

POWER SYSTEM OPERATION CORPORATION LIMITED
NATIONAL LOAD DESPATCH CENTRE
NEW DELHI

Date: 05-Oct-2020

System Reliability Indices Report for the month of September 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	0	0.00	0.00
3	Import of NR	0	0.00	0.00
4	NEW-SR	1	0.25	0.03
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 SEPTEMBER 2020

Date of reporting:

05-Oct-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-Sep-20	5.35	83.41	11.24	16.59	3:58	49.99
02-Sep-20	13.25	81.11	5.64	18.89	4:32	49.97
03-Sep-20	7.27	83.48	9.25	16.52	3:57	49.99
04-Sep-20	3.22	83.73	13.06	16.27	3:54	50.00
05-Sep-20	1.19	81.63	17.18	18.37	4:24	50.01
06-Sep-20	1.04	79.02	19.94	20.98	5:02	50.02
07-Sep-20	2.21	86.97	10.82	13.03	3:07	50.01
08-Sep-20	14.36	81.22	4.42	18.78	4:30	49.97
09-Sep-20	0.96	87.97	11.06	12.03	2:53	50.00
10-Sep-20	0.80	82.35	16.85	17.65	4:14	50.02
11-Sep-20	0.21	86.54	13.25	13.46	3:13	50.01
12-Sep-20	1.76	84.50	13.74	15.50	3:43	50.01
13-Sep-20	0.35	83.77	15.88	16.23	3:53	50.01
14-Sep-20	4.61	82.41	12.99	17.59	4:13	50.00
15-Sep-20	3.04	86.57	10.38	13.43	3:13	50.00
16-Sep-20	2.23	87.28	10.49	12.72	3:03	50.00
17-Sep-20	0.65	82.63	16.72	17.37	4:10	50.01
18-Sep-20	2.22	83.83	13.95	16.17	3:52	50.01
19-Sep-20	14.16	80.60	5.24	19.40	4:39	49.96
20-Sep-20	3.54	86.18	10.28	13.82	3:19	50.00
21-Sep-20	4.44	82.71	12.85	17.29	4:09	50.00
22-Sep-20	1.71	84.75	13.54	15.25	3:39	50.00
23-Sep-20	3.83	87.19	8.98	12.81	3:04	50.00
24-Sep-20	10.61	84.27	5.12	15.73	3:46	49.98
25-Sep-20	2.84	84.65	12.51	15.35	3:41	50.00
26-Sep-20	4.79	85.03	10.17	14.97	3:35	50.00
27-Sep-20	3.22	86.22	10.57	13.78	3:18	50.00
28-Sep-20	7.60	88.32	4.07	11.68	2:48	49.98
29-Sep-20	4.44	86.13	9.42	13.87	3:19	50.00
30-Sep-20	0.86	82.97	16.17	17.03	4:05	50.01
September 2020	4.23	84.25	11.53	15.75	0.16	50.00

