

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

Date: 05-Nov-2020

**System Reliability Indices Report for the month of October 2020**

**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	18	4.50	0.60
3	Import of NR	0	0.00	0.00
4	NEW-SR	7	1.75	0.24
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	6	1.50	0.20
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 2020

Date of reporting:

05-Nov-20

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-20	0.03	77.94	22.03	22.06	5:17	50.03
02-Oct-20	2.57	80.74	16.69	19.26	4:37	50.01
03-Oct-20	1.48	86.01	12.51	13.99	3:21	50.01
04-Oct-20	0.05	83.26	16.69	16.74	4:01	50.02
05-Oct-20	7.53	79.93	12.53	20.07	4:49	49.99
06-Oct-20	4.75	77.86	17.40	22.14	5:18	50.01
07-Oct-20	3.76	84.07	12.16	15.93	3:49	50.00
08-Oct-20	4.39	83.54	12.07	16.46	3:57	50.00
09-Oct-20	3.31	84.70	11.99	15.30	3:40	50.00
10-Oct-20	2.03	83.95	14.03	16.05	3:51	50.01
11-Oct-20	0.54	77.14	22.31	22.86	5:29	50.03
12-Oct-20	1.40	77.50	21.10	22.50	5:24	50.02
13-Oct-20	1.31	79.13	19.56	20.87	5:00	50.02
14-Oct-20	1.13	79.10	19.77	20.90	5:01	50.01
15-Oct-20	7.21	76.23	16.56	23.77	5:42	50.00
16-Oct-20	7.99	83.21	8.81	16.79	4:01	49.98
17-Oct-20	7.45	83.63	8.91	16.37	3:55	49.99
18-Oct-20	4.65	83.10	12.25	16.90	4:03	50.00
19-Oct-20	6.55	83.53	9.92	16.47	3:57	50.00
20-Oct-20	7.36	81.45	11.19	18.55	4:27	49.99
21-Oct-20	1.05	84.25	14.70	15.75	3:46	50.01
22-Oct-20	0.54	85.63	13.83	14.38	3:27	50.01
23-Oct-20	1.99	84.21	13.80	15.79	3:47	50.00
24-Oct-20	3.89	83.65	12.47	16.35	3:55	50.00
25-Oct-20	1.46	86.49	12.05	13.51	3:14	50.00
26-Oct-20	0.51	80.29	19.20	19.71	4:43	50.02
27-Oct-20	6.83	78.51	14.66	21.49	5:09	50.00
28-Oct-20	7.58	80.25	12.16	19.75	4:44	50.00
29-Oct-20	8.30	82.40	9.31	17.60	4:13	49.98
30-Oct-20	9.28	82.72	8.00	17.28	4:08	49.98
31-Oct-20	4.20	83.99	11.81	16.01	3:50	50.00
<b>October 2020</b>	<b>3.91</b>	<b>81.88</b>	<b>14.21</b>	<b>18.12</b>	<b>134:47</b>	<b>50.00</b>

