.00	0.00	0.00	8.10	0.00	10.01	3.22	1.96	0.00	0.00	0.00	1.49	22.55	0.00	3.41	50.74
22-Mar-20	0.00	0.00	0.00	0.00	7.51	0.00	12.17	3.76	3.99	0.00	0.00	0.00	1.79	22.44	0.00	10.95	62.61
23-Mar-20	0.00	0.00	0.00	0.00	10.64	0.00	12.11	3.29	2.74	0.92	0.00	0.00	1.70	23.04	0.00	9.69	64.13
24-Mar-20	0.00	0.00	0.00	0.00	9.01	0.00	12.08	3.18	3.34	0.00	0.00	0.00	1.77	21.23	0.00	8.10	58.71
25-Mar-20	0.00	0.00	0.00	0.00	8.15	0.00	12.11	3.32	2.52	0.00	0.00	0.00	1.99	22.37	0.00	7.76	58.22
26-Mar-20	0.00	0.00	0.00	0.00	8.09	0.00	12.16	1.96	2.60	0.00	0.00	0.00	1.98	22.53	0.00	1.58	50.90
27-Mar-20	0.00	0.00	0.00	0.00	7.65	0.00	12.14	4.82	5.73	2.02	0.00	0.00	2.32	22.65	0.00	10.70	68.03
28-Mar-20	0.00	0.00	0.00	0.00	8.50	0.00	12.08	4.93	4.58	2.84		0.00	2.34	22.77	0.00	11.85	69.89
29-Mar-20	0.00	0.00	0.00	0.00	8.74	0.00	12.12	5.51	5.03	2.33		0.00	2.80	22.47	0.00	14.13	73.13
30-Mar-20	0.00	0.00	0.00	0.00	9.23	0.00	12.14	5.33	6.83	0.70		0.00	2.74	22.50	0.00	11.83	71.30
31-Mar-20	0.00	0.00	0.00	0.00	9.74	0.00	12.11	4.02	6.41	0.64		0.00	2.28	22.91	0.00	6.64	64.75
Total	0.00	0.00	0.00	0.00	296.02	0.00	303.29	69.17	71.36	18.67	0.04	0.00	49.37	699.22	0.00	101.89	1609.03

Date	15.2 Import-Export of NR with ER & NER during March 2020																	
	Import of NR from ER (ER-NR)													Import of NR from NER (NER-NR)				
	ER - NR 765 kV Sasaram - Fatehpur	ER - NR 765 kV Gaya - Varanasi 2*S/C	ER - NR 765 kV Gaya Balia	ER - NR HVDC Alipurduar - Agra	ER-NR 400 kV Patna - Balia 2xD/C	ER - NR 400 kV Muzaffarpur - Gorakhpur D/C	ER - NR 400 kV Biharshariff - Balia D/C	ER - NR 400 kV Motihari - Gorakhpur D/C	ER - NR 400 kV Biharshariff - Varanasi D/C	ER-NR 400 kV Sasaram - Allahabad	ER - NR 220 kV Pusauli - Sahupuri	ER - NR 132 kV Sahupuri - Karamnasa	ER - NR 132 kV Rihand - Son Nagar	NR - ER 132 kV Rihand - Garhwa	Total ER - NR	NER-NR HVDC Biswanath Chariali - Agra	Total NER-NR	
1-Mar-20	0.00	1.35	3.70		3.82	1.07	1.28	7.41	0.00	4.77	1.14	2.46		0.00	27.00	11.82	11.82	
2-Mar-20	0.58	4.97	5.19		6.34	1.39	2.65	9.65	0.00	4.97	1.41	2.61	0.96	0.00	40.72	11.50	11.50	
3-Mar-20	1.63	8.61	5.67		9.50	1.96	2.94	10.23	0.06	8.19	0.79	2.90	0.48	0.71		53.67	11.13	11.13
4-Mar-20	1.36	6.58	5.41		7.93	1.02	2.12	9.53	0.00	4.66	1.31	2.93	0.48		0.00	43.33	10.64	10.64
5-Mar-20	0.16	4.16	4.84		6.78	0.05	1.19	9.15	0.00	7.19	1.00	2.83	0.00	0.00		37.35	11.94	11.94
6-Mar-20	0.27	1.24	3.37		4.46	1.35	0.55	7.41	0.00	7.43	1.10	3.25		0.00		30.43	10.41	10.41
7-Mar-20	2.51	5.18	4.45		10.56	0.15	2.51	6.07	0.00	4.33	1.57	3.12		0.00		40.45	10.61	10.61
8-Mar-20	1.08	3.46	4.28		9.32	0.89	2.44	5.15	0.00	4.67	1.34	2.94	0.96	0.00		36.53	11.74	11.74
9-Mar-20	1.23	3.18	3.97	5.97	10.43	1.18	2.22	4.87	0.00	4.67	1.24	2.86	0.96	0.00		42.78	5.57	5.57
10-Mar-20	0.00	0.08	3.05		7.28	0.86	1.17	3.87	0.00	7.34	1.07	2.52	0.96	0.00		28.20	2.84	2.84
11-Mar-20	0.15	2.33	4.61	3.15	8.18	0.60	1.28	4.58	0.00	4.59	1.20	2.14			0.00	32.81	6.35	6.35
12-Mar-20	3.63	8.22	6.03	5.51	13.46	4.75	3.44	6.00	0.21	4.36	1.74	2.11			0.00	59.46	0.00	0.00
13-Mar-20	6.12	10.51	5.84		15.72	6.72	4.34	5.37	2.11	5.72	2.07	2.55			0.00	67.07	0.00	0.00
14-Mar-20	6.64	11.24	6.44		16.06	7.59	5.13	6.28	2.39	3.92	1.88	2.64	0.96		0.00	71.17	0.00	0.00
15-Mar-20	4.36	9.11	8.02		15.42	8.81	4.73	5.95	1.65	6.27	1.82	2.70	0.48		0.00	69.32	0.00	0.00
16-Mar-20	5.02	10.46	8.12		16.94	10.11	5.03	7.01	2.47	3.95	2.01	2.86	0.96	0.71		75.65	0.00	0.00
17-Mar-20	3.93	9.76	7.86		16.53	10.36	4.64	7.06	2.30	3.78	2.07	3.06		0.00		71.35	0.00	0.00
18-Mar-20	3.61	7.68	7.46		16.47	8.24	4.69	6.40	0.34	4.07	1.85	2.69	0.00	0.00		63.50	0.00	0.00
19-Mar-20	2.10	7.70	8.20		15.68	6.23	4.68	6.22	0.00	5.93	1.80	2.60	0.00	0.00		61.14	1.35	1.35
20-Mar-20	2.74	8.28	7.76		13.45	5.42	4.32	5.92	0.00	4.50	3.02	2.54		0.00		57.95	8.99	8.99
21-Mar-20	3.24	5.78	6.53		10.16	5.72	2.59	5.98	0.00	4.20	1.57	2.65	0.96	0.00		49.38	7.04	7.04
22-Mar-20	0.00	2.40	4.20		7.55	0.49	0.35	4.66	3.81	7.04	1.26	2.23	0.48	0.00	0.00	34.47	10.42	10.42
23-Mar-20		4.36	5.38		8.50	5.03	2.28	5.02	0.00	6.56	1.45	2.37			0.00	40.95	0.00	0.00
24-Mar-20	0.01	3.48	4.54		8.34	4.65	1.90	4.72	0.00	6.63	1.35	2.58		0.00		38.20	0.00	0.00
25-Mar-20	0.00	0.28	3.91		7.27	2.56	1.74	4.11	0.00	4.83	1.03	2.32		0.00		28.05	0.00	0.00
26-Mar-20	0.00	0.36	3.22		6.71	1.91	1.52	3.50	0.00	7.09	1.03	2.34	0.96		0.00	28.64	0.00	0.00
27-Mar-20	0.00	0.32	2.58		6.34	1.61	1.24	3.61	0.00	4.84	0.95	2.41	0.96	0.71		25.57	0.00	0.00
28-Mar-20	0.00	0.00	2.39		6.43	2.81	1.39	3.34	0.00	4.92	0.97	2.39	0.00	0.00		24.64	0.00	0.00
29-Mar-20	0.00	0.00	2.48		5.13	2.80	1.41	2.69	0.00	7.25	1.08	2.23	0.00	0.00		25.07	0.00	0.00
30-Mar-20	0.00	0.00	2.98		6.03	3.55	1.64	2.37	0.00	6.92	1.17	2.25	0.00	0.00		26.91	0.00	0.00
31-Mar-20	0.00	1.10	3.72		5.86	3.04	1.55	3.26	0.00	4.68	1.18	1.04	0.00	0.00		25.43	0.00	0.00
Total	50.37	142.18	156.20	14.63	302.65	112.92	78.96	177.39	15.34	170.27	44.47	79.12	10.56	2.13	0.00	1357.19	132.35	132.35

Date	15.2 Import-Export of NR with ER & NER during March 2020																				
	Export of NR to ER (NR-ER)													Export of NR to NER (NR-NER)							
	NR - ER 765 kV Sasaram - Fatehpur	NR - ER 765 kV Gaya - Varanasi 2*S/C	NR - ER 765 kV Gaya Balia	NR - ER HVDC Alipurduar - Agra	NR-ER 400 kV Patna - Balia 2xD/C	NR - ER 400 kV Muzaffarpur - Gorakhpur D/C	NR - ER 400 kV Biharshariff - Balia D/C	NR - ER 400 kV Motihari - Gorakhpur D/C	NR - ER 400 kV Biharshariff - Varanasi D/C	NR-ER 400 kV Sasaram - Varanasi	NR-ER 220 kV Sasaram - Allahabad	NR-ER 220 kV Pusauli - Sahupuri	NR - ER 132 kV Sahupuri - Karamnasa	NR - ER 132 kV Rihand - Son Nagar	NR - ER 132 kV Rihand - Garhwa	Total NR-ER	NR-NER HVDC Biswanath Chariali - Agra	Total NR-NER			
1-Mar-20	0.44	0.00	0.00		0.00	0.00	0.00	0.00	2.87	0.00	0.00	0.00		0.41	3.72	0.00	0.00				
2-Mar-20	0.00	0.00	0.00		0.00	0.00	0.00	0.00	1.61	0.00	0.00	0.00		0.39	2.00	0.00	0.00				
3-Mar-20	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00				
4-Mar-20	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.43	0.00	0.00	0.00	0.00		0.39	0.82	0.00	0.00			
5-Mar-20	0.00	0.00	0.00		0.00	0.00	0.00	0.00	1.86	0.00	0.00	0.00	0.48	0.26		2.60	0.00	0.00			
6-Mar-20	0.00	0.00	0.00		0.00	0.00	0.00	0.00	3.06	0.00	0.00	0.00		0.23		3.29	0.00	0.00			
7-Mar-20	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00		0.23		0.41	0.00	0.00			
8-Mar-20	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00	0.30		1.28	0.00	0.00			
9-Mar-20	0.00	0.00	0.00		0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.36		1.36	0.00	0.00			
10-Mar-20	1.94	0.00	0.00		0.00	0.00	0.00	0.00	2.55	0.00	0.00	0.00	0.00	0.35		4.84	0.00				
11-Mar-20	0.00	0.00	0.00		0.00	0.00	0.00	0.00	2.34	0.00	0.00	0.00		0.31	2.65	0.00					
12-Mar-20	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.35	0.35	6.54	6.54				
13-Mar-20	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.23	0.23	12.22	12.22				
14-Mar-20	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.25	0.25	11.67	11.67				
15-Mar-20	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.33	0.33	12.13	12.13				
16-Mar-20	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00	12.29	12.29			
17-Mar-20	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.48		0.48	11.90	11.90			
18-Mar-20	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.96	0.34		1.30	12.14	12.14		
19-Mar-20	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00		0.30		1.40	0.00	0.00			
20-Mar-20	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.83	0.00	0.00	0.00		0.32		1.15	0.00	0.00			
21-Mar-20	0.00	0.00	0.00		0.00	0.00	0.00	0.00	1.14	0.00	0.00	0.00		0.48	0.32		1.94	0.00	0.00		
22-Mar-20	0.96	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.34	0.23	1.53	0.65	0.65			
23-Mar-20	0.00	0.00	0.00		0.00	0.00	0.00	0.00	1.64	0.00	0.00	0.00		0.36	2.00	11.44	11.44				
24-Mar-20	0.00	0.00	0.00		0.00	0.00	0.00	0.00	2.15	0.00	0.00	0.00		0.39	2.54	12.37	12.37				
25-Mar-20	2.12	0.00	0.00		0.00	0.00	0.00	0.00	3.46	0.00	0.00	0.00		0.40	5.98	10.32	10.32				
26-Mar-20	1.59	0.00	0.00		0.00	0.00	0.00	0.00	2.89	0.00	0.00	0.00		0.40	4.88	12.11	12.11				
27-Mar-20	2.06	0.00	0.00		0.00	0.00	0.00	0.00	2.51	0.00	0.00	0.00		0.00		4.57	12.08	12.08			
28-Mar-20	2.58	1.50	0.00		0.00	0.00	0.00	0.00	3.16	0.00	0.00	0.00		0.36	8.08	11.33	11.33				
29-Mar-20	2.26	1.44	0.00		0.00	0.00	0.00	0.00	3.21	0.00	0.00	0.00		0.49		7.88	8.83	8.83			
30-Mar-20	1.98	0.43	0.00		0.00	0.00	0.00	0.00	2.83	0.00	0.00	0.00		0.96	0.43		6.63	11.68	11.68		
31-Mar-20	1.10	0.00	0.00		0.00	0.00	0.00	0.00	1.20	0.00	0.00	0.00		0.48		3.74	11.52	11.52			
Total	17.03	3.37	0.00	0.00	0.00	0.00	0.00	0.00	42.04	0.00	0.00	0.00		5.76	5.23	4.80	78.23	181.22	181.22		

Date	15.3 Import and Export of ER with WR & NER during March 2020																								
	Export of WR to ER (WR-ER)								Import of WR from ER (ER - WR)								Export of ER to NER (ER-NER)				Import of ER from NER (NER-ER)				
	WR - ER 765 kV Dharamjaya arh - Ranchi 2xS/C	WR - ER 765 kV Dharamjaya rh - Jharsuguda Q/C	WR - ER 765 kV Durg - Jharsuguda D/C	WR - ER 400 kV Sipat - Ranchi D/C	WR - ER 220 kV Korba - Budhipadar D/C	WR - ER 220 kV Raigarh - Budhipadar D/C	Total WR - ER	ER - WR 765 kV Dharamjaya arh - Jharsuguda 2xS/C	ER-WR 765 kV Durg - Jharsuguda D/C	ER - WR 400 kV Sipat - Ranchi D/C	ER - WR 400 kV Raigarh - Jharsuguda 2xD/C	ER - WR 220 kV Korba - Budhipadar D/C	ER - WR 220 kV Raigarh - Budhipadar D/C	Total ER - WR	ER - NER 400 kV Binaguri - Bongaigaon D/C	ER - NER 400 kV Alipurdur - Bongaigaon D/C	ER - NER 220 kV Birpara - Salakati D/C	Total ER - NER	NER - ER 400 kV Binaguri - Bongaigaon D/C	NER - ER 400 kV Alipurdur - Bongaigaon 2xD/C	NER - ER 220 kV Birpara - Salakati D/C	Total NER - ER			
1-Mar-20	9.1	31.1	0.2	2.8	0.1	2.3	0.0	45.66	0.0	0.0	1.2	0.0	3.0	0.0	0.8	5.09	7.01	10.87	1.83	19.71	0.00	0.00	0.00	0.00	
2-Mar-20	9.5	26.9	0.4	2.8	0.4	2.2	0.0	42.21	0.0	0.0	0.6	0.0	2.4	0.0	0.8	3.83	7.55	11.20	1.83	20.59	0.00	0.00	0.00	0.00	
3-Mar-20	4.2	31.5	0.4	1.1	0.0	1.9	0.0	39.01	0.6	0.0	0.4	0.4	4.9	0.0	1.4	7.79	7.95	12.26	2.03	22.24	0.00	0.00	0.00	0.00	
4-Mar-20	5.9	29.8	0.3	2.1	0.1	1.9	0.0	40.11	0.1	0.0	0.8	0.0	2.6	0.0	1.3	4.79	8.71	13.43	2.18	24.32	0.00	0.00	0.00	0.00	
5-Mar-20	7.2	33.0	0.9	2.8	0.4	2.2	0.0	46.50	0.1	0.0	0.5	0.0	1.3	0.0	0.8	2.83	8.73	13.49	2.17	24.39	0.00	0.00	0.00	0.00	
6-Mar-20	4.6	34.4	0.5	1.9	0.7	1.9	0.0	43.98	1.1	0.0	1.3	0.1	1.1	0.0	1.0	4.59	9.73	15.20	2.63	27.56	0.00	0.00	0.00	0.00	
7-Mar-20	2.2	30.9	0.1	0.9	0.1	0.4	0.1	34.66	1.5	0.0	2.4	0.5	3.3	0.1	0.8	8.69	10.26	15.95	2.72	28.92	0.00	0.00	0.00	0.00	
8-Mar-20	4.8	32.2	0.5	2.1	0.4	1.3	0.0	41.28	0.4	0.0	2.3	0.1	2.0	0.0	0.7	5.50	8.92	13.95	2.35	25.21	0.00	0.00	0.00	0.00	
9-Mar-20	3.5	32.3	0.3	2.0	1.0	1.9	0.0	41.00	0.8	0.0	1.5	0.1	0.8	0.0	1.0	4.26	7.02	8.20	1.71	16.93	0.00	0.00	0.00	0.00	
10-Mar-20	8.5	44.1	1.8	4.3	5.0	2.4	0.3	66.35	0.0	0.0	0.1	0.0	0.0	0.0	0.2	0.28	4.45	6.21	1.18	11.84	0.00	0.00	0.00	0.00	
11-Mar-20	4.3	39.7	0.4	2.1	1.7	1.7	0.1	49.91	0.1	0.0	0.6	0.0	0.5	0.0	0.6	1.86	7.40	8.79	1.83	18.01	0.00	0.00	0.00	0.00	
12-Mar-20	1.8	32.1	0.0	1.5	0.4	1.2	0.0	37.14	1.9	0.0	2.0	0.4	2.6	0.0	1.2	8.11	2.61	1.80	0.56	4.97	0.54	0.96	0.16	1.66	
13-Mar-20	0.5	22.1	0.0	0.5	0.4	0.7	0.0	24.23	5.6	0.0	3.5	1.6	2.0	0.0	0.2	12.92	0.11	0.11	0.06	0.27	1.81	2.77	0.55	5.13	
14-Mar-20	0.4	21.3	0.0	0.2	0.4	1.3	0.0	23.46	5.3	0.0	3.7	1.4	1.8	0.0	0.9	13.15	0.24	0.27	0.06	0.57	1.33	2.11	0.45	3.89	
15-Mar-20	3.0	20.7	0.0	1.2	0.0	1.4	0.0	26.20	1.2	0.0	3.3	0.4	2.0	0.0	0.9	7.74	0.14	0.15	0.04	0.33	1.54	2.20	0.53	4.27	
16-Mar-20	4.9	22.4	0.0	1.6	0.1	1.4	0.0	30.41	0.2	0.0	2.3	0.1	3.0	0.0	1.0	6.52	0.22	0.19	0.03	0.44	1.20	2.07	0.44	3.70	
17-Mar-20	3.5	25.6	0.0	1.1	0.0	1.7	0.0	31.85	0.5	0.0	2.2	0.3	4.0	0.0	1.5	8.49	0.21	0.14	0.05	0.41	1.25	1.99	0.49	3.73	
18-Mar-20	4.0	32.6	0.8	1.4	0.0	1.8	0.0	40.55	0.6	0.0	0.5	0.2	3.3	0.0	1.5	6.09	0.49	0.39	0.05	0.93	1.17	1.84	0.45	3.45	
19-Mar-20	7.2	32.7	1.1	2.7	0.5	2.1	0.0	46.27	0.0	0.0	0.1	0.0	1.5	0.0	1.0	2.65	5.63	7.71	1.26	14.60	0.95	1.45	0.34	2.74	
20-Mar-20	8.4	32.3	0.6	2.9	0.3	1.9	0.0	46.24	0.0	0.0	0.2	0.0	1.1	0.0	1.3	2.71	7.23	9.94	1.65	18.82	0.00	0.00	0.00	0.00	
21-Mar-20	4.5	25.6	0.0	1.9	0.1	2.5	0.0	34.62	0.1	0.0	1.6	0.0	1.0	0.0	1.1	3.78	6.23	8.59	1.39	16.20	0.00	0.00	0.00	0.00	
22-Mar-20	7.6	24.9	0.1	3.1	0.3	2.7	0.0	38.63	0.1	0.0	1.3	0.0	0.4	0.0	1.1	2.91	5.64	7.90	1.27	14.81	0.17	0.24	0.04	0.45	
23-Mar-20	6.4	26.7	0.0	2.7	0.1	2.6	0.0	38.43	0.1	0.0	1.7	0.0	1.5	0.0	1.3	4.62	0.02	0.01	0.00	0.03	1.94	2.96	0.67	5.57	
24-Mar-20	9.1	29.6	0.6	4.0	1.0	3.0	0.0	47.32	0.0	0.0	0.7	0.0	0.5	0.0	0.9	2.03	0.02	0.00	0.00	0.03	2.02	2.88	0.58	5.47	
25-Mar-20	10.1	29.4	0.8	3.8	1.0	2.1	0.0	47.38	0.0	0.0	0.4	0.0	0.2	0.0	1.8	2.44	0.13	0.13	0.02	0.28	1.44	1.95	0.51	3.90	
26-Mar-20	9.2	28.4	0.5	3.3	0.6	1.9	0.0	43.92	0.0	0.0	0.5	0.0	0.3	0.0	2.0	2.85	0.28	0.41	0.04	0.73	1.62	2.15	0.50	4.27	
27-Mar-20	5.2	28.7	0.0	1.9	0.0	1.8	0.0	37.60	0.5	0.0	1.1	0.1	1.5	0.0	2.1	5.22	0.33	0.47	0.10	0.90	1.49	1.91	0.44	3.84	
28-Mar-20	5.4	28.1	0.0	1.8	0.1	1.1	0.0	36.44	0.6	0.0	1.4	0.2	2.6	0.0	2.4	7.33	0.68	1.18	0.25	2.12	1.17	1.32	0.28	2.77	
29-Mar-20	4.4	30.8	0.1	1.5	0.0	1.0	0.0	37.80	1.5	0.0	1.3	0.6	3.2	0.0	1.6	8.28	0.85	1.61	0.26	2.72	1.40	1.56	0.30	3.26	
30-Mar-20	3.0	26.0	0.0	1.3	0.1	1.7	0.0	32.17	1.0	0.0	1.9	0.2	2.3	0.0	1.3	6.80	0.08	0.14	0.04	0.25	2.78	2.52	0.60	5.91	
31-Mar-20	5.1	25.7	0.0	2.3	0.1	1.8	0.0	35.08	0.9	0.0	1.6	0.2	1.6	0.0	1.9	6.11	0.36	0.48	0.10	0.94	2.18	1.97	0.48	4.63	
Total	167.39	911.51	10.38	65.53	15.46	55.66	0.49	1226.41	24.93	0.00	42.82	7.27	58.48	0.15	36.62	170.26	119.20	171.17	29.71	320.07	25.99	34.84	7.81	68.65	