*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	747	778	
2		गया GAYA	0%	100%	0%	0%	0	798	746	772	
3		झारसगढ़ JHARSUGUDA	0%	95%	5%	5%	34	806	776	792	
4		रांची RANCHI	0%	100%	0%	0%	0	790	758	777	
5		सासाराम SASARAM	0%	100%	0%	0%	0	795	739	765	
6		दार्जिलिणी DARLIPALI	0%	100%	0%	0%	0	794	771	784	
1	उत्तरी क्षेत्र NR	आगरा AGRA	0%	100%	0%	0%	0	800	748	775	
2		आगरा (फतेहबाद) AGRA (FATEHABAD)	0%	97%	3%	3%	21	807	762	782	
3		अनूपरा सी ANPARA-C	0%	100%	0%	0%	0	784	755	768	
4		अनूपरा डी ANPARA-D	0%	100%	0%	0%	0	782	736	765	
5		अंता ANTA	0%	100%	0%	0%	0	793	756	775	
6		बलिया BALLIA	0%	100%	0%	0%	0	793	744	769	
7		बारा BARA	0%	100%	0%	0%	0	791	760	772	
8		बिजनौर BIHWANI	0%	100%	0%	0%	2	803	754	777	
9		बरेली BAREILLY	0%	100%	0%	0%	3	804	748	774	
10		फतेहपुर FATEHPUR	0%	100%	0%	0%	0	793	735	765	
11		ग्रेटर नोएडा GREATER NOIDA	0%	99%	1%	1%	4	808	749	777	
12		झुंझिकर JHATIKARA	0%	100%	0%	0%	0	800	748	772	
13		कानपुर जेआइएस KANPUR GIS	0%	100%	0%	0%	0	795	744	772	
14		लखनऊ LUCKNOW	0%	100%	0%	0%	1	802	746	773	
15		लालितपुर LALITPUR	0%	100%	0%	0%	0	791	762	774	
16		मेरठ MEERUT	0%	100%	0%	0%	1	802	747	775	
17		मोना MOGA	0%	100%	0%	0%	0	797	738	770	
18		फासी PHASI	0%	100%	0%	0%	0	800	753	775	
19		वाराणसी VARANASI	0%	100%	0%	0%	0	799	751	776	
20		उन्नाव UNNAO	0%	100%	0%	0%	0	789	741	764	
21		चित्तौड़गढ़ CHITTORGARH	0%	100%	0%	0%	0	801	755	780	
22		अलीगढ़ ALIGARH	0%	100%	0%	0%	0	800	742	771	
23		अजमेर AJMER	0%	100%	0%	0%	0	800	746	777	
24		हापड़ HAPUR	0%	100%	0%	0%	0	800	739	768	
25		मैनपुरी MAINPURI	0%	100%	0%	0%	2	805	760	779	
26		उरई ORAI	0%	100%	0%	0%	0	800	757	779	
27	बीकानेर BIKANER	0%	100%	0%	0%	0	800	744	776		
28	भाइला BHADLA	0%	100%	0%	0%	1	803	735	772		
29	कोटेश्वर KOTESHWAR	0%	100%	0%	0%	2	802	749	772		
1	पश्चिमी क्षेत्र WR	अकोला AKOLA	0%	100%	0%	0%	0	796	758	779	
2		औरंगाबाद AURANGABAD	0%	100%	0%	0%	0	800	749	779	
3		भोपाल (बीडीटीसीएच) BHOPAL (BDTCL)	0%	100%	0%	0%	0	785	753	769	
4		बिलासपुर BILASPUR	0%	100%	0%	0%	0	784	761	775	
5		बीना BINA	0%	100%	0%	0%	0	794	760	778	
6		चापा CHAMPA	0%	99%	1%	1%	5	802	775	789	
7		धर्मजयगढ़ DHARAMJAIGARH	0%	100%	0%	0%	0	791	764	779	
8		धुले (बीडीटीसीएच) DHULE (BDTCL)	0%	100%	0%	0%	0	793	751	774	
9		एकतुनी EKTUNI	0%	100%	0%	0%	0	799	753	780	
10		ग्वालियर GWALIOR	0%	100%	0%	0%	0	798	753	777	
11		इंदौर INDORE	0%	100%	0%	0%	0	781	749	766	
12		जबलपुर JABALPUR	0%	100%	0%	0%	0	800	765	784	
13		कोरडी KORADI	0%	100%	0%	0%	0	779	750	765	
