

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

Date: 05-Feb-2021

System Reliability Indices Report for the month of January 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	13	3.25	0.44
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	1	0.25	0.03
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 JANUARY 2021

Date of reporting:

05-Feb-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-Jan-21	4.07	76.67	19.26	23.33	5:36	50.01
02-Jan-21	7.73	74.87	17.40	25.13	6:01	50.00
03-Jan-21	5.68	79.13	15.19	20.87	5:00	49.99
04-Jan-21	4.07	76.67	19.26	23.33	5:36	50.01
05-Jan-21	4.07	76.67	19.26	23.33	5:36	50.01
06-Jan-21	4.07	76.67	19.26	23.33	5:36	50.01
07-Jan-21	4.07	76.67	19.26	23.33	5:36	50.01
08-Jan-21	7.75	72.36	19.88	27.64	6:38	50.00
09-Jan-21	5.91	77.59	16.49	22.41	5:22	50.00
10-Jan-21	4.75	80.36	14.90	19.64	4:42	50.00
11-Jan-21	4.53	75.22	20.25	24.78	5:56	50.00
12-Jan-21	6.00	78.38	15.63	21.62	5:11	50.00
13-Jan-21	5.91	77.59	16.49	22.41	5:22	50.00
14-Jan-21	5.91	77.59	16.49	22.41	5:22	50.00
15-Jan-21	4.09	75.98	19.93	24.02	5:45	50.01
16-Jan-21	5.93	80.51	13.56	19.49	4:40	49.99
17-Jan-21	5.45	76.97	17.58	23.03	5:31	50.00
18-Jan-21	6.33	80.31	13.36	19.69	4:43	49.99
19-Jan-21	8.45	73.51	18.04	26.49	6:21	49.99
20-Jan-21	1.94	77.73	20.32	22.27	5:20	50.01
21-Jan-21	3.43	75.87	20.71	24.13	5:47	50.01
22-Jan-21	5.09	78.03	16.88	21.97	5:16	50.00
23-Jan-21	2.52	75.81	21.67	24.19	5:48	50.01
24-Jan-21	1.19	73.39	25.42	26.61	6:23	50.02
25-Jan-21	2.01	72.43	25.56	27.57	6:37	50.02
26-Jan-21	1.49	76.50	22.00	23.50	5:38	50.01
27-Jan-21	1.68	71.48	26.84	28.52	6:50	50.02
28-Jan-21	4.00	77.21	18.78	22.79	5:28	50.01
29-Jan-21	2.23	78.62	19.14	21.38	5:07	50.01
30-Jan-21	4.49	73.87	21.64	26.13	6:16	50.01
31-Jan-21	0.37	67.87	31.76	32.13	7:42	50.03
January 2021	4.36	76.21	19.43	23.79	176:59	50.01

