

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

Date: 04-Sep-2019

**System Reliability Indices Report for the month of August 2019**

**Percentage (%) of times ATC was violated**

S.No.	Corridor	Number of Blocks Violated	Number of Hours Violated	%Violation
1	WR-NR	2	0.50	0.07
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
5	NER Import	21	5.25	0.71

**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	11	2.75	0.37

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 2019

Date of reporting:

04-Sep-19

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-19	12.53	66.90	20.57	33.10	7:56	49.99
02-Aug-19	7.33	79.58	13.09	20.42	4:54	49.99
03-Aug-19	7.42	80.46	12.12	19.54	4:41	49.99
04-Aug-19	8.22	67.59	24.19	32.41	7:46	50.01
05-Aug-19	4.10	73.81	22.09	26.19	6:17	50.01
06-Aug-19	2.03	66.17	31.81	33.83	8:07	50.03
07-Aug-19	3.61	63.98	32.41	36.02	8:38	50.02
08-Aug-19	15.24	60.83	23.92	39.17	9:24	49.99
09-Aug-19	7.75	69.42	22.82	30.58	7:20	50.00
10-Aug-19	14.02	64.28	21.70	35.72	8:34	49.99
11-Aug-19	16.45	71.62	11.93	28.38	6:48	49.98
12-Aug-19	7.27	77.50	15.23	22.50	5:24	49.99
13-Aug-19	3.40	75.59	21.01	24.41	5:51	50.02
14-Aug-19	1.20	73.78	25.01	26.22	6:17	50.02
15-Aug-19	4.12	47.04	48.84	52.96	12:42	50.06
16-Aug-19	4.57	61.81	33.62	38.19	9:10	50.02
17-Aug-19	4.86	80.93	14.21	19.07	4:34	49.99
18-Aug-19	12.28	73.62	14.10	26.38	6:19	49.98
19-Aug-19	12.27	69.11	18.62	30.89	7:24	49.99
20-Aug-19	15.98	77.69	6.33	22.31	5:21	49.97
21-Aug-19	5.90	77.71	16.39	22.29	5:21	50.00
22-Aug-19	3.83	79.42	16.75	20.58	4:56	50.00
23-Aug-19	1.46	81.59	16.96	18.41	4:25	50.01
24-Aug-19	2.99	75.02	21.99	24.98	5:59	50.01
25-Aug-19	4.21	73.95	21.84	26.05	6:15	50.01
26-Aug-19	3.30	80.60	16.10	19.40	4:39	50.01
27-Aug-19	15.90	74.42	9.68	25.58	6:08	49.97
28-Aug-19	7.20	78.17	14.63	21.83	5:14	50.00
29-Aug-19	6.92	76.32	16.76	23.68	5:41	50.00
30-Aug-19	5.54	75.60	18.85	24.40	5:51	50.00
31-Aug-19	3.78	78.45	17.77	21.55	5:10	50.01
<b>August 2019</b>	<b>7.28</b>	<b>72.68</b>	<b>20.04</b>	<b>27.32</b>	<b>0.27</b>	<b>50.00</b>