14		पुणे PUNE	0%	100%	0%	0%	0	800	740	779	
15		रायगढ़ पुलिंग RAIGARH POOLING	0%	100%	0%	0%	0	800	777	789	
16		रायपुर पुलिंग RAIPUR POOLING	0%	100%	0%	0%	0	794	767	782	
17		सासन SASAN	0%	100%	0%	0%	0	782	759	769	
18		सतना SATNA	0%	100%	0%	0%	0	791	756	772	
19		सेवनी SEONI	0%	100%	0%	0%	0	796	757	781	
20		सीपट SIPAT	0%	100%	0%	0%	0	784	764	774	
21		सोलापुर SOLAPUR	0%	99%	1%	1%	11	804	758	785	
22		तामनार TAMNAR	0%	100%	0%	0%	0	799	778	789	
23		तिरुवा TIRORA	0%	100%	0%	0%	0	772	747	759	
24		वडोदा VADODARA	0%	100%	0%	0%	0	798	759	781	
25		विंध्याचल पुलिंग VINDHYACHAL PS	0%	100%	0%	0%	0	782	760	771	
26		वर्धा WARDHA	0%	100%	0%	0%	0	800	747	783	
27		भुज BHUJ	0%	100%	0%	0%	0	783	741	769	
28		बनसकला BANASKANTHA	0%	100%	0%	0%	0	792	761	777	
29		गदरवाड़ा GADARWARA	0%	100%	0%	0%	0	799	770	784	
30		पडघे PADGHE	0%	95%	5%	5%	36	806	750	785	
31	परसी PARLI	0%	91%	9%	9%	68	805	765	789		
32	राजनन्दगांव RAJNANDGAON	0%	99%	1%	1%	10	802	775	789		
33	रवरी WARORA	0%	100%	0%	0%	0	799	765	785		
34	खण्डवा KHANDWA	0%	100%	0%	0%	0	778	750	765		
1	दक्षिणी क्षेत्र SR	कर्नूल KURNOOL	0%	100%	0%	0%	0	801	746	778	
2		नेल्लूर पुलिंग NELLORE PS	0%	100%	0%	0%	0	799	744	773	
3		रायचूर RAICHUR	0%	100%	0%	0%	0	800	750	781	
4		निजामाबाद NIZAMABAD	0%	95%	5%	5%	34	808	751	786	
5		श्रीकाकुलम SRIKAKULAM	0%	95%	5%	5%	39	808	753	787	
6		तिरुवलम THIRUVALEM	0%	99%	1%	1%	6	803	738	779	
7		कडपा CUDDAPAH	0%	91%	9%	9%	65	809	747	786	
8		महेश्वरम MAHESWARAM	0%	100%	0%	0%	1	804	745	776	
9		वेमगिरी VEMAGIRI	0%	94%	6%	6%	43	816	745	785	
10		चिन्कलसराई CHILAKALURIPETA	0%	99%	1%	1%	9	807	740	776	
1		पूर्वोत्तर क्षेत्र NER	अजरा AZARA (400 kV)	0%	100%	0%	0%	0	407	395	402
2			बालीपार BALIPARA (400 kV)	0%	100%	0%	0%	0	418	390	406
3	बिस्वनाथ चरिआलि BISWANATH CHARIALI (400 kV)		0%	100%	0%	0%	0	420	392	406	
4	बोंगागाँव BONGAIGAON (400 kV)		0%	100%	0%	0%	0	414	396	407	
5	बोंगागाँव टीसीएच BONGAIGAON TPS (400 kV)		0%	100%	0%	0%	0	418	400	410	
6	बर्निहाट BYRNHAT (400 kV)		0%	100%	0%	0%	0	407	395	402	
7	पालाताना PALATANA (400 kV)		0%	100%	0%	0%	0	418	403	413	
8	रंगानदी RANGANADI (400 kV)		0%	100%	0%	0%	2	422	393	407	
9	मिसा MISA (400 kV)		0%	100%	0%	0%	0	419	387	406	
10	सिलचर SILCHAR (400 kV)		0%	100%	0%	0%	3	417	352	405	
11	इम्फाल IMPHAL (400 kV)		0%	100%	0%	0%	3	422	393	407	
12	कामेंग KAMENG (400 kV)		0%	100%	0%	0%	0	417	390	405	

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

