

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

Date: 05-Nov-2021

System Reliability Indices Report for the month of October 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	4	1.00	0.13
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 OCTOBER 2021

Date of reporting:

05-Nov-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-Oct-21	11.22	69.48	19.31	30.52	7:19	49.99
02-Oct-21	3.62	74.29	22.08	25.71	6:10	50.01
03-Oct-21	4.17	81.67	14.17	18.33	4:24	50.00
04-Oct-21	13.90	79.61	6.49	20.39	4:53	49.97
05-Oct-21	25.59	71.20	3.21	28.80	6:54	49.94
06-Oct-21	9.20	80.66	10.14	19.34	4:38	49.98
07-Oct-21	27.85	69.29	2.86	30.71	7:22	49.93
08-Oct-21	22.29	73.06	4.65	26.94	6:28	49.95
09-Oct-21	22.84	67.27	9.90	32.73	7:51	49.96
10-Oct-21	3.00	69.78	27.22	30.22	7:15	50.02
11-Oct-21	21.02	74.36	4.62	25.64	6:09	49.96
12-Oct-21	29.13	65.02	5.84	34.98	8:23	49.95
13-Oct-21	24.00	65.89	10.10	34.11	8:11	49.95
14-Oct-21	4.29	78.85	16.85	21.15	5:04	50.01
15-Oct-21	6.82	71.23	21.96	28.77	6:54	50.01
16-Oct-21	14.28	79.26	6.46	20.74	4:58	49.97
17-Oct-21	4.39	71.38	24.24	28.62	6:52	50.02
18-Oct-21	8.66	70.06	21.28	29.94	7:11	50.00
19-Oct-21	15.05	80.15	4.80	19.85	4:45	49.97
20-Oct-21	6.13	68.34	25.52	31.66	7:35	50.01
21-Oct-21	5.28	72.40	22.33	27.60	6:37	50.01
22-Oct-21	12.00	72.37	15.63	27.63	6:37	49.99
23-Oct-21	11.55	73.10	15.35	26.90	6:27	49.99
24-Oct-21	4.21	80.63	15.16	19.38	4:39	50.00
25-Oct-21	5.72	73.88	20.41	26.12	6:16	50.01
26-Oct-21	5.30	70.57	24.13	29.43	7:03	50.01
27-Oct-21	1.22	81.56	17.22	18.44	4:25	50.01
28-Oct-21	3.91	83.18	12.91	16.82	4:02	50.00
29-Oct-21	6.62	77.23	16.15	22.77	5:27	50.00
30-Oct-21	4.53	73.99	21.48	26.01	6:14	50.01
31-Oct-21	6.40	86.17	7.43	13.83	3:19	49.98
October 2021	11.10	74.39	14.51	25.61	190:34	49.99

