

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

Date: 05-May-2020

**System Reliability Indices Report for the month of April 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	2	0.50	0.07
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 APRIL 2020

Date of reporting:

05-May-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-Apr-20	17.12	73.79	9.09	26.21	6:17	49.97
02-Apr-20	2.50	71.57	25.93	28.43	6:49	50.02
03-Apr-20	4.14	75.00	20.86	25.00	6:00	50.01
04-Apr-20	4.99	78.77	16.24	21.23	5:05	50.00
05-Apr-20	4.91	73.18	21.91	26.82	6:26	50.00
06-Apr-20	2.59	76.40	21.01	23.60	5:39	50.01
07-Apr-20	3.41	70.75	25.83	29.25	7:01	50.01
08-Apr-20	5.74	77.85	16.41	22.15	5:19	50.00
09-Apr-20	4.87	77.22	17.91	22.78	5:28	50.01
10-Apr-20	8.14	75.49	16.38	24.51	5:53	50.00
11-Apr-20	5.06	78.48	16.46	21.52	5:09	50.00
12-Apr-20	3.97	78.04	17.99	21.96	5:16	50.01
13-Apr-20	12.33	70.49	17.19	29.51	7:05	49.99
14-Apr-20	4.28	76.85	18.87	23.15	5:33	50.00
15-Apr-20	4.21	74.88	20.90	25.12	6:01	50.01
16-Apr-20	5.82	76.60	17.58	23.40	5:37	50.00
17-Apr-20	4.19	80.49	15.32	19.51	4:41	50.00
18-Apr-20	3.22	79.02	17.77	20.98	5:02	50.01
19-Apr-20	3.07	73.18	23.75	26.82	6:26	50.02
20-Apr-20	1.88	72.40	25.73	27.60	6:37	50.02
21-Apr-20	9.81	71.59	18.60	28.41	6:49	49.99
22-Apr-20	12.87	75.28	11.85	24.72	5:56	49.98
23-Apr-20	4.76	72.37	22.87	27.63	6:37	50.01
24-Apr-20	4.63	75.95	19.42	24.05	5:46	50.01
25-Apr-20	3.58	72.33	24.10	27.67	6:38	50.01
26-Apr-20	3.48	65.30	31.22	34.70	8:19	50.02
27-Apr-20	2.84	71.42	25.74	28.58	6:51	50.02
28-Apr-20	2.41	79.50	18.09	20.50	4:55	50.01
29-Apr-20	0.91	79.43	19.65	20.57	4:56	50.01
30-Apr-20	1.13	80.31	18.55	19.69	4:43	50.01
<b>April 2020</b>	<b>5.10</b>	<b>75.13</b>	<b>19.77</b>	<b>24.87</b>	<b>0.25</b>	<b>50.01</b>

