

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

Date: 04-Jun-2019

System Reliability Indices Report for the month of May 2019

Percentage (%) of times ATC was violated

S.No.	Corridor	Number of Blocks Violated	Number of Hours Violated	%Violation
1	WR-NR	8	2.00	0.27
2	ER-NR	7	1.75	0.24
3	Import of NR	50	12.50	1.68
4	NEW-SR	9	2.25	0.30
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	1	0.25	0.03
2	ER-NR	0	0.00	0.00
3	Import of NR	2	0.50	0.07
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 MAY 2019

Date of reporting:

04-Jun-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-May-19	1.70	56.83	41.47	43.17	10:21	50.04
02-May-19	3.45	67.13	29.42	32.87	7:53	50.02
03-May-19	6.15	65.96	27.89	34.04	8:10	50.01
04-May-19	9.20	76.28	14.51	23.72	5:41	49.99
05-May-19	6.75	74.11	19.14	25.89	6:12	50.00
06-May-19	8.10	80.36	11.54	19.64	4:42	49.99
07-May-19	9.38	80.42	10.21	19.58	4:42	49.98
08-May-19	20.67	71.57	7.75	28.43	6:49	49.96
09-May-19	20.73	67.91	11.37	32.09	7:42	49.96
10-May-19	11.05	65.16	23.78	34.84	8:21	50.00
11-May-19	2.80	75.83	21.37	24.17	5:48	50.01
12-May-19	5.06	74.59	20.35	25.41	6:05	50.00
13-May-19	8.76	67.82	23.41	32.18	7:43	50.00
14-May-19	8.50	78.78	12.72	21.22	5:05	49.99
15-May-19	11.04	75.05	13.91	24.95	5:59	49.99
16-May-19	4.46	82.16	13.38	17.84	4:16	50.00
17-May-19	6.90	73.83	19.27	26.17	6:16	50.00
18-May-19	10.93	68.44	20.64	31.56	7:34	50.00
19-May-19	8.60	76.48	14.92	23.52	5:38	49.99
20-May-19	32.13	64.35	3.52	35.65	8:33	49.93
21-May-19	20.50	66.19	13.31	33.81	8:06	49.97
22-May-19	5.31	77.40	17.29	22.60	5:25	50.00
23-May-19	5.82	74.88	19.29	25.12	6:01	50.01
24-May-19	1.76	74.20	24.04	25.80	6:11	50.02
25-May-19	6.92	65.03	28.04	34.97	8:23	50.01
26-May-19	1.45	74.78	23.77	25.22	6:03	50.02
27-May-19	16.85	75.13	8.02	24.87	5:58	49.97
28-May-19	7.97	75.31	16.71	24.69	5:55	49.99
29-May-19	3.36	77.21	19.43	22.79	5:28	50.01
30-May-19	4.56	64.11	31.33	35.89	8:36	50.02
31-May-19	1.44	69.26	29.31	30.74	7:22	50.03
May 2019						
	8.78	72.15	19.07	27.85	0.28	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.वी.) Maximum(kV)	निम्नतम(कि.वी.) Minimum(kV)	औसत (कि.वी.) Average(kV)
1	पूर्वी क्षेत्र ER	अंगुल ANGUL	0%	100%	0%	0%	0	796	766	782
2		गया GAYA	0%	100%	0%	0%	0	798	729	766
3		झारसुगुडा JHARSUGUDA	0%	86%	14%	0%	104	808	778	795
4		रांची RAUCHI	0%	100%	0%	0%	0	796	762	781
5		सासाराम SASARAM	0%	100%	0%	0%	0	780	735	760
6		दार्जिलिङ DARJILING	0%	100%	0%	0%	0	799	772	787
1	उत्तरी क्षेत्र NR	आगरा AGRA	0%	100%	0%	0%	1	802	757	781
2		आगरा (फतेहबाद) AGRA (FATEHABAD)	0%	97%	3%	3%	23	807	760	785
3		अनूपरा सी ANPARA-C	0%	100%	0%	0%	0	789	753	772
4		अनूपरा डी ANPARA-D	0%	100%	0%	0%	0	786	753	769
5		अंता ANTA	0%	100%	0%	0%	0	788	752	783
6		बलिया BALLIA	0%	100%	0%	0%	0	799	736	774
7		बारा BARA	0%	100%	0%	0%	0	794	763	776
8		भिवानी BHIWANI	0%	97%	3%	3%	22	806	756	783
9		बरेली BAREILLY	0%	100%	0%	0%	0	760	750	759
10		फतेहपुर FATEHPUR	0%	100%	0%	0%	0	791	737	769
11		ग्रेटर नोएडा GREATER NOIDA	0%	98%	2%	2%	11	806	757	783
12		झाड़कंडा JHATIKARA	0%	100%	0%	0%	1	802	750	778
13		कानपुर जीआइएस KANPUR GIS	0%	100%	0%	0%	0	797	750	775
14		लखनऊ LUCKNOW	0%	100%	0%	0%	1	803	745	776
15		ललितपुर LALITPUR	0%	100%	0%	0%	0	793	756	775
16		मेरठ MERUT	0%	98%	2%	2%	12	807	753	781
17		मोहा MOGA	0%	100%	0%	0%	0	797	747	773
18		फागी PHAGI	0%	100%	0%	0%	3	801	745	783
