

**POWER SYSTEM OPERATION CORPORATION LIMITED
NATIONAL LOAD DESPATCH CENTRE
NEW DELHI**

Date: 05-May-2021

System Reliability Indices Report for the month of April 2021

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	0	0.00	0.00
5	NER Import	0	0.00	0.00

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
4	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.

FREQUENCY DEVIATION INDEX FOR APRIL 2021

Date of reporting:

05-May-21

Date	Percentage of time frequency is			Freq Deviation Index* (FDI)	No. of hours frequency is outside 49.95-50.05 Hz	Average Frequency (Hz)
	<49.90 Hz	49.90 - 50.05 Hz	>50.05 Hz			
01-Apr-21	20.64	67.22	12.14	32.78	7:52	49.97
02-Apr-21	10.36	79.02	10.63	20.98	5:02	49.98
03-Apr-21	9.46	79.65	10.89	20.35	4:53	49.98
04-Apr-21	4.83	79.31	15.87	20.69	4:58	50.00
05-Apr-21	22.53	67.08	10.38	32.92	7:54	49.96
06-Apr-21	11.19	69.87	18.94	30.13	7:13	49.99
07-Apr-21	16.38	71.45	12.18	28.55	6:51	49.97
08-Apr-21	8.41	76.13	15.45	23.87	5:43	49.99
09-Apr-21	3.50	72.16	24.34	27.84	6:40	50.02
10-Apr-21	5.90	78.09	16.01	21.91	5:15	50.00
11-Apr-21	3.75	77.14	19.11	22.86	5:29	50.01
12-Apr-21	6.30	78.95	14.76	21.05	5:03	50.00
13-Apr-21	3.59	82.26	14.16	17.74	4:15	50.00
14-Apr-21	5.58	76.45	17.97	23.55	5:39	50.00
15-Apr-21	7.91	71.75	20.35	28.25	6:46	50.00
16-Apr-21	7.62	74.11	18.28	25.89	6:12	50.00
17-Apr-21	14.72	70.14	15.14	29.86	7:10	49.98
18-Apr-21	4.22	79.77	16.01	20.23	4:51	50.00
19-Apr-21	6.81	70.80	22.40	29.20	7:00	50.00
20-Apr-21	8.06	65.65	26.30	34.35	8:14	50.01
21-Apr-21	9.99	72.89	17.12	27.11	6:30	49.99
22-Apr-21	7.79	71.27	20.94	28.73	6:53	50.00
23-Apr-21	1.66	82.31	16.03	17.69	4:14	50.01
24-Apr-21	5.72	76.18	18.10	23.82	5:43	50.00
25-Apr-21	6.11	74.36	19.53	25.64	6:09	50.00
26-Apr-21	7.91	74.90	17.20	25.10	6:01	50.00
27-Apr-21	4.87	78.38	16.75	21.62	5:11	50.00
28-Apr-21	8.66	76.38	14.97	23.62	5:40	49.99
29-Apr-21	2.60	75.15	22.25	24.85	5:57	50.01
30-Apr-21	1.46	79.33	19.21	20.67	4:57	50.01
April 2021	7.95	74.94	17.11	25.06	180:26	50.00

*FDI is defined as percentage of time for which frequency is outside IEGC band (49.90-50.05 Hz)

