

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

Date: 04-Jun-2021

**System Reliability Indices Report for the month of May 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	113	28.25	3.80
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	85	21.25	2.86
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 2021

Date of reporting:

04-Jun-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-May-21	8.68	73.32	18.00	26.68	6:24	49.99
02-May-21	3.11	70.72	26.17	29.28	7:01	50.02
03-May-21	4.78	75.36	19.86	24.64	5:54	50.01
04-May-21	5.27	71.57	23.16	28.43	6:49	50.01
05-May-21	4.17	72.66	23.17	27.34	6:33	50.01
06-May-21	6.31	75.69	18.00	24.31	5:50	50.00
07-May-21	7.25	80.30	12.45	19.70	4:43	49.99
08-May-21	8.94	80.49	10.58	19.51	4:41	49.99
09-May-21	1.22	82.38	16.40	17.62	4:13	50.01
10-May-21	7.42	76.41	16.17	23.59	5:39	50.00
11-May-21	4.29	79.34	16.37	20.66	4:57	50.00
12-May-21	4.56	65.71	29.73	34.29	8:13	50.02
13-May-21	5.97	76.69	17.34	23.31	5:35	50.00
14-May-21	13.84	70.44	15.72	29.56	7:05	49.99
15-May-21	6.17	75.31	18.52	24.69	5:55	50.00
16-May-21	5.98	73.30	20.72	26.70	6:24	50.01
17-May-21	6.75	74.69	18.56	25.31	6:04	50.00
18-May-21	5.97	72.28	21.75	27.72	6:39	50.00
19-May-21	10.30	74.71	14.99	25.29	6:04	49.99
20-May-21	5.19	67.19	27.63	32.81	7:52	50.01
21-May-21	6.85	67.45	25.69	32.55	7:48	50.01
22-May-21	9.73	76.57	13.69	23.43	5:37	49.99
23-May-21	8.50	75.27	16.24	24.73	5:56	50.00
24-May-21	8.54	78.25	13.21	21.75	5:13	49.99
25-May-21	13.56	76.04	10.39	23.96	5:45	49.98
26-May-21	5.98	78.56	15.45	21.44	5:08	50.00
27-May-21	3.21	76.54	20.25	23.46	5:37	50.02
28-May-21	15.39	70.35	14.26	29.65	7:07	49.97
29-May-21	3.37	73.53	23.10	26.47	6:21	50.01
30-May-21	3.88	69.88	26.24	30.12	7:13	50.02
31-May-21	0.32	78.24	21.44	21.76	5:13	50.02
<b>May 2021</b>	<b>6.63</b>	<b>74.49</b>	<b>18.88</b>	<b>25.51</b>	<b>189:46</b>	<b>50.00</b>

