

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

Date: **03-May-2019**

System Reliability Indices Report for the month of April 2019

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	135	33.75	4.69
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	1	0.25	0.03
5	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 APRIL 2019

Date of reporting:

03-May-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-Apr-19	11.33	69.05	19.62	30.95	7:25	49.99
02-Apr-19	21.46	65.56	12.99	34.44	8:16	49.97
03-Apr-19	19.31	73.44	7.26	26.56	6:22	49.96
04-Apr-19	7.25	78.85	13.90	21.15	5:04	49.99
05-Apr-19	6.76	72.70	20.54	27.30	6:33	50.00
06-Apr-19	1.96	71.02	27.03	28.98	6:57	50.02
07-Apr-19	5.84	63.01	31.15	36.99	8:52	50.02
08-Apr-19	5.31	79.34	15.35	20.66	4:57	50.00
09-Apr-19	6.99	79.73	13.28	20.27	4:51	49.99
10-Apr-19	16.37	74.06	9.57	25.94	6:13	49.97
11-Apr-19	11.03	80.45	8.52	19.55	4:41	49.98
12-Apr-19	13.18	73.62	13.19	26.38	6:19	49.98
13-Apr-19	6.62	77.26	16.12	22.74	5:27	50.00
14-Apr-19	5.51	75.25	19.24	24.75	5:56	50.01
15-Apr-19	1.08	79.19	19.73	20.81	4:59	50.01
16-Apr-19	7.81	63.50	28.69	36.50	8:45	50.01
17-Apr-19	3.24	73.85	22.91	26.15	6:16	50.02
18-Apr-19	3.13	75.86	21.02	24.14	5:47	50.01
19-Apr-19	4.86	78.16	16.98	21.84	5:14	50.00
20-Apr-19	6.55	79.11	14.34	20.89	5:00	49.99
21-Apr-19	6.25	75.78	17.97	24.22	5:48	50.00
22-Apr-19	6.40	78.11	15.49	21.89	5:15	49.99
23-Apr-19	5.23	67.44	27.33	32.56	7:48	50.02
24-Apr-19	10.45	72.28	17.27	27.72	6:39	49.99
25-Apr-19	7.30	78.66	14.04	21.34	5:07	49.99
26-Apr-19	4.03	73.46	22.51	26.54	6:22	50.01
27-Apr-19	10.88	65.34	23.78	34.66	8:19	50.00
28-Apr-19	1.70	66.39	31.91	33.61	8:04	50.03
29-Apr-19	1.37	71.92	26.71	28.08	6:44	50.03
30-Apr-19	0.60	60.95	38.45	39.05	9:22	50.04
April 2019	7.33	73.11	19.56	26.89	0.27	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	अंगल ANGUL	0%	100%	0%	0%	0	799	764	783
2		गया GAYA	0%	100%	0%	0%	0	789	736	766
3		झारसुगुडा JHARSUGUDA	0%	80%	20%	20%	146	810	776	795
4		रांची RAUCHI	0%	100%	0%	0%	0	792	763	780
5		सासाराम SASARAM	0%	100%	0%	0%	0	793	736	756
6		दार्जिलिङ DARJILING	0%	100%	0%	0%	0	798	760	786
1	उत्तरी क्षेत्र NR	आगरा AGRA	0%	100%	0%	0%	0	804	754	783
2		आगरा (फतेहबाद) AGRA (FATEHABAD)	0%	94%	6%	6%	40	811	739	785
3		अनपरा सी ANPARA-C	0%	100%	0%	0%	0	787	751	765
4		अनपरा डी ANPARA-D	0%	100%	0%	0%	0	785	750	763
5		अंता ANTA	0%	100%	0%	0%	0	796	745	784
6		बलिया BALLIA	0%	100%	0%	0%	0	790	740	767
7		बारा BARA	0%	100%	0%	0%	0	800	754	778
8		भिवानी BHIWANI	0%	93%	7%	7%	50	806	758	789
9		बरेली BAREILLY	0%	100%	0%	0%	0	785	746	761
10		फतेहपुर FATEHPUR	0%	100%	0%	0%	0	791	739	764
11		ग्रेटर नोएडा GREATER NOIDA	0%	95%	5%	5%	36	807	754	789
12		झाटिकर JHATIKARA	0%	98%	2%	2%	18	804	752	786
13		कानपुर जीआईएस KANPUR GIS	0%	100%	0%	0%	0	795	745	770
14		लखनऊ LUCKNOW	0%	100%	0%	0%	0	799	742	774
15		ललितपुर LALITPUR	1%	99%	0%	1%	8	807	721	773
16		मेरठ MERUT	0%	96%	4%	4%	30	807	760	788
17		मोहा MOGA	0%	100%	0%	0%	0	799	736	777
18		फागी PHAGI	0%	100%	0%	0%	2	804	757	786
19		वाराणसी VARANASI	0%	100%	0%	0%	0	790	748	773
20		उन्नाव UNNAO	0%	100%	0%	0%	0	787	729	754
21		चित्तौड़गढ़ CHITTOORGARH	0%	98%	2%	2%	15	806	760	783
