

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

Date: **05-Oct-2021**

System Reliability Indices Report for the month of September 2021

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	19	4.75	0.66
3	Import of NR	0	0.00	0.00
4	NEW-SR	0	0.00	0.00
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 SEPTEMBER 2021

Date of reporting:

05-Oct-21

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-Sep-21	1.32	81.31	17.37	18.69	4:29	50.01
02-Sep-21	11.18	77.09	11.72	22.91	5:29	49.98
03-Sep-21	0.38	73.51	26.11	26.49	6:21	50.02
04-Sep-21	0.59	78.13	21.28	21.88	5:15	50.02
05-Sep-21	3.72	78.51	17.78	21.49	5:09	50.01
06-Sep-21	2.26	85.16	12.58	14.84	3:33	50.00
07-Sep-21	6.39	81.35	12.26	18.65	4:28	50.00
08-Sep-21	6.13	82.48	11.39	17.52	4:12	49.99
09-Sep-21	6.81	81.03	12.16	18.97	4:33	50.00
10-Sep-21	1.82	75.35	22.84	24.65	5:55	50.02
11-Sep-21	3.45	75.43	21.12	24.57	5:53	50.01
12-Sep-21	2.95	78.09	18.96	21.91	5:15	50.01
13-Sep-21	3.48	81.90	14.62	18.10	4:20	50.00
14-Sep-21	7.93	80.02	12.05	19.98	4:47	49.99
15-Sep-21	12.60	76.22	11.18	23.78	5:42	49.98
16-Sep-21	5.12	80.97	13.91	19.03	4:34	50.00
17-Sep-21	5.63	78.73	15.65	21.27	5:06	50.00
18-Sep-21	5.91	76.97	17.12	23.03	5:31	50.00
19-Sep-21	4.21	81.67	14.12	18.33	4:24	50.01
20-Sep-21	3.19	75.34	21.47	24.66	5:55	50.02
21-Sep-21	0.05	59.35	40.60	40.65	9:45	50.04
22-Sep-21	1.62	78.78	19.59	21.22	5:05	50.02
23-Sep-21	2.09	69.04	28.87	30.96	7:25	50.02
24-Sep-21	10.23	78.22	11.55	21.78	5:13	49.98
25-Sep-21	0.39	72.53	27.07	27.47	6:35	50.03
26-Sep-21	0.31	81.66	18.03	18.34	4:24	50.02
27-Sep-21	0.93	70.46	28.61	29.54	7:05	50.03
28-Sep-21	0.28	81.79	17.93	18.21	4:22	50.01
29-Sep-21	3.03	76.93	20.03	23.07	5:32	50.01
30-Sep-21	10.52	73.73	15.75	26.27	6:18	49.99
September 2021	4.15	77.39	18.46	22.61	162:47	50.01

