

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

Date: 05-Sep-2020

System Reliability Indices Report for the month of August 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	2	0.50	0.07
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	7	1.75	0.24
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 AUGUST 2020

Date of reporting:

05-Sep-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-Aug-20	4.14	87.36	8.50	12.64	3:02	49.99
02-Aug-20	6.39	77.62	16.00	22.38	5:22	50.00
03-Aug-20	3.81	78.26	17.93	21.74	5:13	50.00
04-Aug-20	4.58	75.94	19.48	24.06	5:46	50.01
05-Aug-20	8.69	77.21	14.10	22.79	5:28	49.99
06-Aug-20	3.54	79.68	16.78	20.32	4:52	50.00
07-Aug-20	15.73	78.39	5.88	21.61	5:11	49.97
08-Aug-20	10.32	81.20	8.48	18.80	4:30	49.98
09-Aug-20	6.98	79.02	14.00	20.98	5:02	49.99
10-Aug-20	2.43	83.23	14.34	16.77	4:01	50.00
11-Aug-20	3.39	83.11	13.50	16.89	4:03	50.00
12-Aug-20	4.46	80.66	14.88	19.34	4:38	50.00
13-Aug-20	4.53	84.17	11.31	15.83	3:48	50.00
14-Aug-20	7.36	85.50	7.14	14.50	3:28	49.98
15-Aug-20	3.14	84.47	12.40	15.53	3:43	50.00
16-Aug-20	4.38	86.03	9.59	13.97	3:21	49.99
17-Aug-20	8.01	82.71	9.28	17.29	4:09	49.99
18-Aug-20	5.69	77.51	16.79	22.49	5:23	50.00
19-Aug-20	5.28	82.97	11.75	17.03	4:05	50.00
20-Aug-20	9.19	81.08	9.73	18.92	4:32	49.99
21-Aug-20	7.94	82.66	9.40	17.34	4:09	49.99
22-Aug-20	3.95	77.67	18.38	22.33	5:21	50.01
23-Aug-20	1.35	79.63	19.02	20.37	4:53	50.01
24-Aug-20	3.78	80.27	15.95	19.73	4:44	50.01
25-Aug-20	6.96	81.28	11.76	18.72	4:29	49.99
26-Aug-20	7.48	84.35	8.17	15.65	3:45	49.99
27-Aug-20	2.65	82.65	14.70	17.35	4:09	50.00
28-Aug-20	8.75	84.49	6.76	15.51	3:43	49.98
29-Aug-20	5.72	85.74	8.54	14.26	3:25	49.99
30-Aug-20	3.08	68.75	28.17	31.25	7:30	50.02
31-Aug-20	15.07	74.55	10.38	25.45	6:06	49.97
August 2020	6.09	80.91	13.00	19.09	0.19	49.99