22		अलीगढ़ ALIGARH	0%	100%	0%	0%	1	801	751	783
23		अजमेर AJMER	0%	100%	0%	0%	1	802	746	779
24		हापड़ HAPUR	0%	100%	0%	0%	0	798	745	780
25		मैनपुरी MAINPURI	0%	98%	2%	2%	13	804	773	784
26		उरई ORAI	0%	99%	1%	1%	8	802	765	788
1	पश्चिमी क्षेत्र WR	अकोला AKOLA	0%	100%	0%	0%	0	784	744	770
2		औरंगाबाद AURANGABAD	0%	100%	0%	0%	0	801	760	781
3		भोपाल (बीडीटीएल) BHOPAL (BDTCL)	0%	100%	0%	0%	0	792	754	773
4		बिलासपुर BILASPUR	0%	100%	0%	0%	0	787	765	778
5		बीना BINA	0%	100%	0%	0%	0	798	768	783
6		चम्पा CHAMPA	0%	94%	6%	6%	43	806	782	796
7		धर्मपुरगढ़ DHARAMJAIGARH	0%	100%	0%	0%	0	795	771	782
8		धुले (बीडीटीएल) DHULE (BDTCL)	0%	100%	0%	0%	0	781	781	781
9		एकतुली EKTULI	0%	100%	0%	0%	0	784	747	768
10		ग्वालियर GWALIOR	0%	100%	0%	0%	0	801	748	785
11		इंदौर INDORE	0%	100%	0%	0%	0	788	755	772
12		जबलपुर JABALPUR	0%	100%	0%	0%	1	803	773	786
13		कोरडी KORADI	0%	100%	0%	0%	0	774	749	761
14		पुणे PUNE	0%	100%	0%	0%	0	800	744	775
15		रायगढ़ पल्लिग RAIGARH POOLING	0%	96%	4%	4%	26	804	778	794
16		रायपुर पल्लिग RAIPUR POOLING	0%	100%	0%	0%	0	794	767	784
17		सासन SASAN	0%	100%	0%	0%	0	785	763	772
18		सतना SATNA	0%	100%	0%	0%	0	792	761	777
19		सिलोनी SEONI	0%	100%	0%	0%	0	793	763	782
20		सिपाट SIPAT	0%	100%	0%	0%	0	784	765	776
21		सोलापुर SOLAPUR	0%	98%	2%	2%	15	807	766	788
22		तामनार TAMNAR	0%	98%	2%	2%	17	804	780	794
23		तिरुछा TIRORA	0%	100%	0%	0%	0	771	750	758
24		वडोदरा VADODARA	0%	100%	0%	0%	0	794	756	778
25		विध्याचल पल्लिग VINDHYACHAL PS	0%	100%	0%	0%	0	786	765	773
26		वर्धा WARDHA	0%	100%	0%	0%	0	803	762	785
27		भुज BHUJ	0%	100%	0%	0%	0	790	747	768
28		बनसकांठा BANASKANTHA	0%	99%	1%	1%	5	806	761	781
29		गदरवाड़ा GADARWARA	0%	100%	0%	0%	0	798	774	785
30		पडरुधे PADGHE	0%	99%	1%	1%	10	807	761	783
31		परली PARLI	0%	100%	0%	0%	2	802	768	786
32		राजनन्दगांव RAJNANDGAON	0%	100%	0%	0%	0	800	772	790
33		वरार WARORA	0%	99%	1%	1%	9	804	775	791
1	दक्षिणी क्षेत्र SR	कुर्नूल KURNOOL	0%	100%	0%	0%	2	802	763	778
2		नेल्लूर पल्लिग NELLORE PS	0%	100%	0%	0%	0	796	749	775
3		रायचूर RAICHUR	0%	100%	0%	0%	2	801	756	779
4		निजामाबाद NIZAMABAD	0%	90%	10%	10%	70	808	728	792
5		श्रीकाकुलम SRIKAKULAM	0%	87%	13%	13%	94	808	765	792
6		तिरुवल्लूर THIRUVALEM	0%	82%	18%	18%	131	820	756	790
7		कुड्डापहा CUDDAPAH	0%	77%	23%	23%	165	817	764	792
8		महेश्वरम MAHESWARAM	0%	100%	0%	0%	2	806	761	785
9		वेमगिरी VEMAGIRI	0%	100%	0%	0%	0	779	747	763
1	पूर्वोत्तर क्षेत्र NER	अज़ारा AZARA (400 kV)	0%	100%	0%	0%	0	413	400	407
2		बालिपारा BALIPARA (400 kV)	0%	100%	0%	0%	0	419	390	406
3		बिस्वनाथ चरिआलि BISWANATH CHARIALI (400 kV)	0%	100%	0%	0%	0	419	373	406
4		बोंगागाँव BONGAIGAON (400 kV)	0%	100%	0%	0%	0	410	391	400
5		बोंगागाँव टीपोरस BONGAIGAON TPS (400 kV)	0%	100%	0%	0%	0	419	393	406
6		बर्नहट BYRNHAT (400 kV)	0%	100%	0%	0%	0	413	400	407
7		पालाताना PALATANA (400 kV)	0%	99%	1%	1%	10	423	394	413
8		रांगानादी RANGANADI (400 kV)	0%	84%	16%	16%	261	429	387	417
9		मिशा MISA (400 kV)	0%	99%	1%	1%	9	423	393	409
10		सिलचर SILCHAR (400 kV)	0%	100%	0%	0%	0	422	385	407
11		इम्फाल IMPHAL (400 kV)	0%	99%	1%	1%	7	421	392	407
12		कामेंग KAMENG (400 kV)	0%	100%	0%	0%	0	422	388	404

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