Date	15.4 Import and Export of SR with ER & WR during March 2020																	
	Export of ER to SR (ER - SR)				Import of ER from SR (SR - ER)				Export of WR to SR (WR-SR)				Import of WR from SR (SR - WR)					
	ER - SR HVDC Gazuwaka	ER - SR HVDC Talchar -Kolar	ER-SR 765 kV Angul- Srikakulam D/C	Total ER - SR	SR - ER HVDC Gazuwaka	SR - ER HVDC Talchar -	SR-ER 765 kV Angul- Srikakulam D/C	Total SR - ER	WR - SR HVDC Bhadravati	WR - SR 765 kV Sholapur - Raichur 2x5/C	WR-SR 765 kV Wardha - Nizamabad D/C	WR-SR 400KV Kolhapur-Kudgi D/C	Total WR - SR	SR - WR HVDC Bhadravati	SR - WR 765 kV Raichur -Sholapur 2x5/C	SR-WR 765 kV Wardha - Nizamabad D/C	SR-WR 400KV Kolhapur-Kudgi D/C	Total SR - WR
1-Mar-20	16.21	36.04	59.85	112.10	0.00	0.00	0.00	0.00	12.03	43.00	59.61	0.00	114.64	0.00	0.00	0.00	10.66	10.66
2-Mar-20	16.21	52.56	63.45	132.23	0.00	0.00	0.00	0.00	12.04	43.91	56.71	0.00	112.65	0.00	0.00	0.00	13.55	13.55
3-Mar-20	14.33	49.37	66.34	130.04	0.00	0.00	0.00	0.00	12.04	46.19	70.06	0.00	128.29	0.00	0.00	0.00	12.29	12.29
4-Mar-20	14.17	51.61	65.57	131.34	0.00	0.00	0.00	0.00	12.32	47.05	68.15	0.00	127.52	0.00	0.00	0.00	12.53	12.53
5-Mar-20	15.46	50.81	63.25	129.52	0.00	0.00	0.00	0.00	13.05	48.84	67.71	0.00	129.59	0.00	0.00	0.00	13.93	13.93
6-Mar-20	16.18	49.96	63.86	130.01	0.00	0.00	0.00	0.00	19.26	49.73	66.51	0.00	135.49	0.00	0.00	0.00	12.84	12.84
7-Mar-20	16.16	44.70	62.96	123.82	0.00	0.00	0.00	0.00	23.79	45.14	61.75	0.00	130.68	0.00	0.00	0.00	11.50	11.50
8-Mar-20	15.61	49.85	61.82	127.28	0.00	0.00	0.00	0.00	21.16	43.58	57.27	0.00	122.01	0.00	0.00	0.00	10.74	10.74
9-Mar-20	15.93	48.49	65.76	130.18	0.00	0.00	0.00	0.00	20.47	53.61	61.17	0.00	135.24	0.00	0.00	0.00	7.77	7.77
10-Mar-20	15.92	49.95	56.49	122.36	0.00	0.00	0.00	0.00	22.37	53.79	60.90	0.00	137.06	0.00	0.00	0.00	6.02	6.02
11-Mar-20	15.93	48.73	62.50	127.16	0.00	0.00	0.00	0.00	23.78	52.38	65.28	0.03	141.47	0.00	0.00	0.00	8.76	8.76
12-Mar-20	15.93	51.26	67.45	134.64	0.00	0.00	0.00	0.00	20.89	45.75	66.99	0.00	133.63	0.00	0.00	0.00	11.07	11.07
13-Mar-20	15.93	46.79	68.81	131.53	0.00	0.00	0.00	0.00	23.95	43.98	63.63	0.00	131.56	0.00	0.00	0.00	10.08	10.08
14-Mar-20	15.92	46.90	67.28	130.10	0.00	0.00	0.00	0.00	23.79	42.85	60.21	0.00	126.86	0.00	0.00	0.00	11.40	11.40
15-Mar-20	15.92	46.69	60.30	122.91	0.00	0.00	0.00	0.00	23.64	36.01	53.29	0.00	112.94	0.00	0.00	0.00	11.57	11.57
16-Mar-20	15.92	48.81	63.65	128.38	0.00	0.00	0.00	0.00	23.64	43.39	60.19	0.00	127.21	0.00	0.00	0.00	8.57	8.57
17-Mar-20	13.69	49.70	62.18	125.57	0.00	0.00	0.00	0.00	23.79	40.97	62.44	0.00	127.20	0.00	0.00	0.00	10.26	10.26
18-Mar-20	8.69	51.51	67.93	128.13	0.00	0.00	0.00	0.00	20.84	48.39	70.36	0.00	139.58	0.00	0.00	0.00	13.76	13.76
19-Mar-20	15.23	49.69	62.12	127.04	0.00	0.00	0.00	0.00	23.84	49.73	69.14	0.00	142.70	0.00	0.00	0.00	12.86	12.86
20-Mar-20	16.02	50.07	63.13	129.22	0.00	0.00	0.00	0.00	23.84	51.50	68.98	0.00	144.32	0.00	0.00	0.00	11.59	11.59
21-Mar-20	15.74	49.18	67.47	132.39	0.00	0.00	0.00	0.00	23.85	48.20	67.56	0.00	139.60	0.00	0.00	0.00	12.33	12.33
22-Mar-20	16.04	28.60	57.98	102.61	0.00	0.00	0.00	0.00	15.57	46.24	62.57	0.00	124.38	0.00	0.00	0.00	6.87	6.87
23-Mar-20	15.98	46.15	65.96	128.09	0.00	0.00	0.00	0.00	22.87	46.29	66.66	0.00	135.83	0.00	0.00	0.00	8.28	8.28
24-Mar-20	15.97	46.56	55.95	118.48	0.00	0.00	0.00	0.00	23.70	38.02	54.91	0.00	116.63	0.00	0.00	0.00	8.70	8.70
25-Mar-20	15.97	33.13	51.08	100.19	0.00	0.00	0.00	0.00	17.85	35.10	50.61	0.00	103.56	0.00	0.00	0.00	8.65	8.65
26-Mar-20	15.97	39.05	52.25	107.28	0.00	0.00	0.00	0.00	16.69	37.07	51.16	0.00	104.92	0.00	0.00	0.00	7.82	7.82
27-Mar-20	15.96	46.01	52.72	114.70	0.00	0.00	0.00	0.00	21.24	33.60	52.35	0.00	107.19	0.00	0.00	0.00	7.97	7.97
28-Mar-20	15.97	40.91	54.01	110.89	0.00	0.00	0.00	0.00	20.92	34.39	52.09	0.18	107.59	0.00	0.00	0.00	4.42	4.42
29-Mar-20	15.98	48.02	56.76	120.76	0.00	0.00	0.00	0.00	23.35	37.12	57.09	0.93	118.49	0.00	0.00	0.00	3.74	3.74
30-Mar-20	15.50	40.94	55.93	112.37	0.00	0.00	0.00	0.00	20.60	38.92	55.03	0.45	115.01	0.00	0.00	0.00	4.01	4.01
31-Mar-20	9.97	44.07	55.68	109.72	0.00	0.00	0.00	0.00	22.87	37.43	52.18	0.27	112.76	0.00	0.00	0.00	4.30	4.30
TOTAL	474.40	1436.13	1900.50	3811.04	0.00	0.00	0.00	0.00	630.03	1362.16	1892.55	1.86	3886.60	0.00	0.00	0.00	298.82	298.82

16. भूटान , नेपाल, बांग्लादेश एवं म्यान्मार के साथ अंतरराष्ट्रीय विद्युत विनिमय
INTERNATIONAL EXCHANGE WITH BHUTAN, NEPAL BANGLADESH AND MYANMAR

अप्रैल 2019 से मार्च 2020 April 2019 to March 2020

अंतरराष्ट्रीय विद्युत विनिमय [भारत से दूसरे देश को आयात (+) / निर्यात (-)]

Transnational Exchange (Import=(+ve) /Export=(-ve))

माह MONTH	भूटान BHUTAN	नेपाल NEPAL	बांग्लादेश BANGLADESH	म्यान्मार MYANMAR
	Energy Exchange (In MU)	Energy Exchange (In MU)	Energy Exchange (In MU)	Energy Exchange (In MU)
अप्रैल 2019 APR'19	251.97	-245.98	-653.05	-0.55
मई 2019 MAY'19	359.06	-290.40	-773.73	-0.80
जून 2019 JUN'19	344.77	-268.05	-708.18	-0.77
जुलाई 2019 JUL'19	1133.10	-154.16	-770.87	-0.81
अगस्त 2019 AUG'19	1254.50	-182.20	-749.10	-0.82
सितंबर 2019 SEP'19	1271.03	-146.51	-750.18	-0.77
अक्टूबर 2019 OCT'19	896.60	-30.16	-725.53	-0.72
नवंबर 2019 NOV'19	345.26	-37.27	-469.52	-0.66
दिसम्बर 2019 DEC'19	185.79	-194.65	-275.21	-0.73
जनवरी 2020 JAN'20	123.70	-289.87	-292.78	-0.70
फरवरी 2020 FEB'20	56.96	-297.73	-355.30	-0.64
मार्च 2020 MAR'20	87.99	-236.08	-464.50	-0.64
कुल Total	6310.73	-2373.06	-6987.94	-8.61

* Based on daily operational data

Date	16.1 Import from neighbouring countries during March 2020 (All figures in MU)												
	Import from Bhutan							Import from Bangladesh		Import from Nepal			
	400 kV Tala-Binaguri I,II & IV	400 kV Binaguri-Malbase	220 kV Birpara-Chuka D/C	220 kV Birpara-Malbase	400 kV Jigmeling-Alipurduar D/C	132 kV Rangia-Motanga	132 kV Salakati-Gelephu	400 kV Behrampur-Bheramara D/C	132 kV Surjyamaninagar-Comilla D/C	132 kV Tanakpur-Mahendranagar	220 kV Muzaffarpur-Dhalkebar	From BIHAR Source	11 kV Moreh-Tamu
1-Mar-20	0.73	0.32	0.00	0.00	3.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2-Mar-20	0.88	0.44	0.00	0.00	1.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3-Mar-20	1.18	0.72	0.00	0.00	2.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4-Mar-20	0.91	0.43	0.00	0.00	2.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5-Mar-20	0.58	0.10	0.00	0.00	2.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6-Mar-20	0.61	0.17	0.00	0.00	2.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7-Mar-20	0.58	0.10	0.00	0.00	2.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8-Mar-20	0.76	0.32	0.00	0.00	2.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9-Mar-20	0.63	0.18	0.00	0.00	2.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10-Mar-20	0.76	0.36	0.31	0.00	2.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11-Mar-20	0.71	0.26	0.30	0.00	2.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12-Mar-20	1.08	0.66	0.52	0.00	2.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13-Mar-20	0.81	0.42	0.61	0.00	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14-Mar-20	1.02	0.61	0.67	0.00	2.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15-Mar-20	1.07	0.70	0.87	0.00	3.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16-Mar-20	1.03	0.65	0.77	0.00	2.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17-Mar-20	0.73	0.18	0.57	0.00	2.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18-Mar-20	0.74	0.31	0.55	0.00	2.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19-Mar-20	0.56	0.11	0.33	0.00	2.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20-Mar-20	0.70	0.27	0.35	0.00	2.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21-Mar-20	1.07	0.52	0.58	0.00	2.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22-Mar-20	0.90	0.45	0.00	0.00	2.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23-Mar-20	0.71	0.34	0.28	0.00	2.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24-Mar-20	1.05	0.65	1.02	0.00	2.64	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25-Mar-20	1.01	0.62	0.68	0.00	2.80	0.00	0.00	0.00	0.00	0.00	0.00	2.53	0.00
26-Mar-20	1.15	0.79	0.00	0.00	3.11	0.07	0.00	0.00	0.00	0.00	0.00	0.97	0.00
27-Mar-20	1.42	1.06	0.22	0.00	3.17	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28-Mar-20	2.25	1.67	0.73	0.00	3.75	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29-Mar-20	2.15	1.77	0.73	0.00	4.21	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30-Mar-20	2.11	1.74	0.63	0.00	4.18	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31-Mar-20	1.78	1.43	0.51	0.00	3.91	0.28	0.00	0.00	0.00	0.00	1.00	0.00	0.00
Total	31.66	18.35	11.21	0.00	81.81	1.09	0.00	0.00	0.00	0.00	1.00	3.50	0.00

*Based on SEM/Energy meter data for links where available

16.2 Export to neighbouring countries during March 2020

(All figures in MU)

Date	Export to neighbouring countries during March 2020												
	Export to Bhutan							Export to Bangladesh		Export to Nepal			
	400 kV Tala-Binaguri I,II & IV	400 kV Binaguri-Malbase	220 kV Birpara-Chuka D/C	220 kV Birpara-Malbase	400 kV Jigmeiling-Alipurduar D/C	132 kV Rangia-Motanga	132 kV Salakati-Gelephu	400 kV Behrampur-Bheramara D/C	132 kV Surjyamaninagar-Comilla D/C	132 kV Tanakpur-Mahendranagar	220 kV Muzaffarpur-Dhalkebar	From BIHAR Source	11 kV Moreh-Tamu
1-Mar-20	0.00	0.00	0.28	0.92	0.00	0.05	0.09	13.58	2.33	1.23	5.93	2.57	0.02
2-Mar-20	0.00	0.00	0.17	0.84	0.00	0.00	0.20	13.58	2.35	1.25	5.95	3.44	0.02
3-Mar-20	0.00	0.00	0.07	0.74	0.00	0.26	0.10	11.53	2.18	1.09	5.44	3.66	0.02
4-Mar-20	0.00	0.00	0.20	0.79	0.00	0.27	0.11	13.70	2.34	1.22	5.98	2.90	0.02
5-Mar-20	0.00	0.00	0.36	0.91	0.00	0.33	0.16	13.82	2.39	1.21	6.01	2.76	0.02
6-Mar-20	0.00	0.00	0.32	0.97	0.00	0.24	0.32	7.71	2.11	1.12	5.90	2.90	0.02
7-Mar-20	0.00	0.00	0.43	1.06	0.00	0.33	0.19	12.69	2.18	0.95	5.94	0.96	0.02
8-Mar-20	0.00	0.00	0.29	0.96	0.00	0.17	0.19	14.26	2.27	1.18	5.90	2.08	0.02
9-Mar-20	0.00	0.00	0.05	1.34	0.00	0.25	0.24	14.13	2.35	1.16	4.93	0.64	0.02
10-Mar-20	0.00	0.00	0.00	1.35	0.00	0.17	0.20	14.44	2.36	0.88	3.90	0.38	0.02
11-Mar-20	0.00	0.00	0.00	1.17	0.00	0.19	0.13	14.39	2.42	0.97	4.15	0.74	0.02
12-Mar-20	0.00	0.00	0.00	1.22	0.00	0.25	0.30	14.42	2.65	0.97	5.84	1.72	0.02
13-Mar-20	0.00	0.00	0.00	1.56	0.00	0.34	0.35	6.46	2.58	1.18	5.84	2.64	0.02
14-Mar-20	0.00	0.00	0.00	1.58	0.00	0.21	0.30	11.29	2.79	1.01	6.01	1.47	0.02
15-Mar-20	0.00	0.00	0.00	1.57	0.00	0.14	0.30	14.13	2.74	1.22	5.94	2.44	0.02
16-Mar-20	0.00	0.00	0.00	1.50	0.00	0.35	0.36	14.26	2.87	1.25	6.03	4.58	0.02
17-Mar-20	0.00	0.00	0.00	1.27	0.00	0.58	0.33	7.70	2.70	1.22	6.12	6.44	0.02
18-Mar-20	0.00	0.00	0.00	1.52	0.00	0.61	0.32	14.16	2.87	1.27	5.96	3.84	0.02
19-Mar-20	0.00	0.00	0.00	1.26	0.00	0.50	0.25	13.03	2.78	1.29	6.11	3.83	0.02
20-Mar-20	0.00	0.00	0.00	1.12	0.00	0.35	0.21	2.08	2.33	1.23	6.08	2.63	0.02
21-Mar-20	0.00	0.00	0.00	1.25	0.00	0.15	0.17	7.88	2.62	0.57	5.88	1.68	0.02
22-Mar-20	0.00	0.00	0.45	1.15	0.00	0.19	0.12	17.11	2.56	0.40	5.98	2.81	0.02
23-Mar-20	0.00	0.00	0.00	1.41	0.00	0.25	0.52	17.87	2.71	1.10	5.85	1.27	0.02
24-Mar-20	0.00	0.00	0.00	1.68	0.00	0.00	0.25	17.89	2.75	1.00	4.68	0.03	0.02
25-Mar-20	0.00	0.00	0.00	1.62	0.00	0.06	0.24	17.89	2.71	0.00	4.17	0.00	0.02
26-Mar-20	0.00	0.00	0.07	0.99	0.00	0.00	0.27	13.98	2.59	0.00	2.16	0.00	0.02
27-Mar-20	0.00	0.00	0.00	0.79	0.00	0.00	0.23	7.92	2.60	0.29	1.14	1.52	0.02
28-Mar-20	0.00	0.00	0.00	0.46	0.00	0.00	0.15	10.46	2.83	0.16	0.56	0.23	0.03
29-Mar-20	0.00	0.00	0.00	0.50	0.00	0.00	0.10	10.64	2.86	0.22	0.69	0.37	0.03
30-Mar-20	0.00	0.00	0.00	0.61	0.00	0.00	0.17	10.71	2.69	1.60	1.08	1.24	0.03
31-Mar-20	0.00	0.00	0.00	0.60	0.00	0.00	0.18	11.84	2.71	0.01	1.30	0.53	0.03
Total	0.00	0.00	2.68	34.70	0.00	6.24	7.05	385.56	79.23	28.26	147.47	62.25	0.72

*Based on SEM/Energy meter data for links where available

17. एसटीओए (द्विपक्षीय एवं सामूहिक) एवं डी एस एम बिलिंग का व्योरा – माह मार्च 2020

STOA (BILATERAL AND COLLECTIVE) & DSM BILLING DETAILS - MARCH 2020

द्विपक्षीय एसटीओए BILATERAL SHORT TERM OPEN ACCESS

मार्च 2020 MARCH '2020			Apr-Mar'20	
क्षे.भा.प्रे.के. का नाम Name of RLDC	लेन – देनों की संख्या No. of Transactions	अनुमोदित ऊर्जा (मि.यु.) Energy Units Approved(MU)	लेन – देनों की संख्या No. of Transactions	अनुमोदित ऊर्जा (मि.यु.) Energy Approved (MU)
ऊ. क्षे. NR	411	505	11305	25191
प.क्षे. WR	119	628	2474	14117
द.क्षे. SR	275	2121	2324	15283
पू.क्षे. ER	73	597	2840	12422
पूर्वोत्तर क्षे. NER	73	184	461	1187
कुल TOTAL	951	4035	19404	68201

एसटीओए SHORT TERM OPEN ACCESS

	सामूहिक एसटीओए Collective STOA			द्विपक्षीय एसटीओए Bilateral STOA
माह MONTH	क्रेताओं / विक्रेताओं की स. NO. of Buyers/Sellers	अनुमोदित ऊर्जा (मि.यु.) Approved Energy (MU)	क्रेताओं / विक्रेताओं की स. NO. of Buyers/Sellers	अनुमोदित ऊर्जा (मि.यु.) Approved Energy (MU)
अप्रैल 2019 Apr'19	2777	4037	1415	6401
मई 2019 May'19	2961	3774	1614	5827
जून 2019 Jun'19	2892	4207	1724	5941
जुलाई 2019 Jul'19	2907	4801	2797	7781
अगस्त 2019 Aug'19	2838	4675	2336	8486
सितंबर 2019 Sep'19	2768	3489	2282	8028
अक्टूबर 2019 Oct'19	2791	3401	1623	4749
नवंबर 2019 Nov'19	2705	3389	1236	4587
दिसम्बर 2019 Dec'19	3052	4334	1129	4505
जनवरी 2020 Jan'20	3063	4792	1129	4219
फरवरी 2020 Feb'20	2790	4290	1168	3642
मार्च 2020 Mar'20	2523	3971	951	4035
कुल TOTAL	31544	49160	19404	68201

मासिक डी एस एम बिलिंग का व्योरा 2019-20
MONTHLY DSM BILLING DETAILS 2019-20

अनंतिम आँकड़े
Provisional data
subject to change

करोड़ रु. मे (RS. IN CRORES)

क्षेत्र REGION	उत्तरी क्षेत्र NORTH	पश्चिमी क्षेत्र WEST	दक्षिणी क्षेत्र SOUTH	पूर्वी क्षेत्र EAST	पूर्वोत्तर क्षेत्र NORTH EAST
24.02.20 to 01.03.20	47.65	69.38	23.92	28.61	24.08
02.03.20 to 08.03.20	---	46.68	19.01	31.66	23.75
09.03.20 to 15.03.20	37.77	27.60	11.85	25.59	---
16.03.20 to 22.03.20	39.39	42.61	21.57	25.66	---
23.03.20 to 29.03.20	30.61	---	6.16	---	---

18. पावर मार्केट की सूचना (स्रोत : आई.ई.एम्स. एवं पी.एम्स.आई.एल.)

POWER MARKET INFORMATION (Source IEX & PXIL)

पावर एक्सचेंज के माध्यम से विनियम - माह मार्च 2020

EXCHANGES THROUGH POWER EXCHANGES - MARCH 2020

क्र. स. S. No.	क्षेत्रीय इकाई Regional Entity	क्षेत्र Region	पावर एक्सचेंज के माध्यम से (मि.गु. मे) Through Power Exchange in MU	
			विक्रय Sale	क्रय Purchase
1	पंजाब Punjab	उत्तरी क्षेत्र NR	0.00	91.29
2	हरियाणा Haryana		8.93	140.20
3	राजस्थान Rajasthan		218.35	99.37
4	दिल्ली Delhi		91.51	129.95
5	उत्तर प्रदेश Uttar Pradesh		346.05	61.34
6	उत्तराखण्ड Uttarakhand		80.39	29.11
7	हिमाचल प्रदेश Himachal Pradesh		232.83	37.23
8	जम्मू और कश्मीर J & K		0.28	206.47
9	केंद्र शासित चंडीगढ़ UT Chandigarh		27.26	0.36
10	ए डी हाइड्रो AD Hydro		12.52	0.00
11	कर्चम वांगतू KW		14.31	0.00
12	श्री सीमेट Shree Cement		0.03	0.00
13	नाथा झाकरी Nathpa Jhakri		20.44	0.00
14	बैरासूल Baira Siul HEP(BSO)		0.00	0.00
15	चमेरा -1 Chamera-I HEP(CM1)		0.00	0.00
16	चमेरा -2 Chamera-II HEP(CM2)		0.00	0.00
17	धौलिगंगा Dhauliganga HEP(DGO)		0.00	0.00
18	दुलहस्ती Dulahasti HEP(DUO)		0.00	0.00
19	सलाल Salal HEP(SL0)		0.00	0.00
20	सेवा -2 Sewa-II NHPC(SW2)		0.00	0.00
21	टनकपुर Tanakpur HEP(TPO)		0.00	0.00
22	उरी Uri HEP(URO)		0.00	0.00
23	लांको बुधिल LANCO Budhil		0.90	0.00
24	चमेरा-3 chamera 3		0.00	0.00
25	अदानी एचवीडीसी ADANI HVDC(NORGU0)		0.00	0.00
26	मलाना MALANA		0.00	0.00
27	उरी-II Uri-II HEP(UR2)		0.00	0.00
28	पार्बति-III Parbati-III		0.00	0.00
29	सिंगरौली Singrauli		0.49	0.00
30	दादरी-I Dadri stage-I		0.00	0.00
31	दादरी-II Dadri stage-II		0.00	0.00
32	ऊचाहार-I Unchahar-I TPS		0.00	0.00
33	ऊचाहार-II Unchahar-II TPS		0.00	0.00
34	ऊचाहार-III Unchahar-III TPS		0.00	0.00
35	रिहंद-I Rihand STPS-I		0.27	0.00
36	रिहंद-II Rihand STPS-II		0.16	0.00
37	रिहंद-III Rihand STPS-III		0.00	0.00
38	एफीसीपीएल झज्जर APCPL Jhajjar		0.00	0.00
39	सैंज Sainj HEP		10.59	0.00
40	दादरी गैस Dadri GPP		0.00	0.00
41	ओरिया गैस NTPC Auraiya		0.00	0.00
42	किशनगंगा Kishanganga HEP		0.00	0.00
43	अंता गैस NTPC Anta		0.00	0.00
44	रामपुर एचडीपी RAMPUR HEP		0.00	0.00
45	ऊचाहार-IV UNCHAHAR-IV		0.00	0.00
46	एनटीपीसी कोलडाम NTPC KOLDAM		0.00	0.00
47	कोटेश्वर Koteshwar		0.00	0.00

18. पावर माकेट की सूचना (स्रोत : आई.ई.एक्स. एवं पी.एक्स.आई.एल.)
 POWER MARKET INFORMATION (Source IEX & PXIL)
 पावर एक्सचेंज के माध्यम से विनियमय – माह मार्च 2020
 EXCHANGES THROUGH POWER EXCHANGES - MARCH 2020

क्र. स. S. No.	क्षेत्रीय इकाई Regional Entity	क्षेत्र Region	पावर एक्सचेंज के माध्यम से (मि.यु. मे) Through Power Exchange in MU	
			विक्रय Sale	क्रप्प Purchase
48	मध्य प्रदेश MP	पश्चिमी क्षेत्र WR	93.20	9.36
49	महाराष्ट्र Maharashtra		3.74	429.20
50	गुजरात Gujarat		47.03	548.81
51	छत्तीसगढ़ Chhattisgarh		180.99	5.72
52	गोवा Goa		27.41	10.28
53	दमन और दीव Daman and Diu		0.00	24.17
54	दादरा और नगर हवेली Dadra & Nagar Haveli		5.97	53.07
55	जिंदल Jindal		47.47	0.00
56	लांको अमरकंटक LANCO AMK		0.00	0.00
57	आर्यन कोल ACB India Limited		44.81	0.00
58	जिंदल स्टील एंड पावर Jindal Steel and Power Ltd		0.00	0.00
59	बालको -2 Balco-II		0.00	0.00
60	स्टरलाइट Sterlite(w3rse0)		0.00	0.00
61	एमको EMCO		0.00	0.00
62	वन्दना विद्युत VANDANA VIDYUT		0.00	0.00
63	ईस्सार पावर ESSAR POWER		16.56	0.00
64	ईस्सार स्टील ESSAR STEEL		0.00	18.28
65	के एस के महानदी KSK Mahanadi		0.00	0.00
66	जिंदल स्टेज-II Jindal Stg-II		81.75	0.00
67	कोरबा (प.) Korba(W) Comp. Ltd.		108.74	0.00
68	डी बी पावर DB Power		21.92	0.00
69	धारीवाल Dhariwal		0.00	0.00
70	जे पी निग्री Jaypee Nigire		14.69	0.00
71	जी एम आर छत्तीसगढ़ GMR Chhattisgarh		313.68	0.00
72	डी जीईएन मेगा पावर DGEN Mega Power		105.75	0.00
73	एम बी मेगा पावर MB Power		52.74	0.00
74	एपीएल मुंद्रा स्टेज-I APL Mundra Stg-I		0.00	0.00
75	एपीएल मुंद्रा स्टेज-II APL Mundra Stg-II		93.36	0.00
76	एपीएल मुंद्रा स्टेज-III APL Mundra Stg-III		18.18	0.00
77	टोरेंट सुगेन Torrent Sugen		38.38	0.00
78	मारुति कोल Maruti Coal		39.73	0.00
79	स्पेक्ट्रम Spectrum		55.04	0.00
80	झाबुआ पावर Jhabua Power		35.28	0.00
81	विंध्याचल-I Vindhyaachal Stg-I		0.63	0.00
82	विंध्याचल-II Vindhyaachal Stg-II		0.07	0.00
83	विंध्याचल-III Vindhyaachal Stg-III		0.49	0.00
84	विंध्याचल-IV Vindhyaachal Stg-IV		0.00	0.00
85	विंध्याचल-V Vindhyaachal Stg-V		1.51	0.00
86	मौदा-I Mouda STPS Stg-I		0.00	0.00
87	सीपत- I Sipat Stg-I		0.00	0.00
88	सीपत-II Sipat Stg-II		0.22	0.00
89	सासन Sasan UMPP		0.00	0.00
90	एनएसपीसीएल NSPCL		0.00	0.00
91	कोरबा-III Korba-III		16.86	0.00
92	टीआरएन इनर्जी TRN Energy		0.00	0.00
93	गंधार Gandhar		0.00	0.00
94	कोरबा I & II Korba Stage I & II		1.45	0.00
95	आरकेएस पावरजेन RKM Power Gen		0.00	0.00
96	कवास Kawas		0.00	0.00
97	मौदा-II Mouda STPS Stg-II		0.00	0.00
98	एसकेएस पावरजेन SKS Powergen		100.81	0.00
99	शोलापुर एसटीपीपी Sholapur STPP		0.00	0.00
100	रलागिरी गैस पावर प्राइवेट लिमिटेड RGPLL		0.00	0.00
101	गदरवाड़ा Gadarwara		0.00	0.00
102	लारा-II LARA-II		0.00	0.00

18. पावर मार्केट की सूचना (स्रोत : आई.ई.एक्स. एवं पी.एक्स.आई.एल.)