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

विद्युत विभव रूपरेखा माह - अक्टूबर 2021

VOLTAGE PROFILE - October 2021

Date of reporting: 05-Nov-21

क्र.स. 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.वौ.) Maximum(kV)	निम्नतम(कि.वौ.) Minimum(kV)	औसत (कि.वौ.) Average(kV)
1	पूर्वी क्षेत्र ER	अंगुल ANGUL	0%	100%	0%	0%	0	799	749	776
2		दरलिपली DARLIPALI	0%	100%	0%	0%	0	792	764	777
3		गया GAYA	0%	100%	0%	0%	0	788	755	772
4		झारसुगुडा JHARSUGUDA	0%	99%	1%	1%	5	804	771	787
5		मिदनापुर MEDINIPUR	0%	100%	0%	0%	0	787	753	771
6		रांची RANCHI	0%	100%	0%	0%	0	794	766	782
7		सासाराम SASARAM	0%	100%	0%	0%	0	781	738	762
1	उत्तरी क्षेत्र NR	आगरा AGRA	0%	100%	0%	0%	0	797	752	779
2		आगरा (फतेहाबाद) AGRA (FATEHABAD)	0%	100%	0%	0%	0	796	751	778
3		अजमेर AJMER	0%	99%	1%	1%	10	808	754	785
4		अलीगढ़ ALIGARH	0%	100%	0%	0%	0	796	747	777
5		अनूपरा सी ANPARA-C	0%	100%	0%	0%	0	777	751	763
6		अनूपरा डी ANPARA-D	0%	100%	0%	0%	0	777	746	764
7		अंता ANTA	0%	100%	0%	0%	0	799	764	785
8		बलिया BALLIA	0%	100%	0%	0%	0	789	748	770
9		बारा BARA	0%	100%	0%	0%	0	784	761	775
10		भदला BHADLA	0%	100%	0%	0%	1	808	732	769
11		भिवानी BHIWANI	0%	100%	0%	0%	0	799	749	778
12		बीकानेर BIKANER	0%	100%	0%	0%	2	808	742	773
13		बरेली BAREILLY	0%	100%	0%	0%	1	802	743	778
14		चित्तौड़गढ़ CHITTORGARH	0%	99%	1%	1%	6	809	750	780
15		फतेहपुर FATEHPUR	0%	100%	0%	0%	0	789	741	766
16		ग्रेटर नोएडा GREATER NOIDA	0%	100%	0%	0%	1	800	750	783
17		हापड़ HAPUR	0%	100%	0%	0%	0	800	745	781
18		जावाहरपुर JAWAHARPUR	0%	0%	0%	0%	0	0	0	0
19		झटिकरा JHATIKARA	0%	100%	0%	0%	0	796	747	777
20		कानपुर जीआईएस KANPUR GIS	0%	100%	0%	0%	0	793	748	772
21		कोटेश्वर KOTESHWAR	0%	100%	0%	0%	0	796	748	773
22		ललितपुर LALITPUR	0%	100%	0%	0%	0	786	745	772
23		लखनऊ LUCKNOW	0%	100%	0%	0%	0	793	748	772
24		मैनपुरी MAINPURI	0%	100%	0%	0%	1	806	755	783
25		मेरठ MEERUT	0%	100%	0%	0%	0	802	748	780
26		मोगा MOGA	0%	100%	0%	0%	0	801	739	769
27		ओबरा सी OBRA C	0%	0%	0%	0%	0	0	0	0
28		उरई ORAI	0%	100%	0%	0%	2	805	756	785
29		फागी PHAGI	0%	100%	0%	0%	2	805	752	784
30		उन्नाव UNNAO	0%	100%	0%	0%	0	783	736	761
31		वाराणसी VARANASI	0%	100%	0%	0%	0	789	761	776
1	पश्चिमी क्षेत्र WR	अकोला AKOLA	0%	100%	0%	0%	0	792	754	774
2		औरंगाबाद AURANGABAD	0%	100%	0%	0%	0	790	746	773
3		भोपाल (बीडीटीसीएल) BHOPAL (BDTCL)	0%	100%	0%	0%	0	792	750	770
4		भुज BHUJ	0%	100%	0%	0%	0	806	750	772
5		बिलासपुर BILASPUR	0%	100%	0%	0%	0	790	763	776
6		बीना BINA	0%	100%	0%	0%	0	801	763	782
7		बनसकंठ BANASKANTHA	0%	99%	1%	1%	7	812	759	785
8		चाम्पा CHAMPA	0%	73%	27%	27%	197	811	779	796
9		धुले (बीडीटीसीएल) DHULE (BDTCL)	0%	100%	0%	0%	0	793	746	772
10		धर्मजयगढ़ DHARAMJAIGARH	0%	100%	0%	0%	0	789	762	775
11		रायपुर पुलिंग RAIPUR POOLING	0%	100%	0%	0%	0	800	768	784
12		एकतुनी EKTUNI	0%	100%	0%	0%	0	791	749	774