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

विद्युत विभव रूपरेखा माह -अगस्त 2019

VOLTAGE PROFILE - August 2019

Date of reporting: 04-Sep-19

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	799	768	783
2		गया GAYA	0%	100%	0%	0%	0	791	744	772
3		झारसगुडा JHARSUGUDA	0%	95%	5%	5%	37	805	776	791
4		रांची RANCHI	0%	100%	0%	0%	0	790	761	778
5		सासाराम SASARAM	0%	100%	0%	0%	0	799	735	766
6		दार्जिलिंग DARJILING	0%	100%	0%	0%	0	796	770	783
1	उत्तरी क्षेत्र NR	आगरा AGRA	0%	100%	0%	0%	0	802	745	781
2		आगरा (फतेहबाद) AGRA (FATEHABAD)	0%	92%	8%	8%	58	811	747	785
3		अनपरा सी ANPARA-C	0%	100%	0%	0%	0	794	754	770
4		अनपरा डी ANPARA-D	0%	100%	0%	0%	0	791	751	767
5		अंता ANTA	0%	100%	0%	0%	0	800	762	783
6		बलिया BALLIA	0%	100%	0%	0%	0	799	743	775
7		बारा BARA	0%	100%	0%	0%	0	800	752	776
8		भिखनी BHIWANI	0%	99%	1%	1%	6	805	745	779
9		बरौली BAREILLY	0%	100%	0%	0%	0	760	743	759
10		फतेहपुर FATEHPUR	0%	100%	0%	0%	0	798	728	772
11		ग्रेटर नोएडा GREATER NOIDA	0%	98%	2%	2%	13	806	747	783
12		झाटिका JHATIKARA	0%	100%	0%	0%	1	802	743	775
13		कानपुर जीआइएस KANPUR GIS	0%	100%	0%	0%	0	803	747	777
14		लखनऊ LUCKNOW	0%	100%	0%	0%	2	802	744	777
15		ललितपुर LALITPUR	0%	100%	0%	0%	0	796	748	776
16		मेरठ MERUT	0%	100%	0%	0%	3	805	739	779
17		मोहा MOGA	0%	100%	0%	0%	0	798	742	768
18		फागी PHAGI	0%	100%	0%	0%	2	801	755	783
19		वाराणसी VARANASI	0%	100%	0%	0%	0	801	751	779
20		उन्नाव UNNAO	0%	100%	0%	0%	0	787	738	764
21		चित्तौड़गढ़ CHITTOORGARH	0%	99%	1%	1%	9	805	759	785
22		अलीगढ़ ALIGARH	0%	100%	0%	0%	0	799	743	778
23		अजमेर AJMER	0%	100%	0%	0%	1	803	745	779
24		हापड़ HAPUR	0%	100%	0%	0%	0	799	745	775
25		मैनपुरी MAINPURI	0%	97%	3%	3%	24	806	758	785
26		उरई ORAI	0%	99%	1%	1%	5	804	754	785
1	पश्चिमी क्षेत्र WR	अकोला AKOLA	0%	99%	1%	1%	9	803	766	786
2		औरंगाबाद AURANGABAD	0%	100%	0%	0%	0	803	761	785
3		भोपाल (बीडीटीएस) BHOPAL (BDTCL)	0%	100%	0%	0%	0	789	753	773
4		बिलासपुर BILASPUR	0%	100%	0%	0%	0	790	764	778
5		बीना BINA	0%	100%	0%	0%	0	800	753	782
6		चम्पा CHAMPA	0%	100%	0%	0%	0	800	772	786
7		धर्मपुर धरम जागर DHARAM JAIGARH	0%	100%	0%	0%	0	791	763	777
8		धुले (बीडीटीएस) DHULE (BDTCL)	0%	100%	0%	0%	0	787	739	768
9		एकतुली EKTUNI	0%	97%	3%	3%	22	805	763	786
10		ग्वालियर GWALIOR	0%	100%	0%	0%	1	801	747	782
11		इंदौर INDORE	0%	100%	0%	0%	0	780	745	765
12		जबलपुर JABALPUR	0%	99%	1%	1%	4	804	760	786
13		कोरडी KORADI	0%	100%	0%	0%	0	787	762	774
14		पुणे PUNE	0%	100%	0%	0%	0	800	732	774