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

क्र.सं. 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	797	746	767	
2		गया GAYA	0%	100%	0%	0%	0	792	745	773	
3		झारसुगढ़ JHARSUGUDA	0%	100%	0%	0%	0	802	765	783	
4		रान्ची RANCHI	0%	100%	0%	0%	0	789	757	776	
5		सासारम SASARAM	0%	100%	0%	0%	0	805	734	763	
6		दार्जिलिनी DARJILPALI	0%	100%	0%	0%	0	789	762	774	
1	उत्तरी क्षेत्र NR	आगरा AGRA	0%	100%	0%	0%	0	797	736	774	
2		आगरा (फतेहबाद) AGRA (FATEHABAD)	0%	100%	0%	0%	1	802	758	772	
3		अनपरा सी ANPORA-C	0%	100%	0%	0%	0	779	741	765	
4		अनपरा डी ANPORA-D	0%	100%	0%	0%	0	779	742	764	
5		अन्ता ANTA	0%	100%	0%	0%	0	800	751	776	
6		बलिया BALLIA	0%	100%	0%	0%	0	793	737	772	
7		बारा BARA	0%	100%	0%	0%	0	791	755	775	
8		बिजौली BHIWANI	0%	100%	0%	0%	0	802	732	773	
9		बरेली BAREILLY	0%	95%	5%	5%	35	810	740	781	
10		फतेहपुर FATEHPUR	0%	100%	0%	0%	3	793	719	760	
11		ग्रेटर नोडा GREATER NOIDA	0%	96%	4%	4%	31	813	743	783	
12		झांसीर JHATIKARA	0%	100%	0%	0%	1	802	735	776	
13		कानपुर जीआरएस KANPUR GIS	0%	100%	0%	0%	0	797	736	773	
14		लखनऊ LUCKNOW	0%	99%	1%	1%	7	807	740	778	
15		ललितपुर LALITPUR	2%	98%	0%	2%	12	781	708	752	
16		मेरठ MEERUT	0%	100%	0%	0%	2	809	726	773	
17		मोगा MOGA	0%	100%	0%	0%	0	801	729	764	
18		फागी PHAGI	0%	100%	0%	0%	0	799	742	774	
19		वाराणसी VARANASI	0%	100%	0%	0%	0	798	744	777	
20		उन्नाव UNNAO	0%	100%	0%	0%	1	785	725	762	
21		चित्तौड़गढ़ CHITTORGARH	0%	100%	0%	0%	1	802	745	773	
22		अलीगढ़ ALIGARH	0%	100%	0%	0%	0	799	739	775	
23		अजमेर AJMER	0%	100%	0%	0%	0	799	740	773	
24		हापड़ HAPUR	0%	100%	0%	0%	3	807	736	776	
25		मैनपुरी MAINPURI	0%	95%	5%	5%	34	808	746	784	
26		उरई ORAI	0%	100%	0%	0%	0	800	750	781	
27		बीकानेर BIKANER	0%	100%	0%	0%	0	799	730	766	
28		भादवा BHADLA	0%	100%	0%	0%	1	803	726	766	
29		कोटेश्वर KOTESHWAR	0%	98%	2%	2%	17	809	710	779	
1	पश्चिमी क्षेत्र WR	अकोला AKOLA	0%	100%	0%	0%	0	797	751	776	
2		औरंगाबाद AURANGABAD	0%	100%	0%	0%	0	800	745	770	
3		भोपाल (बीडीटीसीएस) BHOPAL (BDTCL)	0%	100%	0%	0%	0	793	746	769	
4		बिलासपुर BILASPUR	0%	100%	0%	0%	0	780	756	766	
5		बीना BINA	0%	100%	0%	0%	0	792	747	772	
6		चापा CHAMPA	0%	100%	0%	0%	0	793	766	778	
7		धर्मजगढ़ DHARAMJAGARH	0%	100%	0%	0%	0	793	754	768	
8		धुले (बीडीटीसीएस) DHULE (BDTCL)	0%	100%	0%	0%	0	803	736	771	
9		एकतुनी EKTUNI	0%	100%	0%	0%	0	798	746	775	
10		ग्वालियर GWALIOR	0%	100%	0%	0%	0	800	741	777	
11		इंदौर INDORE	0%	100%	0%	0%	0	791	743	768	
12		जबलपुर JABALPUR	0%	100%	0%	0%	0	792	756	774	
13		कोरडी KORADI	0%	100%	0%	0%	0	784	744	765	
14		पुणे PUNE	0%	100%	0%	0%	0	800	753	780	
15		रायगढ़ पुलिंग RAIGARH POOLING	0%	100%	0%	0%	0	789	765	777	