13		गदरवाड़ा GADARWARA	0%	100%	0%	0%	0	800	771	784
14		ग्वालियर GWALIOR	0%	100%	0%	0%	0	801	758	783
15		इंदौर INDORE	0%	100%	0%	0%	0	792	749	770
16		जबलपुर JABALPUR	0%	100%	0%	0%	2	803	767	785
17		खडवा KHANDWA	0%	100%	0%	0%	0	795	748	771
18		कोरडी KORADI	0%	100%	0%	0%	0	781	751	765
19		रायगढ़ पुलिंग RAIGARH POOLING	0%	99%	1%	1%	4	804	777	791
20		पडुघे PADGHE	0%	99%	1%	1%	8	806	744	780
21		परली PARLI	0%	92%	8%	8%	61	808	766	789
22		पुणे PUNE	0%	99%	0%	0%	0	800	756	784
23		राजनन्दगांव RAJNANDGAON	0%	98%	2%	2%	16	807	774	791
24		सासन SASAN	0%	100%	0%	0%	0	788	765	777
25		सतना SATNA	0%	100%	0%	0%	0	797	767	783
26		सिवनी SEONI	0%	100%	0%	0%	0	798	760	778
27		सीपत SIPAT	0%	100%	0%	0%	0	791	765	777
28		सोलापुर SOLAPUR	0%	96%	4%	4%	33	806	764	788
29		तिरुई TIRORA	0%	100%	0%	0%	0	773	751	763
30		तामनार TAMNAR	0%	100%	0%	0%	3	803	778	791
31		वडोदरा VADODARA	0%	100%	0%	0%	0	798	747	772
32	विन्ध्यचल पुलिंग VINDHYACHAL PS	0%	100%	0%	0%	0	790	769	781	
33	वर्धा WARDHA	0%	100%	0%	0%	0	798	758	780	
34	वरोरा WARORA	0%	100%	0%	0%	3	804	764	785	
1	दक्षिणी क्षेत्र SR	कडपा CUDDAPAH	0%	89%	11%	11%	85	811	749	785
2		चिल्कुरीपेट CHILAKALURIPETA	0%	99%	1%	1%	6	805	740	775
3		कर्नूल KURNOOL	0%	100%	0%	0%	0	797	745	775
4		महेश्वरम MAHESWARAM	0%	100%	0%	0%	0	799	747	773
5		निजामाबाद NIZAMABAD	0%	99%	1%	1%	7	804	758	785
6		नेल्लूर पुलिंग NELLORE PS	0%	100%	0%	0%	0	796	746	774
7		रायचूर RAICHUR	0%	100%	0%	0%	0	800	751	780
8		श्रीकाकुलम SRIKAKULAM	0%	97%	3%	3%	25	805	753	782
9		तिरुवल्लम THIRUVALLEM	0%	100%	0%	0%	0	799	734	774
10		वेमगिरी VEMAGIRI	0%	95%	5%	5%	35	811	755	782
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	418	395	406
3		बोंगाईगांव BONGAIGAON (400 kV)	0%	100%	0%	0%	0	415	400	408
4		बोंगाईगांव टीपीएस BONGAIGAON TPS (400 kV)	0%	100%	0%	0%	0	419	404	412
5		इम्फाल IMPHAL (400 kV)	0%	100%	0%	0%	0	417	397	407
6		बर्निहट BYRNHAT (400 kV)	0%	0%	0%	0%	0	0	0	0
7		कामेंग KAMENG (400 kV)	0%	100%	0%	0%	0	408	396	403
8		अज़ारा AZARA (400 kV)	0%	100%	0%	0%	0	410	402	406
9		मिसा MISA (400 kV)	0%	100%	0%	0%	0	413	396	404
10		न्यू मरियानी NEW MARIANI (400 kV)	0%	100%	0%	0%	0	417	395	405
11		न्यू कोहिमा NEW KOHIMA (400 kV)	0%	100%	0%	0%	0	418	395	405
12		पालाताना PALATANA (400 kV)	0%	100%	0%	0%	0	413	401	407
13		पूर्वकेचनबारी PK BARI (400 kV)	0%	100%	0%	0%	0	411	395	404
14		रंगानदी RANGANADI (400 kV)	0%	0%	0%	0%	0	0	0	0
15		सिलचर SILCHAR (400 kV)	0%	100%	0%	0%	0	418	401	409
16		सुबानसिरी SUBANSIRI (400 kV)	0%	0%	0%	0%	0	0	0	0
17		सुरज्यामनिगर SURJYAMANINAGAR (400 kV)	0%	100%	0%	0%	0	409	394	402

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

All India Angular spread Oct-2021

- AGRA_PG
- ALIPU_PG
- BACHU_PG
- BONGA_PG
- CHDPR_MH
- FARAK_PG
- GJWKA_PG
- KALW4_MH
- KOTA_PG
- KZKDE_PG
- MOGA_PG
- SILCR_PG
- TALCH_PG
- TCHRN_PG
- VINDP_PG

