

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

Date: 05-Jun-2020

System Reliability Indices Report for the month of May 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	63	15.75	2.12
3	Import of NR	0	0.00	0.00
4	NEW-SR	4	1.00	0.13
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	18	4.50	0.60
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 MAY 2020

Date of reporting:

05-Jun-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-May-20	2.20	73.17	24.63	26.83	6:26	50.01
02-May-20	0.65	78.74	20.61	21.26	5:06	50.01
03-May-20	6.35	76.56	17.08	23.44	5:37	50.00
04-May-20	9.63	75.45	14.92	24.55	5:53	49.99
05-May-20	7.11	77.87	15.02	22.13	5:18	50.00
06-May-20	1.82	74.61	23.58	25.39	6:05	50.02
07-May-20	3.82	79.80	16.38	20.20	4:50	50.01
08-May-20	5.63	84.92	9.46	15.08	3:37	49.99
09-May-20	11.45	79.62	8.94	20.38	4:53	49.98
10-May-20	2.66	65.75	31.59	34.25	8:13	50.03
11-May-20	3.30	72.35	24.35	27.65	6:38	50.01
12-May-20	6.83	75.42	17.75	24.58	5:54	50.00
13-May-20	1.49	80.06	18.45	19.94	4:47	50.01
14-May-20	1.62	74.84	23.54	25.16	6:02	50.02
15-May-20	4.61	77.71	17.69	22.29	5:21	50.00
16-May-20	1.50	82.49	16.01	17.51	4:12	50.01
17-May-20	2.04	75.53	22.43	24.47	5:52	50.02
18-May-20	4.36	80.37	15.27	19.63	4:42	50.00
19-May-20	1.83	75.54	22.63	24.46	5:52	50.01
20-May-20	3.59	84.68	11.74	15.32	3:40	50.00
21-May-20	1.09	62.66	36.25	37.34	8:57	50.03
22-May-20	8.66	77.99	13.36	22.01	5:17	49.99
23-May-20	5.10	85.57	9.33	14.43	3:27	49.99
24-May-20	1.74	86.83	11.44	13.17	3:09	50.00
25-May-20	6.49	81.57	11.93	18.43	4:25	49.99
26-May-20	6.08	72.85	21.08	27.15	6:31	50.01
27-May-20	1.64	66.57	31.78	33.43	8:01	50.03
28-May-20	1.10	64.98	33.92	35.02	8:24	50.04
29-May-20	7.19	73.48	19.33	26.52	6:21	50.00
30-May-20	6.26	83.72	10.02	16.28	3:54	49.99
31-May-20	3.18	75.31	21.50	24.69	5:55	50.01
May 2020	4.23	76.68	19.10	23.32	0.23	50.01