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

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.वो.) Maximum(kV)	निम्नतम(कि.वो.) Minimum(kV)	औसत (कि.वो.) Average(kV)
1	पूर्वी क्षेत्र ER	अंगल ANGUL	0%	100%	0%	0%	0	800	758	780
2		गया GAYA	0%	100%	0%	0%	0	789	753	772
3		झारसगुडा JHARSUGUDA	0%	90%	10%	10%	78	809	778	794
4		रांची RANCHI	0%	100%	0%	0%	0	794	756	780
5		सासाराम SASARAM	0%	100%	0%	0%	0	794	739	768
6		दार्जिलिगंज DARJILING	0%	100%	0%	0%	0	797	771	785
1	उत्तरी क्षेत्र NR	आगरा AGRA	0%	100%	0%	0%	0	801	742	779
2		आगरा (फतेहाबाद) AGRA (FATEHABAD)	0%	98%	2%	2%	16	806	745	787
3		अनपरा सी ANPARA-C	0%	100%	0%	0%	0	785	760	772
4		अनपरा डी ANPARA-D	0%	100%	0%	0%	0	784	759	770
5		अंता ANTA	0%	100%	0%	0%	0	795	747	776
6		बलिया BALLIA	0%	100%	0%	0%	0	791	753	772
7		बारा BARA	0%	100%	0%	0%	0	791	760	777
8		भिवानी BHIWANI	0%	98%	2%	2%	13	806	746	781
9		बरेली BAREILLY	0%	100%	0%	0%	2	803	748	782
10		फतेहपुर FATEHPUR	0%	100%	0%	0%	0	796	728	768
11		ग्रेटर नोडा GREATER NOIDA	0%	99%	1%	1%	9	804	747	784
12		झाड़कवा JHARKHARA	0%	100%	0%	0%	0	801	741	777
13		कानपुर जीआईएस KANPUR GIS	0%	100%	0%	0%	0	795	745	776
14		लखनऊ LUCKNOW	0%	100%	0%	0%	0	800	753	779
15		ललितपुर LALITPUR	0%	100%	0%	0%	1	794	722	775
16		मेरठ MEERUT	0%	99%	1%	1%	5	805	741	780
17		मोगा MOGA	0%	100%	0%	0%	3	804	734	776
18		फागी PHAGI	0%	100%	0%	0%	0	799	740	778
19		वाराणसी VARANASI	0%	100%	0%	0%	0	798	758	778
20		उन्नाव UNNAO	0%	100%	0%	0%	0	792	737	768
21		चित्तौड़गढ़ CHITTOORGARH	0%	100%	0%	0%	2	803	751	779
22		अलीगढ़ ALIGARH	0%	100%	0%	0%	0	797	740	777
23		अजमेर AJMER	0%	100%	0%	0%	2	803	738	776
24		हापड़ HAPUR	0%	100%	0%	0%	0	799	743	777
25	मैनपुरी MAINPURI	0%	99%	1%	1%	7	808	754	786	
26	उरई ORAI	0%	100%	0%	0%	1	800	752	782	
27	बिकानेर BIKANER	0%	100%	0%	0%	2	802	697	774	
28	भाड़ला BHADLA	0%	100%	0%	0%	0	800	727	770	
29	कोटेश्वर KOTESHWAR	0%	100%	0%	0%	1	801	745	777	
1	पश्चिमी क्षेत्र WR	अकोला AKOLA	0%	100%	0%	0%	0	794	752	775
2		औरंगाबाद AURANGABAD	0%	100%	0%	0%	0	796	752	777
3		भोपाळ (बीडीटीसीएस) BHOPAL (BDTCL)	0%	100%	0%	0%	0	792	745	770
4		बिलासपुर BILASPUR	0%	100%	0%	0%	0	788	763	776
5		बीना BINA	0%	100%	0%	0%	0	797	750	779
6		चांपा CHAMPA	0%	99%	1%	1%	6	803	773	790
7		धर्मजयगढ़ DHARAMJAIGARH	0%	100%	0%	0%	0	792	767	781
8		धुले (बीडीटीसीएस) DHULE (BDTCL)	0%	100%	0%	0%	0	795	747	776
9		एतुनी EKTUNI	0%	100%	0%	0%	0	794	747	775
10		ग्वालियर GWALIOR	0%	100%	0%	0%	0	803	743	780
11		इंदौर INDORE	0%	100%	0%	0%	0	789	751	768
12		जबलपुर JABALPUR	0%	100%	0%	0%	0	799	761	785
13		कोरडी KORADI	0%	100%	0%	0%	0	782	747	764
14		पुणे PUNE	0%	100%	0%	0%	0	800	743	777
