

POWER SYSTEM OPERATION CORPORATION LIMITED
NATIONAL LOAD DESPATCH CENTRE
NEW DELHI

Date: 05-Jan-2022

System Reliability Indices Report for the month of December 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	3	0.75	0.10
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 DECEMBER 2021

Date of reporting:

05-Jan-22

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-Dec-21	11.74	74.91	13.36	25.09	6:01	49.98
02-Dec-21	5.14	75.20	19.66	24.80	5:57	50.00
03-Dec-21	10.82	75.88	13.30	24.12	5:47	49.99
04-Dec-21	6.75	77.70	15.56	22.30	5:21	49.99
05-Dec-21	7.94	80.07	11.99	19.93	4:47	49.99
06-Dec-21	4.76	77.64	17.60	22.36	5:22	50.00
07-Dec-21	4.69	72.60	22.71	27.40	6:34	50.01
08-Dec-21	6.99	75.38	17.63	24.62	5:54	50.00
09-Dec-21	6.31	75.45	18.24	24.55	5:53	50.00
10-Dec-21	6.67	68.95	24.39	31.05	7:27	50.01
11-Dec-21	9.70	75.79	14.51	24.21	5:48	49.98
12-Dec-21	1.40	75.60	23.00	24.40	5:51	50.02
13-Dec-21	11.54	70.91	17.55	29.09	6:58	49.99
14-Dec-21	13.23	70.90	15.87	29.10	6:59	49.99
15-Dec-21	10.39	74.16	15.45	25.84	6:12	49.99
16-Dec-21	3.82	71.12	25.06	28.88	6:55	50.01
17-Dec-21	4.53	63.87	31.61	36.13	8:40	50.02
18-Dec-21	0.65	71.52	27.84	28.48	6:50	50.02
19-Dec-21	1.81	62.73	35.46	37.27	8:56	50.03
20-Dec-21	8.81	58.43	32.77	41.57	9:58	50.02
21-Dec-21	9.42	76.38	14.20	23.62	5:40	49.99
22-Dec-21	5.71	77.72	16.57	22.28	5:20	50.00
23-Dec-21	6.22	80.96	12.82	19.04	4:34	49.99
24-Dec-21	5.56	73.13	21.32	26.88	6:27	50.01
25-Dec-21	9.99	78.77	11.24	21.23	5:05	49.98
26-Dec-21	14.65	71.01	14.34	28.99	6:57	49.98
27-Dec-21	3.39	74.29	22.31	25.71	6:10	50.01
28-Dec-21	4.12	77.73	18.15	22.27	5:20	50.00
29-Dec-21	3.69	67.36	28.95	32.64	7:50	50.02
30-Dec-21	2.03	71.32	26.66	28.68	6:53	50.02
31-Dec-21	11.92	69.99	18.09	30.01	7:12	49.99
December 2021	6.91	73.14	19.94	26.86	199:48	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 - दिसम्बर 2021