विद्युत विभव रूपरेखा माह - अप्रैल 2021

VOLTAGE PROFILE - April 2021

Date of reporting: 05-May-21

क्र.स. Sl. No.	क्षेत्र 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.वी.) Maximum(kV)	निम्नतम(कि.वी.) Minimum(kV)	औसत (कि.वी.) Average(kV)	
1	पूर्वी क्षेत्र ER	अंगल ANGL	0%	100%	0%	0%	0	796	752	777	
2		दालिपली DARLIPALI	0%	100%	0%	0%	0	791	769	780	
3		गया GAYA	0%	100%	0%	0%	0	786	747	767	
4		झारसगढ़ JHARSUGUDA	0%	100%	0%	0%	3	803	775	790	
5		रांची RANCHI	0%	100%	0%	0%	0	788	760	776	
6		सासाराम SASARAM	0%	100%	0%	0%	0	793	738	760	
1	उत्तरी क्षेत्र NR	आगरा AGRA	0%	100%	0%	0%	1	802	716	779	
2		आगरा (फतेहाबाद) AGRA (FATEHABAD)	0%	100%	0%	0%	1	804	758	781	
3		अजमेर AJMER	0%	99%	1%	1%	5	806	751	782	
4		अलीगढ़ ALIGARH	0%	100%	0%	0%	0	801	751	780	
5		अनूपरा सी ANUPARA-C	0%	100%	0%	0%	0	781	753	766	
6		अनूपरा डी ANUPARA-D	0%	100%	0%	0%	0	783	754	767	
7		बलिया BALLIA	0%	100%	0%	0%	0	788	745	767	
8		बारा BARA	0%	100%	0%	0%	0	794	764	781	
9		भादवा BHADLA	0%	100%	0%	0%	0	808	743	774	
10		भिवानी BHIWANI	0%	99%	1%	1%	5	806	753	780	
11		बैकानेर BIKANER	0%	100%	0%	0%	3	808	741	775	
12		बरेली BAREILLY	0%	99%	1%	1%	5	807	745	778	
13		चित्तौड़गढ़ CHITTOORGARH	0%	99%	1%	1%	4	804	756	782	
14		फतेहपुर FATEHPUR	0%	100%	0%	0%	0	794	742	765	
15		ग्रेटर नोएडा GREATER NOIDA	0%	97%	3%	3%	20	808	754	785	
16		हापड़ HAPUR	0%	99%	1%	1%	6	807	752	782	
17		जवाहरपुर JAWAHARPUR	0%	0%	0%	0%	0	0	0	0	
18		झाटिकर JHATIKARA	0%	100%	0%	0%	1	803	754	781	
19		कानपुर जीआईएस KANPUR GIS	0%	100%	0%	0%	0	796	740	772	
20		कोटेश्वर KOTESHWAR	0%	100%	0%	0%	0	812	737	774	
21		ललितपुर LALITPUR	0%	100%	0%	0%	0	787	757	772	
22		लखनऊ LUCKNOW	0%	100%	0%	0%	0	798	744	773	
23		मैनपुरी MAINPURI	0%	97%	3%	3%	23	806	756	786	
24		मेरठ MEERUT	0%	100%	0%	0%	1	805	740	776	
25		मोगा MOGA	0%	100%	0%	0%	0	800	736	770	
26		ओबरा सी OBRA C	0%	0%	0%	0%	0	0	0	0	
27		उरई ORAI	0%	100%	0%	0%	2	802	764	785	
28		फागी PHAGI	0%	98%	2%	2%	15	802	761	783	
29		उन्नाव UNNAO	0%	100%	0%	0%	0	791	737	764	
30		वाराणसी VARANASI	0%	100%	0%	0%	0	794	753	774	
1		पश्चिमी क्षेत्र WR	अकोला AKOLA	0%	100%	0%	0%	0	793	757	774
2			औरंगाबाद AURANGABAD	0%	100%	0%	0%	0	802	755	780
3	भोपाळ (बीडटीसीएस) BHOPAL (BDTCL)		0%	100%	0%	0%	0	791	753	772	
4	भुज BHUJ		0%	100%	0%	0%	0	785	752	771	
5	बिलासपुर BILASPUR		0%	100%	0%	0%	0	782	764	774	
6	बनसकांठ BANASKANTHA		0%	100%	0%	0%	0	797	762	780	
7	चापा CHAMPA		0%	100%	0%	0%	0	799	775	787	
8	धुले (बीडटीसीएस) DHULE (BDTCL)		0%	100%	0%	0%	0	799	752	773	
9	धर्मजयगढ़ DHARAMJAGARH		0%	100%	0%	0%	0	787	763	777	
10	रायपुर पुलिंग RAIPUR POOLING		0%	100%	0%	0%	0	793	771	782	
11	एकतुली EKTUNI		0%	100%	0%	0%	0	794	748	771	
12	गदरवाड़ा GADARWARA		0%	100%	0%	0%	0	792	768	782	
