

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

Date: 05-Dec-2021

System Reliability Indices Report for the month of November 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	76	19.00	2.64
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	9	2.25	0.31
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 NOVEMBER 2021

Date of reporting:

05-Dec-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-Nov-21	6.70	81.16	12.14	18.84	4:31	49.99
02-Nov-21	11.39	72.07	16.54	27.93	6:42	49.99
03-Nov-21	6.74	76.88	16.39	23.13	5:33	50.00
04-Nov-21	7.74	66.01	26.25	33.99	8:09	50.01
05-Nov-21	7.57	68.73	23.70	31.27	7:30	50.00
06-Nov-21	9.02	79.93	11.05	20.07	4:49	49.99
07-Nov-21	11.10	76.85	12.05	23.15	5:33	49.98
08-Nov-21	22.44	65.58	11.98	34.42	8:15	49.96
09-Nov-21	8.69	76.19	15.12	23.81	5:42	49.99
10-Nov-21	8.03	70.58	21.39	29.42	7:03	50.00
11-Nov-21	7.38	68.18	24.43	31.82	7:38	50.01
12-Nov-21	8.62	73.70	17.67	26.30	6:18	50.00
13-Nov-21	8.72	76.38	14.91	23.62	5:40	49.99
14-Nov-21	2.25	82.94	14.81	17.06	4:05	50.00
15-Nov-21	4.86	79.54	15.60	20.46	4:54	50.00
16-Nov-21	2.31	79.63	18.06	20.37	4:53	50.01
17-Nov-21	24.00	63.87	12.13	36.13	8:40	49.96
18-Nov-21	17.87	68.41	13.72	31.59	7:34	49.97
19-Nov-21	4.98	68.08	26.94	31.92	7:39	50.02
20-Nov-21	3.53	77.55	18.92	22.45	5:23	50.01
21-Nov-21	0.37	73.88	25.75	26.12	6:16	50.02
22-Nov-21	4.56	76.63	18.81	23.37	5:36	50.00
23-Nov-21	10.50	72.73	16.77	27.27	6:32	49.99
24-Nov-21	7.30	76.71	15.98	23.29	5:35	49.99
25-Nov-21	10.52	75.67	13.81	24.33	5:50	49.98
26-Nov-21	6.31	77.81	15.88	22.19	5:19	50.00
27-Nov-21	4.36	75.51	20.13	24.49	5:52	50.01
28-Nov-21	4.09	70.80	25.12	29.20	7:00	50.01
29-Nov-21	3.08	73.68	23.24	26.32	6:19	50.01
30-Nov-21	5.46	77.29	17.25	22.71	5:27	50.00
November 2021	8.02	74.10	17.88	25.90	186:29	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 - नवम्बर 2021