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

विद्युत विभव रूपरेखा माह - सितंबर 2021

VOLTAGE PROFILE - September 2021

Date of reporting: 05-Oct-21

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	अंगुल ANGUL	0%	100%	0%	0%	0	795	752	777
2		दालिपली DARLIPALI	0%	100%	0%	0%	0	789	761	778
3		गया GAYA	0%	100%	0%	0%	0	786	753	769
4		झारसुगडा JHARSUGUDA	0%	100%	0%	0%	1	801	773	789
5		मिदनापुर MEDINIPUR	0%	100%	0%	0%	0	794	746	768
6		रांची RANCHI	0%	100%	0%	0%	0	795	760	781
7		सासाराम SASARAM	0%	100%	0%	0%	0	785	732	766
1	उत्तरी क्षेत्र NR	आगरा AGRA	0%	100%	0%	0%	0	800	749	781
2		आगरा (फतेहाबाद) AGRA (FATEHABAD)	0%	100%	0%	0%	0	798	750	777
3		अजमेर AJMER	0%	98%	2%	2%	11	806	756	786
4		अलीगढ़ ALIGARH	0%	100%	0%	0%	0	797	747	777
5		अनूपरा सी ANPARA-C	0%	100%	0%	0%	0	774	751	761
6		अनूपरा डी ANPARA-D	0%	100%	0%	0%	0	777	753	763
7		अंता ANTA	0%	99%	1%	1%	6	804	770	788
8		बलिया BALLIA	0%	100%	0%	0%	0	790	746	769
9		बारा BARA	0%	100%	0%	0%	0	789	758	773
10		भादवा BHADLA	0%	100%	0%	0%	0	805	733	769
11		भिवानी BHIWANI	0%	100%	0%	0%	0	796	751	778
12		बीकानेर BIKANER	0%	100%	0%	0%	2	812	739	771
13		बरेली BAREILLY	0%	100%	0%	0%	0	801	752	777
14		चित्तौड़गढ़ CHITTORGARH	0%	100%	0%	0%	1	805	755	782
15		फतेहपुर FATEHPUR	0%	100%	0%	0%	0	792	737	765
16		ग्रेटर नोएडा GREATER NOIDA	0%	100%	0%	0%	3	804	753	781
17		हापुड HAPUR	0%	100%	0%	0%	0	803	751	779
18		जवाहरपुर JAWAHARPUR	0%	0%	0%	0%	0	0	0	0
19		झटिकरा JHATIKARA	0%	100%	0%	0%	0	795	751	777
20		कानपुर जीआइएस KANPUR GIS	0%	100%	0%	0%	0	790	748	771
21		कोटेश्वर KOTESHWAR	0%	100%	0%	0%	0	797	746	772
22		लालितपुर LALITPUR	0%	100%	0%	0%	0	783	754	771
23		लखनऊ LUCKNOW	0%	100%	0%	0%	0	796	746	771
24		मैनपुरी MAINPURI	0%	100%	0%	0%	1	803	754	781
25		मेरठ MEERUT	0%	100%	0%	0%	1	801	751	778
26		मोहा MOGA	0%	100%	0%	0%	0	793	744	773
27		ओबरा सी OBRA C	0%	0%	0%	0%	0	0	0	0
28		उरई ORAI	0%	99%	1%	1%	4	803	760	786
29		फागी PHAGI	0%	100%	0%	0%	1	801	758	785
30		उन्नाव UNNAO	0%	100%	0%	0%	0	784	737	761
31		वाराणसी VARANASI	0%	100%	0%	0%	0	792	758	775
1	पश्चिमी क्षेत्र WR	अकोला AKOLA	0%	100%	0%	0%	0	793	759	777
2		औरंगाबाद AURANGABAD	0%	100%	0%	0%	0	796	750	777
3		भोपाल (बीक्रीटीसीएच) BHOPAL (BDTCL)	0%	100%	0%	0%	0	795	753	773
4		भुज BHUJ	0%	100%	0%	0%	1	806	746	775
5		बिलासपुर BILASPUR	0%	100%	0%	0%	0	789	764	778
6		बीना BINA	0%	100%	0%	0%	0	799	762	785
7		बनसकण्ठ BANASKANTHA	0%	99%	1%	1%	8	816	766	787
8		चापा CHAMPA	0%	75%	25%	25%	177	813	779	795
9		धुले (बीक्रीटीसीएच) DHULE (BDTCL)	0%	100%	0%	0%	0	801	750	772
10		धर्मजयगढ़ DHARAMJAGARH	0%	100%	0%	0%	0	789	760	776
11		रायपुर प्रसिंग RAIPUR POOLING	0%	100%	0%	0%	0	793	768	784
12		एकतुनी EKTUNI	0%	100%	0%	0%	0	798	758	778
13		गदचरोडा GADCHRODA	0%	100%	0%	0%	0	798	770	787
14		ग्वालियर GWALIYAR	0%	100%	0%	0%	1	803	758	785
15		इंदूर INDORE	0%	100%	0%	0%	0	794	752	773