13	गुवाळियर GWALIOR		0%	100%	0%	0%	0	800	751	781	
14	इंदौर INDORE		0%	100%	0%	0%	0	790	755	772	
15	जबलपुर JABALPUR		0%	100%	0%	0%	0	797	701	784	
16	खंडवा KHANDWA		0%	100%	0%	0%	0	791	757	775	
17	कोरगी KORADI		0%	100%	0%	0%	0	781	757	769	
18	रायगढ़ पुलिंग RAIGARH POOLING		0%	100%	0%	0%	0	796	776	786	
19	पडघे PADGHE		0%	100%	0%	0%	0	796	759	778	
20	परली PARLI		0%	100%	0%	0%	0	799	756	780	
21	पुणे PUNE		0%	100%	0%	0%	0	800	750	779	
22	राजनंदगांव RAJNANDGAON		0%	100%	0%	0%	0	800	775	789	
23	सासन SASAN		0%	100%	0%	0%	0	780	748	770	
24	सिवनी SEONI		0%	100%	0%	0%	0	790	764	779	
25	सीपत SIPAT		0%	100%	0%	0%	0	782	765	775	
26	सोलापुर SOLAPUR		0%	100%	0%	0%	1	801	756	780	
27	तिरुवा TIRORA		0%	100%	0%	0%	0	774	752	765	
28	तमनार TAMNAR		0%	100%	0%	0%	0	795	777	786	
29	वडोदरा VADODARA		0%	100%	0%	0%	0	798	755	774	
30	विन्ध्यपट्ट पुलिंग VINDHYACHAL PS		0%	100%	0%	0%	4	782	697	771	
31	वर्धा WARDHA		0%	99%	1%	1%	6	804	767	788	
32	वरीसा WARORA		0%	100%	0%	0%	0	794	762	781	
1	दक्षिणी क्षेत्र SR	कुडपा CUDDAH	0%	93%	7%	7%	50	815	758	796	
2		चिन्मयपुरी चिंलाकालुरिपेटा CHILAKALURIPETA	0%	96%	4%	4%	30	815	754	783	
3		कूर्नूल KURNOOL	0%	100%	0%	0%	0	796	748	774	
4		महेश्वरम MAHESWARAM	0%	98%	2%	2%	15	808	753	782	
5		निजामाबाद NIZAMABAD	0%	100%	0%	0%	0	800	778	789	
6		नेल्लूर पुलिंग NELLORE PS	0%	100%	0%	0%	0	792	763	776	
7		रायचूर RAICHUR	0%	100%	0%	0%	0	796	765	780	
8		श्रीकाकुलम SRIKAKULAM	0%	100%	0%	0%	0	798	758	780	
9		तिरुवल्लम THIRUVALLEM	0%	100%	0%	0%	0	798	757	776	
10		वेमगिरी VEMAGIRI	0%	98%	2%	2%	18	805	773	787	
1	पूर्वोत्तर क्षेत्र NER	बालिपारा BALIPARA (400 kV)	0%	0%	0%	0%	0	0	0	0	
2		बिस्वनाथ चरिआलि BISWANATH CHARIALI (400 kV)	0%	100%	0%	0%	0	416	382	404	
3		बोंगाईगांव BONGAIGAON (400 kV)	0%	100%	0%	0%	0	419	400	410	
4		बोंगाईगांव टीपीएस BONGAIGAON TPS (400 kV)	0%	100%	0%	0%	0	420	402	412	
5		इम्फाल IMPHAL (400 kV)	0%	100%	0%	0%	1	421	368	409	
6		बर्नितट BYRNHAT (400 kV)	0%	0%	0%	0%	0	0	0	0	
7		कामेंग KAMENG (400 kV)	0%	100%	0%	0%	0	417	390	404	
8		अजारा AZARA (400 kV)	0%	0%	0%	0%	0	0	0	0	
9		मिसा MISA (400 kV)	0%	100%	0%	0%	0	418	391	405	
10		न्यू कोहिमा NEW KOHIMA (400 kV)	0%	100%	0%	0%	0	425	370	407	
11		पालाटाना PALATANA (400 kV)	0%	100%	0%	0%	0	419	392	407	
12		पुर्बिमानगरी PK BARI (400 kV)	0%	100%	0%	0%	2	421	384	407	
13		रानगनादी RANGANADI (400 kV)	0%	0%	0%	0%	0	0	0	0	
14		सिलचर SILCHAR (400 kV)	1%	97%	2%	3%	21	425	358	411	
15		सुरज्यामनिनगर SURJYAMANINAGAR (400 kV)	0%	100%	0%	0%	0	420	381	404	

All listed stations are 765 kV stations unless otherwise mentioned
*Percentage is calculated w.r.t. Time of one month.

Angular Difference of Important Nodes w.r.t. Bongaigaon