POWER MARKET INFORMATION (Source IEX & PXIL)

पावर एक्सचेंज के माध्यम से विनियम - माह मार्च 2020

EXCHANGES THROUGH POWER EXCHANGES - MARCH 2020

क्र. स. S. No.	क्षेत्रीय इकाई Regional Entity	क्षेत्र Region	पावर एक्सचेंज के माध्यम से (पि.गु. मे)	
			विक्रय Sale	क्रय Purchase
103	आंध्र प्रदेश Andhra Pradesh	दक्षिणी क्षेत्र SR	5.92	404.56
104	कर्नाटक Karnataka		19.75	76.57
105	केरल Kerala		2.56	40.91
106	तामिलनाडु Tamilnadu		8.34	297.02
107	पौण्डिचेरी Pondicherry		0.00	0.00
108	गोवा Goa		0.00	0.00
109	लांको कोडापल्ली LANCO_KONDPLY		0.00	0.00
110	सिमापुरी SIMAPURI		0.00	0.00
111	मोनाक्षी MINAXI		0.00	0.00
112	तेलंगाना TELANGANA		3.78	1134.30
113	थर्मल पॉवर टेक Thermal Power Tech		40.76	0.00
114	कॉस्टल इंरेजन Coastal Energen		0.00	0.00
115	आई एस & एफ ऐएस IL&FS		1.51	0.00
116	सिंहाद्री-II Simhadri Stg-II		0.00	0.00
117	एनएलसी-I विस्तार NLC TPS-I (Exp)		5.17	0.00
118	एनएलसी-II स्टेज-I NLC TPS-II Stg-I		8.65	0.00
119	एनएलसी-II स्टेज-II NLC TPS-II Stg-II		12.21	0.00
120	लांको कोडापल्ली स्टेज-III LANCO_KONDPLY STG III		0.00	0.00
121	रामागुण्डम-I Ramagundam Stg-I		1.18	0.00
122	तालचर-II Talcher Stg-II		0.03	0.00
123	रामागुण्डम-III Ramagundam Stg-III		0.00	0.00
124	एसजीपीएल Sembcorp Gayatri Pvt. Ltd.		75.55	0.00
125	एसटीइसेएल वल्लूर NTECL Vallur		0.00	0.00
126	कुडगी Kudgi		0.00	0.00
127	सिंहाद्री-I Simhadri Stg-I		0.00	0.00
128	एनएलसी टीपीएस-II एक्स्प्र NLC TPS-II EXP		0.27	0.00
129	एन टी पी एल NTPL		0.10	0.00
130	एस बी जी क्लीनेटेक SBG Cleantech		0.00	0.00
131	पश्चिम बंगाल West Bengal	पूर्वी क्षेत्र ER	14.86	12.89
132	ଓଡିଶା Odisha		374.83	38.29
133	बिहार Bihar		267.99	7.85
134	झारखण्ड Jharkhand		94.09	0.00
135	सिक्किम Sikkim		18.50	0.00
136	दामोदर घाटी पारियोजना DVC		0.77	0.00
137	स्टरलाइट STERLITE		0.00	0.00
138	मैथन पावर लिमिटेड Maithon P. Ltd		0.00	0.00
139	आधुनिक पा. लिमिटेड Adhunik P.Ltd		0.00	0.00
140	चुजाचेन Chuzachen HEP		1.49	0.00
141	रंगीत Rangit HEP		0.00	0.00
142	तीस्ता Teesta HEP		0.00	0.00
143	जोएमआर कमलंगा GMR Kamalanga		0.00	0.00
144	जिल्ड आई पी टी एल JIPTL		47.53	0.00
145	जोरथांग Jorethang		11.24	0.00
146	फरक्का-III Farakka-III		2.81	0.00
147	बाढ़-II Barh Stage-II		0.00	0.00
148	कहलगाँव-II Kahalaon Stage-II		0.13	0.00
149	फरक्का Farakka		0.01	0.00
150	कहलगाँव Kahalaon		0.05	0.00
151	तालचर Talcher		0.11	0.00
152	तीस्ता-III Teesta-III		136.50	0.00
153	दिक्खु Dikchu HEP		9.36	0.00
154	ताशीदिङ Tashiding HEP		9.15	0.00
155	बीआरबीसीएल BRBCL		0.00	0.00
156	केबीयूएनएल KBUNL		0.00	0.00
157	ओपीजीसी यूनिट-IV OPGC UNIT-IV		0.00	0.00
158	अरुणाचल प्रदेश Arunachal Pradesh	पूर्वोत्तर क्षेत्र NER	5.81	0.35
159	असम Assam		126.14	39.48
160	मणिपुर Manipur		8.09	1.39
161	मेघालय Meghalaya		0.00	20.36
162	मिजोरम Mizoram		8.98	0.00
163	नागालंड Nagaland		0.00	0.00
164	त्रिपुरा Tripura		13.19	3.10
165	अगरतला जोटीपोपी Agartala GTPP_AGO		0.00	0.00
166	कोपिली KOPILI_KP1		0.00	0.00
167	असम जीवीपीपी Assam GBPP_KTO		0.00	0.00
168	लोकटक LOKTAK		0.00	0.00
169	रंगानदी Ranganadi		0.00	0.00
170	दोयांग Doyang		0.00	0.00
171	पलाताना Palatana		0.05	0.00
172	कोपिली-II Kopili-II		0.00	0.00
173	खडगंग Khandong		0.00	0.00
174	बोंगाइराँग Bongaigaon TPP		0.00	0.00
175	पारे PARE		0.00	0.00
कुल Total			3971	3971

19. RENEWABLE ENERGY CERTIFICATE MECHANISM
MONTH : MARCH 2020

RE Source & Unit wise break up (01.03.2020-31.03.2020)

Sr.No	Source Wise	Accreditation		Registration	
		Capacity (MW)	Unit	Capacity (MW)	Unit
1	Wind	41	26	18	9
2	Urban or Municipal Waste	0	0	0	0
3	Solar Thermal	0	0	0	0
4	Solar PV	16	11	11	5
5	Small Hydro	24	1	0	0
6	Others	0	0	0	0
7	Geothermal	0	0	0	0
8	Biomass	0	0	4	1
9	Bio-fuel cogeneration	0	0	0	0
	Total	81	38	33	15

RECs Issued (01.03.2020-31.03.2020)

Sr.No.	Non Solar	Solar	Total
1	509354	31957	541311

Redemption of REC (01.03.2020-31.03.2020)

Sr.No.	Non Solar	Solar	Total
1	834202	24479	858681

19. RENEWABLE ENERGY CERTIFICATE MECHANISM

MONTH : MARCH 2020

RE Source & Unit wise break up (Apr-Mar'20)

Sr.No	Source Wise	Accreditation		Registration	
		Capacity (MW)	Unit	Capacity (MW)	Unit
1	Wind	616	87	557	73
2	Urban or Municipal Waste	0	0	0	0
3	Solar Thermal	0	0	0	0
4	Solar PV	225	80	222	68
5	Small Hydro	78	5	54	6
6	Others	3	1	3	1
7	Geothermal	0	0	0	0
8	Biomass	28	4	28	4
9	Bio-fuel cogeneration	122	14	119	14
	Total	1072	191	983	166

RECs Issued (Apr-Mar'20)

Sr.No.	Non Solar	Solar	Total
1	11887983	851571	12739554

Redemption of REC (Apr- Mar'20)

Sr.No.	Non Solar	Solar	Total
1	8151302	1063276	9214578

19. RENEWABLE ENERGY CERTIFICATE MECHANISM
MONTH : MARCH 2020

RE Source & Unit wise break up Since Inception to March'20

Sr.No	Source Wise	Accreditation		Registration	
		Capacity (MW)	Unit	Capacity (MW)	Unit
1	Wind	2700	497	2632	482
2	Urban or Municipal Waste	0	0	0	0
3	Solar Thermal	0	0	0	0
4	Solar PV	866	382	855	378
5	Small Hydro	298	39	250	37
6	Others	4	2	3	1
7	Geothermal	0	0	0	0
8	Biomass	480	44	420	40
9	Bio-fuel cogeneration	828	91	378	54
	Total	5176	1055	4538	992

RECs Issued since Inception to March'20

Sr.No.	Non Solar	Solar	Total
1	57031104	9583793	66614897

Redemption of REC since Inception to March'20

Sr.No.	Non Solar	Solar	Total
1	51345350	9536588	60881938

REC Closing balance as on 31.03.2020

Sr.No.	Non Solar	Solar	Total
1	5685754	47205	5732959

20. IMPORTANT GRID EVENTS /DISTURBANCES

Northern Region-Grid Event Report for March 2020

S.No.	Region	Name of Elements (Tripped/Manually opened)	Affected Area	Owner/ Agency	Outage		Revival		Duration	Event (As reported)	Generation Loss (MW)	Load Loss (MW)	Category as per CEA Grid Standards	Energy Unerved (in MW)
					Date	Time	Date	Time						
1	NR	1) 250 MW Nathpa-Jhakri HPS - UNIT 5 2) 400KV Bus 2 at Nathpa Jhakri(SJ) 3) 400K Bus 4 at Nathpa Jhakri(SJ) 4) 400K Bus 1 at Nathpa Jhakri(SJ) 5) 400K Bus 3 at Nathpa Jhakri(SJ) 6) 250 MW Nathpa-Jhakri HPS - UNIT 4 7) 68.67 MW Rampur HEP - UNIT 5 8) 68.67 MW Rampur HEP - UNIT 4 9) 250 MW Nathpa-Jhakri HPS - UNIT 6 10) 68.67 MW Rampur HEP - UNIT 3 11) 68.67 MW Rampur HEP - UNIT 6 12) 250 MW Nathpa-Jhakri HPS - UNIT 2 13) 250 MW Nathpa-Jhakri HPS - UNIT 1 14) 400 KV Nathpa Jhakri(SJ)-Rampur HEP(SJ) (PG) Ckt-2 15) 400 KV Nathpa Jhakri(SJ)-Panchkula(PG) (PG) Ckt-1 16) 400 KV Nathpa Jhakri(SJ)-Rampur HEP(SJ) (PG) Ckt-1 17) 400 KV Nathpa Jhakri(SJ)-Panchkula(PG) (PG) Ckt-2 18) 400 KV Nathpa Jhakri(SJ)-Karcham Wangtoo(JSW) (HBPLC) Ckt-1 19) 400 KV Nathpa Jhakri(SJ)-Karcham Wangtoo(JSW) (HBPLC) Ckt-2	HIMACHAL PRADESH	JSW, POWERGRID, SIVNL	1-Mar-20	6:09	1-Mar-20	7:12	1:03	All this tripping occurred due to flashover in Y phase generator circuit breaker of unit 4 at 400KV Nathpa Jhakri HPS(250 MW) and hence bus bar protection operated at 400KV Nathpa Jhakri HPS. As per PMU, Y-N fault is observed which was cleared within 80ms. In antecedent conditions, Nathpa Jhakri generation was unit 1- 199 MW, unit 2- 178 MW, unit 5- 192MW & unit 6- 241 MW and Rampur generation was unit 1- 60 MW, unit 2- 61 MW, unit 3- 54MW & unit 4- 55 MW.	1040	0	GD-1	0.00
2	NR	1) 125 MVAR Bus Reactor No 1 at 400KV Manesar(PG) 2) 400 KV Neemrana-Manesar (PG) Ckt-2	HARYANA	POWERGRID	3-Mar-20	10:57	3-Mar-20	15:22	0.18	Bus fault occurred during opening of IGT 1 at Manesar(PG) leading to tripping of 125 MVAR Bus Reactor No 1 at 400KV Manesar(PG) & 400 KV Neemrana-Manesar (PG) Ckt-2. As per PMU, Y-N fault is observed in the system. In antecedent conditions, 400 KV Neemrana-Manesar (PG) Ckt-2 carrying 114MW.	0	0	GI-2	0.00
3	NR	1) 400 KV Bhiwadi-Hissar (PG) Ckt-2 2) 400 KV Bhiwadi-Hissar (PG) Ckt-3	HARYANA	POWERGRID	3-Mar-20	11:00	3-Mar-20	12:42	1:42	400 KV Bhiwadi-Hissar (PG) Ckt-3 tripped due to Y-ph optical CT failure at Bhiwadi. At the same time, 400 KV Bhiwadi-Hissar (PG) Ckt-2 also tripped on overvoltage. As per PMU, Y-N fault is observed in the system. In antecedent conditions, 400 KV Bhiwadi-Hissar (PG) Ckt-2 & Ckt-3 carrying 135MW & 101MW respectively.	0	0	GI-2	0.00
4	NR	1) 400 KV Dulhasti(NH)-Kishenpur(PG) (PG) Ckt-1 2) 400 KV Dulhasti(NH)-Kishenpur(PG) (PG) Ckt-2	J & K	POWERGRID	4-Mar-20	15:20	4-Mar-20	15:30	0:10	400 KV Dulhasti(NH)-Kishenpur(PG) (PG) Ckt-2 tripped on Y-B fault. At the same time, 400 KV Dulhasti(NH)-Kishenpur(PG) (PG) Ckt-1 also tripped from Dulhasti end only, leading to tripping of Unit#1 at Dulhasti(NHPC) due to loss of evacuation path. As per PMU, Y-B fault is observed in the system. In antecedent conditions, Unit#1 at Dulhasti(NHPC) generating 110MW.	110	0	GD-1	0.00
5	NR	1) 400KV Dadri(NT)-Maharanibagh(PG) Ckt-1	NEW DELHI	POWERGRID	4-Mar-20	23:26	4-Mar-20	23:53	0:27	400KV Balabagharp(G)-Maharanibagh(PG) (PG) Ckt-1 manually opened on high voltage. During opening of this line, 400KV Dadri(NT)-Maharanibagh(PG) Ckt-1 also tripped leading to complete outage of 400/220KV Maharanibagh(PG). As per PMU, Y-N fault is observed in the system. In antecedent conditions, 400KV Balabagharp(G)-Maharanibagh(PG) & 400KV Dadri(NT)-Maharanibagh(PG) carrying 211MW & 236MW respectively.	0	360	GD-1	0.06
6	NR	1) 400 KV Banawa-Mundka (DV) Ckt-1 2) 400 KV Deepalpur(JHKT)-Banawa(DV) (PG) Ckt-1 3) 400 KV Bamnoli(DV)-Jhatikara(PG) (DV) Ckt-1	NEW DELHI	DTL, POWERGRID	5-Mar-20	0:41	5-Mar-20	5:09	4:28	400 KV Banana-Mundka (DV) Ckt-1 & 400 KV Deepalpur(JHKT)-Banawa(DV) (PG) Ckt-1 tripped on overvoltage. At the same time, 400 KV Bamnoli(DV)-Jhatikara(PG) (DV) Ckt-1 also tripped on overvoltage. As per PMU, No fault is observed in the system. In antecedent conditions, 400 KV Banana-Mundka (DV) Ckt-1 & 400 KV Deepalpur(JHKT)-Banawa(DV) (PG) Ckt-1 carrying 170MW & 33MW respectively.	0	0	GI-2	0.00
7	NR	1) 400/220 KV 315 MVA IGT 2 at Obra_B(UP) 2) 400 KV Obra_B-Rewa Road (UP) Ckt-1 3) 400/220 KV 315 MVA IGT 1 at Obra_B(UP) 4) 400/220 KV 240 MVA IGT 3 at Obra_B(UP)	UTTAR PRADESH	UPPTCL	5-Mar-20	14:13	5-Mar-20	15:19	1:06	Bus bar protection operated at 220kV Obra resulting in tripping of 220kV lines, 400/220kV IGT 1, 400/220kV IGT 2, 400/220kV IGT 3 & 400 KV Obra_B-Rewa Road (UP) Ckt-1 along with Unit#9, Unit#10 & Unit#11 at Obra. As per PMU, Fluctuations observed in the phase voltages. Generation loss was around 420MW.	420	0	GD-1	0.00
8	NR	1) 400 KV Ballabbgarh(PG)-Tughlakabad(PG) (DTL) Ckt-1 2) 400 KV Ballabbgarh(PG)-Tughlakabad(PG) (DTL) Ckt-2	HARYANA, NEW DELHI	POWERGRID	5-Mar-20	19:55	5-Mar-20	21:15	1:20	400 KV Ballabbgarh(PG)-Tughlakabad(PG) (DTL) Ckt-2 tripped on B-N fault. At the same time, 400 KV Ballabbgarh(PG)-Tughlakabad(PG) (DTL) Ckt-1 tripped due to DT received at Tughlakabad(PG) end. As per PMU, multiple B-N faults are observed in the system. In antecedent conditions, 400 KV Ballabbgarh(PG)-Tughlakabad(PG) (DTL) Ckt-1 & carrying 71MW & 61 MW respectively.	0	0	GI-2	0.00
9	NR	1) 400 KV Dadri(NT)-Maharanibagh(PG) Ckt-1	NEW DELHI	POWERGRID	6-Mar-20	23:52	7-Mar-20	0:01	0:09	400KV Ballabbgarh(PG)-Maharanibagh(PG) opened on high voltage at 2351hrs. After sometime, 400 KV Dadri(NT)-Maharanibagh(PG) (PG) tripped on overvoltage leading to outage of 400/220kV Maharanibagh(PG). As per PMU, No fault is observed in the system. In antecedent conditions, 400 KV Dadri(NT)-Maharanibagh(PG) carrying 324MW.	0	200	GD-1	0.03
10	NR	1) 400 KV Gorakhpur(PG)-Muzaffarpur(PG) (POWERLINK) Ckt-1 2) 400 KV Gorakhpur(PG)-Motihari(BS) (PG) Ckt-1 3) 400 KV Gorakhpur(PG)-Gorakhpur(UP) (PG) Ckt-1 4) 4400 KV Gorakhpur(PG)-Gorakhpur(UP) (PG) Ckt-2	UTTAR PRADESH	POWERGRID, POWERLINK	7-Mar-20	6:06	7-Mar-20	7:41	1:35	400 KV Gorakhpur(PG)-Muzaffarpur(PG) (POWER LINK) Ckt-1 tripped on Y-B fault. 400 KV Gorakhpur(PG)-Mothihari(BS) (PG) Ckt-1 tripped due to DT received at Gorakhpur end. At the same time, 400 KV Gorakhpur(PG)-Gorakhpur(UP) (PG) Ckt-1 & 2 also tripped. As per PMU, Y-B fault is observed in the system. In antecedent conditions, 400 KV Gorakhpur(PG)-Muzaffarpur(PG) (POWER LINK) Ckt-1 400 KV Gorakhpur(PG)-Mothihari(BS) (PG) Ckt-1 carrying 51MW & 134MW respectively.	0	0	GI-2	0.00
11	NR	1) 250 MW Chhabra TPS - UNIT 1 2) 400/220 KV 315 MVA IGT 1 at Chhabra(RVN) 3) 250 MW Chhabra TPS - UNIT 2	RAJASTHAN	RRVPNL	10-Mar-20	17:41	10-Mar-20	20:00	2:19	400/220 KV 315 MVA IGT 1 at Chhabra(Raj) tripped due to operation of PRV protection. At the same time, 250MW Unit#1 & 250MW Unit#2 at Chhabra TPS also tripped. As per PMU, No fault is observed in the system. In antecedent conditions, 400/220 KV 315 MVA IGT 1 at Chhabra(Raj) carrying 133MW and Unit#1 & Unit#2 generating 186MW & 184MW respectively.	370	130	GD-1	0.3
12	NR	1) 400 KV Alaknanda GVK(UPC)-Srinagar(UK) Ckt-2 2) 400 KV Alaknanda GVK(UPC)-Srinagar(UK) Ckt-1 3) 400 KV Alaknanda GVK(UPC)-Vishnuprayag(JP) (UP) Ckt-1	UTTAR PRADESH	PTCUL, UPPTCL	12-Mar-20	3:46	12-Mar-20	6:15	2:29	400 KV Alaknanda GVK(UPC)-Srinagar(UK) (UK) Ckt-1 & 2, 400 KV Alaknanda GVK(UPC)-Vishnuprayag(JP) (UP) Ckt-1 tripped on overvoltage. As per PMU, three phase fault is observed in the system. In antecedent conditions, Unit#2 at Alaknanda(UP) generating 82MW & 400 KV Alaknanda GVK(UPC)-Muzaffarnagar (UP) carrying 91MW.	135	0	GD-1	0
13	NR	1) 220 KV Wagoora(PG)-Pampore(PDD) (PDD JK) Ckt-1 2) 220 KV Wagoora(PG)-Pampore(PDD) (PDD JK) Ckt-2	J & K	PDD JK	12-Mar-20	7:42	12-Mar-20	9:03	1:21	220 KV Wagoora(PG)-Pampore(PDD) (PDD JK) Ckt-1 & 2 tripped at 0742hrs due to fault in downward JKPDD system. Also 220 KV Wagoora(PG)-Pampore(PDD) (PDD JK) Ckt-1 & 2 again tripped at 1035hrs due to Y-N fault in system and operation of zone-3 protection. As per PMU, B-N fault and Y-N fault with delayed clearance of 600ms and 1000ms observed at 0742hrs and 1035hrs respectively. In antecedent conditions, 220 KV Wagoora(PG)-Pampore(PDD) (PDD JK) Ckt-1 & 2 carrying 147MW & 154MW respectively.	0	450	GD-1	0.68
14	NR	1) 400 KV Fatehpur-Mainpuri (PG) Ckt-1 2) 400 KV Fatehpur-Mainpuri (PG) Ckt-2	UTTAR PRADESH	POWERGRID	20-Mar-20	16:51	20-Mar-20	19:02	2:11	400 KV Fatehpur-Mainpuri (PG) Ckt-2 tripped due to failure of Y phase LA. At the same time, 400 KV Fatehpur-Mainpuri (PG) Ckt-1 also tripped on overvoltage protection operated at Fatehpur end and DT received at Mainpuri end. As per PMU, Y-N fault with unsuccessful autoreclosing is observed in the system.	0	0	GI-2	0
15	NR	1) 400 KV Mandola(PG)-Bawana(DV) (DV) Ckt-2,, 2) 400 KV Deepalpur(JHKT)-Bawana(DV) (PG) Ckt-1 3) 216 MW Bawana GPS - UNIT 3 4) 253 MW Bawana GPS - UNIT 6 5) 400 KV Mandola(PG)-Bawana(DV) (DV) Ckt-1 6) 231 MW Bawana GPS - UNIT 4 7) 400 KV Bawana-Mundka (DV) Ckt-2 8) 400 KV Bawana-Mundka (DV) Ckt-1 9) 400 KV Abdullapur(PG)-Bawana(DV) (PG) Ckt-1 10) 500 MW ISTPP (Jhajjar) - UNIT 2 11) 400 KV Bawana CCGTB(DTL)-Bahadurgarh(PG) (PG) Ckt-1 12) 400 KV Bawana CCGTB(DTL)-Bhawani(PG) (PG) Ckt-1	NEW DELHI	APCPL, DTL, DTL/Pragati CCGT, POWERGRID	21-Mar-20	23:40	22-Mar-20	1:00	1:20	As reported by Delhi SLDC at 23:40hrs, Y-Phase CT of bay no.1852 of 400KV Bawana-Mandola ckt-II and Bus-II failed resulting in bus bar protection operation. Generation at CCGT Bawana got affected due to tripping of lines. At 23:41 Jhajjar unit no.2 tripped because of Jerk due to multiple tripping of lines. At per PMU, three phase fault followed by Y-N fault with delayed clearance of 300ms and 520ms is observed in the system.	480	230	GD-1	0.38