15		रायगढ़ पुलिंग RAIGARH POOLING	0%	100%	0%	0%	0	800	774	789
16		रायपुर पुलिंग RAIPUR POOLING	0%	100%	0%	0%	0	797	769	781
17		सासन SASAN	0%	100%	0%	0%	0	779	754	769
18		सतना SATNA	0%	100%	0%	0%	0	786	743	772
19		सिवनी SEONI	0%	100%	0%	0%	0	794	761	781
20		सीपत SIPAT	0%	100%	0%	0%	0	787	764	776
21		सोलापूर SOLAPUR	0%	100%	0%	0%	2	802	756	784
22		तामनार TAMNAR	0%	100%	0%	0%	0	799	775	789
23		तिरुचूर TIRUCHUR	0%	100%	0%	0%	0	793	747	760
24		वडोदरा VADODARA	0%	100%	0%	0%	0	796	743	778
25		विंध्याचल पुलिंग VINHYACHAL PS	0%	100%	0%	0%	0	780	757	770
26		वर्धा WARDHA	0%	100%	0%	0%	0	801	763	783
27		भुज BHUJ	0%	100%	0%	0%	0	784	751	771
28		बनसकण्ठ BANASKANTHA	0%	100%	0%	0%	0	792	759	777
29		गदरवाड़ा GADARWARA	0%	100%	0%	0%	0	799	770	786
30		पडघे PADGHE	0%	99%	1%	1%	7	803	755	781
31		परली PARLI	0%	94%	6%	6%	41	804	767	788
32		राजनन्दगांव RAJNANDGAON	0%	99%	1%	1%	8	802	773	789
33		वरीया WARORA	0%	100%	0%	0%	0	798	769	786
34		खडवा KHANDWA	0%	100%	0%	0%	0	785	753	767
1	दक्षिणी क्षेत्र SR	कर्नूल KURNOOL	0%	100%	0%	0%	0	796	748	776
2		नेल्लोर पुलिंग NELLORE PS	0%	100%	0%	0%	0	788	746	770
3		रायचूर RAICHUR	0%	100%	0%	0%	0	798	763	778
4		निज़ामाबाद NIZAMABAD	0%	94%	6%	6%	47	811	765	789
5		श्रीकाकुलम SRIKAKULAM	0%	93%	7%	7%	55	812	766	789
6		तिरुवल्लूर THIRUVALLUR	0%	100%	0%	0%	4	804	747	777
7		कुड्डापुडु CUDDAPAH	0%	94%	6%	6%	44	808	755	784
8		महेश्वरम MAHESWARAM	0%	100%	0%	0%	2	804	742	777
9		वेमगिरी VEMGIRI	0%	92%	8%	8%	59	812	752	786
10		चिल्लिकालुरिपेटा CHILAKALURIPETA	0%	99%	1%	1%	10	808	741	775
1	पूर्वोत्तरी क्षेत्र NER	अजारा AZARA (400 kV)	0%	100%	0%	0%	0	407	397	403
2		बालिपारा BALIPARA (400 kV)	0%	100%	0%	0%	0	418	394	406
3		बिस्वनाथ चरिआलि BISWANATH CHARIALI (400 kV)	0%	100%	0%	0%	0	419	394	406
4		बोंगाईगाव BONGAIGAON (400 kV)	0%	100%	0%	0%	0	417	398	408
5		बोंगाईगाव टीपीएस BONGAIGAON TPS (400 kV)	0%	100%	0%	0%	0	420	401	412
6		बर्निहट BYRNHAT (400 kV)	0%	100%	0%	0%	0	407	397	403
7		पालाटाना PALATANA (400 kV)	0%	100%	0%	0%	0	419	405	414
8		रंगानादी RANGANADI (400 kV)	0%	99%	1%	1%	5	422	391	407
9		मैसा MISA (400 kV)	0%	100%	0%	0%	0	419	392	406
10		सिलचर SILCHAR (400 kV)	0%	99%	1%	1%	5	419	351	406
11		इम्फाल IMPHAL (400 kV)	0%	99%	1%	1%	4	421	391	408
12		कामेंग KAMENG (400 kV)	0%	100%	0%	0%	0	420	387	406

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



Standard Chart

- SATNA\_BUS1
- Raichur 765KV(2)
- ROORKELA
- RIHND\_OK
- RANCHI
- RAIPUR\_NLDC
- NHPTL\_BINA4
- NERU
- MOHINDERGARH
- MISA
- KOLAR
- KISHENPUR(2)
- JAMSHEDPUR
- IMPHAL
- FARAKKA
- BOISAR
- BONGAIGAON
- BALIPARA
- 400KV KALWA

Voltage 1 Angle 400KV KALWA