\*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	797	749	775
2		दालिपली DARPALALI	0%	100%	0%	0%	0	792	768	781
3		गया GAYA	0%	100%	0%	0%	0	786	747	767
4		झारसुगडा JHARSUGUDA	0%	95%	5%	5%	38	804	775	791
5		मिदनापुर MEDINIPUR	0%	100%	0%	0%	0	784	743	763
6		रांची RANCHI	0%	100%	0%	0%	0	803	763	780
7		सासाराम SASARAM	0%	100%	0%	0%	0	792	739	759
1	उत्तरी क्षेत्र NR	आगरा AGRA	0%	100%	0%	0%	0	800	751	777
2		आगरा (फतेहाबाद) AGRA (FATEHABAD)	0%	100%	0%	0%	3	808	748	777
3		अजमेर AJMER	0%	99%	1%	1%	11	807	748	782
4		अलीगढ़ ALIGARH	0%	100%	0%	0%	0	801	745	777
5		अनपरा सी ANPARA-C	0%	100%	0%	0%	0	775	751	762
6		अनपरा डी ANPARA-D	0%	100%	0%	0%	0	778	750	764
7		अंता ANTA	0%	100%	0%	0%	0	795	764	779
8		बलिया BALLIA	0%	100%	0%	0%	0	793	742	766
9		बारा BARA	0%	100%	0%	0%	0	793	764	780
10		भादवा BHADLA	0%	100%	0%	0%	2	805	730	770
11		बिहनी BHIWANI	0%	100%	0%	0%	0	801	740	776
12		बिकानेर BIKANER	0%	99%	1%	1%	5	806	740	774
13		बरेली BAREILLY	0%	99%	1%	1%	4	804	740	775
14		चित्तौड़गढ़ CHITTORGARH	0%	98%	2%	2%	12	806	758	785
15		फतेहपुर FATEHPUR	0%	100%	0%	0%	0	790	739	764
16		ग्रेटर नोएडा GREATER NOIDA	0%	95%	5%	5%	37	810	749	783
17		हापुड़ HAPUR	0%	97%	3%	3%	24	810	746	780
18		जवाहरपुर JAWAHARPUR	0%	0%	0%	0%	0	0	0	0
19		झटिकर JHATIKARA	0%	100%	0%	0%	0	801	739	777
20		कानपुर जीआईएस KANPUR GIS	0%	100%	0%	0%	0	795	741	771
21		कोटेश्वर KOTESHWAR	0%	100%	0%	0%	0	799	740	772
22		ललितपुर LALITPUR	0%	100%	0%	0%	0	766	766	766
23		लखनऊ LUCKNOW	0%	100%	0%	0%	0	802	740	771
24		मैनपुरी MAINPURI	0%	97%	3%	3%	26	807	753	784
25		मेरठ MEERUT	0%	100%	0%	0%	2	806	744	774
26		मोगा MOGA	0%	100%	0%	0%	0	799	735	770
27		ओबरा सी OBRA C	0%	0%	0%	0%	0	0	0	0
28		उरई ORAI	0%	99%	1%	1%	8	803	757	784
29		फागी PHAGI	0%	100%	0%	0%	3	807	751	782
30		उन्नाव UNNAO	0%	100%	0%	0%	0	786	736	763
31	वाराणसी VARANASI	0%	100%	0%	0%	0	793	752	773	
1	पश्चिमी क्षेत्र WR	अकोला AKOLA	0%	100%	0%	0%	1	806	760	775
2		औरंगाबाद AURANGABAD	0%	100%	0%	0%	0	802	756	781
3		भोपाळ (बीडीटीसीएल) BHOPAL (BDTCL)	0%	100%	0%	0%	0	792	752	771
4		भुज BHUJ	0%	100%	0%	0%	0	797	740	771
5		बिलासपुर BILASPUR	0%	100%	0%	0%	0	788	767	777
6		बीना BINA	0%	100%	0%	0%	0	799	762	781
7		बनसकांठा BANASKANTHA	0%	99%	1%	1%	6	803	763	782
8		चांपा CHAMPA	0%	100%	0%	0%	0	797	772	787
9		धुले (बीडीटीसीएल) DHULE (BDTCL)	0%	100%	0%	0%	0	794	732	768
10		धर्मजयगढ़ DHARAMJAGARH	0%	100%	0%	0%	0	791	765	780
11		रायपुर प्लिग RAIPUR POOLING	0%	100%	0%	0%	0	795	772	783
12		एकतुनी EKTUNI	0%	100%	0%	0%	1	803	754	774
13		गदरवाड़ा GADARWARA	0%	100%	0%	0%	3	803	771	786
14		ग्वालियर GWALIOR	0%	100%	0%	0%	0	801	754	783
15		इंदौर INDORE	0%	100%	0%	0%	0	785	752	769
16		जबलपुर JABALPUR	0%	99%	1%	1%	8	806	770	786