Western Region-Event Report for March 2020															
S.No	Region	Name of Elements	Owner/Agency	Outage		Revival		Outage Duration	Event	Generation Loss (MW)	Load Loss (MW)	Category as per CEA standards	Energy Unserved (MU)		
				Date	Time	Date	Time								
1	WR	Tripping of 1.400 KV Champa Bus 2 2.400 KV Champa-Lara 2	PGCIL	5-Mar-20	21:15	5-Mar-20	23:53	2:38	During the B-E fault on 400 KV Champa-Lara 2, Tie breaker at Champa end was not opened which resulted in LBB operation and tripping of 400 KV Champa Bus 2.	Nil	Nil	GI-2	Nil		
2	WR	Tripping of 1.220 KV Mapusa-Ponda 2.220 KV Mahalakshmi-Amona 3.220 KV Tillari-Amona	Goa	8-Mar-20	15:15	8-Mar-20	15:27	0:12	At 15:15 Hrs, 220 KV Mapusa-Ponda tripped on Y-B phase fault. 220 KV Mahalakshmi-Amona tripped from Amona end only and 220KV Amona-Ponda 1 tripped only at Ponda end during the same time. At 15:19 hrs, the B phase jumper of 220KV Halkarni-Tillari opened at Tillari S/S, thereby the load on 220KV Tillari Amona became zero. Simultaneously the 220KV ICT-I at Amona tripped on overload and this made the loading on 220KV Mapusa-Amona zero. At 15:27 hrs, the 220KV ICT-I at Amona was charged and 220KV Mapusa-Amona line which was healthy was loaded.	Nil	242	GI-1	0.1000		
3	WR	Tripping of 1.220KV Kim-Kosamba 1 2.220KV Kim-Utran 2 3.220 KV Kim-Sugen 2 4.220 KV Kim-L&T Mora 5.220 KV GSEG-Kosamba 6.GSEC 351 MW Stage 2 unit	GETCO	18-Mar-20	10:15	18-Mar-20	10:35	0:20	At 220KV Kim s/s, Y phase isolator jumper of 220KV KIM L&T Mora Line towards 220 KV BUS-2 got detached and resulted in tripping of all the elements connected to 220KV Bus 2 on BB protection operation . GSEG Stage 2 (351 MW)unit tripped on the jerk.	350	200	GI-1	0.0667		
4	WR	Tripping of 1.400 KV Tamnar-JPL (stage 2) 2 2.765 KV Tamnar-Kotra 1&2 3.765/400 KV Tamnar ICT 3 4.JPL Units 3&4 (Stage 2) 5.JPL Unit 4 (Stage 1) 6.400 KV JPL Stage1 to 2 Interconnector 7.400 KV JPL(stage 1)-Raipur 1&2	PGCIL&JPL	19-Mar-20	14:36	19-Mar-20	15:07	0:31	At 14:36Hrs, 400 KV JPL-Tamnar 2 tripped on B-E fault. As the fault was not cleared immediately, JPL Units 3& 4 tripped. At 14:44 Hrs, R phase CT of 708 bay (towards Bus 1 side) at Tamnar failed and resulted in tripping of 765kV Tamnar BR main and tie bays on differential protection operation. As the fault was in the CT, the fault was not sensed as in Zone fault by ICT and the fault was fed through Bus 1 Main bay of ICT 3. 765 KV Tamnar-Kotra 1&2 tripped from Zone 2 from Kotra end(Time setting: 350 ms).765/400 KV Tamnar ICT 3 tripped due to 708 bay R phase CT SF6 lockout. 400 KV JPL-Raipur 1&2 tripped on reverse zone protection operation from JPL end. JPL Inter Connector line tripped on Over Voltage protection operation. JPL stage 1 unit 4 tripped due to the loss of evacuation path. Due to these tripping at Tamnar, JPL stage 1 and JPL stage 2 stations became dark.	1330	NII	GD-1	NII		
5	WR	Tripping of 1.400KV Pithampur Bus 1 2.400 KV Pithampur-Singhaji 2&4 3.400 KV Pithampur-Indore 1 4.400 KV Pithampur-Badnawar 1	MPPTCL	26-Mar-20	21:13	26-Mar-20	22:56	1:43	400 KV Pithampur-Indore 1 tripped on Y-E fault from Indore end. But due to the delayed clearance of fault from Pithampur end, LBB protection operated and all the elements connected to 400 KV Pithampur Bus 1 tripped.	Nil	Nil	GI-2	Nil		

Southern Region-Grid Event Report for March 2020

Sl. No.	Region	Name of Elements (Tripped/Manually opened)	Owner / Agency	Outage		Revival		Outage Duration	Event (As reported)	Generation Loss (MW)	Load Loss (MW)	Category as per CEA Grid Standards	Energy Unserved (MU)
				Date	Time (Hrs)	Date	Time (Hrs)						
1	SR	i. 400kV Nelamangala - Hassan ii. 400kV Talguppa - Nelamangala iii. 400kv Talguppa - Hassan	KPTCL	1-Mar-20	13:57	1-Mar-20	14:30	33 mins	Partial GD in Karnataka and North Kerala : 400kV Mysore - Nelamangala D/C was under planned shutdown in the antecedent. Triggering incident was BN fault in 400kV Neelamangala Hassan line. Since A/r was not in auto mode due to insulator replacement works, line tripped on operation of Zone-1 distance protection at both the ends. Subsequently, 400kV Talaguppa - Hassan line tripped only at Talaguppa end on operation of OC protection. 400kV Nelamangala - Talaguppa tripped on Zone-1 distance protection at both the ends due to RN fault. A/r was not in auto mode due to insulator replacement works. This resulted in complete loss of supply at 400kV stations viz. UPCL, Talaguppa, Hassan, Mysore, Kozhikode and 37 nos. 220kV stations in Karnataka and 6 nos. 220kV stations in Kerala.	1754 MW	2380 MW (KA-2000MW & KL-380MW)	GD-1	----
2	SR	i. 220kV Kayamkulam - Edappon ii. 220kV Edamon - Edappon iii. 220/110kV, 100MVA ICT-1 and 2	KSEB	3-Mar-20	7:43	3-Mar-20	9:42	1 Hr 59 mins	Complete outage of 220kV Edappon station of KSEB: Triggering incident was failure of 220kV B-phase CT of Bus coupler. This led to operation of bus bar protection resulting in tripping of all connected elements.	----	67 MW	GD-1	0.13
3	SR	i. 230kV Checkanurani - Pasumalai ii. 230kV Checkanurani - Theni iii. 230kV Checkanurani - Kinnimangalam iv. 230kV Checkanurani - Nallamayakkanpatti v. 230kV Checkanurani - Renganathapuram vi. 400/230kV ICT#1 and ICT#2 vii. 230kV Checkanurani - Sembatty viii. 230kV Checkanurani - TTPS ix. 230kV Checkanurani - Ind Bharat x. 230kV Checkanurani - Kayathar xi. 230kV Checkanurani - Savasupuram xx. 230kV Checkanurani - Amuthapuram.	TANTRANS CO	12-Mar-20	1:20	12-Mar-20	3:45	2 Hrs 25 mins	Complete Outage of 230kV Checkanurani SS of TANTRANS CO: Triggering incident was failure of Y phase CT of Bus Coupler at 230kV Checkanurani SS. Bus-1 and Bus-2 Busbar Protection operated resulting in the tripping of all connected elements. However, ICT#3 was not tripped. Since the failed CT was near Bus-1 side, due to non-tripping of ICT#3 which was connected to Bus-2, there was no fault feed after the isolation of Bus-1. Subsequently, ICT#3 was hand tripped.	----	----	GD-1	----
4	SR	i. 220kV Kolar PG- Kolar KA line-1 ii. 220kV Kolar PG - Kolar KA line-2	KPTCL	14-Mar-20	16:30	14-Mar-20	17:00	30 mins	Complete outage of 220kV Kolar, 220kV Malur, 220kV Sarjapur and 220kV VTP SS of KPTCL : During antecedent conditions, 220kV Kolar KA, 220kV Malur, 220kV Sarjapur and 220kV Vikas Tech Park (VTP) are radially fed from 220kV Kolar PG SS. Triggering incident was tripping of 220kV Kolar PG- Kolar KA line-1 at Kolar KA end due to suspected mal-operation of Pole Discrepancy relay. After the tripping of 220kV Kolar PG-Kolar KA-1, 220kV Kolar PG-Kolar KA-2 got over loaded and tripped at Kolar PG end due to operation of DEF protection. This resulted in complete loss of supply at 220kV Kolar KA, 220kV Malur, 220kV Sarjapur and 220kV Vikas Tech Park (VTP) SS.	----	380 MW	GD-1	0.19
5	SR	i. 220kV Shimoga - Varahi line-2 ii. All other connected elements at 220kV Shimoga	KPTCL	19-Mar-20	17:08	19-Mar-20	17:28	20 mins	Complete outage of 220kV Shimoga station of KPTCL: During antecedent conditions, all the elements were connected to Bus-1 North bus at 220kV Shimoga SS. Triggering incident was R-fault in 220kV Shimoga Varahi line-2 due to insulator decapping. At the same time, 220kV Bus-1 BBP maloperated at 220kV Shimoga SS . Since all the elements were connected to Bus-1, this resulted in the complete loss of supply at 220kV Shimoga SS.	----	160 MW	GD-1	0.05
6	SR	i. 400kV Guttur-Kaiga-1 ii. 400kV Guttur-Kaiga-2 iii. 400kV Guttur-Doni iv. 400kV Guttur-Narendra-1 v. 400kV Guttur-Narendra-2 vi. 400kV Guttur-Beeranahalli (Hiriyur)-1 vii. 400kV Guttur-Beeranahalli (Hiriyur)-2 viii. 400kV Guttur-SWEL ix. 400/220kV, 315MVA ICT-1 & ICT-2	KPTCL	17-Mar-20	20:00	17-Mar-20	21:12	1 hr 12 mins	Complete outage at 400kV side of 400/220kV Guttur station of KPTCL: All elements at 400kV side of 400/220kV Guttur station tripped on operation of LBB protection of 400kV Kaiga - Guttur line-2. As reported P437 relay maloperated which led to the operation of LBB resulting in tripping of all connected 400kV elements.	----	----	GI-2	----
7	SR	i. 400/220kV, 315 MVA ICT-1 ii. 400/220kV, 315 MVA ICT-2 iii. 220kV VSS - Kakinada	APTRANS CO	22-Mar-20	15:45	22-Mar-20	17:07	1 hr 22 mins	Tripping of 220kV Bus-2 at 220kV Vizag switching station (VSS) of APTRANS CO: Triggering incident was failure of B-phase Lightning Arrester on 220kV VSS - Kakinada line. This resulted in operation of Bus bar protection of bus-2 at 220kV VSS. 400/220kV, 315 MYA ICT-1 and ICT-2 also tripped during the incident.	----	----	GI-1	----
8	SR	i. 230kV Kadaperi - Sriperumpudur line-1&2 ii. 230kV Kadaperi- Alandur line iii. 230kV Kadaperi - Kalvinthappattu iv. 230kV Kadaperi - Porur v. 230kV/110kV transformer#1,2 and 3	TANTRANS CO	29-Mar-20	4:04	29-Mar-20	7:03	2 hrs 59 mins	Multiple Tripping in 230kV Kadaperi SS of TANTRANS CO: Triggering incident was failure of B ph CT of 230kV Alandur - Kadaperi line and R ph CT of 230kV Sriperumpudur - Kadaperi line-2 at 230kV Kadaperi end. This resulted in bus fault at 230kV Kadaperi SS and Bus bar protection operated resulting in the tripping of all the elements connected at 230kV Kadaperi SS since 230kV Kadaperi SS has single bus configuration. There was no interruption at 110kV level.	----	----	GI-1	----

Eastern Region-Grid Event Report for March 2020

Sl. No.	Region	Name of major elements tripped	Owner / Agency	Outage		Revival		Outage Duration	Event	Generation Loss (MW)	Load Loss (MW)	Category as per CEA Grid Standards	Loss of Energy(in MU)
				Date	Time	Date	Time						
1	ER	400 kV JITPL-Angul D/C	ISTS	5-Mar-20	19:27	5-Mar-20	20:01	0:34	At 19:27Hrs, 400kV JITPL-Angul D/C tripped on B-N fault. At the time of the event, inclement weather was reported. JITPL Unit#1 was generating around 560MW, which got tripped due to no evacuation path.	560	0	GD-1	0.0000
2	ER	220 kV Budhipadar – Korba 2 & 3 220 kV Budhipadar – IBTPS 2 & 4 160 MVA 220/132 kV ICT - 2 at Budhipadar 220 kV Budhipadar – Tarkhera 1 220 kV Budhipadar – Lapanga 1 220 kV Budhipadar – Bhusan 1 220 kV Budhipadar – AAL – 2	OPTCL	13-Mar-20	3:26	13-Mar-20	3:29	0:03	At 03:21 Hrs., 220 kV Budhipadar – Raigarh S/C tripped hrs. due to snapping of R phase wave trap jumper of this line. At 03:26 hrs., 220 kV Korba East –Budhipadar 2 and 3 also tripped on R phase to earth fault and Y phase to earth fault respectively. However, after 300 ms, 220 kV bus coupler breaker along with 220 kV Budhipadar Bus 2 and all connected elements got tripped at 220/132 kV Budhipadar S/S on bus bar protection relay operation.	0	0	GI-1	0.0000
3	ER	400 kV Teesta III - Kishangunj S/C 400 kV Teesta III - Dikchu S/C 400 kV Dikchu - Rangpo S/C	ISTS	15-Mar-20	13:52	15-Mar-20	14:31	0:39	At 13:52 hrs 400 kV Teesta III - Kishangunj S/C, 400 kV Teesta III - Dikchu S/C and 400 kV Dikchu - Rangpo S/C tripped resulting total power failure at Teesta III and Dikchu. DT received at Teesta III from remote ends for both feeders. E/F protection picked up at Dikchu end.	200	0	GD-1	0.0000
4	ER	220 kV Tenughat – Biharsharif S/C 220 kV Patratu – Tenughat S/C	JUSNL	15-Mar-20	16:12	15-Mar-20	16:47	0:35	At 16:12 hrs 220 kV Tenughat – Biharsharif S/C and 220 kV Patratu – Tenughat S/C tripped on earth fault protection resulting in tripping of both running units at Tenughat due to loss of evacuation path.	300	0	GD-1	0.0000
5	ER	220 KV Muzaffarpur Hajipur 1 220 KV Muzaffarpur KBUNL 2 220 KV Muzaffarpur Dhalkebar - 1 400/220 KV ICT 1 and 2 at Muzaffarpur	ISTS	28-Mar-20	18:49	28-Mar-20	20:00	1:11	At 18:49 hrs,220 KV Muzaffarpur bus 1 tripped on LBB maloperation associated with 400/220 KV ICT 1 CB. Due to this, 220 KV Muzaffarpur Hajipur 1, 220 KV Muzaffarpur KBUNL 2, 220 KV Muzaffarpur Dhalkebar - 1, 400/220 KV ICT 1 and 2 at Muzaffarpur tripped.	0	0	GI-1	0.0000
6	ER	220 kV STPS – Chandil S/C 220 kV Ranchi – Chandil S/C 220 kV Ramchandrapur – Chandil S/C	JUSNL	29-Mar-20	19:21	29-Mar-20	19:45	0:24	At 19:21 hrs, R phase CT of 220 kV STPS bay of 220/132 kV Chandil s/s burst resulting tripping of all 220 kV feeders connected to Chandil S/S.	0	210	GD-1	0.0840

North Eastern Region-Grid Disturbances Report for March 2020												
Sl. No.	Region	Name of Element	Owner / Agency	Date and Time of Tripping	Date and Time of Revival	Outage Duration	Event	Generation Loss (MW)	Load Loss (MW)	Generation Loss in MU	Load Loss In MU	Category as per CEA Grid Standards
1	NER	132kV Mokochung(PG) - Mokochung(DoP Nagaland) I & II lines and 132 kV Doyang-Mokochung line	POWERGRID & DoP,Nagaland	02-Mar-20 19:42	02-Mar-20 20:16	0:34:00	Mokochung area of Nagaland Power System was connected with rest of NER Grid through 132kV Mokochung(PG) - Mokochung(DoP Nagaland) I & II Lines and 132 kV Doyang-Mokochung(DoP Nagaland) tripped. Due to tripping of these elements,Mokochung area of Nagaland Power System was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	15	0	0.009	GD 1
2	NER	132 kV Loktak- Ningthoukhong line and 132 kV Imphal- Ningthoukhong line	MSPCL	03-Mar-20 15:57	03-Mar-20 17:54	1:57:00	Ningthoukhong area of Manipur Power System was connected with rest of NER Grid through 132 kV Loktak- Ningthoukhong line and 132 kV Imphal - Ningthoukhong line (132 kV Kakching - Kongba line kept open to control over-loading of 132 kV Loktak- Ningthoukhong line) At 15:57 Hrs on 03.03.20, 132 kV Loktak- Ningthoukhong line and 132 kV Imphal - Ningthoukhong line tripped. Due to tripping of these elements, Ningthoukhong area of Manipur Power System was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	17	0	0.033	GD 1
3	NER	132 kV Loktak- Ningthoukhong line	MSPCL	03-Mar-20 20:08	03-Mar-20 20:22	0:14:00	Ningthoukhong area of Manipur Power System was connected with rest of NER Grid through 132 kV Loktak- Ningthoukhong line(132 kV Imphal - Ningthoukhong line had been declared faulty after tripping at 15:57 Hrs on 03.03.20 and 132 kV Kakching - Kongba line kept open to control over-loading of 132 kV Loktak- Ningthoukhong line) At 20:08 Hrs on 03.03.20, 132 kV Loktak- Ningthoukhong line tripped. Due to tripping of this element, Ningthoukhong area of Manipur Power System was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	44	0	0.0100	GD 1
4	NER	132 KV Karong-Kohima line and 132 Karong-Imphal(Yurembam) line	DoP Nagaland & MSPCL	06-Mar-20 16:14	06-Mar-20 16:30	0:16:00	Karong area of Manipur Power System was connected with the rest of NER Grid through 132 KV Karong-Kohima line and 132 Karong-Imphal(Yurembam) line. At 16:14 Hrs on 06.03.2020, 132 KV Karong-Kohima line and 132 Karong-Imphal(Yurembam) line tripped . Due to tripping of these elements, Karong area was separated from the rest of NER Grid and subsequently collapsed due to no source in this area.	0	13	0	0.0030	GD 1
5	NER	132 kV Dimapur(NA)-Dimapur(PG) I & II lines.	DoP, Nagaland	08-Mar-20 13:16	08-Mar-20 14:11	0:55:00	Dimapur area of Nagaland Power System was connected with the rest of NER Grid through 132 kV Dimapur(NA)-Dimapur(PG) I & II lines. At 13:16 Hrs on 08.03.2020, 132 kV Dimapur(NA)-Dimapur(PG) I & II lines tripped . Due to tripping of these elements, Dimapur area of Nagaland Power System was separated from the rest of NER Grid and subsequently collapsed due to no source in this area.	0	41	0	0.0380	GD 1
6	NER	132 kV Doyang-Sanis line and 132 Dimapur - Kohima line	POWERGRID and DOP, Nagaland	13-Mar-20 12:01	13-Mar-20 12:19	0:18:00	Kohima area of Nagaland Power System was connected with the rest of NER Grid through 132 kV Doyang - Sanis line and 132 Dimapur - Kohima line (132 KV Kohima - Karong Line was under planned Shutdown) At 12:01 Hrs on 13.03.2020, 132 KV Doyang - Sanis line and 132 Dimapur - Kohima line tripped. Due to tripping of these elements, Kohima area was separated from the rest of NER Grid and subsequently collapsed due to load generation mismatch in this area.	6	16	0.0018	0.0048	GD 1
7	NER	220 kV Samaguri - Sonabil-2 line, 220 kV Misamaguri D/C line , 220kV Samaguri - Jawaharnagar line, 220kV Samaguri-Mariani(AS) line and 220 kV Samaguri-Sonapur line	AEGCL & POWERGRID	14-Mar-20 08:24	14-Mar-20 08:41	0:17:00	Samaguri area of Assam Power System was connected with rest of NER Grid through 220 KV Samaguri - Sonabil-2 line, 220 KV Misamaguri D/C line , 220KV Samaguri - Jawaharnagar line, 220KV Samaguri-Mariani(AS) line and 220 KV Samaguri-Sonapur line (220 KV Samaguri-Sonabil -1 Line is out of service w.e.f. 12:14 Hrs of 07th August'18 due to Conductor Snapping between Tower Loc no w2 &w3 and w4 &w5 which falls in the middle of the river bramhaputra). At 08:24 Hrs on 14.03.2020, 220 KV Samaguri - Sonabil-2 line, 220 KV Misamaguri D/C line , 220KV Samaguri - Jawaharnagar line, 220KV Samaguri-Mariani(AS) line and 220 KV Samaguri-Sonapur line tripped. Due to tripping of these elements, Samaguri area of Assam Power System was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	95	0	0.0270	GD 1
8	NER	132 kV Loktak-Ningthoukhong line	MSPCL	14-Mar-20 12:11	14-Mar-20 12:29	0:18:00	Ningthoukhong area of Manipur Power System was connected with rest of NER Grid through 132 KV Loktak- Ningthoukhong line (132 kV Imphal - Ningthoukhong line was under planned shutdown and 132 KV Kakching - Kongba line was kept open to control over-loading of 132 KV Loktak- Ningthoukhong line) At 12:11 Hrs on 14.03.2020, 132 kV Loktak-Ningthoukhong . Due to tripping of these elements, Ningthoukhong area of Manipur Power System was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	19	0	0.0060	GD 1
9	NER	132 kV Loktak-Ningthoukhong line	MSPCL	14-Mar-20 15:23	14-Mar-20 16:03	0:40:00	Ningthoukhong area of Manipur Power System was connected with rest of NER Grid through 132 KV Loktak- Ningthoukhong line (132 kV Imphal - Ningthoukhong line was under planned shutdown and 132 KV Kakching - Kongba line was kept open to control over-loading of 132 KV Loktak- Ningthoukhong line) At 15:23 Hrs on 14.03.2020, 132 kV Loktak-Ningthoukhong line tripped. Due to tripping of this element, Ningthoukhong area of Manipur Power System was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	17	0	0.0050	GD 1
10	NER	132 KV Loktak- Ningthoukhong line & 132 kV Imphal- Ningthoukhong line	MSPCL	23-Mar-20 08:24	23-Mar-20 08:48	0:24:00	Ningthoukhong area of Manipur Power System was connected with rest of NER Grid through 132 KV Loktak- Ningthoukhong line and 132 KV Imphal - Ningthoukhong line(132 KV Kakching - Kongba line was kept open to control over-loading of 132 KV Loktak- Ningthoukhong line) At 08:24 Hrs on 23.03.2020, 132 KV Loktak- Ningthoukhong & Imphal - Ningthoukhong lines tripped. Due to tripping of these elements,Ningthoukhong area of Manipur Power System was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	50	0	0.0200	GD 1
11	NER	132 kV Ranganadi - Ziro line	POWERGRID	26-Mar-20 15:18	26-Mar-20 15:28	0:10:00	Ziro area of Arunachal Pradesh Power System was connected with rest of NER Grid through 132 kV Ranganadi - Ziro line. At 15:18 Hrs on 26.03.2020, 132 KV Ranganadi - Ziro line tripped. Due to tripping of this element, Ziro area of Arunachal Pradesh Power System was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	16	0	0.0030	GD 1
12	NER	Kohima area of Nagaland Power System & Karong Area of Manipur Power System	MSPCL & DOP Nagaland	29-Mar-20 12:48	29-Mar-20 13:12	0:24:00	Kohima area of Nagaland Power System & Karong Area of Manipur Power System were connected with the rest of NER Grid through 132 KV Wokha-Sanis line & 132 Imphal(Yurembam)-Karong Line (132 Dimapur - Kohima line faulty w.e.f. 20:48 Hrs on 28.03.20) At 12:48 Hrs on 29.03.2020, 132 KV Wokha - Sanis line and 132 Imphal(Yurembam)-Karong line tripped. Due to tripping of these elements, Kohima & Karong areas was separated from the rest of NER Grid and subsequently collapsed due to no source in this area.	0	19	0	0.0080	GD 1