15		रायगड पुलिन RAIGARH POOLING	0%	100%	0%	0%	0	799	774	786
16		रायपुर पुलिन RAIPUR POOLING	0%	100%	0%	0%	0	795	765	779
17		सासन SASAN	0%	100%	0%	0%	0	787	757	773
18		सतना SATNA	0%	100%	0%	0%	0	795	752	778
19		शिवनी SEONI	0%	100%	0%	0%	0	799	768	787
20		सिपाई SIPAT	0%	100%	0%	0%	0	789	767	778
21		सोलापुर SOLAPUR	0%	94%	6%	6%	45	805	767	790
22		तामनार TAMNAR	0%	100%	0%	0%	0	798	776	787
23		तिरुवा TIRORA	0%	100%	0%	0%	0	779	758	768
24		वडोदरा VADODARA	0%	100%	0%	0%	0	794	751	777
25		विन्ध्यचल पुलिन VINDHYACHAL PS	0%	100%	0%	0%	0	788	759	774
26		वर्धा WARDHA	0%	100%	0%	0%	3	805	763	786
27		भज BHUJ	0%	100%	0%	0%	0	795	745	773
28		बनसकाठ BANASKANTHA	0%	99%	1%	1%	7	801	762	782
29		गदरवाड़ा GADARWARA	0%	100%	0%	0%	0	800	767	787
30		पड़रघे PADGHE	0%	93%	7%	7%	54	807	758	786
31		परली PARLI	0%	97%	3%	3%	25	806	762	789
32		राजनन्दगांव RAJNANDGAON	0%	99%	1%	1%	4	801	778	789
33	वारा WARDORA	0%	95%	4%	4%	29	805	775	790	
34	कुरुल KURNOL	0%	100%	0%	0%	0	801	749	777	
2	दक्षिणी क्षेत्र SR	नेल्लोर पुलिन NELLORE PS	0%	100%	0%	0%	0	801	721	775
3		रायपुर RAICHUR	0%	100%	0%	0%	1	802	756	782
4		निजामाबाद NIZAMABAD	0%	91%	9%	9%	67	813	755	786
5		श्रीकाकुलम SRIKAKULAM	0%	90%	10%	10%	78	813	755	787
6		तिरुवल्लम THIRUVALLEM	0%	97%	3%	3%	25	804	750	781
7		कुड्डापहा CUDDAPAH	0%	82%	18%	18%	136	813	763	790
8		महेश्वरम MAHESWARAM	0%	98%	2%	2%	14	808	737	776
9		वेमगिरी VEMAGIRI	0%	100%	0%	0%	0	786	752	770
1		पूर्वोत्तर क्षेत्र NER	अजारा AZARA (400 kV)	0%	100%	0%	0%	0	411	399
2	बालिपारा BALIPARA (400 kV)		0%	100%	0%	0%	0	419	391	405
3	बिस्वनाथ चरिआलि BISWANATH CHARIALI (400 kV)		0%	100%	0%	0%	0	421	390	405
4	बोंगागाँव BONGAIGAON (400 kV)		0%	100%	0%	0%	0	413	389	400
5	बोंगागाँव टीपीएस BONGAIGAON TPS (400 kV)		0%	100%	0%	0%	0	420	395	407
6	बर्निहट BYRNHAT (400 kV)		0%	100%	0%	0%	0	411	399	405
7	पालाताना PALATANA (400 kV)		0%	0%	0%	0%	0	419	398	413
8	रांगानादी RANGANADI (400 kV)		0%	94%	6%	6%	44	430	401	413
9	मिसा MISA (400 kV)		0%	100%	0%	0%	0	419	393	407
10	सिलचर SILCHAR (400 kV)		0%	100%	0%	0%	1	418	354	406
11	इम्फाल IMPHAL (400 kV)		0%	100%	0%	0%	4	425	397	407
12	कामेंग KAMENG (400 kV)		0%	100%	0%	0%	0	413	389	402

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



Standard Chart

AGARTALA IMPHAL RANCHI THRISSUR BALLIA BASSI CGPL Mundra RAMAGUNDAM BAWANA JALANDHAR\_BUS1  
KOLDAM\_BUS1 MEERUT\_BUS1 TIRUNELVELI\_UMPET\_PG1 GAJUWAKA FARAKKA JAMSHEDPUR JABALPUR

Voltage 1 Angle FARAKKA