VOLTAGE PROFILE - December 2021

Date of reporting: 05-Jan-22

क्र.स. Si. 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.वो.) Maximum(kV)	निम्नतम(कि.वो.) Minimum(kV)	औसत (कि.वो.) Average(kV)
1	पूर्वी क्षेत्र ER	अंगुल ANGUL	0%	100%	0%	0%	0	796	737	774
2		दालिपली DARLIPALI	0%	100%	0%	0%	0	796	756	775
3		गया GAYA	0%	100%	0%	0%	0	787	747	766
4		झारसुगडा JHARSUGUDA	0%	98%	2%	2%	11	806	762	785
5		मिदिनापुर MEDINIPUR	0%	100%	0%	0%	0	784	749	768
6		रांची RANCHI	0%	100%	0%	0%	0	794	761	779
7		सासाराम SASARAM	0%	100%	0%	0%	0	799	735	763
1	उत्तरी क्षेत्र NR	आगरा AGRA	0%	100%	0%	0%	0	805	745	779
2		आगरा (फतेहाबाद) AGRA (FATEHABAD)	0%	100%	0%	0%	0	797	738	775
3		अजमेर AJMER	0%	99%	1%	1%	6	811	746	782
4		अलीगढ़ ALIGARH	0%	100%	0%	0%	0	806	743	777
5		अनूपरा सी ANPARA-C	0%	100%	0%	0%	0	785	756	769
6		अनूपरा डी ANPARA-D	0%	100%	0%	0%	0	786	755	768
7		अंता ANTA	0%	100%	0%	0%	0	799	747	782
8		बलिया BALLIA	0%	100%	0%	0%	0	790	745	767
9		बारा BARA	0%	100%	0%	0%	0	786	745	771
10		भदला BHADLA	0%	100%	0%	0%	0	801	739	769
11		भिवानी BHIWANI	0%	100%	0%	0%	1	806	747	781
12		बीकानेर BIKANER	0%	100%	0%	0%	1	809	744	774
13		बरेली BAREILLY	0%	95%	5%	5%	34	808	742	781
14		चित्तौड़गढ़ CHITTORGARH	0%	100%	0%	0%	4	808	746	779
15		फतेहपुर FATEHPUR	0%	100%	0%	0%	0	795	740	768
16		ग्रेटर नोएडा GREATER NOIDA	0%	100%	0%	0%	3	806	745	783
17		हापुड HAPUR	0%	100%	0%	0%	2	804	742	781
18		जवाहरपुर JAWAHARPUR	0%	0%	0%	0%	0	0	0	0
19		झटिकरा JHATIKARA	0%	100%	0%	0%	0	802	743	777
20		कानपुर जीआइएस KANPUR GIS	0%	100%	0%	0%	0	801	741	772
21		कोटेश्वर KOTESHWAR	0%	100%	0%	0%	0	805	743	775
22		लालितपुर LALITPUR	0%	100%	0%	0%	0	784	730	767
23		लखनऊ LUCKNOW	0%	100%	0%	0%	0	801	744	775
24		मैनपुरी MAINPURI	0%	99%	1%	1%	4	804	740	780
25		मेरठ MEERUT	0%	100%	0%	0%	2	807	747	780
26		मोहा MOGA	0%	100%	0%	0%	1	812	736	770
27		ओबरा सी OBRA C	0%	0%	0%	0%	0	0	0	0
28		उरई ORAI	0%	100%	0%	0%	1	802	749	784
29		फागी PHAGI	0%	100%	0%	0%	2	809	749	782
30		उन्नाव UNNAO	0%	100%	0%	0%	0	793	737	766
31		वाराणसी VARANASI	0%	100%	0%	0%	0	794	751	774
1	पश्चिमी क्षेत्र WR	अकोला AKOLA	0%	100%	0%	0%	0	793	747	775
2		औरंगाबाद AURANGABAD	0%	100%	0%	0%	0	798	744	775
3		भोपाल (बीक्रीटीसीएल) BHOPAL (BDTCL)	0%	100%	0%	0%	0	792	744	772
4		भुज BHUJ	0%	100%	0%	0%	0	795	752	771
5		बिलासपुर BILASPUR	0%	100%	0%	0%	0	790	758	774
6		बीना BINA	0%	100%	0%	0%	1	801	751	780
7		बनसकण्ठ BANASKANTHA	0%	100%	0%	0%	1	804	758	781
8		चाम्पा CHAMPA	0%	82%	18%	18%	136	817	769	791
9		धुले (बीक्रीटीसीएल) DHULE (BDTCL)	0%	100%	0%	0%	0	801	743	775
10		धर्मजयगढ़ DHARAMJAGARH	0%	100%	0%	0%	0	793	754	773
11		रायपुर प्रसिंग RAIPUR POOLING	0%	100%	0%	0%	1	802	764	781
12		एकतुनी EKTUNI	0%	100%	0%	0%	0	797	744	773
13		गदचरोडा GADCHRODA	0%	98%	2%	2%	17	803	763	785