North Eastern Region-Grid Incidences Report for March 2020

Sl. No.	Region	Name of Element	Owner / Agency	Date and Time of Tripping	Date and Time of Revival	Outage Duration	Event	Generation Loss (MW)	Load Loss (MW)	Generation Loss in MU	Load Loss in MU	Category as per CEA Grid Standards
1	NER	AGBPP Unit 6 & 9	NEEPCO	02-Mar-20 08:43	02-Mar-20 09:15	0:32:00	AGBPP Unit-6 & 9 tripped at 08:43 Hrs on 02-03-20 on Low fuel gas Pressure due to Strainer Choking . Revision done from Block No.38 on 02-03-20	40	0	0.020	0	GI 2
2	NER	AGBPP Unit 6 & 9	NEEPCO	06-Mar-20 05:38	06-Mar-20 06:15	0:37:00	AGBPP Unit-6 & 9 tripped at 05:38 Hrs on 06-03-20 due to High vibration in thrust vibration . Revision done from Block No.26 on 06-03-20	40	0	0.030	0	GI 2
3	NER	AGBPP Unit-2	NEEPCO	07-Mar-20 18:30	43897.80208	0:45:00	AGBPP Unit-2 tripped at 18:30 Hrs on 07-03-20 due to Tripping of Gas Boost Compressor. Revision done from Block No.78 on 07-03-20	29	0	0.020	0	GI 2
4	NER	AGBPP Unit 2	NEEPCO	10-Mar-20 08:55	10-Mar-20 09:45	0:50:00	AGBPP Unit-2 tripped at 08:55 Hrs on 10-03-20 due to CB-Mini Pressure Lock Out . Revision done from Block No.40 on 10-03-20	23.7	0	0.010	0	GI 2
5	NER	Palatana GTG-2 and STG-2	OTPC	10-Mar-20 18:49	10-Mar-20 19:30	0:41:00	Palatana GTG-2 tripped at 18:49 Hrs on 10-03-20 due to High Vibration in exiter bearing & subsequently STG-2 also tripped. Revision done from Block No.79 on 10-03-20	102	0	0.070	0	GI 2
6	NER	AGBPP Unit 2	NEEPCO	18-Mar-20 09:09	18-Mar-20 10:00	0:51:00	AGBPP Unit-2 tripped at 09:09 Hrs on 18-03-20 due to Tripping of Gas Compressor IV . Revision done from Block No.41 on 18-03-20	26.7	0	0.020	0	GI 2
7	NER	BgTPP Unit-2	NTPC	26-Mar-20 09:10	26-Mar-20 10:00	0:50:00	BgTPP Unit-2 tripped at 09:10 Hrs on 26-03-20 due to low drum oil level .Revision done from Block No.41 on 26-03-20	102	0	0.090	0	GI 2
8	NER	Loktak Unit 3	NHPC	26-Mar-20 17:30	26-Mar-20 18:15	0:45:00	Loktak Unit-3 tripped at 17:30 Hrs on 26-03-20 due to operation of buchotlz relay of GT. Revision done from Block No.74 on 26-03-20	35	0	0.030	0	GI 1
9	NER	BgTPP Unit-2	NTPC	28-Mar-20 03:21	28-Mar-20 04:15	0:54:00	BgTPP Unit-2 tripped at 03:21 Hrs on 28-03-20 due to flame failure .Revision done from Block No.18 on 28-03-20	68	0	0.220	0	GI 2
10	NER	Palatana GTG-2 and STG-2	OTPC	29-Mar-20 17:54	29-Mar-20 18:30	0:36:00	Palatana GTG-2 tripped at 17:54 Hrs on 29-03-20 due to High Exciter bearing temparature & subsequently STG-2 also tripped.Revision done from Block No.75 on 29-03-20	265	0	0.159	0	GI 2

21. NEW ELEMENTS COMMISSIONED* IN MARCH 2020						
COMMISSIONING OF NEW GENERATING UNITS						
REGION	S.NO.	CONSTITUENT	UNIT NAME / LOCATION	UNIT NO	CAPACITY (MW)	DATE
NR	1	MUNPL(NTPC)	Meja	2	660	18.03.2020
WR	1	IWISL/Gujarat	Inox(Wind)	1	150+50	20-03-2020
	2	AGE(MPL)/Gujarat	AGEMPL	1	126+50	07-03-2020
** COD of additional (231+19)MW capacity						
COMMISSIONING OF NEW ICTS						
REGION	S.NO.	CONSTITUENT	VOLTAGE LEVEL	SUB-STATION	ICT NO	CAPACITY (MVA)
NR	1	UPPTCL	400 / 220	Sarnath	4	315
WR	1	KTL/Sterlite	765/400	Khandwa-PS	1	1500
	2	GETCO	400/220	Vav	3	500
	3	MPPTCL	400/220	Sagar	1	315
	4	MPPTCL	400/220	Badnawar	2	315
	5	PGCIL	400/220	Jabalpur	2	*
SR	1	PGCIL	400 / 110/33	HVDC Pugalur	2	200
NER	1	PGCIL	220/132	Balipara	1	160
ER	2	AEGCL	132/33	Azara GSS	1	50
ER	1	NTPC	765/132	Darlipali	1	255
*Replacement of old ICT						
COMMISSIONING OF NEW TRANSMISSION LINES						
REGION	S.NO.	CONSTITUENT	LINE NAME	CKT NO	VOLTAGE (kV)	DATE
NR	1	PGCIL	765 kV Bikaner-Moga	1 & 2	765	09.03.2020
	2	GPTL	400kV D/C Sohna-Kadarpur	1 & 2	400	18.03.2020
	3	PGCIL & GTPL	400kV Prithala(GPTL)-Aligarh	1 & 2	400	18.03.2020
	4	GTPL	400kV Prithala-Kadarpur	1 & 2	400	18.03.2020
WR	1	KTL/Sterlite	765 Kv Khandwa Pool-Indore	2	765	12-03-2020
	2	GETCO	400 kV Ranchodpura(Vadavi)-Mansar(Halvad)	1	400	13-03-2020
	2	KTL/Sterlite	Khandwa PS-Khangone	1 & 2	400	17-03-2020
SR	1	TS	400KV Tukkapur (TS) - Narsapur (TS)	1	400	21-03-2020
LILO OF TRANSMISSION LINES						
REGION	SL. NO.	CONSTITUENT	LINE NAME	LILO AT	VOLTAGE (kV)	DATE
NR	1	GTPL	400kV Gurgaon(PG)-Sohna(GPTL) Line 1 & 2	Sohna	400	11-03-2020 & 09-03-2020
	2	GTPL	400kV Manesar(PG)-Sohna(GPTL) Line 1 & 2	Sohna	400	09-03-2020 & 11-03-2020
WR	1	PGCIL/MPPTCL	400kV Satna-Bina Ckt-3	Sagar	400	09-03-2020
SR	1	PGCIL	400 KV Pavagada - Mysore Line 1	Mysore	400	27-03-2020
COMMISSIONING OF BUS/LINE REACTORS						
REGION	SL. NO.	CONSTITUENT	SUB-STATION	VOLTAGE LEVEL	CAPACITY (MVAR)	DATE
NR	1	PGCIL	Bikaner-Moga L/R-1	765	330	04-03-2020
	2	PGCIL	Bikaner-Moga L/R-2	765	330	03-03-2020
WR	1	GETCO	Vav	400	125	02-03-2020
	2	KTL	Khandwa-PS	400	125	07-03-2020
	3	MPPTCL	Sagar-Sagar SLR	400	125	04-03-2020
	4	KTL	Khandwa PS-Dhule SLR	765	240	06-03-2020
COMMISSIONING OF FACTS DEVICE/SYSTEM						
REGION	SL. NO.	NAME	SUB-STATION/CONSTITUENT	RATINGS	VOLTAGE (kV)	DATE
WR	1	Filter Bank-2	Raigarh/PGCIL	160	400	02-03-2020
	2	Filter Bank-2	Raigarh/PGCIL	125	400	02-03-2020
	3	Filter Bank-2	Raigarh/PGCIL	125	400	03-03-2020
	4	Filter Bank-1	Raigarh/PGCIL	125	400	21-03-2020

*Includes first time charging (FTC) as well

22. Voltage Profile

विद्युत विभव रूपरेखा माह - मार्च 2020

VOLTAGE PROFILE - March 2020

Date of reporting: 05-Apr-20

क्र.सं. Sl. No.	देश REGION	उपकेंद्र SUBSTATION	VOLTAGE < V(lower)* (V=380,728 kV)	V(lower) < VOLTAGE < V(upper)*	VOLTAGE > V(upper)* (V=420,800 kV)	Voltage Deviation Index (%age of time voltage is outside range)	Number of hours voltage was outside IEGC band during month	उच्चतम (कि.वो.) Maximum(kV)	निम्नतम(कि.वो.) Minimum(kV)	औसत (कि.वो.) Average(kV)
1	पूर्वी क्षेत्र ER	अग्रल ANGUL	0%	100%	0%	0%	0	800	732	776
2		गया GAYA	0%	100%	0%	0%	0	795	757	780
3		झारखण्ड JHARSUGUDA	0%	93%	7%	7%	55	810	767	790
4		रांची RANCHI	0%	100%	0%	0%	0	800	769	784
5		सासाराम SASARAM	0%	100%	0%	0%	0	798	737	761
1	उत्तरी क्षेत्र NR	आगरा AGRA	0%	100%	0%	0%	1	804	749	782
2		आगरा (फतेहाबाद) AGRA (FATEHABAD)	0%	100%	0%	0%	0	803	756	777
3		आगरा सी. ANPARA-C	0%	100%	0%	0%	0	785	754	768
4		आगरा डी. ANPARA-D	0%	100%	0%	0%	0	785	753	768
5		जंता ANTA	0%	100%	0%	0%	1	804	758	783
6		बालिया BALILIA	0%	100%	0%	0%	0	795	749	779
7		भिवानी BIHWANI	0%	99%	1%	1%	10	807	747	784
8		बरली BAREILLY	0%	90%	10%	10%	76	810	740	789
9		फतेहपुर FATEHPUR	0%	100%	0%	0%	0	796	732	765
10		ग्रटर नोएडा GREATER NOIDA	0%	90%	10%	10%	72	811	759	791
11		झाटिकरा JHATIKARA	0%	100%	0%	0%	3	804	752	780
12		कानपुर जोआइएस KANPUR GIS	0%	100%	0%	0%	0	798	746	779
13		लखनऊ LUCKNOW	0%	98%	2%	2%	13	805	743	786
14		लालिपुर LALITPUR	0%	100%	0%	0%	1	787	725	760
15		मेरठ MEERUT	0%	100%	0%	0%	2	810	742	781
16		मोगा MOGA	0%	100%	0%	0%	1	803	726	769
17		फागी PHAGI	0%	99%	1%	1%	8	804	749	784
18		वाराणसी VARANASI	0%	100%	0%	0%	0	802	754	782
19		उजाइ UNNAO	0%	100%	0%	0%	0	803	727	770
1	पश्चिमी क्षेत्र WR	अकोला AKOLA	0%	100%	0%	0%	0	802	755	776
2		ओरंगाबाद AURANGABAD	0%	100%	0%	0%	1	803	742	776
3		भोपाल (बांडोटोसीएस) BHOPAL (BDTCL)	0%	100%	0%	0%	0	792	753	774
4		बिलासपुर BILASPUR	0%	100%	0%	0%	0	787	757	775
5		बीना BINA	0%	100%	0%	0%	0	800	759	783
6		चापा CHAMPA	0%	99%	1%	1%	6	803	770	788
7		धर्मजयगढ़ DHARAMJAIGARH	0%	100%	0%	0%	0	793	757	777
8		धुले (बांडोटोसीएस) DHULE (BDTCL)	0%	100%	0%	0%	0	797	733	771
9		एकतरी EKTURI	0%	100%	0%	0%	2	803	749	774
10		ग्वालियर GWALIOR	0%	100%	0%	0%	2	804	757	785
11		इंदौर INDORE	0%	100%	0%	0%	0	791	750	771
12		जलालपुर JABALPUR	0%	100%	0%	0%	1	802	764	786
13		करोड़ी KORADI	0%	100%	0%	0%	0	782	752	768
14		पणे PUNE	0%	100%	0%	0%	0	800	750	780
15		रायगढ़ प्रौद्योगिकी एस. RAIGARH POOLING	0%	100%	0%	0%	0	799	770	785
16		रायपुर प्रौद्योगिकी एस. RAIPUR POOLING	0%	100%	0%	0%	0	797	699	780
17		सासारा SASAN	0%	100%	0%	0%	0	785	761	773
18		सतना SATNA	0%	100%	0%	0%	0	791	762	778
19		सेवनी SEONI	0%	100%	0%	0%	0	800	757	781
20		सोनप SIPAT	0%	100%	0%	0%	0	786	759	775
21	दक्षिणी क्षेत्र SR	सोलापुर SOLAPUR	0%	99%	1%	1%	6	808	750	782
22		तामनार TANNAR	0%	100%	0%	0%	0	799	771	786
23		तिरोड़ा TIRORA	0%	100%	0%	0%	0	778	751	762
24		वडोदरा VADODARA	0%	100%	0%	0%	0	801	764	784
25		विध्याचल प्रौद्योगिकी एस. VINDHYACHAL PS	0%	100%	0%	0%	0	807	763	774
26		वर्धा WARDHA	0%	100%	0%	0%	2	806	751	780
1		कर्नल KURNool	0%	100%	0%	0%	0	801	745	774
2		नेल्लूर प्रौद्योगिकी एस. NELLORE PS	0%	100%	0%	0%	0	799	747	772
3		रायचुर RAIChUR	0%	100%	0%	0%	0	802	749	774
4		निजामाबाद NIZAMABAD	0%	95%	5%	5%	40	815	748	783
5	पश्चिमी क्षेत्र NER	श्रीकृष्णगढ़ SRIKAKULAM	0%	94%	6%	6%	44	816	745	784
6		तिरुवलम THIRUVALEM	0%	99%	1%	1%	4	805	740	774
1		अजारा AZARA (400 kV)	0%	100%	0%	0%	0	414	403	410
2		बालिपुर BALIPURA (400 kV)	0%	100%	0%	0%	1	422	392	409
3		बिस्वनाथ चारेंगांते BISWANATH CHARIALI (400 kV)	0%	100%	0%	0%	0	421	390	407
4		बोंगाइगांव BONGAIGAON (400 kV)	0%	100%	0%	0%	0	418	397	410
5		बोंगाइगांव टापाइएस BONGAIGAON TPS (400 kV)	0%	100%	0%	0%	0	420	399	412
6		बोर्निट BYRNihat (400 kV)	0%	100%	0%	0%	0	414	403	410
7		पालटाना PALATANA (400 kV)	0%	97%	3%	3%	19	423	385	413
8		राणनदी RANGANADI (400 kV)	0%	88%	12%	12%	86	428	395	414
9		मिसा MISA (400 kV)	0%	99%	1%	1%	7	424	395	410
10		सिलेर SILCHAR (400 kV)	3%	93%	4%	7%	50	422	350	410

All listed stations are 765 kV stations unless otherwise mentioned

*Percentage is calculated w.r.t. Time of one month.

23. List of Outages of Elements monitored by NLDC for the month of March-2020

S. No.	Name of Transmission Element	Type of the element	Region Involved	Category	Tripping Date and Time	Brief Reason/Relay Indication	Restoration Date and Time	Outage Duration	Number of Cumulative tripping in the month
Inter Regional Elements									
1	132 kV Rihand-Garwah 1	Line	ER/NR	TS	06-03-2020 16:09	Power failure at Rihand	06-03-2020 17:10	1:01:00	1
2	132 kV Rihand-Garwah 1	Line	ER/NR	TL	07-03-2020 01:05	B-N fault	07-03-2020 03:05	2:00:00	2
3	132 kV Rihand-Garwah 1	Line	ER/NR	TS	13-03-2020 06:06	Main bus dead at Rihand.	13-03-2020 08:50	2:44:00	3
4	132 kV Rihand-Garwah 1	Line	ER/NR	SO	27-03-2020 12:36	due to overloading of ICT hand tripped at Rihand.	27-03-2020 15:36	3:00:00	3
5	132 kV Rihand-Sone nagar 1	Line	ER/NR	TS	06-03-2020 16:09	Power failure at Rihand	06-03-2020 20:18	4:09:00	1
6	132 kV Rihand-Sone nagar 1	Line	ER/NR	TS	13-03-2020 06:06	Bus fault at Rihand UP	13-03-2020 09:55	3:49:00	2
7	132 kV Rihand-Sone nagar 1	Line	ER/NR	TL	20-03-2020 13:16	Y & B- Phase distance protection ,Zone -II relay indication at Rihand end	20-03-2020 23:40	10:24:00	3
8	132 kV Rihand-Sone nagar 1	Line	ER/NR	TS	27-03-2020 12:35	Hand tripped due to bus dead at Rihand	27-03-2020 15:55	3:20:00	4
9	132kV Sheopur-Kandhar S/C	Line	NR/WR	SO	16-03-2020 11:23	For line maintenance work	16-03-2020 19:03	7:40:00	0
10	220 kV Budhipadar-Korba-II	Line	ER/WR	TL	13-03-2020 03:24	R-phase fault; 138.4kms from Korba east end	13-03-2020 12:07	8:43:00	1
11	220 kV Budhipadar-Korba-III	Line	ER/WR	SC	01-03-2020 09:10	Tower erection and stringing on diversion part of the line for OPGC MGR Railway line	16-03-2020 22:17	373:07:00	0
12	220 kV Budhipadar-Raigarh	Line	ER/WR	TL	05-03-2020 21:21	B-N fault,5KA,22.5km from Raigarh	05-03-2020 22:32	1:11:00	1
13	220 kV Budhipadar-Raigarh	Line	ER/WR	TL	13-03-2020 03:21	Line tripped on R ph to earth fault. (74.92 km from Raigarh end)	16-03-2020 20:23	89:02:00	2
14	220 kV Malanpur-Auraiya	Line	WR/NR	TL	04-03-2020 23:49	R-N fault,Z1,95km from Malanpur,1.7KA	05-03-2020 00:44	0:55:00	1
15	220 kV Mehgaon-Auraiya	Line	WR/NR	SE	31-03-2020 19:41	R PHASE LA LEAKAGE CURRENT IS ON HIGHER SIDE	01-04-2020 00:00	4:19:00	0
16	220 kV Mudasangi (Kolhapur)-Chikkodi	Line	WR/SR	SO	02-03-2020 19:30	Insulator Decapping on first tower from Mudshingi end	03-03-2020 01:42	6:12:00	0
17	220 kV Mudasangi (Kolhapur)-Chikkodi	Line	WR/SR	SO	16-03-2020 10:31	Pre monsoon maintenanc	16-03-2020 18:45	8:14:00	0
18	220kV Bhanpura – Ranpur line	Line	WR/NR	TV	16-03-2020 04:00	Tripped on O/V	16-03-2020 07:46	3:46:00	1
19	220kV Bhanpura – Ranpur line	Line	WR/NR	MO	22-03-2020 21:34	Manually opened due to High Voltage.	24-03-2020 02:52	29:18:00	1
20	220kV Bhanpura – Ranpur line	Line	WR/NR	TV	27-03-2020 04:59	Tripped due to over voltage at Ranpur.Line holding from Bhanpura; opened at Bhanpura at 15:26hrs/31-03-2020	01-04-2020 00:00	115:01:00	2
21	220kV Xeldorf-Ambewadi	Line	WR/SR	TL	17-03-2020 12:41	B-N Fault	17-03-2020 16:21	3:40:00	1
22	400 kV Alipuduar-Bongaigaon-II	Line	ER/NER	SO	09-03-2020 10:36	For relay testing & alarm rectification in the relay at Bongaigaon SS.	09-03-2020 16:44	6:08:00	0
23	400 kV Bhadrawati-Ramagundam-I	Line	WR/SR	TL	12-03-2020 14:43	B-N, 66.38KM from BVT and F.C.2.2KA	12-03-2020 18:37	3:54:00	1
24	400 kV Jeypore-Gazuwaka-I	Line	ER/SR	TL	19-03-2020 19:57	TRIPPED ON Y-N FAULT	19-03-2020 20:42	0:45:00	1
25	400 kV Jharsuguda-Raigarh-I	Line	ER/WR	SC	19-03-2020 11:04	Tower erection and stringing on diversion part for OPGC MGR Railway	01-04-2020 00:00	300:56:00	0
26	400 kV Kolhapur-Kudgi-I	Line	WR/SR	SO	07-03-2020 10:38	AMP works.	07-03-2020 19:25	8:47:00	0
27	400 kV Kolhapur-Kudgi-II	Line	WR/SR	SO	06-03-2020 10:31	AMP works.	06-03-2020 19:24	8:53:00	0
28	400 kV Sasaram-Allahabad	Line	ER/NR	SO	03-03-2020 10:30	Replacement of insulators at Road/Rail/River/Power LineCrossings	04-03-2020 00:45	14:15:00	0
29	400 kV Sasaram-Allahabad	Line	ER/NR	SO	26-03-2020 15:43	Replacement of Y Phase LA due to High THRC value	26-03-2020 18:11	2:28:00	0
30	400 kV Sasaram-Varanasi	Line	ER/NR	SO	20-03-2020 12:20	To attend the bend stud of Y-phase Line Isolator at Sasaram due to heavy wind and storm.	20-03-2020 20:08	7:48:00	0
31	400 kV Shujalpur-RAPP-I	Line	WR/NR	SO	20-03-2020 12:54	AMP work	20-03-2020 21:15	8:21:00	0
32	400 kV Shujalpur-RAPP-II	Line	WR/NR	SO	21-03-2020 11:08	AMP work	21-03-2020 19:43	8:35:00	0
33	400 kV Siliguri-Bongaigaon-II	Line	ER/NER	SO	15-03-2020 10:08	Normalisation of Jumper arrangement Main Bay (41589A) & Tie bay isolator (41489B)	15-03-2020 13:54	3:46:00	0
34	400 kV VindhyaChal-Rihand-II	Line	WR/NR	TL	13-03-2020 05:52	Tripped during lightening in vindhyaChal ntpc area / Bad weather	13-03-2020 07:56	2:04:00	1
35	400kV Barh-Gorakhpur Ckt-I	Line	ER/NR	TL	07-03-2020 06:07	Y-B-N fault	07-03-2020 08:31	2:24:00	1
36	400kV Barh-Gorakhpur Ckt-II	Line	ER/NR	SC	07-03-2020 09:02	for the stringing at Gandak river of the LILO section on ERS towers .	01-04-2020 00:00	590:58:00	0
37	400kV Jharsuguda-Raigarh-III	Line	ER/WR	SC	19-03-2020 11:05	Tower erection and stringing on diversion part for OPGC MGR Railway	01-04-2020 00:00	300:55:00	0
38	765 kV Gaya-Varanasi-I	Line	ER/NR	SC	15-03-2020 09:20	FOR STRENGTHENING OF 765 KV DELTA TYPE SUSPENSION TYPE TOWERS (WIND ZONE-2)	15-03-2020 20:25	11:05:00	0
39	765 kV Gaya-Varanasi-I	Line	ER/NR	SC	16-03-2020 11:09	FOR STRENGTHENING OF 765 KV DELTA TYPE SUSPENSION TYPE TOWERS (WIND ZONE-2)	16-03-2020 20:14	9:05:00	0
40	765 kV Gaya-Varanasi-I	Line	ER/NR	SC	17-03-2020 09:03	FOR STRENGTHENING OF 765 KV DELTA TYPE SUSPENSION TYPE TOWERS (WIND ZONE-2)	17-03-2020 21:16	12:13:00	0
41	765 kV Gaya-Varanasi-I	Line	ER/NR	SC	18-03-2020 08:48	FOR STRENGTHENING OF 765 KV DELTA TYPE SUSPENSION TYPE TOWERS (WIND ZONE-2)	18-03-2020 19:13	10:25:00	0
42	765 kV Gaya-Varanasi-I	Line	ER/NR	SO	19-03-2020 09:00	FOR STRENGTHENING OF 765 KV DELTA TYPE SUSPENSION TYPE TOWERS (WIND ZONE-2)	19-03-2020 19:22	10:22:00	0
43	765 kV Gaya-Varanasi-I	Line	ER/NR	SO	20-03-2020 09:48	FOR STRENGTHENING OF 765 KV DELTA TYPE SUSPENSION TYPE TOWERS (WIND ZONE-2)	20-03-2020 11:48	2:00:00	0
44	765 kV Gaya-Varanasi-I	Line	ER/NR	SO	21-03-2020 09:25	FOR STRENGTHENING OF 765 KV DELTA TYPE SUSPENSION TYPE TOWERS (WIND ZONE-2)	21-03-2020 20:19	10:54:00	0
45	765 kV Gaya-Varanasi-I	Line	ER/NR	SC	23-03-2020 09:55	FOR STRENGTHENING OF 765 KV DELTA TYPE SUSPENSION TYPE TOWERS (WIND ZONE-2)	23-03-2020 19:39	9:44:00	0
46	765 kV Gwalior-Agra-II	Line	WR/NR	SE	27-03-2020 11:34	To attend hot spot	27-03-2020 12:58	1:24:00	0
47	765 kV New Ranchi-Dharamjaygarh-II	Line	ER/WR	SO	07-03-2020 09:20	AMP works Line	07-03-2020 23:20	14:00:00	0
48	765kV Chittorgarh-Banaskanta-I	Line	NR/WR	MO	24-03-2020 14:50	Manually opened due to High Voltage.	01-04-2020 00:00	177:10:00	0
49	765kV Durg-Jharsuguda Ckt-I	Line	WR/ER	MO	01-03-2020 00:00	Manually opened due to High Voltage.	04-03-2020 11:26	83:26:00	0
50	765kV Durg-Jharsuguda Ckt-I	Line	WR/ER	MO	17-03-2020 13:32	Manually opened due to High Voltage.	01-04-2020 00:00	346:28:00	0
51	765kV Durg-Jharsuguda Ckt-II	Line	WR/ER	MO	08-03-2020 18:30	Manually opened due to High Voltage.	16-03-2020 10:11	183:41:00	0
52	765kV Durg-Jharsuguda Ckt-II	Line	WR/ER	TS	16-03-2020 10:12	Y phase LA failure at Jharsuguda end.	17-03-2020 07:46	21:34:00	1
53	765kV Durg-Jharsuguda Ckt-II	Line	WR/ER	TL	19-03-2020 14:20	Y-phase to Earth fault, Fault Distance:202.5 Kms from Raipur end	19-03-2020 18:02	3:42:00	2
54	765kV Wardha-Nizamabad-2	Line	WR/SR	SE	02-03-2020 09:18	To attend conductor snapping	02-03-2020 22:13	12:55:00	0