*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.वी.) Maximum(kV)	निम्नतम(कि.वी.) Minimum(kV)	औसत (कि.वी.) Average(kV)	
1	पूर्वी क्षेत्र ER	अंगल ANGUL	0%	100%	0%	0%	0	797	756	778	
2		गया GAYA	0%	100%	0%	0%	0	793	746	771	
3		झारसगढ़ JHARSUGUDA	0%	97%	3%	3%	23	804	779	792	
4		रांची RANCHI	0%	100%	0%	0%	0	791	763	779	
5		सासाराम SASARAM	0%	100%	0%	0%	0	801	736	767	
6		दालिपली DALIPLALI	0%	100%	0%	0%	0	794	773	783	
1		उत्तरी क्षेत्र NR	आगरा AGRA	0%	100%	0%	0%	0	802	748	777
2			आगरा (फतेहबाद) AGRA (FATEHABAD)	0%	90%	10%	10%	73	809	759	788
3			अनपरा सी ANPORA-C	0%	100%	0%	0%	0	784	754	766
4			अनपरा डी ANPORA-D	0%	100%	0%	0%	0	785	752	763
5			अंता ANTA	0%	100%	0%	0%	0	797	763	781
6			बलिया BALLIA	0%	100%	0%	0%	0	792	743	769
7			बिजनौर BHIWANI	0%	99%	1%	1%	5	805	750	780
8			बरेली BAREILLY	0%	99%	1%	1%	5	807	745	777
9			फतेहपुर FATEHPUR	0%	100%	0%	0%	0	793	734	765
10	ग्रेटर नोडा GREATER NOIDA		0%	97%	3%	3%	24	806	751	780	
11	झटिकरा JHATIKARA		0%	100%	0%	0%	0	803	743	775	
12	कानपुर जीआईएस KANPUR GIS		0%	100%	0%	0%	0	797	745	773	
13	लखनऊ LUCKNOW		0%	100%	0%	0%	0	801	746	774	
14	ललितपुर LALITPUR		0%	100%	0%	0%	0	792	762	778	
15	मेरठ MEERUT		0%	99%	1%	1%	8	808	747	777	
16	मोगा MOGA	0%	100%	0%	0%	0	803	745	773		
17	फागी PHAGI	0%	100%	0%	0%	1	800	751	779		
18	वाराणसी VARANASI	0%	100%	0%	0%	0	793	752	776		
19	उन्नाव UNNAO	0%	100%	0%	0%	0	789	735	764		
21	चित्तौड़गढ़ CHITTOORGARH	0%	99%	1%	1%	6	807	760	780		
22	अलीगढ़ ALIGARH	0%	100%	0%	0%	0	798	744	773		
23	अजमेर AJMER	0%	100%	0%	0%	2	802	752	776		
24	हापड़ HAPUR	0%	100%	0%	0%	0	800	739	770		
25	मैनपुरी MAINPURI	0%	95%	5%	5%	34	806	755	783		
26	उरई ORAI	0%	100%	0%	0%	1	802	757	780		
27	बिकानेर BIKANER	0%	100%	0%	0%	0	799	742	774		
28	भाड़ल BHADLA	0%	100%	0%	0%	0	800	734	772		
29	कोटेश्वर KOTESHWAR	0%	98%	2%	2%	16	809	748	777		
1	पश्चिमी क्षेत्र WR	अकोला AKOLA	0%	99%	1%	1%	9	804	747	787	
2		औरंगाबाद AURANGABAD	0%	100%	0%	0%	0	796	753	781	
3		भोपाल (बीडीटीसीएल) BHOPAL (BDTCL)	0%	100%	0%	0%	0	791	749	772	
4		बिलासपुर BILASPUR	0%	100%	0%	0%	0	784	766	775	
5		बीना BINA	0%	100%	0%	0%	0	797	760	780	
6		चापा CHAMPA	0%	99%	1%	1%	4	803	776	789	
7		धर्मपुरगढ़ DHARAMJAIGARH	0%	100%	0%	0%	0	791	765	778	
8		धुले (बीडीटीसीएल) DHULE (BDTCL)	0%	100%	0%	0%	0	797	752	777	
9		एकतुनी EKTUNI	0%	96%	4%	4%	29	805	753	788	
10		ग्वालियर GWALIOR	0%	100%	0%	0%	0	800	753	779	
11		इंदौर INDORE	0%	100%	0%	0%	0	785	751	769	
12		जबलपुर JABALPUR	0%	100%	0%	0%	0	801	766	783	