*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	797	748	772	
2		गया GAYA	0%	100%	0%	0%	0	793	751	772	
3		झारसगढ़ा JHARSUGUDA	0%	98%	2%	2%	14	807	777	791	
4		रानी RANCHI	0%	100%	0%	0%	0	795	758	780	
5		सासाराम SASARAM	0%	100%	0%	0%	0	798	737	761	
6		दालिपली DARLIPALI	0%	100%	0%	0%	0	796	772	782	
1	उत्तरी क्षेत्र NR	आगरा AGRA	0%	100%	0%	0%	1	805	743	777	
2		आगरा (फतेहबाद) AGRA (FATEHABAD)	0%	99%	1%	1%	8	808	726	774	
3		अनूपरा सी ANPARA-C	0%	100%	0%	0%	0	782	755	766	
4		अनूपरा डी ANPARA-D	0%	100%	0%	0%	0	782	753	765	
5		अंता ANTA	0%	100%	0%	0%	0	798	753	772	
6		बलिया BALLIA	0%	100%	0%	0%	0	795	748	779	
7		बारा BARA	0%	100%	0%	0%	0	795	755	776	
8		बिजौली BHIWANI	0%	99%	1%	1%	9	814	746	781	
9		बरेली BAREILLY	0%	98%	2%	2%	17	808	745	780	
10		फतेहपुर FATEHPUR	0%	100%	0%	0%	0	800	733	765	
11		ग्रेटर नोएडा GREATER NOIDA	0%	95%	5%	5%	39	812	752	785	
12		झुंझिकर JHATIKARA	0%	100%	0%	0%	2	809	744	778	
13		कानपुर जंक्शन KANPUR GIS	0%	100%	0%	0%	0	795	750	775	
14		लखनऊ LUCKNOW	0%	99%	1%	1%	4	802	745	778	
15		लालिपुर LALITPUR	0%	100%	0%	0%	0	797	734	770	
16		मेरठ MEERUT	0%	98%	2%	2%	12	808	743	781	
17		मोना MOGA	0%	100%	0%	0%	0	802	739	774	
18		पानी PHAGI	0%	99%	1%	1%	4	808	742	777	
19		वाराणसी VARANASI	0%	100%	0%	0%	0	799	752	778	
20		उन्नाव UNNAO	0%	100%	0%	0%	0	792	734	763	
21		चित्तौड़गढ़ CHITTORGARH	0%	99%	1%	1%	6	803	752	781	
22		अलीगढ़ ALIGARH	0%	100%	0%	0%	0	804	744	777	
23		अजमेर AJMER	0%	100%	0%	0%	4	805	746	778	
24		हापड़ HAPUR	0%	100%	0%	0%	2	802	742	776	
25		मैनपुरी MAINPURI	0%	92%	8%	8%	57	809	754	785	
26		उरई ORAI	0%	99%	1%	1%	8	809	756	782	
27	बीकानेर BIKANER	0%	100%	0%	0%	1	801	732	769		
28	भाइला BHADLA	0%	100%	0%	0%	1	802	728	769		
29	कोटेश्वर KOTESHWAR	0%	98%	2%	2%	18	808	754	783		
1	पश्चिमी क्षेत्र WR	अकोला AKOLA	0%	100%	0%	0%	0	796	742	775	
2		औरंगाबाद AURANGABAD	0%	100%	0%	0%	0	801	750	776	
3		भोपाल (बीडीटीसीएच) BHOPAL (BDTCL)	0%	100%	0%	0%	0	793	749	771	
4		बिलासपुर BILASPUR	0%	100%	0%	0%	0	761	761	773	
5		बीना BINA	0%	100%	0%	0%	1	802	753	776	
6		चापा CHAMPA	0%	100%	0%	0%	2	804	773	787	
7		धर्मजयगढ़ DHARAMJAIGARH	0%	100%	0%	0%	0	792	764	777	
8		धुले (बीडीटीसीएच) DHULE (BDTCL)	0%	100%	0%	0%	1	802	751	774	
9		एकतुनी EKTUNI	0%	100%	0%	0%	0	797	746	775	
10		ग्वालियर GWALIOR	0%	100%	0%	0%	2	806	749	779	
11		इंदौर INDORE	0%	100%	0%	0%	0	792	748	770	
12		जबलपुर JABALPUR	0%	100%	0%	0%	2	806	758	780	
13		कोरडी KORADI	0%	100%	0%	0%	0	784	747	765	
14		पुणे PUNE	0%	100%	0%	0%	0	800	754	784	
15		रायगढ़ पुलिंग RAIGARH POOLING	0%	100%	0%	0%	0	799	773	785	
16		रायपुर पुलिंग RAIPUR POOLING	0%	100%	0%	0%	0	797	760	779	
17		सासन SASAN	0%	100%	0%	0%	0	789	746	769	
18		सतना SATNA	0%	100%	0%	0%	0	795	751	772	
19		सेवनी SEONI	0%	100%	0%	0%	0	801	759	779	
20		सीपत SIPAT	0%	100%	0%	0%	0	789	762	774	
21		सोलापुर SOLAPUR	0%	99%	1%	1%	9	807	757	783	
22		तामनार TAMNAR	0%	100%	0%	0%	0	798	774	785	
23		तिरुठा TIRORA	0%	100%	0%	0%	0	776	750	761	
24		वडोदा VADODARA	0%	100%	0%	0%	1	802	761	783	
25		विंध्याचल पुलिंग VINHYACHAL PS	0%	100%	0%	0%	0	788	754	771	
26		वर्धा WARDHA	0%	99%	1%	1%	4	806	756	780	
27		भुज BHUJ	0%	100%	0%	0%	0	786	753	768	
28		बनसकला BANASKANTHA	0%	100%	0%	0%	0	793	757	778	
29		गदरवाड़ा GADARWARA	0%	100%	0%	0%	2	804	757	780	
30		पड़घे PADGHE	0%	98%	2%	2%	15	803	766	786	
31	परली PARLI	0%	99%	1%	1%	6	805	758	782		
32	राजनन्दगांव RAJNANDGAON	0%	99%	1%	1%	11	803	772	787		
33	रवरी WARORA	0%	100%	0%	0%	0	799	755	777		
34	खण्डवा KHANDWA	0%	100%	0%	0%	0	790	751	771		
1	दक्षिणी क्षेत्र SR	कूर्नूल KURNOOL	0%	100%	0%	0%	2	804	746	775	
2		नेल्लूर पुलिंग NELLORE PS	0%	100%	0%	0%	2	803	749	775	
3		रायचूर RAICHUR	0%	100%	0%	0%	2	804	752	776	
4		निजामाबाद NIZAMABAD	0%	92%	8%	8%	60	813	762	789	
5		श्रीकाकुलम SRIKAKULAM	0%	92%	8%	8%	63	813	764	789	
6		तिरुवलम THIRUVALEM	0%	100%	0%	0%	3	809	737	775	
7		कडुपा CUDDAPAH	0%	91%	9%	9%	67	814	750	781	
8		महेश्वरम MAHESWARAM	0%	100%	0%	0%	3	805	751	780	
9		वेमगिरी VEMAGIRI	0%	96%	4%	4%	30	812	749	783	
10		चिल्कल्लूरु CHILKALURIPETA	0%	95%	5%	5%	37	815	747	779	
1		पूर्वोत्तर क्षेत्र NER	अजरा AZARA (400 kV)	0%	100%	0%	0%	0	415	402	410
2			बालीपारा BALIPARA (400 kV)	0%	100%	0%	0%	1	426	385	407
3	बिसुवनाथ 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	बर्निहाट BYRNihat (400 kV)		0%	100%	0%	0%	0	415	402	410	
7	पालाताना PALATANA (400 kV)		0%	100%	0%	0%	0	420	405	413	
8	रंगानदी RANGANADI (400 kV)		0%	86%	14%	14%	105	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%	99%	1%	1%	4	423	398	410	
12	कामेंग KAMENG (400 kV)		0%	100%	0%	0%	0	424	391	406	

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