VOLTAGE PROFILE - November 2021

Date of reporting: 05-Dec-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	795	746	773
2		दरलिपली DARLIPALI	0%	100%	0%	0%	0	789	763	775
3		गया GAYA	0%	100%	0%	0%	0	783	753	770
4		झारसुगुडा JHARSUGUDA	0%	99%	1%	1%	4	802	770	786
5		मिदिनापुर MEDINIPUR	0%	100%	0%	0%	0	793	748	772
6		रांची RANCHI	0%	100%	0%	0%	0	796	764	782
7		सासाराम SASARAM	0%	100%	0%	0%	0	785	740	760
1	उत्तरी क्षेत्र NR	आगरा AGRA	0%	100%	0%	0%	0	803	747	778
2		आगरा (फतेहाबाद) AGRA (FATEHABAD)	0%	100%	0%	0%	0	807	743	778
3		अजमेर AJMER	0%	99%	1%	1%	6	809	750	782
4		अलीगढ़ ALIGARH	0%	100%	0%	0%	0	806	741	775
5		अनूपरा सी ANPARA-C	0%	100%	0%	0%	0	784	755	769
6		अनूपरा डी ANPARA-D	0%	100%	0%	0%	0	784	756	769
7		अंता ANTA	0%	100%	0%	0%	0	799	759	783
8		बलिया BALLIA	0%	100%	0%	0%	0	788	750	770
9		बारा BARA	0%	100%	0%	0%	0	786	755	772
10		भादला BHADLA	0%	100%	0%	0%	1	803	741	768
11		भिवानी BHIWANI	0%	100%	0%	0%	1	805	747	778
12		बीकानेर BIKANER	0%	100%	0%	0%	2	805	742	773
13		बरेली BAREILLY	0%	100%	0%	0%	1	805	741	778
14		चित्तौड़गढ़ CHITTORGARH	0%	100%	0%	0%	4	808	744	777
15		फतेहपुर FATEHPUR	0%	100%	0%	0%	0	795	740	768
16		ग्रेटर नोएडा GREATER NOIDA	0%	99%	1%	1%	7	810	748	783
17		हापड़ HAPUR	0%	100%	0%	0%	3	809	747	782
18		जावाहरपुर JAWAHARPUR	0%	0%	0%	0%	0	0	0	0
19		झटिकरा JHATIKARA	0%	100%	0%	0%	0	802	747	778
20		कानपुर जीआईएस KANPUR GIS	0%	100%	0%	0%	0	794	744	771
21		कोटेश्वर KOTESHWAR	0%	100%	0%	0%	0	801	741	775
22		ललितपुर LALITPUR	0%	100%	0%	0%	0	794	734	770
23		लखनऊ LUCKNOW	0%	100%	0%	0%	0	799	745	774
24		मैनपुरी MAINPURI	0%	97%	3%	3%	20	811	748	782
25		मेरठ MEERUT	0%	100%	0%	0%	2	806	741	780
26		मोगा MOGA	0%	100%	0%	0%	1	804	732	767
27		ओबरा सी OBRA C	0%	0%	0%	0%	0	0	0	0
28		उरई ORAI	0%	99%	1%	1%	5	804	756	782
29		फागी PHAGI	0%	100%	0%	0%	2	806	749	781
30		उन्नाव UNNAO	0%	100%	0%	0%	0	789	740	765
31		वाराणसी VARANASI	0%	100%	0%	0%	0	789	758	775
1	पश्चिमी क्षेत्र WR	अकोला AKOLA	0%	100%	0%	0%	0	791	736	774
2		औरंगाबाद AURANGABAD	0%	100%	0%	0%	0	798	745	775
3		भोपाल (बीडीटीसीएल) BHOPAL (BDTCL)	0%	100%	0%	0%	0	792	741	771
4		भुज BHUJ	0%	100%	0%	0%	0	792	748	771
5		बिलासपुर BILASPUR	0%	100%	0%	0%	0	792	761	776
6		बीना BINA	0%	100%	0%	0%	0	798	759	781
7		बनसकंठ BANASKANTHA	0%	100%	0%	0%	3	805	755	782
8		चांचा CHAMPA	0%	71%	29%	29%	208	815	771	794
9		धुले (बीडीटीसीएल) DHULE (BDTCL)	0%	100%	0%	0%	0	799	743	772
10		धर्मजयगढ़ DHARAMJAIGARH	0%	100%	0%	0%	0	789	758	775
11		रायपुर पुलिंग RAIPUR POOLING	0%	99%	1%	1%	5	801	766	784
12		एकतुनी EKTUNI	0%	100%	0%	0%	0	791	740	773
13		गदरवाड़ा GADARWARA	0%	100%	0%	0%	2	800	767	784
14		ग्वालियर GWALIOR	0%	100%	0%	0%	0	803	755	781
15		इंदौर INDORE	0%	100%	0%	0%	0	791	743	770