16		जबलपुर JABALPUR	0%	100%	0%	0%	0	801	767	787
17		खडवा KHANDWA	0%	100%	0%	0%	0	797	751	774
18		कोरडी KORADI	0%	100%	0%	0%	0	779	750	767
19		रायगढ़ प्रसिंग RAIGARH POOLING	0%	99%	1%	1%	7	803	778	791
20		पडघे PADGHE	0%	100%	0%	0%	1	804	752	778
21		परली PARLI	0%	91%	9%	9%	62	807	763	791
22		पुणे PUNE	0%	98%	0%	0%	0	800	755	784
23		राजनन्दाव राजनान्दाव RAJNANDGAON	0%	98%	2%	2%	12	804	770	792
24		सासन SASAN	0%	100%	0%	0%	0	790	767	779
25		सतना SATNA	0%	100%	0%	0%	0	800	766	785
26		सेवनी SEONI	0%	100%	0%	0%	0	796	760	782
27		सीपट SIPAT	0%	100%	0%	0%	0	790	767	779
28		सोलापुर SOLAPUR	0%	97%	3%	3%	20	807	738	788
29		तिरुठा TIRUTHA	0%	100%	0%	0%	0	775	750	765
30		तामना TANNAR	0%	99%	1%	1%	6	803	779	792
31		वडोदरा VADODARA	0%	100%	0%	0%	0	795	752	774
32		विन्ध्यखल प्रसिंग VINDHYACHAL PS	0%	100%	0%	0%	0	792	769	782
33		वर्धा WARDHA	0%	99%	1%	1%	4	802	751	785
34		वरोरा WARORA	0%	100%	0%	0%	2	807	760	788
1	दक्षिणी क्षेत्र SR	कडपा CUDDAPAH	0%	94%	6%	6%	42	810	753	784
2		चिल्कलुरिपेट CHILKALURIPETA	0%	97%	3%	3%	20	812	743	775
3		कर्नूल KURNOOL	0%	100%	0%	0%	0	801	743	774
4		महेश्वरम MAHESWARAM	0%	100%	0%	0%	0	802	749	776
5		निजामाबाद NIZAMABAD	0%	92%	8%	8%	61	809	756	789
6		नेल्लूर प्रसिंग NELLORE PS	0%	100%	0%	0%	0	796	749	775
7		रायचूर RAICHUR	0%	99%	1%	1%	4	806	752	780
8		श्रीकाकुलम SRIKAKULAM	0%	97%	3%	3%	24	807	754	784
9		तिरुवल्लम THIRUVALLEM	0%	99%	1%	1%	4	802	744	776
10		वेमगिरी VEMAGIRI	0%	90%	10%	10%	69	813	752	785
1	पूर्वोत्तरी क्षेत्र NER	बालिपारा BALIPARA (400 kV)	0%	0%	0%	0%	0	0	0	0
2		बिस्वनाथ चरिआलि BISWANATH CHARIALI (400 kV)	0%	100%	0%	0%	0	416	392	405
3		बोंगाईगाव BONGAIGAOON (400 kV)	0%	100%	0%	0%	0	414	398	407
4		बोंगाईगाव ट्रांसफॉर्मर BONGAIGAOON TPS (400 kV)	0%	100%	0%	0%	0	418	402	411
5		इम्फाल IMPHAL (400 kV)	0%	100%	0%	0%	0	418	393	407
6		बय्रिहाट BYRRIHAT (400 kV)	0%	0%	0%	0%	0	0	0	0
7		कामेंग KAMENG (400 kV)	0%	100%	0%	0%	0	412	388	403
8		अजरा AZARA (400 kV)	0%	100%	0%	0%	0	411	401	406
9		मौला MISA (400 kV)	0%	100%	0%	0%	0	415	392	405
10		न्यू मरिचानी NEW MARIANI (400 kV)	0%	100%	0%	0%	0	419	391	405
11		न्यू कोहिमा NEW KOHIMA (400 kV)	0%	100%	0%	0%	0	419	391	405
12		पालाताना PALATANA (400 kV)	0%	100%	0%	0%	0	411	399	406
13		पुबुचनवारी PK BARI (400 kV)	0%	100%	0%	0%	0	411	394	404
14		रंगानदी RANGANADI (400 kV)	0%	0%	0%	0%	0	0	0	0
15		सिलचर SILCHAR (400 kV)	2%	98%	0%	2%	12	417	357	407
16		सुबानसिरी SUBANSIRI (400 kV)	0%	0%	0%	0%	0	0	0	0
17		सुन्चयामनिगर SURJYAMANINAGAR (400 kV)	0%	100%	0%	0%	0	408	390	401

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

Angular spread Sep-2021 w.r.to Vindhyachal

- AGRA_PG ALIPU_PG BACHU_PG BALIP_PG BONGA_PG CHDPR_MH DURGA_WB
- FARAK_PG KALW4_MH KISNP_PG KOLAR_PG KOTA_PG KZKDE_PG MOGA_PG
- PATNA_PG SILCR_PG TALCH_PG TCHRN_PG UNNAO_UP VINDP_PG