List of Outages of Elements monitored by NLDC for the month of March-2020

S. No.	Name of Transmission Element	Type of the element	Region Involved	Category	Tripping Date and Time	Brief Reason/Relay Indication	Restoration Date and Time	Outage Duration	Number of Cumulative tripping in the month
55	Bhadrawati Pole-I	HVDC	WR/SR	TS	01-03-2020 00:00	Failure of the Converter transformer at Bhadrawati end.	04-03-2020 04:11	76:11:00	1
56	Bhadrawati Pole-I	HVDC	WR/SR	TS	18-03-2020 11:46	Tripped due to PLC controller/I/O card error	18-03-2020 12:46	1:00:00	2
57	Bhadrawati Pole-II	HVDC	WR/SR	TL	12-03-2020 14:43	B-N, 66.38KM from BVT and F.C 2.2KA	12-03-2020 20:05	5:22:00	1
58	Biswanath Chariali-Agra Line-I	HVDC	NER/NR	SO	03-03-2020 15:25	Pole-1 went in RVO mode,DC Line fault indication reported at BNC end.	03-03-2020 16:50	0:17:00	0
59	Biswanath Chariali-Agra Line-I	HVDC	NER/NR	MO	09-03-2020 11:04	Pole blocked on High Voltage	12-03-2020 10:24	71:20:00	0
60	Biswanath Chariali-Agra Line-I	HVDC	NER/NR	MO	19-03-2020 09:26	800 kV Agra – BNC Pole 1 blocked to facilitate shutdown of 765/400 kV ICT-1 at Agra.	19-03-2020 10:47	1:21:00	0
61	Biswanath Chariali-Agra Line-I	HVDC	NER/NR	MO	22-03-2020 21:49	Pole blocked on High Voltage	28-03-2020 17:56	140:07:00	0
62	Biswanath Chariali-Agra Line-II	HVDC	NER/NR	MO	01-03-2020 00:00	Manually opened due to High Voltage.	10-03-2020 15:24	231:24:00	0
63	Biswanath Chariali-Agra Line-II	HVDC	NER/NR	SO	11-03-2020 13:13	Pole blocked on High Voltage	22-03-2020 22:46	273:33:00	0
64	Biswanath Chariali-Agra Line-II	HVDC	NER/NR	TS	28-03-2020 16:21	DC Differential Protection Operated at BNC end	01-04-2020 00:00	79:39:00	1
65	Champa-Kurushetra pole-I	HVDC	WR/NR	TS	01-03-2020 00:00	All poles tripped while blocking pole 3 due to control system maloperation.	01-03-2020 09:54	9:54:00	1
66	Champa-Kurushetra pole-I	HVDC	WR/NR	SC	01-03-2020 18:44	Onload testing of Bipole-2(P3 & P4) & Bipole-1 (P1& P2) in Parallel Operation completed	02-03-2020 09:44	15:00:00	1
67	Champa-Kurushetra pole-I	HVDC	WR/NR	SC	02-03-2020 11:19	While deblocking pole-2 at 11:19 hrs, pole immediately tripped.	02-03-2020 12:41	1:22:00	1
68	Champa-Kurushetra pole-I	HVDC	WR/NR	SC	02-03-2020 19:20	For protection trip testing during parallel operation	03-03-2020 08:56	13:36:00	1
69	Champa-Kurushetra pole-I	HVDC	WR/NR	SC	03-03-2020 11:11	De-block Pole 1 without Telecom	03-03-2020 11:44	0:33:00	1
70	Champa-Kurushetra pole-I	HVDC	WR/NR	SC	03-03-2020 16:51	Testing as per Schedule	04-03-2020 16:38	23:47:00	1
71	Champa-Kurushetra pole-I	HVDC	WR/NR	SC	01-03-2020 14:29	Onload testing of Bipole-2 (P3 & P4) & Bipole-1 (P1 & P2) in Parallel Operation	01-03-2020 14:59	0:30:00	1
72	Champa-Kurushetra pole-I	HVDC	WR/NR	SC	01-03-2020 16:52	Tripped due to AC Over Voltage during the deblocking of Pole-2	01-03-2020 17:12	0:20:00	1
73	Champa-Kurushetra pole-I	HVDC	WR/NR	SC	04-03-2020 20:17	Testing as per Schedule	05-03-2020 07:20	11:03:00	1
74	Champa-Kurushetra pole-I	HVDC	WR/NR	SC	05-03-2020 17:44	Testing as per Schedule	08-03-2020 23:19	77:35:00	1
75	Champa-Kurushetra pole-I	HVDC	WR/NR	MO	09-03-2020 01:12	Manually opened due to High Voltage.	09-03-2020 11:16	10:04:00	1
76	Champa-Kurushetra pole-I	HVDC	WR/NR	MO	09-03-2020 21:53	Manually opened due to High Voltage.	12-03-2020 17:54	68:01:00	1
77	Champa-Kurushetra pole-I	HVDC	WR/NR	MO	13-03-2020 16:29	Manually opened due to High Voltage.	16-03-2020 09:47	65:18:00	1
78	Champa-Kurushetra pole-I	HVDC	WR/NR	ME	19-03-2020 12:13	respectively due to climbing of a person in the transmission tower_Tower No;1647 located in Damoh District, MP. De-blocking code issued.	19-03-2020 14:59	2:46:00	1
79	Champa-Kurushetra pole-I	HVDC	WR/NR	MO	21-03-2020 16:36	Manually opened due to High Voltage.	01-04-2020 00:00	247:24:00	1
80	Champa-Kurushetra pole-II	HVDC	WR/NR	TS	01-03-2020 00:00	All poles tripped while blocking pole 3 due to control system maloperation.	01-03-2020 09:57	9:57:00	1
81	Champa-Kurushetra pole-II	HVDC	WR/NR	SC	01-03-2020 18:40	Onload testing of Bipole-2(P3 & P4) & Bipole-1 (P1& P2) in Parallel Operation completed	02-03-2020 09:45	15:05:00	1
82	Champa-Kurushetra pole-II	HVDC	WR/NR	SC	02-03-2020 10:49	For parallel operation testing,While deblocking pole-2 at 11:19 hrs, pole immediately tripped along with pole 1	02-03-2020 12:40	1:51:00	1
83	Champa-Kurushetra pole-II	HVDC	WR/NR	SC	02-03-2020 14:01	For parallel operation testing	02-03-2020 14:49	0:48:00	1
84	Champa-Kurushetra pole-II	HVDC	WR/NR	SC	02-03-2020 19:58	For protection trip testing during parallel operation	03-03-2020 09:11	13:13:00	1
85	Champa-Kurushetra pole-II	HVDC	WR/NR	SC	03-03-2020 10:58	De-block Pole 3 with Minimum Power without Telecom	03-03-2020 11:45	0:47:00	1
86	Champa-Kurushetra pole-II	HVDC	WR/NR	SC	03-03-2020 16:34	Testing as per Schedule	04-03-2020 17:44	25:10:00	1
87	Champa-Kurushetra pole-II	HVDC	WR/NR	SC	01-03-2020 16:29	Onload testing of Bipole-2 (P3 & P4) & Bipole-1 (P1 & P2) in Parallel Operation	01-03-2020 16:52	0:23:00	1
88	Champa-Kurushetra pole-II	HVDC	WR/NR	SC	01-03-2020 16:52	Tripped due to AC Over Voltage during the deblocking.	01-03-2020 17:23	0:31:00	1
89	Champa-Kurushetra pole-II	HVDC	WR/NR	SC	04-03-2020 20:17	Testing as per Schedule	05-03-2020 07:21	11:04:00	1
90	Champa-Kurushetra pole-II	HVDC	WR/NR	SC	05-03-2020 13:02	Testing as per Schedule	05-03-2020 13:43	0:41:00	1
91	Champa-Kurushetra pole-II	HVDC	WR/NR	SC	05-03-2020 17:44	Testing as per Schedule	08-03-2020 23:18	77:34:00	1
92	Champa-Kurushetra pole-II	HVDC	WR/NR	MO	10-03-2020 00:27	Manually opened due to High Voltage.	12-03-2020 17:55	65:28:00	1
93	Champa-Kurushetra pole-II	HVDC	WR/NR	SE	13-03-2020 18:05	Due to Tap changer hunting	13-03-2020 18:47	0:42:00	1
94	Champa-Kurushetra pole-II	HVDC	WR/NR	MO	13-03-2020 18:47	Manually opened due to High Voltage.	14-03-2020 19:54	25:07:00	1
95	Champa-Kurushetra pole-II	HVDC	WR/NR	MO	16-03-2020 13:17	Manually opened due to High Voltage.	16-03-2020 18:22	5:05:00	1
96	Champa-Kurushetra pole-II	HVDC	WR/NR	MO	18-03-2020 21:30	Manually opened due to High Voltage.	01-04-2020 00:00	314:30:00	1
97	Champa-Kurushetra pole-III	HVDC	WR/NR	TS	01-03-2020 00:00	All poles tripped while blocking pole 3 due to control system maloperation.	01-03-2020 11:17	11:17:00	1
98	Champa-Kurushetra pole-III	HVDC	WR/NR	SC	02-03-2020 15:41	For parallel operation testing	02-03-2020 16:24	0:43:00	1
99	Champa-Kurushetra pole-III	HVDC	WR/NR	SC	02-03-2020 19:20	For protection trip testing during parallel operation	03-03-2020 09:44	14:24:00	1
100	Champa-Kurushetra pole-III	HVDC	WR/NR	SC	03-03-2020 10:14	De-block Pole 2 without Telecom	03-03-2020 12:10	1:56:00	1
101	Champa-Kurushetra pole-III	HVDC	WR/NR	SC	03-03-2020 16:51	Testing as per Schedule	04-03-2020 16:38	23:47:00	1
102	Champa-Kurushetra pole-III	HVDC	WR/NR	SC	01-03-2020 15:23	Onload testing of Bipole-2 (P3 & P4) & Bipole-1 (P1 & P2) in Parallel Operation	01-03-2020 16:13	0:50:00	1
103	Champa-Kurushetra pole-III	HVDC	WR/NR	SC	01-03-2020 18:23	Onload testing of Bipole-2 (P3 & P4) & Bipole-1 (P1 & P2) in Parallel Operation completed	02-03-2020 10:10	15:47:00	1
104	Champa-Kurushetra pole-III	HVDC	WR/NR	SC	05-03-2020 11:00	Testing as per Schedule	05-03-2020 11:37	0:37:00	1
105	Champa-Kurushetra pole-III	HVDC	WR/NR	SC	05-03-2020 18:03	Testing as per Schedule	06-03-2020 07:35	13:32:00	1

List of Outages of Elements monitored by NLDC for the month of March-2020

S. No.	Name of Transmission Element	Type of the element	Region Involved	Category	Tripping Date and Time	Brief Reason/Relay Indication	Restoration Date and Time	Outage Duration	Number of Cumulative tripping in the month
106	Champa-Kurushetra pole-III	HVDC	WR/NR	SC	07-03-2020 18:26	Testing as per Schedule	09-03-2020 17:52	47:26:00	1
107	Champa-Kurushetra pole-III	HVDC	WR/NR	SE	12-03-2020 10:16	For calibration of DMR-1&2.	12-03-2020 19:16	9:00:00	1
108	Champa-Kurushetra pole-III	HVDC	WR/NR	MO	13-03-2020 00:10	Manually opened due to High Voltage.	13-03-2020 11:39	11:29:00	1
109	Champa-Kurushetra pole-III	HVDC	WR/NR	MO	14-03-2020 21:39	Manually opened due to High Voltage.	21-03-2020 17:08	163:29:00	1
110	Champa-Kurushetra pole-III	HVDC	WR/NR	MO	25-03-2020 01:52	Manually opened due to High Voltage.	01-04-2020 00:00	166:08:00	1
111	Champa-Kurushetra pole-IV	HVDC	WR/NR	SC	02-03-2020 14:01	For parallel operation testing	02-03-2020 14:28	0:27:00	0
112	Champa-Kurushetra pole-IV	HVDC	WR/NR	SC	02-03-2020 19:38	For protection trip testing during parallel operation	03-03-2020 09:53	14:15:00	0
113	Champa-Kurushetra pole-IV	HVDC	WR/NR	SC	03-03-2020 10:14	De-block Pole 4 with Minimum Power without Telecom	03-03-2020 12:31	2:17:00	0
114	Champa-Kurushetra pole-IV	HVDC	WR/NR	SC	03-03-2020 17:15	Testing as per Schedule	03-03-2020 18:01	0:46:00	0
115	Champa-Kurushetra pole-IV	HVDC	WR/NR	SC	01-03-2020 17:30	Onload testing of Bipole-2 (P3 & P4) & Bipole-1 (P1 & P2) in Parallel Operation	01-03-2020 17:49	0:19:00	0
116	Champa-Kurushetra pole-IV	HVDC	WR/NR	SC	01-03-2020 18:03	Onload testing of Bipole-2 (P3 & P4) & Bipole-1 (P1 & P2) in Parallel Operation	02-03-2020 10:11	16:08:00	0
117	Champa-Kurushetra pole-IV	HVDC	WR/NR	SC	04-03-2020 10:00	Taken in RVO mode for testing.	04-03-2020 10:31	0:31:00	0
118	Champa-Kurushetra pole-IV	HVDC	WR/NR	SC	04-03-2020 12:24	for filter line testing	04-03-2020 12:57	0:33:00	0
119	Champa-Kurushetra pole-IV	HVDC	WR/NR	SC	04-03-2020 13:10	Simulate AC>DC trip at Champa	04-03-2020 19:12	6:02:00	0
120	Champa-Kurushetra pole-IV	HVDC	WR/NR	SC	05-03-2020 13:02	Testing as per Schedule	05-03-2020 13:43	0:41:00	0
121	Champa-Kurushetra pole-IV	HVDC	WR/NR	TL	11-03-2020 17:44	Due to some issue in DMR line at higher unbalance current, some minor fault is observed in Pole 3 and Pole 4 protection system.	13-03-2020 11:13	41:29:00	1
122	Champa-Kurushetra pole-IV	HVDC	WR/NR	TS	16-03-2020 16:16	Tripped on AC under voltage protection at Kurukshetra end	18-03-2020 19:52	51:36:00	2
123	Champa-Kurushetra pole-IV	HVDC	WR/NR	ME	19-03-2020 12:20	respectively due to climbing of a person in the transmission tower_Tower No;1647 located in Damoh District, MP.	19-03-2020 15:21	3:01:00	2
124	Gazuwaka Pole-I	HVDC	ER/SR	TS	03-03-2020 11:39	block-1 tripped due to multiple Thyristor failure at Gajuwaka	03-03-2020 17:09	5:30:00	1
125	Gazuwaka Pole-I	HVDC	ER/SR	TS	04-03-2020 12:28	Thyristor side problem	05-03-2020 04:01	15:33:00	2
126	Gazuwaka Pole-II	HVDC	ER/SR	TS	21-03-2020 12:15	Auxiliary supply failure	21-03-2020 13:49	1:34:00	1
127	HVDC Agra-Alipurduar Line-3	HVDC	NR/ER	MO	01-03-2020 00:00	Pole blocked on High Voltage	09-03-2020 10:29	202:29:00	0
128	HVDC Agra-Alipurduar Line-3	HVDC	NR/ER	MO	09-03-2020 22:22	Pole blocked on High Voltage	01-04-2020 00:00	529:38:00	0
129	HVDC Agra-Alipurduar Line-4	HVDC	NR/ER	MO	01-03-2020 00:00	Pole blocked on High Voltage	11-03-2020 11:05	251:05:00	0
130	HVDC Agra-Alipurduar Line-4	HVDC	NR/ER	MO	12-03-2020 09:20	Pole blocked on High Voltage	01-04-2020 00:00	470:40:00	0
131	Mundra-Mahendragarh-Pole-I	HVDC	WR/NR	SE	26-03-2020 07:41	H/T at Mundra end. Heavy abnormal sound observed from PLC filter during heavy rain	26-03-2020 08:25	0:44:00	0
132	VindhyaChal Pole-I	HVDC	WR/NR	TS	06-03-2020 21:08	Thyristor Failure level 2 alarm	07-03-2020 02:00	4:52:00	1
133	VindhyaChal Pole-I	HVDC	WR/NR	TS	11-03-2020 13:01	DC over current protection optd.	11-03-2020 15:09	2:08:00	2
134	VindhyaChal Pole-I	HVDC	WR/NR	TS	12-03-2020 19:25	DC over current protection operated	12-03-2020 21:36	2:11:00	3
135	VindhyaChal Pole-I	HVDC	WR/NR	TS	13-03-2020 06:06	Tripped on DC over current protection operated due to disturbance in western side NTPC switch yard	13-03-2020 10:25	4:19:00	4
136	VindhyaChal Pole-I	HVDC	WR/NR	TS	14-03-2020 05:26	DC overcurrent protection trip.	14-03-2020 12:03	6:37:00	5

List of Outages of Elements monitored by NLDC for the month of March-2020

S. No.	Name of Transmission Element	Type of the element	Region Involved	Category	Tripping Date and Time	Brief Reason/Relay Indication	Restoration Date and Time	Outage Duration	Number of Cumulative tripping in the month
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Transnational Elements

S. No.	Name of Transmission Element	Type of the element	Region Involved	Category	Tripping Date and Time	Brief Reason/Relay Indication	Restoration Date and Time	Outage Duration	Number of Cumulative tripping in the month
1	132 kV Kataiya-Kusaha	Line	Nepal	TL	04-03-2020 13:15	R-Phase fault.	04-03-2020 13:48	0:33:00	1
2	132 kV Kataiya-Kusaha	Line	Nepal	SO	21-03-2020 11:30	Work on 132 kV New Kushaha Circuit at Kushaha-Rupani section	21-03-2020 16:50	5:20:00	0
3	132 kV Salakati-Gelephu	Line	Bhutan	SC	03-03-2020 08:58	For carrying out stringing in 400 KV D/C (Quad) Jigmeling - Alipurduar TL between loc. AP44 - AP45 and AP49 - AP49A	03-03-2020 17:54	8:56:00	0
4	132 kV Salakati-Gelephu	Line	Bhutan	SC	04-03-2020 08:35	for carrying out stringing in 400 KV D/C (Quad) Jigmeling - Alipurduar TL	04-03-2020 18:27	9:52:00	0
5	132 kV Salakati-Gelephu	Line	Bhutan	SO	05-03-2020 08:51	for carrying out stringing in 400 KV D/C (Quad) Jigmeling - Alipurduar TL	05-03-2020 18:23	9:32:00	0
6	132kV Rangia-Deothang S/C	Line	Bhutan	SO	12-03-2020 11:07	CT replacement at Rangia end due to violation in Tan Delta result.	12-03-2020 16:30	5:23:00	0
7	220 kV Chukha - Birpara - I	Line	Bhutan	MO	01-03-2020 15:44	Manually opened due to High Voltage.	14-03-2020 16:00	312:16:00	0
8	220 kV Chukha - Birpara - I	Line	Bhutan	TL	23-03-2020 12:04	R-N Fault	23-03-2020 12:33	0:29:00	1
9	220 kV Chukha - Birpara - I	Line	Bhutan	SO	23-03-2020 15:07	To check the emergency protection of auto re-closure at Bhutan end	23-03-2020 20:47	5:40:00	1
10	220 kV Chukha - Birpara - II	Line	Bhutan	TL	03-03-2020 21:22	Tripped on 3-Ph fault; FC=4kA,FD=13.37km from Chukha end.	03-03-2020 22:45	1:23:00	1
11	220 kV Chukha - Birpara - II	Line	Bhutan	MO	21-03-2020 22:28	Manually opened due to High Voltage.	23-03-2020 08:24	33:56:00	1
12	220 kV Malbase - Birpara	Line	Bhutan	SO	17-03-2020 15:38	CVT replacement at Birpara	17-03-2020 20:32	4:54:00	0
13	220 Kv Muzaffarpur-Dhalkebar-I	Line	Nepal	TP	28-03-2020 18:49	ICT-1 main bay breaker maloperated	28-03-2020 20:17	1:28:00	1
14	220 Kv Muzaffarpur-Dhalkebar-I	Line	Nepal	TS	28-03-2020 18:49	ICT-1 main bay breaker maloperated	28-03-2020 20:17	1:28:00	2
15	220 Kv Muzaffarpur-Dhalkebar-II	Line	Nepal	TL	07-03-2020 06:06	Phase to phase fault Y-B Tripped on Y-B Fault	07-03-2020 15:59	9:53:00	1
16	400 kV Malbase - Binaguri - I	Line	Bhutan	TS	28-03-2020 15:04	R phase fault with fault Current IR=2.185kA	28-03-2020 15:54	0:50:00	1
17	400 kV Tala - Binaguri - I	Line	Bhutan	SE	01-03-2020 00:00	E/S/D to attend B-Ph CB oil pressure high at Tala (line is anti theft charged since 18:10 10-02-2020) (said ckt availed s/d at 12:43 by Bhutan for maintenance till 17hrs of 18/2/2020)	17-03-2020 12:23	396:23:00	1
18	400 kV Tala - Binaguri - I	Line	Bhutan	TL	20-03-2020 14:17	B-N fault, FC=3.2kA, 39km towards Binaguri.	20-03-2020 14:56	0:39:00	1
19	400 kV Tala - Binaguri - II	Line	Bhutan	SO	01-03-2020 00:00	For maintenance work	01-04-2020 00:00	744:00:00	0
20	400 kV Tala - Binaguri - IV	Line	Bhutan	MO	17-03-2020 20:54	Manually opened due to High Voltage.	19-03-2020 09:54	37:00:00	0
21	400 kV Tala - Binaguri - IV	Line	Bhutan	SO	19-03-2020 09:55	for replacement of broken insulator on R phase & also other two phase both side with polymer	21-03-2020 14:44	52:49:00	0
22	400 kV Tala - Binaguri - IV	Line	Bhutan	MO	21-03-2020 14:45	Manually opened due to High Voltage.	24-03-2020 11:49	69:04:00	0
23	400 kV Tala - Binaguri - IV	Line	Bhutan	SO	24-03-2020 11:49	for testing of Auto Reclosure at Tala end	01-04-2020 00:00	180:11:00	0
24	400kV Alipurduar-Jingmeling-I	Line	ER/BHUTAN	MO	12-03-2020 14:30	Manually opened due to High Voltage.	01-04-2020 00:00	465:30:00	0

List of Outages of Elements monitored by NLDC for the month of March-2020

S. No.	Name of Transmission Element	Type of the element	Region Involved	Category	Tripping Date and Time	Brief Reason/Relay Indication	Restoration Date and Time	Outage Duration	Number of Cumulative tripping in the month
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Northern Region Elements