14		ग्वालियर GWALIOR	0%	100%	0%	0%	0	802	747	782
15		इंदौर INDORE	0%	100%	0%	0%	0	793	745	772
16		जबलपुर JABALPUR	0%	97%	3%	3%	25	805	758	785
17		खडवा KHANDWA	0%	100%	0%	0%	0	795	746	773
18		कोरडी KORADI	0%	100%	0%	0%	0	782	746	767
19		रायगढ़ प्रसिंग RAIGARH POOLING	0%	97%	3%	3%	21	808	766	786
20		पडघे PADGHE	0%	99%	1%	1%	8	809	743	780
21		परली PARLI	0%	93%	7%	7%	51	806	757	786
22		पुणे PUNE	0%	97%	0%	0%	0	800	748	782
23		राजनन्दगांव RAJNANDGAON	0%	91%	9%	9%	69	808	766	788
24		सासन SASAN	0%	100%	0%	0%	0	794	759	777
25		सतना SATNA	0%	100%	0%	0%	2	802	756	782
26		सिवनी SEONI	0%	100%	0%	0%	0	798	749	777
27		सीपट SIPAT	0%	100%	0%	0%	0	791	759	775
28		सोलापुर SOLAPUR	0%	96%	4%	4%	28	806	756	785
29		तिरुठा TIRUTHA	0%	100%	0%	0%	0	775	748	763
30		तामनार TAMNAR	0%	99%	1%	1%	11	807	767	786
31		वडोदरा VADODARA	0%	100%	0%	0%	0	799	747	777
32		विन्ध्यचल प्रसिंग VINDHYACHAL PS	0%	100%	0%	0%	1	795	697	780
33		वर्धा WARDHA	0%	100%	0%	0%	4	804	749	780
34		वरोरा WARORA	0%	98%	2%	2%	11	804	758	783
1	दक्षिणी क्षेत्र SR	कडपा CUDDAPAH	0%	89%	11%	11%	80	808	746	784
2		चिन्नकलुरीपेट CHILAKALURIPETA	0%	100%	0%	0%	2	805	734	769
3		कन्नूर KURNOOL	0%	100%	0%	0%	0	797	740	776
4		महेश्वरम MAHESWARAM	0%	99%	1%	1%	6	805	734	775
5		निजामाबाद NIZAMABAD	0%	93%	7%	7%	51	810	741	785
6		नेल्लूर प्रसिंग NELLORE PS	0%	100%	0%	0%	0	800	745	778
7		रायचूर RAICHUR	0%	100%	0%	0%	1	801	747	779
8		श्रीकाकुलम SRIKAKULAM	0%	99%	1%	1%	6	804	742	778
9		तिरुवल्लम THIRUVALEM	0%	100%	0%	0%	0	793	727	768
10		वेमगिरी VEMAGIRI	0%	99%	1%	1%	8	812	742	780
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	417	394	405
3		बोंगाईगांव BONGAIGON (400 kV)	0%	100%	0%	0%	0	419	401	410
4		बोंगाईगांव ट्रांसफॉर्मर BONGAIGON TPS (400 kV)	0%	99%	1%	1%	11	422	404	413
5		इम्फाल IMPHAL (400 kV)	0%	100%	0%	0%	0	420	393	408
6		बिनहट्ट BYRNHAT (400 kV)	0%	0%	0%	0%	0	0	0	0
7		कामेंग KAMENG (400 kV)	0%	100%	0%	0%	0	415	392	402
8		अजरा AZARA (400 kV)	0%	100%	0%	0%	0	411	402	407
9		मौला MISA (400 kV)	0%	100%	0%	0%	0	417	394	405
10		न्यू मरिचानी NEW MARIANI (400 kV)	0%	100%	0%	0%	0	416	391	405
11		न्यू कोहिमा NEW KOHIMA (400 kV)	0%	100%	0%	0%	0	420	391	406
12		पालाताना PALATANA (400 kV)	0%	100%	0%	0%	0	413	400	407
13		पुबुचनबारी PK BARI (400 kV)	0%	100%	0%	0%	0	414	393	404
14		रंगानदी RANGANADI (400 kV)	0%	0%	0%	0%	0	0	0	0
15		सिलचर SILCHAR (400 kV)	0%	100%	0%	0%	0	421	398	410
16		सुबानसिरी SUBANSIRI (400 kV)	0%	0%	0%	0%	0	0	0	0
17		सुन्चयामनिगर SURJYAMANINAGAR (400 kV)	0%	100%	0%	0%	0	412	393	403

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

Angular spread w.r.to. Vindhaychal _Dec_2021

- AGRA_PG
- ALIPU_PG
- BACHU_PG
- BONGA_PG
- CHDPR_MH
- DURG4_WB
- HOSUR_PG
- KALW4_MH
- PURNW_PG
- SILCR_PG
- TALCH_PG
- TCHRN_PG
- UNNAO_UP
- VINDP_PG