13		कोरडी KORADI	0%	100%	0%	0%	0	791	746	771	
14		पुणे PUNE	0%	100%	0%	0%	0	800	750	784	
15		रायगढ़ पल्लिन RAIGARH POOLING	0%	100%	0%	0%	0	799	777	788	
16		रायपुर पल्लिन RAIPUR POOLING	0%	100%	0%	0%	0	795	768	779	
17		सासन SASAN	0%	100%	0%	0%	0	783	760	771	
18		सतना SATNA	0%	100%	0%	0%	0	791	755	774	
19		सिवनी SEONI	0%	100%	0%	0%	0	800	766	784	
20		सीपाट SIPAT	0%	100%	0%	0%	0	784	766	776	
21		सोलापुर SOLAPUR	0%	98%	2%	2%	16	804	754	788	
22		तामनार TAMNAR	0%	100%	0%	0%	0	799	778	788	
23		तिरुवा THIRORA	0%	100%	0%	0%	0	781	741	763	
24		वडोदरा VADODARA	0%	100%	0%	0%	0	800	762	784	
25		विंध्याचल पल्लिन VINDHYACHAL PS	0%	100%	0%	0%	0	784	762	773	
26		वधो WARDHA	0%	100%	0%	0%	0	802	756	783	
27		भुज BHUJ	0%	100%	0%	0%	1	786	721	772	
28		बनसकंठ BANASKANTHA	0%	100%	0%	0%	0	797	762	780	
29		गदरवाड़ा GADARWARA	0%	100%	0%	0%	0	796	771	785	
30		पडघे PADGHE	0%	82%	18%	18%	135	809	765	791	
31		परली PARLI	0%	85%	15%	15%	108	806	762	792	
32	राजनन्दगांव RAJNANDGAON	0%	100%	0%	0%	2	801	776	789		
33	वाराण WARAORA	0%	100%	0%	0%	0	798	764	786		
34	खंडवा KHANDWA	0%	100%	0%	0%	0	780	751	768		
1	दक्षिणी क्षेत्र SR	कुर्नूल KURNOOL	0%	100%	0%	0%	0	800	744	780	
2		नेल्लूर पल्लिन NELLORE PS	0%	100%	0%	0%	0	797	745	776	
3		रायचूर RAICHUR	0%	100%	0%	0%	0	800	747	781	
4		निजामाबाद NIZAMABAD	0%	91%	9%	9%	66	807	752	789	
5		श्रीकाकुलम SRIKAKULAM	0%	90%	10%	10%	78	808	753	789	
6		तिरुवल्लम THIRUVALEM	0%	100%	0%	0%	1	802	741	777	
7		कुड्डापु CUDDAPAH	0%	94%	6%	6%	48	808	751	786	
8		महेश्वरम MAHESWARAM	0%	100%	0%	0%	0	802	745	780	
9		वेमगिरी VEMAGIRI	0%	86%	14%	14%	104	815	757	789	
10		चिल्कलुरिपेट CHILAKALURIPETA	0%	96%	4%	4%	29	811	746	780	
1		पूर्वोत्तर क्षेत्र NER	अज़रा AZARA (400 kV)	0%	100%	0%	0%	0	413	398	407
2			बालिपारा BALIPARA (400 kV)	0%	100%	0%	0%	0	417	393	406
3	बिस्वनाथ चरआले BISWANATH CHARIALI (400 kV)		0%	100%	0%	0%	0	418	393	406	
4	बोंगाईगांव BONGAIGAON (400 kV)		0%	100%	0%	0%	0	418	395	407	
5	बोंगाईगांव टीपीएस BONGAIGAON TPS (400 kV)		0%	100%	0%	0%	2	413	398	410	
6	बंरिहाट BARNIHAT (400 kV)		0%	100%	0%	0%	0	413	398	407	
7	पालाताना PALATANA (400 kV)		0%	100%	0%	0%	0	418	406	412	
8	रंगानादी RANGANADI (400 kV)		0%	100%	0%	0%	0	418	393	406	
9	मिसा MISA (400 kV)		0%	100%	0%	0%	0	418	391	406	
10	सिलचर SILCHAR (400 kV)		0%	100%	0%	0%	0	418	395	407	
11	इम्फाल IMPHAL (400 kV)		0%	99%	1%	1%	8	422	394	408	
12	कामेंग KAMENG (400 kV)		0%	100%	0%	0%	0	419	385	406	

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