19		वाराणसी VARANASI	0%	100%	0%	0%	0	800	744	776
20		उन्नाव UNNAO	0%	100%	0%	0%	0	783	729	756
21		चित्तौड़गढ़ CHITTOORGARH	0%	100%	0%	0%	3	801	761	781
22		अलीगढ़ ALIGARH	0%	100%	0%	0%	1	802	755	779
23		अजमेर AJMER	0%	99%	1%	1%	4	803	706	774
24		हापड़ HAPUR	0%	100%	0%	0%	1	801	745	773
25		मैनपुरी MAINPURI	0%	99%	1%	1%	8	807	763	784
26		उरई ORAI	0%	99%	1%	1%	10	804	763	786
1	पश्चिमी क्षेत्र WR	अकोला AKOLA	0%	100%	0%	0%	0	787	755	771
2		औरंगाबाद AURANGABAD	0%	100%	0%	0%	0	800	763	784
3		भोपाल (बीडीटीसी) BHOPAL (BDTCL)	0%	100%	0%	0%	0	790	755	774
4		बिलासपुर BILASPUR	0%	100%	0%	0%	0	791	768	779
5		बीना BINA	0%	100%	0%	0%	0	798	766	783
6		चम्पा CHAMPA	0%	90%	10%	10%	76	806	779	795
7		धर्मपुर धरम जागर DHARAM JAIGARH	0%	100%	0%	0%	0	796	767	782
8		धुले (बीडीटीसी) DHULE (BDTCL)	0%	100%	0%	0%	0	781	781	781
9		एकतुली EKTUNI	0%	100%	0%	0%	0	788	750	770
10		ग्वालियर GWALIOR	0%	100%	0%	0%	2	803	760	783
11		इंदौर INDORE	0%	100%	0%	0%	0	789	754	774
12		जबलपुर JABALPUR	0%	99%	1%	1%	7	803	769	787
13		कोरडी KORADI	0%	100%	0%	0%	0	774	752	763
14		पुणे PUNE	0%	100%	0%	0%	0	799	743	776
15		रायगड पल्लिग RAIGARH POOLING	0%	96%	4%	4%	33	805	779	793
16		रायपुर पल्लिग RAIPUR POOLING	0%	100%	0%	0%	0	795	772	783
17		सासन SASAN	0%	100%	0%	0%	0	780	756	771
18		सतना SATNA	0%	100%	0%	0%	0	792	758	776
19		सिलोनी SEONI	0%	100%	0%	0%	0	800	745	786
20		सिपाट SIPAT	0%	100%	0%	0%	0	788	768	778
21		सोलापुर SOLAPUR	0%	90%	10%	10%	73	810	769	792
22		तामनार TAMNAR	0%	96%	4%	4%	29	804	781	794
23		तिरुछा TIROHA	0%	100%	0%	0%	0	769	751	760
24		वडोदरा VADODARA	0%	100%	0%	0%	0	795	759	780
25		विध्याचल पल्लिग VINDHYACHAL PS	0%	100%	0%	0%	0	783	758	773
26		वर्धा WARDHA	0%	100%	0%	0%	4	805	770	787
27		भुज BHUJ	0%	100%	0%	0%	0	793	746	765
28		बनसकांठ BANASKANTHA	0%	100%	0%	0%	0	797	752	775
29		गदरवाड़ा GADARWARA	0%	99%	1%	1%	8	800	775	788
30		पडरुई PADGHE	0%	100%	0%	0%	0	799	763	783
31		परली PARLI	0%	97%	3%	3%	21	805	765	790
32	राजनन्दगांव RAJNANDGAON	0%	90%	10%	10%	72	801	778	792	
33	रवारा RAVARA	0%	88%	13%	13%	93	803	762	795	
1	दक्षिणी क्षेत्र SR	कुर्नूल KURNOOL	0%	100%	0%	0%	0	802	760	778
2		नेल्लोर पल्लिग NELLORE PS	0%	100%	0%	0%	0	796	745	775
3		रायचूर RAICHUR	0%	100%	0%	0%	0	803	715	782
4		निजामाबाद NIZAMABAD	0%	83%	17%	17%	126	814	768	791
5		श्रीकाकुलम SRIKAKULAM	0%	82%	18%	18%	136	814	768	792
6		तिरुवल्लम THIRUVALEM	0%	89%	11%	11%	82	815	747	785
7		कुड्डापहा CUDDAPAH	0%	82%	18%	18%	135	819	753	790
8		महेश्वरम MAHESWARAM	0%	98%	2%	2%	16	807	753	780
9		वेमगिरी VEMAGIRI	0%	100%	0%	0%	0	783	734	764
1	पूर्वोत्तर क्षेत्र NER	अजारा AZARA (400 kV)	0%	100%	0%	0%	0	413	400	406
2		बालिपारा BALIPARA (400 kV)	0%	100%	0%	0%	0	419	386	403
3		बिस्वनाथ चरिआलि BISWANATH CHARIALI (400 kV)	0%	100%	0%	0%	0	419	386	403
4		बोंगागांव BONGAIGAON (400 kV)	0%	100%	0%	0%	0	413	390	400
5		बोंगागांव टीपीएस BONGAIGAON TPS (400 kV)	0%	100%	0%	0%	0	417	396	407
6		बर्निहाट BYRNHAT (400 kV)	0%	100%	0%	0%	0	413	400	406
7		पालाटाना PALATANA (400 kV)	0%	0%	100%	0%	0	421	409	414
8		रानगाडी RANGANADI (400 kV)	0%	0%	89%	11%	83	428	397	412
9		मैसा MISA (400 kV)	0%	100%	0%	0%	1	423	393	406
10		सिलचर SILCHAR (400 kV)	0%	100%	0%	0%	1	418	396	406
11		इम्फाल IMPHAL (400 kV)	0%	100%	0%	0%	0	421	392	407
12		कामेंग KAMENG (400 kV)	0%	100%	0%	0%	0	420	382	401

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

