

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

Date: 05-May-2022

**System Reliability Indices Report for the month of April 2022**

**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	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 APRIL 2022

Date of reporting:

05-May-22

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-22	1.12	79.41	19.47	20.59	4:56	50.01
02-Apr-22	9.70	76.82	13.48	23.18	5:33	49.99
03-Apr-22	11.86	79.35	8.78	20.65	4:57	49.97
04-Apr-22	25.56	68.15	6.30	31.85	7:38	49.95
05-Apr-22	41.33	54.68	3.99	45.32	10:52	49.91
06-Apr-22	47.95	47.88	4.17	52.12	12:30	49.89
07-Apr-22	62.67	35.93	1.40	64.07	15:22	49.84
08-Apr-22	34.99	54.31	10.71	45.69	10:58	49.94
09-Apr-22	39.16	51.76	9.09	48.24	11:34	49.92
10-Apr-22	9.42	66.69	23.89	33.31	7:59	50.00
11-Apr-22	30.10	60.74	9.16	39.26	9:25	49.93
12-Apr-22	43.34	52.13	4.53	47.87	11:29	49.90
13-Apr-22	44.13	51.60	4.27	48.40	11:37	49.90
14-Apr-22	9.95	77.45	12.59	22.55	5:24	49.99
15-Apr-22	10.22	73.98	15.80	26.02	6:14	49.99
16-Apr-22	13.84	75.93	10.23	24.07	5:46	49.98
17-Apr-22	11.02	72.41	16.57	27.59	6:37	49.99
18-Apr-22	36.53	54.84	8.63	45.16	10:50	49.92
19-Apr-22	42.79	55.08	2.13	44.92	10:46	49.89
20-Apr-22	46.33	49.03	4.64	50.97	12:14	49.86
21-Apr-22	45.44	50.76	3.80	49.24	11:49	49.90
22-Apr-22	35.97	59.05	4.98	40.95	9:49	49.92
23-Apr-22	47.01	49.75	3.24	50.25	12:03	49.90
24-Apr-22	20.49	59.99	19.53	40.01	9:36	49.97
25-Apr-22	23.87	67.41	8.73	32.59	7:49	49.94
26-Apr-22	51.99	41.13	6.88	58.87	14:07	49.87
27-Apr-22	58.26	40.56	1.18	59.44	14:16	49.87
28-Apr-22	52.18	44.95	2.87	55.05	13:12	49.87
29-Apr-22	40.93	53.76	5.31	46.24	11:05	49.92
30-Apr-22	11.17	72.04	16.79	27.96	6:42	49.99
<b>April 2022</b>	<b>31.98</b>	<b>59.25</b>	<b>8.77</b>	<b>40.75</b>	<b>293:23</b>	<b>49.93</b>