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

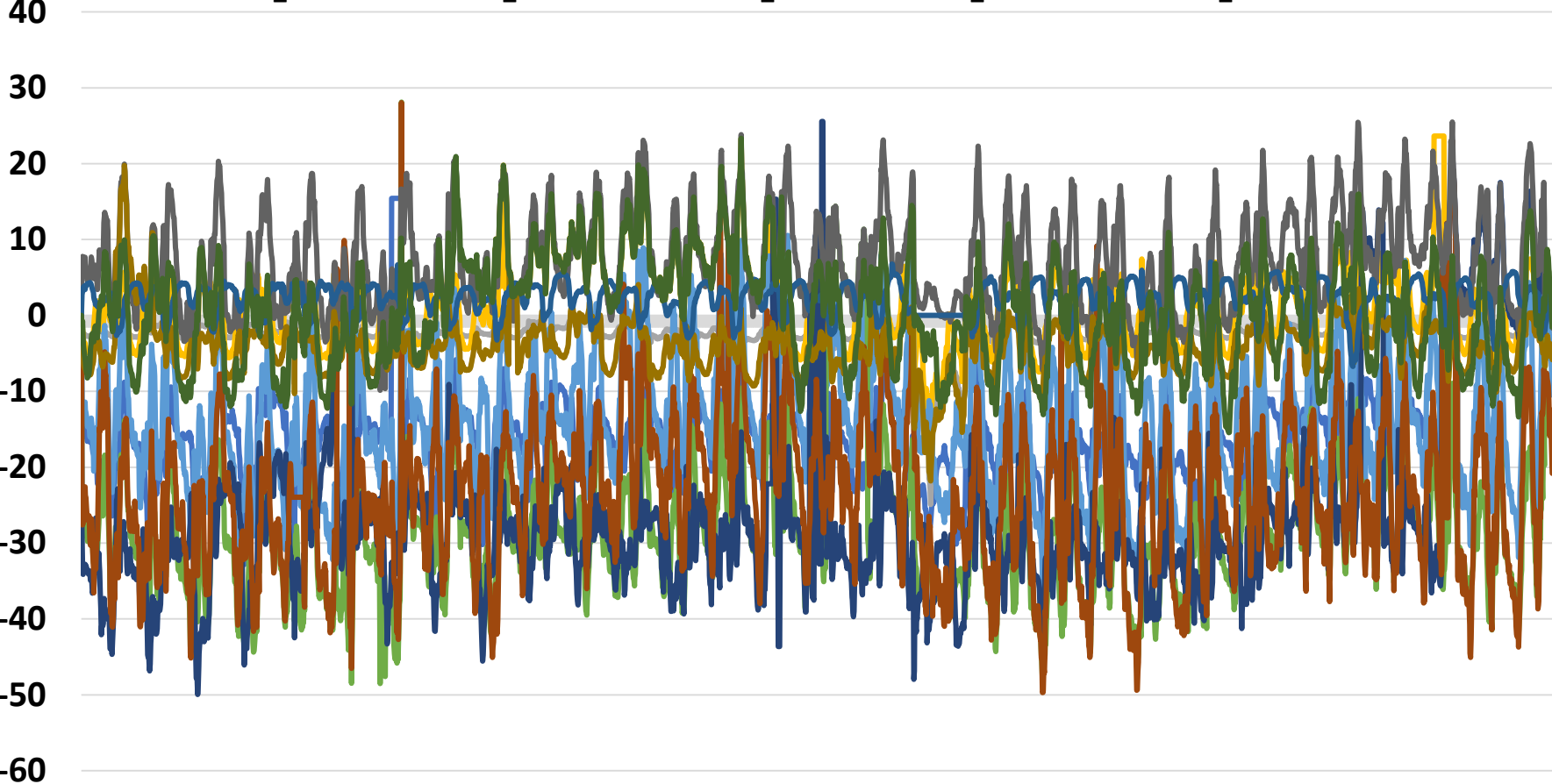
क्र.सं. Sl. No.	क्षेत्र REGION	उपकेंद्र SUBSTATION	VOLTAGE < V(lower)* (V=380,728 kV)	V(lower) < VOLTAGE < V(upper)*	VOLTAGE > V(upper)* (V=420,800 kV)	Voltage Deviation Index (%age of time voltage is outside range)	Number of hours voltage was outside IEGC band during month	उच्चतम (कि.वो.) Maximum(kV)	निम्नतम(कि.वो.) Minimum(kV)	औसत (कि.वो.) Average(kV)
1	पूर्वी क्षेत्र ER	अंगुल ANGUL	0%	100%	0%	0%	0	799	750	773
2		गया GAYA	0%	100%	0%	0%	0	788	749	773
3		झारसगुड़ा JHARSUGUDA	0%	99%	1%	1%	4	804	771	788
4		रानी RANCHI	0%	100%	0%	0%	0	900	761	779
5		सासारम SASARAM	0%	100%	0%	0%	0	798	741	767
6		दालिपली DALIPLI	0%	100%	0%	0%	0	793	765	779
7	मिदनापुर MEDINIPUR	0%	100%	0%	0%	0	785	750	774	
1	उत्तरी क्षेत्र NR	आगरा AGRA	0%	100%	0%	0%	0	799	745	780
2		आगरा (फतेहाबाद) AGRA (FATEHABAD)	0%	99%	1%	1%	11	803	750	786
3		अनूपपुर सी ANUPARA-C	0%	100%	0%	0%	0	781	756	768
4		अनूपपुर डी ANUPARA-D	0%	100%	0%	0%	0	779	755	767
5		अंता ANTA	0%	100%	0%	0%	0	799	756	780
6		बलिया BALLIA	0%	100%	0%	0%	0	790	746	772
7		बारा BARA	0%	100%	0%	0%	0	788	743	773
8		भिवानी BHIWANI	0%	100%	0%	0%	1	804	750	781
9		बरेली BAREILLY	0%	99%	1%	1%	10	804	744	781
10		फतेहपुर FATEHPUR	0%	100%	0%	0%	0	792	736	766
11		ग्रेटर नोएडा GREATER NOIDA	0%	95%	5%	5%	36	812	749	785
12		झाड़करी JHATIKARA	0%	100%	0%	0%	0	801	747	781
13		कानपुर जॉइंटिंग KANPUR GIS	0%	100%	0%	0%	0	794	736	772
14		लखनऊ LUCKNOW	0%	100%	0%	0%	0	798	745	778
15		लालापुर LALITPUR	0%	100%	0%	0%	0	788	745	775
16		मेरठ MEERUT	0%	100%	0%	0%	2	802	742	779
17		मोहा MOGA	0%	100%	0%	0%	0	803	743	771
18		फागी PHAGI	0%	100%	0%	0%	0	800	737	777
19		वाराणसी VARANASI	0%	100%	0%	0%	0	794	752	779
20		उन्नाव UNNAO	0%	100%	0%	0%	0	748	748	748
21		चित्तौड़गढ़ CHITTOORGARH	0%	100%	0%	0%	2	804	756	780
22		अलीगढ़ ALIGARH	0%	100%	0%	0%	0	799	747	779
23		अजमेर AJMER	0%	100%	0%	0%	1	803	746	777