S. No.	Name of Transmission Element	Type of the element	Region Involved	Category	Tripping Date and Time	Brief Reason/Relay Indication	Restoration Date and Time	Outage Duration	Number of Cumulative tripping in the month
Northern Region Elements									
1	B/R-I at Fatehabad	Bus Reactor	NR	SO	18-03-2020 09:48	For Annual Testing of Relay and Maintenance of unit	18-03-2020 20:03	10:15:00	0
2	HVDC Agra Pole-1	HVDC	NR	SO	03-03-2020 15:25	Pole-1 went in RVO mode, DC Line fault indication reported at BNC end.	03-03-2020 16:50	0:17:00	0
3	HVDC Agra Pole-1	HVDC	NR	MO	09-03-2020 11:04	Pole blocked on High Voltage	12-03-2020 10:24	71:20:00	0
4	HVDC Agra Pole-1	HVDC	NR	MO	19-03-2020 09:26	800 KV Agra – BNC Pole 1 blocked to facilitate shutdown of 765/400 KV ICT-1 at Agra.	19-03-2020 10:47	1:21:00	0
5	HVDC Agra Pole-1	HVDC	NR	MO	22-03-2020 21:49	Pole blocked on High Voltage	28-03-2020 17:56	140:07:00	0
6	HVDC Agra Pole-2	HVDC	NR	MO	01-03-2020 00:00	Manually opened due to High Voltage.	10-03-2020 15:24	231:24:00	0
7	HVDC Agra Pole-2	HVDC	NR	MO	12-03-2020 09:20	Pole blocked on High Voltage	22-03-2020 22:46	253:26:00	0
8	HVDC Agra Pole-2	HVDC	NR	TS	28-03-2020 16:21	DC Differential Protection Operated at BNC end	01-04-2020 00:00	79:39:00	1
9	HVDC Agra Pole-3	HVDC	NR	MO	01-03-2020 00:00	Pole blocked on High Voltage	09-03-2020 10:29	202:29:00	0
10	HVDC Agra Pole-3	HVDC	NR	MO	09-03-2020 22:22	Pole blocked on High Voltage	01-04-2020 00:00	529:38:00	0
11	HVDC Agra Pole-4	HVDC	NR	MO	01-03-2020 00:00	Pole blocked on High Voltage	01-04-2020 00:00	744:00:00	0
12	765/400 KV ICT-I at Agra	ICT	NR	SO	19-03-2020 09:06	for commissioning of Backup Impedance relay	19-03-2020 19:51	10:45:00	0
13	765/400 KV ICT-I at G'Noida	ICT	NR	TP	25-03-2020 13:40	mal-operated of BUCHHOLZ relay operated in zigzag transformer tertiary side.	25-03-2020 16:03	2:23:00	1
14	765/400 KV ICT-I at Phagi	ICT	NR	TL	18-03-2020 15:59	To replace the damaged Y Phase isolator (407-89CTY) of ICT-1	18-03-2020 23:29	7:30:00	1
15	765/400 KV ICT-II at Agra	ICT	NR	SO	20-03-2020 08:22	For commissioning of Backup Impedance relay	20-03-2020 18:09	9:47:00	0
16	765/400 KV ICT-II at Anpara C	ICT	NR	SO	01-03-2020 00:00	for Maintenance, Inspection & Testing purpose	04-03-2020 12:34	84:34:00	0
17	765/400 KV ICT-II at Antah	ICT	NR	SO	17-03-2020 11:26	FOR 1st Quarter maintenance. For normalisation of Sapre ICT & take R ph ICT -2 in circuit with ICT Bank -2	17-03-2020 18:25	6:59:00	0
18	765/400 KV ICT-III at Antah	ICT	NR	SO	18-03-2020 10:42	Replacement of Sapre ICT in placed of Y ph ICT -3. For replacement work of defective balloon for maintaining air cell in conservator of ICT-3, Y Phase.	18-03-2020 17:36	6:54:00	0
19	765 KV Moga-Meerut	Line	NR	MO	02-03-2020 20:43	Manually opened due to High Voltage.	03-03-2020 08:41	11:58:00	0
20	765 KV Moga-Meerut	Line	NR	MO	03-03-2020 21:52	Manually opened due to High Voltage.	04-03-2020 08:49	10:57:00	0
21	765 KV Moga-Meerut	Line	NR	TL	04-03-2020 19:05	Tripped on B-N fault , Dist : 21.44Km & Fault current 10.38 kA from Meerut end.	04-03-2020 22:37	3:32:00	1
22	765 KV Moga-Meerut	Line	NR	MO	04-03-2020 23:00	Manually opened due to High Voltage.	05-03-2020 09:13	10:13:00	1
23	765 KV Moga-Meerut	Line	NR	SC	05-03-2020 09:25	For stringing of 765KV Koteshwar-Meerut-II line between span -1B-2B.	05-03-2020 16:35	7:10:00	1
24	765 KV Moga-Meerut	Line	NR	MO	05-03-2020 16:36	Manually opened due to High Voltage.	07-03-2020 07:51	39:15:00	1
25	765 KV Moga-Meerut	Line	NR	MO	07-03-2020 13:05	Manually opened due to High Voltage.	09-03-2020 08:44	43:39:00	1
26	765 KV Moga-Meerut	Line	NR	MO	09-03-2020 13:10	Manually opened due to High Voltage.	16-03-2020 08:49	163:39:00	1
27	765 KV Moga-Meerut	Line	NR	MO	16-03-2020 13:15	Manually opened due to High Voltage.	17-03-2020 07:25	18:10:00	1
28	765 KV Moga-Meerut	Line	NR	MO	17-03-2020 12:56	Manually opened due to High Voltage.	18-03-2020 06:33	17:37:00	1
29	765 KV Moga-Meerut	Line	NR	MO	18-03-2020 14:14	Manually opened due to High Voltage.	20-03-2020 09:40	43:26:00	1
30	765 KV Moga-Meerut	Line	NR	MO	20-03-2020 20:51	Manually opened due to High Voltage.	01-04-2020 00:00	267:09:00	1
31	765kV Ajmer - Chittorgarh Ckt-I	Line	NR	MO	03-03-2020 20:21	Manually opened due to High Voltage.	04-03-2020 07:12	10:51:00	0
32	765kV Ajmer - Chittorgarh Ckt-I	Line	NR	MO	08-03-2020 22:14	Manually opened due to High Voltage.	09-03-2020 07:13	8:59:00	0
33	765kV Ajmer - Chittorgarh Ckt-I	Line	NR	MO	10-03-2020 20:43	Manually opened due to High Voltage.	11-03-2020 09:01	12:18:00	0
34	765kV Ajmer - Chittorgarh Ckt-I	Line	NR	MO	27-03-2020 02:16	Manually opened due to High Voltage.	27-03-2020 07:18	5:02:00	0
35	765kV Ajmer-Bikaner Ckt-I	Line	NR	MO	06-03-2020 01:11	Manually opened due to High Voltage.	06-03-2020 04:48	3:37:00	0
36	765kV Ajmer-Bikaner Ckt-I	Line	NR	MO	11-03-2020 17:47	Manually opened due to High Voltage.	12-03-2020 10:47	17:00:00	0
37	765kV Ajmer-Chittorgarh Ckt-II	Line	NR	MO	05-03-2020 22:19	Manually opened due to High Voltage.	06-03-2020 10:26	12:07:00	0
38	765kV Ajmer-Chittorgarh Ckt-II	Line	NR	MO	09-03-2020 20:26	Manually opened due to High Voltage.	10-03-2020 08:04	11:38:00	0
39	765kV Ajmer-Chittorgarh Ckt-II	Line	NR	MO	12-03-2020 21:02	Manually opened due to High Voltage.	13-03-2020 10:19	13:17:00	0
40	765kV Aligarh-G.Noida	Line	NR	TS	30-03-2020 15:31	B-Ph Jumper broken at loc 304	30-03-2020 18:39	3:08:00	1
41	765kV Aligarh-Orai Ckt-1	Line	NR	MO	05-03-2020 01:34	Manually opened due to High Voltage.	05-03-2020 07:49	6:15:00	0
42	765kV Aligarh-Orai Ckt-1	Line	NR	MO	11-03-2020 01:06	Manually opened due to High Voltage.	11-03-2020 06:56	5:50:00	0
43	765kV Aligarh-Orai Ckt-1	Line	NR	MO	13-03-2020 02:30	Manually opened due to High Voltage.	14-03-2020 08:37	30:07:00	0
44	765kV Aligarh-Orai Ckt-2	Line	NR	MO	06-03-2020 01:38	Manually opened due to High Voltage.	06-03-2020 07:28	5:50:00	0
45	765kV Anpara C-Unnao	Line	NR	TL	01-03-2020 02:23	Unnao: Zone1 Transient Fault,Distance-68.98km,B-phase	01-03-2020 07:41	5:18:00	1
46	765kV Antah-Phagi-I	Line	NR	MO	27-03-2020 22:49	Manually opened due to High Voltage.	01-04-2020 00:00	97:11:00	0
47	765kV Bikaner-Bhadla Ckt-I	Line	NR	SO	09-03-2020 15:16	To attend missing dead nuts	09-03-2020 18:26	3:10:00	0
48	765kV Fatehabad-Lalitpur-II	Line	NR	MO	01-03-2020 00:00	Manually opened due to High Voltage.	01-04-2020 00:00	744:00:00	0
49	765kV Fatehpur-Agra-I	Line	NR	MO	05-03-2020 00:42	Manually opened due to High Voltage.	06-03-2020 11:01	34:19:00	0
50	765kV Fatehpur-Agra-I	Line	NR	MO	06-03-2020 23:57	Manually opened due to High Voltage.	07-03-2020 06:06	6:09:00	0
51	765kV Fatehpur-Agra-I	Line	NR	MO	07-03-2020 13:00	Manually opened due to High Voltage.	09-03-2020 06:08	41:08:00	0

List of Outages of Elements monitored by NLDC for the month of March-2020

S. No.	Name of Transmission Element	Type of the element	Region Involved	Category	Tripping Date and Time	Brief Reason/Relay Indication	Restoration Date and Time	Outage Duration	Number of Cumulative tripping in the month
52	765kV Fatehpur-Agra-I	Line	NR	MO	10-03-2020 15:23	Manually opened due to High Voltage.	11-03-2020 05:39	14:16:00	0
53	765kV Fatehpur-Agra-I	Line	NR	MO	12-03-2020 01:58	Manually opened due to High Voltage.	13-03-2020 07:39	29:41:00	0
54	765kV Fatehpur-Agra-I	Line	NR	MO	14-03-2020 23:25	Manually opened due to High Voltage.	15-03-2020 07:31	8:06:00	0
55	765kV Fatehpur-Agra-I	Line	NR	MO	16-03-2020 12:41	Manually opened due to High Voltage.	23-03-2020 07:41	163:00:00	0
56	765kV Fatehpur-Agra-I	Line	NR	MO	24-03-2020 17:15	Manually opened due to High Voltage.	01-04-2020 00:00	174:45:00	0
57	765kV Fatehpur-Agra-II	Line	NR	MO	03-03-2020 12:37	Manually opened due to High Voltage.	05-03-2020 06:51	42:14:00	0
58	765kV Fatehpur-Agra-II	Line	NR	MO	05-03-2020 21:27	Manually opened due to High Voltage.	07-03-2020 08:59	35:32:00	0
59	765kV Fatehpur-Agra-II	Line	NR	MO	07-03-2020 23:46	Manually opened due to High Voltage.	08-03-2020 07:39	7:53:00	0
60	765kV Fatehpur-Agra-II	Line	NR	MO	09-03-2020 02:15	Manually opened due to High Voltage.	12-03-2020 06:30	76:15:00	0
61	765kV Fatehpur-Agra-II	Line	NR	MO	13-03-2020 12:52	Manually opened due to High Voltage.	14-03-2020 07:37	18:45:00	0
62	765kV Fatehpur-Agra-II	Line	NR	MO	15-03-2020 13:21	Manually opened due to High Voltage.	16-03-2020 09:19	19:58:00	0
63	765kV Fatehpur-Agra-II	Line	NR	MO	22-03-2020 17:10	Manually opened due to High Voltage.	01-04-2020 00:00	222:50:00	0
64	765kV G'Noida-Mainpuri	Line	NR	TL	27-03-2020 12:53	B-N fault	27-03-2020 14:15	1:22:00	1
65	765kV Jabalpur-Orai Ckt-2	Line	NR	TL	11-03-2020 13:01	RY fault (242km from Orai,4.5KA).Line patrolling is under	11-03-2020 16:58	3:57:00	1
66	765kV Jabalpur-Orai Ckt-2	Line	NR	SO	15-03-2020 06:23	for Restoration of the 765 KV 716 Main Bay of 765kV Orai-Jabalpur- 2 .	15-03-2020 10:53	4:30:00	1
67	765kV Kanpur-Aligarh	Line	NR	MO	13-03-2020 13:05	After tripping on over voltage,Line kept open due to high voltage.	14-03-2020 06:42	17:37:00	0
68	765kV Kanpur-Aligarh	Line	NR	MO	01-03-2020 15:09	Manually opened due to High Voltage.	03-03-2020 07:03	39:54:00	0
69	765kV Kanpur-Aligarh	Line	NR	MO	03-03-2020 21:27	Manually opened due to High Voltage.	04-03-2020 07:29	10:02:00	0
70	765kV Kanpur-Aligarh	Line	NR	MO	04-03-2020 20:11	Manually opened due to High Voltage.	05-03-2020 08:23	12:12:00	0
71	765kV Kanpur-Aligarh	Line	NR	MO	05-03-2020 20:12	Manually opened due to High Voltage.	09-03-2020 05:33	81:21:00	0
72	765kV Kanpur-Aligarh	Line	NR	MO	09-03-2020 13:10	Manually opened due to High Voltage.	11-03-2020 07:57	42:47:00	0
73	765kV Kanpur-Aligarh	Line	NR	MO	11-03-2020 12:33	Manually opened due to High Voltage.	12-03-2020 07:45	19:12:00	0
74	765kV Kanpur-Aligarh	Line	NR	MO	12-03-2020 22:42	Manually opened due to High Voltage.	13-03-2020 07:03	8:21:00	0
75	765kV Kanpur-Aligarh	Line	NR	TV	13-03-2020 13:00	Tripped on O/V	13-03-2020 13:05	0:05:00	1
76	765kV Kanpur-Aligarh	Line	NR	MO	14-03-2020 13:11	Manually opened due to High Voltage.	15-03-2020 09:40	20:29:00	1
77	765kV Kanpur-Aligarh	Line	NR	MO	15-03-2020 13:52	Manually opened due to High Voltage.	16-03-2020 08:57	19:05:00	1
78	765kV Kanpur-Aligarh	Line	NR	MO	17-03-2020 01:20	Manually opened due to High Voltage.	17-03-2020 07:57	6:37:00	1
79	765kV Kanpur-Aligarh	Line	NR	MO	17-03-2020 23:48	Manually opened due to High Voltage.	18-03-2020 06:48	7:00:00	1
80	765kV Kanpur-Aligarh	Line	NR	MO	18-03-2020 21:30	Manually opened due to High Voltage.	19-03-2020 06:24	8:54:00	1
81	765kV Kanpur-Aligarh	Line	NR	MO	19-03-2020 21:01	Manually opened due to High Voltage.	20-03-2020 07:44	10:43:00	1
82	765kV Kanpur-Aligarh	Line	NR	MO	20-03-2020 20:38	Manually opened due to High Voltage.	23-03-2020 09:03	60:25:00	1
83	765kV Kanpur-Aligarh	Line	NR	MO	23-03-2020 16:08	Manually opened due to High Voltage.	01-04-2020 00:00	199:52:00	1
84	765kV Meerut-Bhiwani(PG)	Line	NR	MO	01-03-2020 00:00	Manually opened due to High Voltage.	05-03-2020 09:50	105:50:00	0
85	765kV Meerut-Bhiwani(PG)	Line	NR	MO	05-03-2020 21:26	Manually opened due to High Voltage.	01-04-2020 00:00	626:34:00	0
86	765kV Moga-Bhiwani(PG)	Line	NR	MO	10-03-2020 23:18	Manually opened due to High Voltage.	11-03-2020 07:16	7:58:00	0
87	765kV Moga-Bhiwani(PG)	Line	NR	MO	11-03-2020 13:34	Manually opened due to High Voltage.	12-03-2020 06:22	16:48:00	0
88	765kV Moga-Bhiwani(PG)	Line	NR	MO	14-03-2020 15:10	Manually opened due to High Voltage.	16-03-2020 10:25	43:15:00	0
89	765kV Moga-Bhiwani(PG)	Line	NR	MO	27-03-2020 00:41	Manually opened due to High Voltage.	01-04-2020 00:00	119:19:00	0
90	765kV Moga-Bikaner Ckt-I	Line	NR	MO	10-03-2020 20:43	Manually opened due to High Voltage.	11-03-2020 11:24	14:41:00	0
91	765kV Moga-Bikaner Ckt-I	Line	NR	MO	12-03-2020 21:03	Manually opened due to High Voltage.	13-03-2020 06:37	9:34:00	0
92	765kV Moga-Bikaner Ckt-I	Line	NR	MO	15-03-2020 17:14	Manually opened due to High Voltage.	16-03-2020 06:04	12:50:00	0
93	765kV Moga-Bikaner Ckt-I	Line	NR	MO	17-03-2020 20:18	Manually opened due to High Voltage.	18-03-2020 10:29	14:11:00	0
94	765kV Moga-Bikaner Ckt-I	Line	NR	MO	19-03-2020 21:20	Manually opened due to High Voltage.	20-03-2020 06:13	8:53:00	0
95	765kV Moga-Bikaner Ckt-I	Line	NR	MO	21-03-2020 21:16	Manually opened due to High Voltage.	22-03-2020 06:05	8:49:00	0
96	765kV Moga-Bikaner Ckt-I	Line	NR	MO	27-03-2020 16:36	Manually opened due to High Voltage.	01-04-2020 00:00	103:24:00	0
97	765kV Moga-Bikaner Ckt-II	Line	NR	MO	11-03-2020 21:27	Manually opened due to High Voltage.	12-03-2020 11:02	13:35:00	0
98	765kV Moga-Bikaner Ckt-II	Line	NR	MO	13-03-2020 21:10	Manually opened due to High Voltage.	14-03-2020 07:47	10:37:00	0
99	765kV Moga-Bikaner Ckt-II	Line	NR	MO	16-03-2020 17:14	Manually opened due to High Voltage.	17-03-2020 09:29	16:15:00	0
100	765kV Moga-Bikaner Ckt-II	Line	NR	MO	18-03-2020 17:17	Manually opened due to High Voltage.	19-03-2020 07:01	13:44:00	0
101	765kV Moga-Bikaner Ckt-II	Line	NR	MO	20-03-2020 18:18	Manually opened due to High Voltage.	21-03-2020 05:55	11:37:00	0
102	765kV Moga-Bikaner Ckt-II	Line	NR	MO	22-03-2020 14:09	Manually opened due to High Voltage.	27-03-2020 09:39	115:30:00	0
103	765kV Phagi-Bhiwani-I	Line	NR	MO	02-03-2020 01:13	Manually opened due to High Voltage.	02-03-2020 06:45	5:32:00	0
104	765kV Phagi-Bhiwani-I	Line	NR	MO	04-03-2020 23:11	Manually opened due to High Voltage.	05-03-2020 08:05	8:54:00	0
105	765kV Phagi-Bhiwani-I	Line	NR	MO	06-03-2020 13:14	Manually opened due to High Voltage.	07-03-2020 07:51	18:37:00	0
106	765kV Phagi-Bhiwani-I	Line	NR	MO	08-03-2020 22:08	Manually opened due to High Voltage.	09-03-2020 07:29	9:21:00	0
107	765kV Phagi-Bhiwani-I	Line	NR	MO	11-03-2020 22:02	Manually opened due to High Voltage.	12-03-2020 08:26	10:24:00	0
108	765kV Phagi-Bhiwani-I	Line	NR	MO	13-03-2020 21:24	Manually opened due to High Voltage.	14-03-2020 09:25	12:01:00	0
109	765kV Phagi-Bhiwani-I	Line	NR	MO	15-03-2020 21:30	Manually opened due to High Voltage.	16-03-2020 06:34	9:04:00	0
110	765kV Phagi-Bhiwani-I	Line	NR	MO	20-03-2020 23:25	Manually opened due to High Voltage.	21-03-2020 08:19	8:54:00	0

List of Outages of Elements monitored by NLDC for the month of March-2020

S. No.	Name of Transmission Element	Type of the element	Region Involved	Category	Tripping Date and Time	Brief Reason/Relay Indication	Restoration Date and Time	Outage Duration	Number of Cumulative tripping in the month
111	765kV Phagi-Bhiwani-I	Line	NR	MO	24-03-2020 02:41	Manually opened due to High Voltage.	24-03-2020 07:13	4:32:00	0
112	765kV Phagi-Bhiwani-II	Line	NR	MO	03-03-2020 01:40	Manually opened due to High Voltage.	03-03-2020 06:11	4:31:00	0
113	765kV Phagi-Bhiwani-II	Line	NR	MO	05-03-2020 21:41	Manually opened due to High Voltage.	06-03-2020 08:17	10:36:00	0
114	765kV Phagi-Bhiwani-II	Line	NR	MO	08-03-2020 00:10	Manually opened due to High Voltage.	08-03-2020 08:25	8:15:00	0
115	765kV Phagi-Bhiwani-II	Line	NR	MO	09-03-2020 20:32	Manually opened due to High Voltage.	11-03-2020 09:24	36:52:00	0
116	765kV Phagi-Bhiwani-II	Line	NR	MO	13-03-2020 01:07	Manually opened due to High Voltage.	13-03-2020 07:31	6:24:00	0
117	765kV Phagi-Bhiwani-II	Line	NR	MO	14-03-2020 21:35	Manually opened due to High Voltage.	15-03-2020 06:42	9:07:00	0
118	765kV Phagi-Bhiwani-II	Line	NR	MO	17-03-2020 00:20	Manually opened due to High Voltage.	17-03-2020 06:41	6:21:00	0
119	765kV Phagi-Bhiwani-II	Line	NR	MO	21-03-2020 21:22	Manually opened due to High Voltage.	23-03-2020 08:10	34:48:00	0
120	765kV Phagi-Bhiwani-II	Line	NR	MO	24-03-2020 14:15	Manually opened due to High Voltage.	01-04-2020 00:00	177:45:00	0
121	765kV Varanasi-Fatehpur-I	Line	NR	TL	11-03-2020 22:50	Phase to earth fault Y-N Fault transient in nature	11-03-2020 23:29	0:39:00	1

List of Outages of Elements monitored by NLDC for the month of March-2020

S. No.	Name of Transmission Element	Type of the element	Region Involved	Category	Tripping Date and Time	Brief Reason/Relay Indication	Restoration Date and Time	Outage Duration	Number of Cumulative tripping in the month
Western Region Elements									
1	B/R-I at Ektuni	Bus Reactor	WR	SO	14-03-2020 11:00	Tan-Delta & Capacitance measurement of 3*80Mvar Bus Reactor Bushings.	14-03-2020 18:47	7:47:00	0
2	B/R-I at Sholapur	Bus Reactor	WR	SO	05-03-2020 10:35	For AMP works and B/R_Bph Unit conservator Low oil level to be attended.	05-03-2020 18:30	7:55:00	0
3	B/R-I at Tamnar	Bus Reactor	WR	TS	19-03-2020 14:44	Due to failure of R-phase CT of tie bay 765/400KV ICT-3 & Bus reactor, bus reactor diff protection operated & all the lines tripped on Z-2 protection connecting with Tamnar.	19-03-2020 15:31	0:47:00	1
4	765/400 kV ICT - II at Warora	ICT	WR	SO	13-03-2020 09:55	Relay testing work	13-03-2020 17:27	7:32:00	0
5	765/400 kV ICT-I at Ektuni	ICT	WR	SO	18-03-2020 11:08	To take line reactor Out of service. "1) Tan-Delta & Capacitance measurement of 1500MVA ICT-I Bushings.	18-03-2020 20:37	9:29:00	0
6	765/400 kV ICT-I at Sipat	ICT	WR	SO	02-03-2020 09:56	For Maintenance and tan delta testing.	03-03-2020 19:00	33:04:00	0
7	765/400 kV ICT-I at Tamnar-PS	ICT	WR	TS	19-03-2020 14:44	Due to failure of R-phase CT of tie bay 765/400KV ICT-3 & Bus reactor, bus reactor diff protection operated & all the lines tripped on Z-2 protection connecting with Tamnar.	19-03-2020 15:45	1:01:00	1
8	765/400 kV ICT-I at Vadodara	ICT	WR	SO	19-03-2020 11:17	400kV side CB(407) AMP work, both side dia was opened.	19-03-2020 17:31	6:14:00	0
9	765/400 kV ICT-II at Ektuni	ICT	WR	SO	19-03-2020 11:04	Tan-Delta & Capacitance measurement of 1500MVA ICT-II Bushings.	19-03-2020 21:47	10:43:00	0
10	765/400 kV ICT-II at Raigarh-PS(Kotra)	ICT	WR	SO	18-03-2020 11:26	AMP WORK	18-03-2020 17:06	5:40:00	0
11	765/400 kV ICT-II at Tamnar-PS	ICT	WR	TS	19-03-2020 14:44	Due to failure of R-phase CT of tie bay 765/400KV ICT-3 & Bus reactor, bus reactor diff protection operated & all the lines tripped on Z-2 protection connecting with Tamnar.	19-03-2020 15:45	1:01:00	1
12	765/400 kV ICT-III at Tamnar-PS	ICT	WR	TS	19-03-2020 14:44	Due to failure of R-phase CT of tie bay 765/400KV ICT-3 & Bus reactor, bus reactor diff protection operated & all the lines tripped on Z-2 protection connecting with Tamnar.	19-03-2020 16:44	2:00:00	1
13	765/400 kV ICT-IV at Tamnar-PS	ICT	WR	TS	19-03-2020 14:44	Due to failure of R-phase CT of tie bay 765/400KV ICT-3 & Bus reactor, bus reactor diff protection operated & all the lines tripped on Z-2 protection connecting with Tamnar.	19-03-2020 17:03	2:19:00	1
14	765/400 kV ICT-VI at Champa	ICT	WR	TS	21-03-2020 04:27	Y phase PRV operated	21-03-2020 07:35	3:08:00	1
15	765/400kV ICT-I at Bhuj	ICT	WR	SO	04-03-2020 09:04	For RTV coating of 400kV Side equipments	04-03-2020 19:24	10:20:00	0
16	765/400kV ICT-I at Bhuj	ICT	WR	SO	05-03-2020 08:40	For RTV coating of 400kV Side equipments	05-03-2020 19:02	10:22:00	0
17	765/400kV ICT-II at Bhuj	ICT	WR	SO	08-03-2020 08:44	For RTV coating of 400kV Side equipments	08-03-2020 19:57	11:13:00	0
18	765/400kV ICT-II at Bhuj	ICT	WR	SO	09-03-2020 08:55	For RTV coating of 400kV Side equipments	09-03-2020 18:45	9:50:00	0
19	765 kV Durg-Champa-II	Line	WR	TL	12-03-2020 22:31	Line tripped on distance protection. Fault details from Durg end: B ph-E fault. 11.4 kA, 37.65 km from Durg end. 115.7 km from Champa end	12-03-2020 23:14	0:43:00	1
20	765 kV Durg-Champa-II	Line	WR	TL	21-03-2020 08:12	B-N fault,FC:11KA and FD:39.2KA) from Durg end	21-03-2020 09:10	0:58:00	2
21	765kV Aurangabad-Phadge Ckt-I	Line	WR	MO	10-03-2020 09:19	Manually opened due to High Voltage.	11-03-2020 08:18	22:59:00	0
22	765kV Aurangabad-Phadge Ckt-I	Line	WR	MO	25-03-2020 19:03	Manually opened due to High Voltage.	01-04-2020 00:00	148:57:00	0
23	765kV Aurangabad-Sholapur-I	Line	WR	MO	02-03-2020 20:32	Manually opened due to High Voltage.	05-03-2020 07:37	59:05:00	0
24	765kV Aurangabad-Sholapur-I	Line	WR	MO	12-03-2020 20:45	Manually opened due to High Voltage.	13-03-2020 06:57	10:12:00	0
25	765kV Aurangabad-Sholapur-I	Line	WR	MO	22-03-2020 08:36	Manually opened due to High Voltage.	31-03-2020 10:30	217:54:00	0
26	765kV Aurangabad-Sholapur-II	Line	WR	MO	01-03-2020 18:12	Manually opened due to High Voltage.	02-03-2020 08:11	13:59:00	0
27	765kV Aurangabad-Sholapur-II	Line	WR	MO	31-03-2020 17:14	Manually opened due to High Voltage.	01-04-2020 00:00	6:46:00	0
28	765kV Bina-Gwalior-I	Line	WR	MO	10-03-2020 17:36	Manually opened due to High Voltage.	11-03-2020 07:33	13:57:00	0
29	765kV Bina-Jabalpur-I	Line	WR	MO	12-03-2020 00:27	Manually opened due to High Voltage.	12-03-2020 06:46	6:19:00	0
30	765kV Bina-Jabalpur-I	Line	WR	MO	22-03-2020 10:30	Manually opened due to High Voltage.	23-03-2020 09:24	22:54:00	0
31	765kV Bina-Jabalpur-I	Line	WR	MO	24-03-2020 18:24	Manually opened due to High Voltage.	01-04-2020 00:00	173:36:00	0
32	765kV Dharanjaigarh-Champa Ckt-I	Line	WR	SO	19-03-2020 09:55	Shutdown taken for rectification of various nature defects & broken Insulator replacement,CC ring etc.	19-03-2020 20:42	10:47:00	0
33	765kV Dhule-Vadodara	Line	WR	MO	10-03-2020 19:00	Manually opened due to High Voltage.	11-03-2020 06:13	11:13:00	0
34	765kV Dhule-Vadodara	Line	WR	MO	22-03-2020 21:42	Manually opened due to High Voltage.	23-03-2020 08:38	10:56:00	0
35	765kV Dhule-Vadodara	Line	WR	MO	24-03-2020 18:46	Manually opened due to High Voltage.	01-04-2020 00:00	173:14:00	0
36	765kV Durg-Rajnandgaon-I	Line	WR	SO	05-03-2020 10:07	Annual maintenance of Line equipments	05-03-2020 19:54	9:47:00	0
37	765kV Durg-Rajnandgaon-II	Line	WR	SO	06-03-2020 10:43	Annual maintenance of Line equipments	06-03-2020 19:31	8:48:00	0
38	765kV Durg-Wardha-I	Line	WR	MO	08-03-2020 16:56	Manually opened due to High Voltage.	11-03-2020 11:18	66:22:00	0
39	765kV Durg-Wardha-I	Line	WR	MO	25-03-2020 10:28	Manually opened due to High Voltage.	25-03-2020 18:41	8:13:00	0
40	765kV Durg-Wardha-II	Line	WR	MO	24-03-2020 18:22	Manually opened due to High Voltage.	01-04-2020 00:00	173:38:00	0
41	765kV Durg-Wardha-III	Line	WR	MO	11-03-2020 17:23	Manually opened due to High Voltage.	17-03-2020 10:16	136:53:00	0
42	765kV Durg-Wardha-IV	Line	WR	MO	01-03-2020 00:00	Manually opened due to High Voltage	09-03-2020 06:22	198:22:00	0
43	765kV Durg-Wardha-IV	Line	WR	MO	17-03-2020 21:37	Manually opened due to High Voltage.	25-03-2020 11:30	181:53:00	0
44	765kV Jabalpur-Gadarwada-I	Line	WR	SO	19-03-2020 18:04	Retrofitting of Analog PLCC with Digital PLCC in Channel 022 (for end to end testing)	19-03-2020 22:04	4:00:00	0
45	765kV Jabalpur-Gadarwada-II	Line	WR	SO	20-03-2020 16:53	Retrofitting of Analog PLCC with Digital PLCC in Channel 2	20-03-2020 19:03	2:10:00	0
46	765kV Jabalpur-Dharamjaigarh-I	Line	WR	MO	05-03-2020 11:46	Manually opened due to High Voltage.	17-03-2020 09:25	285:39:00	0
47	765kV Jabalpur-Dharamjaigarh-II	Line	WR	MO	01-03-2020 00:00	Manually opened due to High Voltage.	05-03-2020 07:54	103:54:00	0
48	765kV Jabalpur-Dharamjaigarh-II	Line	WR	MO	17-03-2020 13:56	Manually opened due to High Voltage.	01-04-2020 00:00	346:04:00	0