17		खंडवा KHANDWA	0%	100%	0%	0%	0	788	750	770
18		कोरडी KORADI	0%	100%	0%	0%	0	789	755	766
19		रायगढ़ प्लिग RAIGARH POOLING	0%	100%	0%	0%	0	798	777	789
20		पडरुगे PADGHE	0%	100%	0%	0%	0	799	759	781
21		पारली PARLI	0%	100%	0%	0%	3	809	767	786
22		पुणे PUNE	0%	100%	0%	0%	0	800	757	780
23		राजानंदगाँव RAJNANDGAON	0%	100%	0%	0%	1	803	779	791
24		सासन SASAN	0%	100%	0%	0%	0	787	758	770
25		सासन SATNA	0%	100%	0%	0%	0	798	761	777
26		सिबनी SEONI	0%	100%	0%	0%	0	797	769	782
27		सोपल SIPAT	0%	100%	0%	0%	0	788	769	778
28		सोलापुर SOLAPUR	0%	99%	1%	1%	5	808	764	785
29		तिरोडा TIRODA	0%	100%	0%	0%	0	787	749	764
30		तामनार TAMNAR	0%	100%	0%	0%	0	796	778	788
31		वाडीदरा VADODARA	0%	100%	0%	0%	0	796	755	775
32		विन्ध्यचल प्लिग VINDHYACHAL PS	0%	100%	0%	0%	0	787	758	772
33		वर्धा WARDHA	0%	99%	1%	1%	5	808	767	788
34		वरीसा WARORA	0%	100%	0%	0%	0	800	766	785
1	दक्षिणी क्षेत्र SR	कडपा CUDDAPAH	0%	88%	12%	12%	86	811	753	787
2		चिल्कलीपेट CHILAKALURIPETA	0%	97%	3%	3%	22	811	706	784
3		कर्नूल KURNOOL	0%	100%	0%	0%	0	797	741	776
4		महेश्वरम MAHESWARAM	0%	100%	0%	0%	4	803	758	776
5		निजामाबाद NIZAMABAD	0%	94%	6%	6%	41	802	771	789
6		नेल्लूर प्लिग NELLORE PS	0%	100%	0%	0%	0	794	750	775
7		रायचूर RAICHUR	0%	100%	0%	0%	3	800	753	780
8		श्रीकाकुलम SRIKAKULAM	0%	100%	0%	0%	0	792	755	775
9		तिरुवल्लम THIRUVALEM	0%	99%	1%	1%	10	801	753	780
10		वेमगिरी VEMAGIRI	0%	100%	0%	0%	0	800	763	784
1	पूर्वोत्तर 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	395	405
3		बोंगाईगांव BONGAIGAON (400 kV)	0%	100%	0%	0%	0	419	402	409
4		बोंगाईगांव टीपीएस BONGAIGAON TPS (400 kV)	0%	100%	0%	0%	0	420	403	411
5		इम्फाल IMPHAL (400 kV)	0%	100%	0%	0%	0	420	392	408
6		बर्निकट BYRNIHAT (400 kV)	0%	0%	0%	0%	0	0	0	0
7		कामेंग KAMENG (400 kV)	0%	100%	0%	0%	0	416	395	404
8		अज़ारा AZARA (400 kV)	0%	0%	0%	0%	0	0	0	0
9		मिशा MISA (400 kV)	0%	100%	0%	0%	0	417	393	406
10		न्यू मरियानी NEW MARIANI (400 kV)	0%	100%	0%	0%	0	420	392	404
11		न्यू कोहिमा NEW KOHIMA (400 kV)	0%	100%	0%	0%	0	420	394	406
12		पालाटाना PALATANA (400 kV)	0%	100%	0%	0%	0	414	389	408
13		पूर्वकचनबाड़ी PK BARI (400 kV)	0%	100%	0%	0%	0	420	390	405
14		रंगानादी RANGANADI (400 kV)	0%	0%	0%	0%	0	0	0	0
15		सिलचर SILCHAR (400 kV)	1%	99%	0%	1%	9	422	354	410
17	सुरज्यामनिनगर SURJYAMANINAGAR (400 kV)	0%	100%	0%	0%	0	420	388	403	

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

# Angle Difference w.r.to. Vindhyachal\_May\_2021

- AGRA\_PG ALIPU\_PG BACHU\_PG BALIP\_PG BONGA\_PG CHDPR\_MH DURG4\_WB FARAK\_PG
- GJWKA\_PG HOSUR\_PG KALW4\_MH KISNP\_PG KOLAR\_PG KOTA\_PG KSTPS\_GS KZKDE\_PG
- MOGA\_PG PATNA\_PG PURNW\_PG RHNHV\_PG SILCR\_PG TALCH\_PG TCHRN\_PG VINDP\_PG