24		हापड़ HAPUR	0%	95%	5%	5%	40	809	748	785
25	मैनपुरी MAINPURI	0%	100%	0%	0%	0	771	771	771	
26	उरई ORAI	0%	96%	4%	4%	30	804	757	785	
27	बीकानेर BIKANER	0%	100%	0%	0%	0	799	736	770	
28	भाड़वा BHADLA	0%	100%	0%	0%	0	803	737	769	
29	कोटेश्वर KOTESHWAR	0%	100%	0%	0%	0	797	741	776	
1	पश्चिमी क्षेत्र WR	अकोला AKOLA	0%	100%	0%	0%	0	793	755	774
2		औरंगाबाद AURANGABAD	0%	100%	0%	0%	0	796	749	777
3		भोपाल (बीडीटीएसएल) BHOPAL (BDTCL)	0%	100%	0%	0%	0	792	751	773
4		बिलासपुर BILASPUR	0%	100%	0%	0%	0	784	756	771
5		बीना BINA	0%	100%	0%	0%	0	798	753	780
6		चापा CHAMPA	0%	100%	0%	0%	0	799	767	786
7		धर्मजगद DHARAMJAGARH	0%	100%	0%	0%	0	789	757	775
8		धुले (बीडीटीएसएल) DHULE (BDTCL)	0%	100%	0%	0%	0	797	752	776
9		एकनो EKTUNI	0%	100%	0%	0%	0	792	751	772
10		ग्वालियर GWALIOR	0%	100%	0%	0%	2	802	752	782
11		इंदौर INDORE	0%	100%	0%	0%	0	793	750	772
12		जबलपुर JABALPUR	0%	100%	0%	0%	2	802	759	784
13		कोरडी KORADI	0%	100%	0%	0%	0	785	752	767
14		पणे PUNE	0%	100%	0%	0%	0	800	745	781
15		रायगढ़ पोलिंग RAIGARH POOLING	0%	100%	0%	0%	0	797	770	786
16		रायपुर पोलिंग RAIPUR POOLING	0%	100%	0%	0%	0	796	761	780
17		सासन SASAN	0%	100%	0%	0%	0	785	758	773
18		सतना SATNA	0%	100%	0%	0%	0	794	753	776
19		सिनी SONI	0%	100%	0%	0%	0	793	750	775
20		सिपट SIPAT	0%	100%	0%	0%	0	783	757	770
21		सोलापुर SOLAPUR	0%	99%	1%	1%	9	804	756	785
22		तामनार TAMNAR	0%	100%	0%	0%	0	797	772	786
23		तिरुंगा TIROGA	0%	100%	0%	0%	0	781	745	763
24		वडोदरा VADODARA	0%	100%	0%	0%	0	796	753	779
25		विन्ध्यचल पोलिंग VINDHYACHAL PS	0%	100%	0%	0%	0	787	760	775
26		वर्धा WARDHA	0%	100%	0%	0%	1	802	754	781
27		भुज BHUJ	0%	100%	0%	0%	1	797	708	771
28		बनसकला BANASKANTHA	0%	100%	0%	0%	0	798	760	778
29		गदरवाड़ा GADARWARA	0%	99%	1%	1%	6	803	766	784
30		फडगी FADGIE	0%	100%	0%	0%	2	803	753	782
31		फर्रुखी FARUKH	0%	99%	1%	1%	5	801	764	785
32		राजमन्दाव राजनगाँव RAJNANDGAON	0%	100%	0%	0%	0	800	770	782