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

विद्युत विभव रूपरेखा माह - अप्रैल 2022

VOLTAGE PROFILE - April 2022

Date of reporting: 05-May-22

क्र.स. Si. 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	800	765	782
2		दालिपली DARLIPALI	0%	100%	0%	0%	0	793	767	779
3		गया GAYA	0%	100%	0%	0%	0	780	747	763
4		झारसुगडा JHARSUGUDA	0%	100%	0%	0%	0	803	781	788
5		मिदनापुर MEDINIPUR	0%	100%	0%	0%	0	797	746	774
6		रांची RANCHI	0%	100%	0%	0%	0	796	763	779
7		सासाराम SASARAM	0%	100%	0%	0%	0	802	741	762
1	उत्तरी क्षेत्र NR	आगरा AGRA	0%	100%	0%	0%	0	801	753	778
2		आगरा (फतेहाबाद) AGRA (FATEHABAD)	0%	100%	0%	0%	0	787	746	766
3		अजमेर AJMER	0%	98%	2%	2%	14	808	759	783
4		अलीगढ़ ALIGARH	0%	100%	0%	0%	0	796	750	775
5		अनूपरा सी ANPARA-C	0%	100%	0%	0%	0	779	759	767
6		अनूपरा डी ANPARA-D	0%	100%	0%	0%	0	779	757	765
7		अंता ANTA	0%	100%	0%	0%	0	799	764	781
8		बलिया BALLIA	0%	100%	0%	0%	0	784	740	764
9		बारा BARA	0%	100%	0%	0%	0	782	755	767
10		भादवा BHADLA	0%	100%	0%	0%	0	800	740	773
11		भिवानी BHIWANI	0%	100%	0%	0%	0	802	749	776
12		बीकानेर BIKANER	0%	100%	0%	0%	2	806	746	775
13		बरेली BAREILLY	0%	100%	0%	0%	0	799	744	773
14		चित्तौड़गढ़ CHITTORGARH	0%	99%	1%	1%	10	808	760	785
15		फतेहपुर FATEHPUR	0%	100%	0%	0%	0	791	743	768
16		ग्रेटर नोएडा GREATER NOIDA	0%	100%	0%	0%	0	801	754	778
17		हापुड HAPUR	0%	100%	0%	0%	0	800	744	773
18		जवाहरपुर JAWAHARPUR	0%	0%	0%	0%	0	0	0	0
19		झाड़िकर JHATIKARA	0%	100%	0%	0%	0	797	740	772
20		कानपुर जीआइएस KANPUR GIS	0%	100%	0%	0%	0	787	746	767
21		कोटेश्वर KOTESHWAR	0%	100%	0%	0%	0	795	738	773
22		लालितपुर LALITPUR	0%	100%	0%	0%	0	768	740	755
23		लखनऊ LUCKNOW	0%	100%	0%	0%	0	798	742	769
24		मैनपुरी MAINPURI	0%	100%	0%	0%	0	787	751	776
25		मेरठ MEERUT	0%	100%	0%	0%	0	800	748	778
26		मोहा MOGA	0%	100%	0%	0%	0	800	741	772
27		ओबरा सी OBRA C	0%	100%	0%	0%	0	765	765	765
28		उरई ORAI	0%	100%	0%	0%	2	805	764	786
29		फागी PHAGI	0%	100%	0%	0%	1	804	752	780
30		उन्नाव UNNAO	0%	100%	0%	0%	0	784	736	760
31		वाराणसी VARANASI	0%	100%	0%	0%	0	786	755	771
1	पश्चिमी क्षेत्र WR	अकोला AKOLA	0%	100%	0%	0%	0	801	757	774
2		औरंगाबाद AURANGABAD	0%	100%	0%	0%	1	805	747	776
3		भोपाल (बीक्रीटीसीएल) BHOPAL (BDTCL)	0%	100%	0%	0%	0	798	750	771
4		भुज BHUJ	0%	100%	0%	0%	0	799	731	772
5		बिलासपुर BILASPUR	0%	100%	0%	0%	0	789	759	775
6		बीना BINA	0%	100%	0%	0%	0	803	765	782
7		बनसकण्ठ BANASKANTHA	0%	100%	0%	0%	1	805	755	783
8		चापा CHAMPA	0%	86%	14%	14%	99	810	775	794
9		धुले (बीक्रीटीसीएल) DHULE (BDTCL)	0%	100%	0%	0%	0	799	746	773
10		धर्मजयगढ़ DHARAMJAI GARH	0%	100%	0%	0%	0	790	765	776
11		रायपुर प्रसिंग RAIPUR POOLING	0%	100%	0%	0%	1	800	771	785
12		एकतुनी EKTUNI	0%	100%	0%	0%	0	795	748	771
13		गदवाड़ा GADWARA	0%	100%	0%	0%	0	802	769	783
14		ग्वालियर GWALIOR	0%	100%	0%	0%	1	802	761	782
15		इंदौर INDORE	0%	100%	0%	0%	0	793	749	771