List of Outages of Elements monitored by NLDC for the month of March-2020

S. No.	Name of Transmission Element	Type of the element	Region Involved	Category	Tripping Date and Time	Brief Reason/Relay Indication	Restoration Date and Time	Outage Duration	Number of Cumulative tripping in the month
49	765kV Jabalpur-Dharamjaigarh-III	Line	WR	TL	01-03-2020 20:38	Tripped on R-phase to earth fault.	02-03-2020 08:04	11:26:00	1
50	765kV Jabalpur-Dharamjaigarh-III	Line	WR	MO	09-03-2020 23:38	Manually opened due to High Voltage.	18-03-2020 09:50	202:12:00	1
51	765kV Jabalpur-Dharamjaigarh-IV	Line	WR	TL	03-03-2020 03:03	Tripped on B-E fault, 6.4kA, 96.9km from Jabalpur end. 2.892kA, 292km from Jabalpur end	03-03-2020 05:23	2:20:00	1
52	765kV Jabalpur-Dharamjaigarh-IV	Line	WR	MO	18-03-2020 21:55	Manually opened due to High Voltage.	01-04-2020 00:00	314:05:00	1
53	765kV New Parli - Solapur Ckt-I	Line	WR	SO	15-03-2020 09:37	For Line side equipment AMP works at Solapur end.	15-03-2020 20:19	10:42:00	0
54	765kV New Parli - Solapur Ckt-II	Line	WR	SO	16-03-2020 09:46	For Line side equipment AMP works at Solapur end.	16-03-2020 19:40	9:54:00	0
55	765kV Pune - Aurangabad - I	Line	WR	SO	19-03-2020 11:00	For Line & SLR at Pune-GIS AMP works	19-03-2020 19:09	8:09:00	0
56	765kV Pune - Aurangabad - I	Line	WR	SO	21-03-2020 12:20	For attending low gas pressure in Y-ph Line side Bus Duct at Pune(GIS)	23-03-2020 13:45	49:25:00	0
57	765kV Pune-Phadge	Line	WR	MO	22-03-2020 10:37	Manually opened due to High Voltage.	01-04-2020 00:00	229:23:00	0
58	765kV Pune-Sholapur	Line	WR	MO	01-03-2020 00:00	Manually opened due to High Voltage.	12-03-2020 06:24	270:24:00	0
59	765kV Pune-Sholapur	Line	WR	MO	13-03-2020 20:02	Manually opened due to High Voltage.	19-03-2020 10:34	134:32:00	0
60	765kV Pune-Sholapur	Line	WR	MO	19-03-2020 22:32	Manually opened due to High Voltage.	21-03-2020 12:06	37:34:00	0
61	765kV Pune-Sholapur	Line	WR	MO	21-03-2020 18:15	Manually opened due to High Voltage.	01-04-2020 00:00	245:45:00	0
62	765kV Raigarh-PS(Kotra)-Tamnar-I	Line	WR	TS	19-03-2020 14:44	Due to failure of R-phase CT of tie bay 765/400KV ICT-3 &Bus reactor, bus reactor diff protection operated & all the lines tripped on Z-2 protection connecting with Tamnar.		0:48:00	1
63	765kV Raigarh-PS(Kotra)-Tamnar-II	Line	WR	TS	19-03-2020 14:44	Due to failure of R-phase CT of tie bay 765/400KV ICT-3 &Bus reactor, bus reactor diff protection operated & all the lines tripped on Z-2 protection connecting with Tamnar.		1:23:00	1
64	765kV Seoni-Wardha-I	Line	WR	SE	05-03-2020 16:17	or removal of Polyethylene stuck in conductor at Location no. 172		2:33:00	0
65	765kV Sipat-Bilaspur-I	Line	WR	SO	06-03-2020 08:47	line outage for tower strengthening works.		06-03-2020 19:46	10:59:00
66	765kV Sipat-Bilaspur-II	Line	WR	SO	07-03-2020 09:27	line outage for tower strengthening works.		07-03-2020 19:57	10:30:00
67	765kV Tirora-Koradi-I	Line	WR	TL	29-03-2020 16:37	Tripped on R-Phase to Earth fault; Fault Current:- 6.2 kA, Fault Location :- 53.6 KM from Tirora end		0:53:00	1
68	765kV Tirora-Koradi-I	Line	WR	TL	29-03-2020 16:37	Tripped on R-Phase to Earth fault; Fault Current:- 6.2 kA, Fault Location :- 53.6 KM from Tirora end		0:53:00	2
69	765kV VindhyaChal-Satna-I	Line	WR	SE	06-03-2020 19:43	To attain hot spot in Isolator		06-03-2020 21:16	1:33:00
70	765kV VindhyaChal-Satna-II	Line	WR	SO	05-03-2020 16:21	Retrofitting of Analog PLCC with Digital PLCC in Channel 02		05-03-2020 18:12	1:51:00
71	765kV Wardha-Aurangabad-II	Line	WR	MO	09-03-2020 20:20	Manually opened due to High Voltage.		11-03-2020 12:26	40:06:00
72	765kV Wardha-Aurangabad-II	Line	WR	MO	17-03-2020 18:12	Manually opened due to High Voltage.		23-03-2020 09:27	135:15:00
73	765kV Wardha-Aurangabad-II	Line	WR	MO	25-03-2020 16:19	Manually opened due to High Voltage.		01-04-2020 00:00	151:45:00
74	765kV Wardha-Aurangabad-IV	Line	WR	MO	02-03-2020 19:22	Manually opened due to High Voltage.		09-03-2020 08:03	156:41:00
75	765kV Wardha-Aurangabad-IV	Line	WR	MO	11-03-2020 21:20	Manually opened due to High Voltage.		17-03-2020 14:12	136:52:00
76	765kV Wardha-Aurangabad-IV	Line	WR	MO	22-03-2020 09:39	Manually opened due to High Voltage.		01-04-2020 00:00	230:21:00
77	765kV Warora-New Parli Ckt-I	Line	WR	SO	11-03-2020 09:43	For Wave trap jumper problem rectification at Warora end		11-03-2020 19:41	9:58:00
78	765kV Warora-New Parli Ckt-I	Line	WR	SO	12-03-2020 09:45	For Line side equipment AMP works at Warora end.		12-03-2020 20:19	10:34:00
79	765kV Warora-New Parli Ckt-I	Line	WR	SE	13-03-2020 11:42	To remove hanging cloth at Loc 776		13-03-2020 15:26	3:44:00
80	765kV Warora-New Parli Ckt-I	Line	WR	TS	18-03-2020 17:59	Tripped on Y-N fault.		18-03-2020 19:25	1:26:00
81	765kV Warora-New Parli Ckt-II	Line	WR	SO	12-03-2020 09:16	For Line side equipment AMP works at Warora end.		12-03-2020 20:21	11:05:00

List of Outages of Elements monitored by NLDC for the month of March-2020

S. No.	Name of Transmission Element	Type of the element	Region Involved	Category	Tripping Date and Time	Brief Reason/Relay Indication	Restoration Date and Time	Outage Duration	Number of Cumulative tripping in the month
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Eastern Region Elements

S. No.	Name of Transmission Element	Type of the element	Region Involved	Category	Tripping Date and Time	Brief Reason/Relay Indication	Restoration Date and Time	Outage Duration	Number of Cumulative tripping in the month
1	765/400 kV ICT-II at Jharsuguda	ICT	ER	SO	14-03-2020 15:04	For changeover of spare to Yph for attending oil leakage at Y ph	14-03-2020 18:02	2:58:00	0
2	765/400kV ICT-II at Darlipalli	Line	ER	TS	19-03-2020 15:20	Tripped, heavy storm and bad weather reported.	20-03-2020 13:00	21:40:00	1
3	765kV Angul-Jharsuguda-III	Line	ER	MO	06-03-2020 14:16	Manually opened due to High Voltage.	11-03-2020 10:51	116:35:00	0
4	765kV Angul-Jharsuguda-III	Line	ER	TL	19-03-2020 14:32	Y-N fault; Iy-8.92kA; Fault Location- 65.1km from Sundargarh end	19-03-2020 15:21	0:49:00	1
5	765kV Angul-Jharsuguda-IV	Line	ER	MO	03-03-2020 20:31	Manually opened due to High Voltage.	06-03-2020 09:30	60:59:00	0
6	765kV Angul-Jharsuguda-IV	Line	ER	MO	15-03-2020 14:01	Manually opened due to High Voltage.	01-04-2020 00:00	393:59:00	0
7	765kV Jharsuguda-Darlipalli Ckt-II	Line	ER	TL	19-03-2020 15:18	Fault details at Sundargarh end:Main-1, Zone-1, B-N fault Ib-9.5kA, Fault Loc – 20.5km	19-03-2020 18:59	3:41:00	1
8	HVDC Alipurdaur Pole-3	HVDC	ER	MO	01-03-2020 00:00	Pole blocked on High Voltage	09-03-2020 10:29	202:29:00	0
9	HVDC Alipurdaur Pole-3	HVDC	ER	MO	09-03-2020 22:22	Pole blocked on High Voltage	01-04-2020 00:00	529:38:00	0
10	HVDC Alipurdaur Pole-4	HVDC	ER	MO	01-03-2020 00:00	Pole blocked on High Voltage	11-03-2020 11:05	251:05:00	0
11	HVDC Alipurdaur Pole-4	HVDC	ER	MO	12-03-2020 09:20	Pole blocked on High Voltage	01-04-2020 00:00	470:40:00	0

Southern Region Elements

S. No.	Name of Transmission Element	Type of the element	Region Involved	Category	Tripping Date and Time	Brief Reason/Relay Indication	Restoration Date and Time	Outage Duration	Number of Cumulative tripping in the month
1	765/400 kV ICT-I at Raichur	ICT	SR	SO	04-03-2020 09:59	Installation and Commissioning of Back up Impedance protections for ICTs	04-03-2020 19:14	9:15:00	0
2	765/400 kV ICT-I at Sirikakulam	ICT	SR	SO	04-03-2020 10:24	TESTING AND COMMISSIONING OF BACK UP IMPEDANCE PROTECTION RELAY	04-03-2020 18:10	7:46:00	0
3	765/400 kV ICT-I at Vemagiri	ICT	SR	SO	16-03-2020 10:52	Installation & Commissioning of Back up impedance protection for ICTs	16-03-2020 18:38	7:46:00	0
4	765/400 kV ICT-II at Raichur	ICT	SR	SO	05-03-2020 10:42	Installation and Commissioning of Back up Impedance Protections for ICTs	05-03-2020 18:11	7:29:00	0
5	765/400 kV ICT-II at Sirikakulam	ICT	SR	SC	05-03-2020 10:54	TESTING AND COMMISSIONING OF BACK UP IMPEDANCE PROTECTION RELAY	05-03-2020 17:15	6:21:00	0
6	765/400 kV ICT-II at Vemagiri	ICT	SR	SO	17-03-2020 10:07	Installation and Commissioning of Back up Impedance Protections for ICTs	17-03-2020 16:39	6:32:00	0
7	765/400kV ICT-I at Chilkuripetha	ICT	SR	SO	09-03-2020 10:39	ICT-I Y-ph OLTC Rectification work	09-03-2020 11:58	1:19:00	0
8	765kV Cuddapah- Chilkuripetha Ckt-I	Line	SR	MO	19-03-2020 18:10	After tripping on over voltage, Line kept open due to high voltage.	20-03-2020 09:41	15:31:00	0
9	765kV Cuddapah- Chilkuripetha Ckt-I	Line	SR	MO	05-03-2020 21:01	Manually opened due to High Voltage.	06-03-2020 06:32	9:31:00	0
10	765kV Cuddapah- Chilkuripetha Ckt-I	Line	SR	MO	08-03-2020 18:01	Manually opened due to High Voltage.	09-03-2020 08:15	14:14:00	0
11	765kV Cuddapah- Chilkuripetha Ckt-I	Line	SR	MO	12-03-2020 20:42	Manually opened due to High Voltage.	13-03-2020 06:59	10:17:00	0
12	765kV Cuddapah- Chilkuripetha Ckt-I	Line	SR	MO	15-03-2020 17:31	Manually opened due to High Voltage.	16-03-2020 06:31	13:00:00	0
13	765kV Cuddapah- Chilkuripetha Ckt-I	Line	SR	MO	16-03-2020 18:27	Manually opened due to High Voltage.	18-03-2020 06:55	36:28:00	0
14	765kV Cuddapah- Chilkuripetha Ckt-I	Line	SR	MO	18-03-2020 20:50	Manually opened due to High Voltage.	19-03-2020 15:22	18:32:00	0
15	765kV Cuddapah- Chilkuripetha Ckt-I	Line	SR	TV	19-03-2020 18:01	Tripped on O/V	19-03-2020 18:10	0:09:00	1
16	765kV Cuddapah- Chilkuripetha Ckt-I	Line	SR	MO	20-03-2020 18:01	Manually opened due to High Voltage.	23-03-2020 08:43	62:42:00	1
17	765kV Cuddapah- Chilkuripetha Ckt-I	Line	SR	MO	23-03-2020 17:13	Manually opened due to High Voltage.	01-04-2020 00:00	198:47:00	1
18	765kV Cuddapah- Chilkuripetha Ckt-II	Line	SR	MO	06-03-2020 18:08	Manually opened due to High Voltage.	07-03-2020 10:01	15:53:00	0
19	765kV Cuddapah- Chilkuripetha Ckt-II	Line	SR	MO	09-03-2020 21:22	Manually opened due to High Voltage.	11-03-2020 10:42	37:20:00	0
20	765kV Cuddapah-Thiruvalam Ckt-I	Line	SR	MO	16-03-2020 18:05	After tripping on over voltage, Line kept open due to high voltage.	17-03-2020 06:26	12:21:00	0
21	765kV Cuddapah-Thiruvalam Ckt-I	Line	SR	MO	19-03-2020 18:10	After tripping on over voltage, Line kept open due to high voltage.	20-03-2020 07:45	13:35:00	0
22	765kV Cuddapah-Thiruvalam Ckt-I	Line	SR	MO	01-03-2020 18:00	Manually opened due to High Voltage.	02-03-2020 09:30	15:30:00	0
23	765kV Cuddapah-Thiruvalam Ckt-I	Line	SR	MO	02-03-2020 19:56	Manually opened due to High Voltage.	03-03-2020 08:03	12:07:00	0
24	765kV Cuddapah-Thiruvalam Ckt-I	Line	SR	MO	03-03-2020 18:01	After tripping on over voltage, Line kept open due to high voltage.	04-03-2020 09:55	15:54:00	0
25	765kV Cuddapah-Thiruvalam Ckt-I	Line	SR	TV	03-03-2020 18:01	Tripped on over voltage	03-03-2020 18:10	0:09:00	1
26	765kV Cuddapah-Thiruvalam Ckt-I	Line	SR	MO	07-03-2020 21:15	Manually opened due to High Voltage.	08-03-2020 08:17	11:02:00	0
27	765kV Cuddapah-Thiruvalam Ckt-I	Line	SR	MO	08-03-2020 17:58	Manually opened due to High Voltage.	09-03-2020 07:16	13:18:00	0
28	765kV Cuddapah-Thiruvalam Ckt-I	Line	SR	MO	11-03-2020 19:13	Manually opened due to High Voltage.	12-03-2020 08:43	13:30:00	0
29	765kV Cuddapah-Thiruvalam Ckt-I	Line	SR	MO	13-03-2020 18:03	Manually opened due to High Voltage.	14-03-2020 08:05	14:02:00	0
30	765kV Cuddapah-Thiruvalam Ckt-I	Line	SR	MO	14-03-2020 18:01	Manually opened due to High Voltage.	15-03-2020 07:46	13:45:00	0
31	765kV Cuddapah-Thiruvalam Ckt-I	Line	SR	TV	16-03-2020 18:00	Tripped on O/V	16-03-2020 18:05	0:05:00	2
32	765kV Cuddapah-Thiruvalam Ckt-I	Line	SR	MO	18-03-2020 20:50	Manually opened due to High Voltage.	19-03-2020 06:45	9:55:00	1
33	765kV Cuddapah-Thiruvalam Ckt-I	Line	SR	TV	19-03-2020 18:01	Tripped on O/V	19-03-2020 18:10	0:09:00	3
34	765kV Cuddapah-Thiruvalam Ckt-I	Line	SR	MO	20-03-2020 17:33	Manually opened due to High Voltage.	21-03-2020 09:15	15:42:00	2
35	765kV Cuddapah-Thiruvalam Ckt-I	Line	SR	MO	22-03-2020 07:58	Manually opened due to High Voltage.	23-03-2020 09:00	25:02:00	2
36	765kV Cuddapah-Thiruvalam Ckt-II	Line	SR	MO	24-03-2020 03:10	Manually opened due to High Voltage.	01-04-2020 00:00	188:50:00	0

List of Outages of Elements monitored by NLDC for the month of March-2020

S. No.	Name of Transmission Element	Type of the element	Region Involved	Catagory	Tripping Date and Time	Brief Reason/Relay Indication	Restoration Date and Time	Outage Duration	Number of Cumulative tripping in the month
37	765kV Nizamabad- Maheswaram-I	Line	SR	MO	15-03-2020 18:32	Manually opened due to High Voltage.	16-03-2020 00:27	5:55:00	0
38	765kV Nizamabad- Maheswaram-I	Line	SR	MO	22-03-2020 18:14	Manually opened due to High Voltage.	23-03-2020 06:24	12:10:00	0
39	765kV Nizamabad- Maheswaram-I	Line	SR	MO	24-03-2020 17:58	Manually opened due to High Voltage.	25-03-2020 06:20	12:22:00	0
40	765kV Nizamabad- Maheswaram-II	Line	SR	MO	25-03-2020 17:50	Manually opened due to High Voltage.	26-03-2020 07:28	13:38:00	0
41	765kV Nizamabad- Maheswaram-II	Line	SR	MO	26-03-2020 18:36	Manually opened due to High Voltage.	27-03-2020 06:21	11:45:00	0
42	765kV Vermagiri-Chilkuripeta Ckt-II	Line	SR	TV	02-03-2020 05:19	Tipped on over voltage	02-03-2020 07:42	2:23:00	0

List of Outages of Elements monitored by NLDC for the month of March-2020

S. No.	Name of Transmission Element	Type of the element	Region Involved	Category	Tripping Date and Time	Brief Reason/Relay Indication	Restoration Date and Time	Outage Duration	Number of Cumulative tripping in the month
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North Eastern Region Elements

S. No.	Name of Transmission Element	Type of the element	Region Involved	Category	Tripping Date and Time	Brief Reason/Relay Indication	Restoration Date and Time	Outage Duration	Number of Cumulative tripping in the month
1	HVDC Biswanath Chariali Pole-1	HVDC	NER	SO	03-03-2020 15:25	Pole-1 went in RVO mode,DC Line fault indication reported at BNC end.	03-03-2020 16:50	0:17:00	0
2	HVDC Biswanath Chariali Pole-1	HVDC	NER	MO	09-03-2020 11:04	Pole blocked on High Voltage	12-03-2020 10:24	71:20:00	0
3	HVDC Biswanath Chariali Pole-1	HVDC	NER	MO	19-03-2020 09:26	800 kV Agra – BNC Pole 1 blocked to facilitate shutdown of 765/400 kV ICT-1 at Agra.	19-03-2020 10:47	1:21:00	0
4	HVDC Biswanath Chariali Pole-1	HVDC	NER	MO	22-03-2020 21:49	Pole blocked on High Voltage	28-03-2020 17:56	140:07:00	0
5	HVDC Biswanath Chariali Pole-2	HVDC	NER	MO	01-03-2020 00:00	Manually opened due to High Voltage.	10-03-2020 15:24	231:24:00	0
6	HVDC Biswanath Chariali Pole-2	HVDC	NER	SO	11-03-2020 13:13	Pole blocked on High Voltage	22-03-2020 22:46	273:33:00	0
7	HVDC Biswanath Chariali Pole-2	HVDC	NER	TS	28-03-2020 16:21	DC Differential Protection Operated at BNC end	01-04-2020 00:00	79:39:00	1

TL= Tripping due to Line Fault

TS= Tripping due to S/S Fault

MO= Opened due to system constraints

TV= Tripped on Overvoltage

SC= Planned Shutdown for construction activities

SO= Planned Shutdown for O&M activities

SE= Emergency Shutdown

TP= Protection Maloperation

ME= Miscellaneous outage

24. System Reliability Indices Report for the month of March 2020

Percentage (%) of times ATC was violated

S.No.	Corridor	Number of Blocks Violated	Number of Hours Violated	%Violation
1	WR-NR	0	0.00	0.00
2	ER-NR	0	0.00	0.00
3	Import of NR	0	0.00	0.00
4	NEW-SR	27	6.75	0.91
5	NER Import	2	0.50	0.07

Percentage(%) of times (N-1) Criteria was violated

S.No.	Corridor	Number of Blocks Violated	Number of Hours Violated	%Violation
1	WR-NR	0	0.00	0.00
2	ER-NR	0	0.00	0.00
3	Import of NR	0	0.00	0.00
4	NEW-SR	0	0.00	0.00
5	NER Import	0	0.00	0.00

Remarks: Flows crossing Total Transfer Capability (TTC) on interregional corridors has been worked out as a proxy for (N-1) violation.



POWER SYSTEM OPERATION CORPORATION LIMITED

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