33		वरोरा VARORA	0%	100%	0%	0%	2	796	706	782
34		खडवा KHANDWA	0%	100%	0%	0%	0	790	757	773
1	दक्षिणी क्षेत्र SR	कूर्नूल KURNOOL	0%	100%	0%	0%	0	800	743	776
2		नेल्लूर पोलिंग NELLORE PS	0%	100%	0%	0%	0	795	742	773
3		रायचूर RAICHUR	0%	100%	0%	0%	0	802	746	778
4		निज़ामाबाद NIZAMABAD	0%	97%	3%	3%	26	812	740	782
5		श्रीकाकुलम SRIKAKULAM	0%	96%	4%	4%	30	810	740	783
6		तिरुवलम THIRUVALEM	0%	99%	1%	1%	8	805	750	779
7		कुड्डापुडु Cuddapah	0%	90%	10%	10%	75	812	751	785
8		महेश्वरम MAHESHWARAM	0%	98%	2%	2%	15	808	726	773
9		वेमागिरी VEMAGIRI	0%	89%	11%	11%	81	813	753	784
10		चिलकलुरिपेटा CHILAKALURIPETA	0%	98%	2%	2%	12	816	741	778
1	पूर्वोत्तर क्षेत्र NER	अजरा AZARA (400 kV)	0%	100%	0%	0%	0	411	405	409
2		बालिपारा BALIPARA (400 kV)	0%	100%	0%	0%	0	416	392	405
3		बिस्वनाथ चरिआलि BISWANATH CHARIALI (400 kV)	0%	100%	0%	0%	0	416	392	404
4		बोंगागाँव BONGAIGAON (400 kV)	0%	100%	0%	0%	0	417	401	410
5		बोंगागाँव टीपीएस BONGAIGAON TPS (400 kV)	0%	100%	0%	0%	0	419	402	412
6		बर्निहाट BYRNIHAT (400 kV)	0%	100%	0%	0%	0	411	405	409
7		पालाताना PALATANA (400 kV)	0%	100%	0%	0%	0	418	402	411
8		रंगानादी RANGANADI (400 kV)	0%	99%	1%	1%	8	424	392	407
9		मिसा MISA (400 kV)	0%	100%	0%	0%	0	414	389	402
10		सिलचर SILCHAR (400 kV)	0%	100%	0%	0%	0	418	398	407
11		इम्फाल IMPHAL (400 kV)	0%	100%	0%	0%	1	424	387	409
12		कामेंग KAMENG (400 kV)	0%	100%	0%	0%	0	418	389	405
13		न्यू कोहिमा NEW KOHIMA (400 kV)	0%	100%	0%	0%	0	420	386	409

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. Agra

- AGRA_PG
- BONGA_PG
- FARAK_PG
- GJWKA_PG
- KALW4_MH
- KISNP_PG
- KOLAR_PG
- KSTPS_GS
- PURNW_PG
- SILCR_PG
- TALCH_PG



01-Jan-21 02-Jan-21 03-Jan-21 04-Jan-21 05-Jan-21 06-Jan-21 07-Jan-21 08-Jan-21 09-Jan-21 10-Jan-21 11-Jan-21 12-Jan-21 13-Jan-21 14-Jan-21 15-Jan-21 16-Jan-21 17-Jan-21 18-Jan-21 19-Jan-21 20-Jan-21 21-Jan-21 22-Jan-21 23-Jan-21 24-Jan-21 25-Jan-21 26-Jan-21 27-Jan-21 28-Jan-21 29-Jan-21 30-Jan-21 31-Jan-21