16		जबलपुर JABALPUR	0%	100%	0%	0%	2	802	765	785
17		खडवा KHANDWA	0%	100%	0%	0%	0	793	744	772
18		कोरडी KORADI	0%	100%	0%	0%	0	782	745	768
19		रायगढ़ पुलिंग RAIGARH POOLING	0%	93%	7%	7%	48	806	771	790
20		पडुधे PADGHE	0%	98%	2%	2%	11	806	741	780
21		परली PARLI	0%	95%	5%	5%	39	809	758	785
22		पुणे PUNE	0%	95%	0%	0%	0	800	744	783
23		राजनन्दगांव RAJNANDGAON	0%	94%	6%	6%	44	808	769	790
24		सासन SASAN	0%	100%	0%	0%	0	789	764	776
25		सतना SATNA	0%	100%	0%	0%	0	797	762	781
26		सिवनी SEONI	0%	99%	0%	0%	2	803	758	780
27		सीपत SIPAT	0%	100%	0%	0%	0	793	764	777
28		सोलापुर SOLAPUR	0%	95%	5%	5%	36	809	752	785
29		तिरुई TIRORA	0%	100%	0%	0%	0	777	747	764
30		तामनार TAMNAR	0%	97%	3%	3%	20	804	772	790
31		वडोदरा VADODARA	0%	100%	0%	0%	0	799	746	774
32	विन्ध्यचल पुलिंग VINDHYACHAL PS	0%	100%	0%	0%	0	792	768	780	
33	वर्धा WARDHA	0%	95%	5%	5%	35	809	757	784	
34	वरोरा WARORA	0%	99%	1%	1%	5	804	759	783	
1	दक्षिणी क्षेत्र SR	कडपा CUDDAPAH	0%	93%	7%	7%	53	812	745	783
2		चिल्कुरीपेट CHILAKALURIPETA	0%	99%	1%	1%	7	808	734	772
3		कर्नूल KURNOOL	0%	100%	0%	0%	0	796	742	773
4		महेश्वरम MAHESWARAM	0%	100%	0%	0%	0	803	751	777
5		निजामाबाद NIZAMABAD	0%	87%	13%	13%	96	811	763	789
6		नेल्लूर पुलिंग NELLORE PS	0%	100%	0%	0%	1	801	748	777
7		रायचूर RAICHUR	0%	100%	0%	0%	0	800	751	778
8		श्रीकाकुलम SRIKAKULAM	0%	95%	5%	5%	34	808	742	783
9		तिरुवल्लम THIRUVALEM	0%	97%	3%	3%	20	803	739	780
10		वेमगिरी VEMAGIRI	0%	94%	6%	6%	40	819	751	785
1	पूर्वोत्तरी 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	421	396	405
3		बोंगाईगांव BONGAIGAON (400 kV)	0%	100%	0%	0%	0	418	402	411
4		बोंगाईगांव टीपीएस BONGAIGAON TPS (400 kV)	0%	99%	1%	1%	10	423	406	414
5		इम्फाल IMPHAL (400 kV)	0%	100%	0%	0%	0	419	389	407
6		बनिहट्ट BYRNHAT (400 kV)	0%	0%	0%	0%	0	0	0	0
7		कामेंग KAMENG (400 kV)	0%	100%	0%	0%	0	413	393	401
8		अज़ारा AZARA (400 kV)	0%	100%	0%	0%	0	411	401	407
9		मिसा MISA (400 kV)	0%	100%	0%	0%	0	415	395	406
10		न्यू मरियानी NEW MARIANI (400 kV)	0%	100%	0%	0%	0	418	391	405
11		न्यू कोहिमा NEW KOHIMA (400 kV)	0%	100%	0%	0%	0	420	389	406
12		पालाताना PALATANA (400 kV)	0%	100%	0%	0%	0	413	401	407
13		पुबकेचनबारी PK BARI (400 kV)	0%	100%	0%	0%	0	412	396	405
14		रंगानदी RANGANADI (400 kV)	0%	0%	0%	0%	0	0	0	0
15		सिलचर SILCHAR (400 kV)	0%	100%	0%	0%	0	420	400	410
16		सुबानसिरी SUBANSIRI (400 kV)	0%	0%	0%	0%	0	0	0	0
17		सुरज्यामनिगर SURJYAMANINAGAR (400 kV)	0%	100%	0%	0%	0	410	394	403

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

All India Angular Spread w.r.to. Vindhyachal Nov-2021

AGRA_PG ALIPU_PG BACHU_PG BALIP_PG BONGA_PG CHDPR_MH DURGA_WB FARAK_PG
GJWKA_PG HOSUR_PG KALW4_MH KISNP_PG KOLAR_PG KOTA_PG KSTPS_GS KZKDE_PG
MOGA_PG PURNW_PG SILCR_PG TALCH_PG TCHRN_PG UNNAO_UP VINDP_PG