16		जबलपुर JABALPUR	0%	100%	0%	0%	1	806	772	785
17		खडवा KHANDWA	0%	100%	0%	0%	0	797	747	773
18		कोरडी KORADI	0%	100%	0%	0%	0	783	754	769
19		रायगढ़ प्रसिंग RAIGARH POOLING	0%	99%	1%	1%	6	803	775	790
20		पडघे PADGHE	0%	99%	1%	1%	4	808	740	777
21		परली PARLI	0%	100%	0%	0%	3	806	750	780
22		पुणे PUNE	0%	99%	0%	0%	0	800	736	778
23		राजनन्दगांव RAJNANDGAON	0%	99%	1%	1%	9	807	769	790
24		सासन SASAN	0%	100%	0%	0%	0	789	765	776
25		सतना SATNA	0%	100%	0%	0%	0	799	767	783
26		सिवनी SEONI	0%	100%	0%	0%	0	799	759	778
27		सीपट SIPAT	0%	100%	0%	0%	0	789	765	776
28		सोलापुर SOLAPUR	0%	99%	1%	1%	10	809	751	781
29		तिरुंगा TIROGA	0%	100%	0%	0%	0	776	751	765
30		तामनार TAMNAR	0%	100%	0%	0%	2	802	775	789
31		वडोदरा VADODARA	0%	100%	0%	0%	0	796	746	774
32		विन्ध्याचल प्रसिंग VINDHYACHAL PS	0%	100%	0%	0%	0	792	768	779
33		वर्धा WARDHA	0%	100%	0%	0%	1	806	758	783
34		वरोरा WARORA	0%	100%	0%	0%	0	801	754	780
1	दक्षिणी क्षेत्र SR	कडपा CUDDAPAH	0%	79%	21%	21%	148	813	754	790
2		चिन्नुरसैट चिल्लकालुरिपेटा CHILKALURIPETA	0%	72%	28%	28%	202	819	749	791
3		कूर्नूल KURNOOL	0%	100%	0%	0%	0	801	743	775
4		महेश्वरम MAHESWARAM	0%	93%	7%	7%	48	808	732	780
5		निजामाबाद NIZAMABAD	0%	76%	24%	24%	170	814	742	780
6		नेल्लूर प्रसिंग NELLORE PS	0%	100%	0%	0%	0	799	731	774
7		रायचूर RAICHUR	0%	100%	0%	0%	0	803	749	777
8		श्रीकाकुलम SRIKAKULAM	0%	91%	9%	9%	64	812	760	788
9		थिरुवल्लम THIRUVALEM	0%	100%	0%	0%	0	800	735	769
10		वेमगिरी VEMAGIRI	0%	72%	28%	28%	198	819	757	792
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	419	394	406
3		बोंगाईगांव BONGAIGON (400 kV)	0%	100%	0%	0%	0	416	400	409
4		बोंगाईगांव ट्रांसफॉर्मर BONGAIGON TPS (400 kV)	0%	100%	0%	0%	0	417	403	411
5		इम्फाल IMPHAL (400 kV)	0%	100%	0%	0%	0	420	385	408
6		बनिरहाट BYRNihat (400 kV)	0%	0%	0%	0%	0	0	0	0
7		कामेंग KAMENG (400 kV)	0%	100%	0%	0%	0	416	391	406
8		अज़रा AZARA (400 kV)	0%	100%	0%	0%	0	411	402	407
9		मौला MISA (400 kV)	0%	100%	0%	0%	0	417	385	406
10		न्यू मरिचानी NEW MARIANI (400 kV)	0%	100%	0%	0%	0	419	386	406
11		न्यू कोहिमा NEW KOHIMA (400 kV)	0%	100%	0%	0%	2	421	391	407
12		पालाताना PALATANA (400 kV)	0%	100%	0%	0%	0	412	399	405
13		पुबुचनबारी PK BARI (400 kV)	0%	100%	0%	0%	0	411	394	403
14		रंगानदी RANGANADI (400 kV)	0%	100%	0%	0%	0	407	407	407
15		सिलचर SILCHAR (400 kV)	0%	100%	0%	0%	0	418	397	408
16		सुबानसिरी SUBANSIRI (400 kV)	0%	0%	0%	0%	0	0	0	0
17		सुन्चयामनिगर SURJYAMANINAGAR (400 kV)	0%	100%	0%	0%	0	409	393	401

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

# All India Angular spread w.r.to Vindychal for the month of Apr-2022

ALIPU\_PG BACHU\_PG BONGA\_PG DURG4\_WB FARAK\_PG GJWKA\_PG HOSUR\_PG  
KOLAR\_PG KOTA\_PG KSTPS\_GS KZKDE\_PG MOGA\_PG PATNA\_PG PURNW\_PG  
RHNHV\_PG SILCR\_PG TALCH\_PG TCHRN\_PG UNNAO\_UP VINDP\_PG