16		रायपुर पुलिंग RAIPUR POOLING	0%	100%	0%	0%	0	781	752	766	
17		सासन SASAN	0%	100%	0%	0%	0	779	756	767	
18		सतना SATNA	0%	100%	0%	0%	0	788	752	771	
19		सेडनी SEONI	0%	100%	0%	0%	0	791	756	772	
20		सिपाट SIPAT	0%	100%	0%	0%	0	790	758	767	
21		सोलापुर SOLAPUR	0%	100%	0%	0%	1	805	753	777	
22		तमनार TAMNAR	0%	100%	0%	0%	0	790	766	778	
23		तिरुंगा TIROGA	0%	100%	0%	0%	0	775	746	761	
24		वाडोदरा VADODARA	0%	100%	0%	0%	1	802	768	785	
25		विन्ध्याचल पुलिंग VINHYACHAL PS	0%	100%	0%	0%	0	782	756	769	
26		वर्धा WARDHA	0%	100%	0%	0%	0	792	749	770	
27		भुज BHUJ	0%	100%	0%	0%	2	781	705	765	
28		बनसकंठा BANASKANTHA	0%	100%	0%	0%	0	796	748	773	
29		गदारवारा GADARWARA	0%	100%	0%	0%	0	788	761	773	
30		पाड़गे PADGHE	0%	100%	0%	0%	0	799	749	777	
31		पार्ली PARLI	0%	100%	0%	0%	0	798	759	778	
32		राजनन्दगांव RAJNANDGAON	0%	100%	0%	0%	0	789	765	777	
33		वरौर WARORA	0%	100%	0%	0%	0	786	754	770	
34		खजना KHANDWA	0%	100%	0%	0%	0	790	751	768	
1	दक्षिणी क्षेत्र SR	कूर्नूल KURNOOL	0%	100%	0%	0%	0	797	736	770	
2		नेल्लूर पुलिंग NELLORE PS	0%	100%	0%	0%	0	790	737	766	
3		रायचूर RAICHUR	0%	100%	0%	0%	0	796	741	771	
4		निजामाबाद NIZAMABAD	0%	98%	0%	2%	14	812	742	783	
5		श्रीकाकुलम SRIKAKULAM	0%	97%	3%	3%	19	811	743	784	
6		तिरुवल्लम THIRUVALEM	0%	100%	0%	0%	1	804	731	768	
7		कडुपा CUDDAPAH	0%	100%	0%	0%	3	808	740	777	
8		महेश्वरम MAHESWARAM	0%	99%	1%	1%	7	806	727	777	
9		वेमगिरी VEMAGIRI	0%	99%	1%	1%	6	809	755	782	
10		चिन्कलुरिपेट CHILAKALURIPETA	0%	100%	0%	0%	1	804	748	778	
1		पूर्वोत्तरी क्षेत्र NER	अजारा AZARA (400 kV)	0%	100%	0%	0%	0	415	402	410
2			बालिसारा BALIPARA (400 kV)	0%	100%	0%	0%	1	426	385	407
3	बिस्वनाथ चरियालि BISWANATH CHARIALI (400 kV)		0%	100%	0%	0%	0	424	383	405	
4	बोंगागाँव BONGAIGAON (400 kV)		0%	100%	0%	0%	0	417	393	407	
5	बोंगागाँव टीपीएस BONGAIGAON TPS (400 kV)		0%	100%	0%	0%	0	418	394	409	
6	ब्रिन्हट BYRNHAT (400 kV)		0%	100%	0%	0%	0	415	402	410	
7	पालाताना PALATANANA (400 kV)		0%	100%	0%	0%	0	420	405	413	
8	रंगानदी RANGANADI (400 kV)		0%	86%	14%	14%	102	429	393	414	
9	मिसा MISA (400 kV)		0%	100%	0%	0%	2	426	388	409	
10	सिलचर SILCHAR (400 kV)		2%	98%	0%	2%	14	422	354	409	
11	इम्फाल IMPHAL (400 kV)		0%	97%	3%	3%	20	424	399	412	
12	कामेंग KAMENG (400 kV)		0%	100%	0%	0%	1	428	383	406	

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

- ER1PGKISHN\_PG004
- ER2NTFARAK\_PG005
- ER2PGTALCH\_PG005
- ER2PGALIPU\_PG003
- SR1PGGJWKA\_PG102
- AGRA\_BUS1
- 400KV KALWA
- NTPC-VINDHYACHAL
- SLPR4
- HISAR\_BUS1
- IMPHAL
- MPPTCI BTNA
- BVT
- CGPI Mundra
- BONGATGAON

Voltage 1 Angle ▾ NTPC-VINDHYACHAL ▾

