

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

Date: 05-Feb-2022

System Reliability Indices Report for the month of January 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 JANUARY 2022

Date of reporting:

05-Feb-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-Jan-22	2.11	76.68	21.22	23.32	5:35	50.01
02-Jan-22	1.75	75.25	23.00	24.75	5:56	50.01
03-Jan-22	11.02	79.69	9.29	20.31	4:52	49.98
04-Jan-22	7.82	76.56	15.61	23.44	5:37	49.99
05-Jan-22	5.74	81.96	12.30	18.04	4:19	49.99
06-Jan-22	9.90	71.00	19.11	29.00	6:57	50.00
07-Jan-22	12.91	62.11	24.99	37.89	9:05	50.00
08-Jan-22	2.11	71.41	26.48	28.59	6:51	50.02
09-Jan-22	2.38	73.54	24.07	26.46	6:21	50.02
10-Jan-22	1.42	69.86	28.72	30.14	7:14	50.02
11-Jan-22	5.39	78.61	16.00	21.39	5:08	50.00
12-Jan-22	3.31	73.50	23.19	26.50	6:21	50.01
13-Jan-22	4.31	74.87	20.82	25.13	6:01	50.01
14-Jan-22	9.28	73.25	17.47	26.75	6:25	50.00
15-Jan-22	6.79	69.36	23.84	30.64	7:21	50.01
16-Jan-22	4.98	81.74	13.29	18.26	4:23	49.99
17-Jan-22	6.44	77.05	16.52	22.95	5:30	50.00
18-Jan-22	5.75	81.31	12.94	18.69	4:29	49.99
19-Jan-22	9.33	75.97	14.70	24.03	5:46	49.99
20-Jan-22	3.89	77.92	18.19	22.08	5:18	50.00
21-Jan-22	7.50	72.07	20.43	27.93	6:42	50.00
22-Jan-22	7.23	75.63	17.14	24.38	5:51	50.00
23-Jan-22	1.88	76.92	21.20	23.08	5:32	50.01
24-Jan-22	5.03	76.04	18.92	23.96	5:45	50.00
25-Jan-22	2.23	78.70	19.06	21.30	5:06	50.01
26-Jan-22	7.15	80.29	12.56	19.71	4:43	50.00
27-Jan-22	1.62	77.74	20.64	22.26	5:20	50.01
28-Jan-22	6.62	77.64	15.74	22.36	5:22	50.00
29-Jan-22	15.29	68.77	15.94	31.23	7:29	49.98
30-Jan-22	3.58	80.91	15.51	19.09	4:34	50.01
31-Jan-22	6.15	79.13	14.72	20.87	5:00	49.99
January 2022	5.84	75.66	18.50	24.34	181:05	50.00

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

विद्युत विभव रूपरेखा माह - जनवरी 2022

VOLTAGE PROFILE - January 2022

Date of reporting: 05-Feb-22

क्र.स. 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	798	740	775
2		दरलिपली DARLIPALI	0%	100%	0%	0%	0	789	758	777
3		गया GAYA	0%	100%	0%	0%	0	787	748	768
4		झारसुगुडा JHARSUGUDA	0%	99%	1%	1%	6	803	762	787
5		मिदनापुर MEDINIPUR	0%	100%	0%	0%	0	785	746	766
6		रांची RANCHI	0%	100%	0%	0%	0	793	760	779
7		ससायाम SASARAM	0%	100%	0%	0%	0	791	741	765
1	उत्तरी क्षेत्र NR	आगरा AGRA	0%	100%	0%	0%	0	802	751	780
2		आगरा (फतेहाबाद) AGRA (FATEHABAD)	0%	100%	0%	0%	0	796	745	776
3		अजमेर AJMER	0%	99%	1%	1%	5	805	754	782
4		अलीगढ़ ALIGARH	0%	100%	0%	0%	0	801	748	778
5		अनूपरा सी ANPARA-C	0%	100%	0%	0%	0	784	754	770
6		अनूपरा डी ANPARA-D	0%	100%	0%	0%	0	784	753	769
7		अंता ANTA	0%	100%	0%	0%	0	797	755	779
8		बलिया BALLIA	0%	100%	0%	0%	0	790	741	769
9		बारा BARA	0%	100%	0%	0%	0	785	752	768
10		भदला BHADLA	0%	100%	0%	0%	1	808	735	768
11		भिवानी BHIWANI	0%	100%	0%	0%	2	801	755	779
12		बीकानेर BIKANER	0%	100%	0%	0%	2	807	742	773
13		बरेली BAREILLY	0%	96%	4%	4%	30	805	749	782
14		चित्तौड़गढ़ CHITTORGARH	0%	100%	0%	0%	3	806	749	780
15		फतेहपुर FATEHPUR	0%	100%	0%	0%	0	794	741	768
16		ग्रेटर नोएडा GREATER NOIDA	0%	99%	1%	1%	10	804	755	785
17		हापड़ HAPUR	0%	99%	1%	1%	8	804	751	783
18		जावाहरपुर JAWAHARPUR	0%	0%	0%	0%	0	0	0	0
19		झटिकरा JHATIKARA	0%	100%	0%	0%	0	801	747	779
20		कानपुर जीआईएस KANPUR GIS	0%	100%	0%	0%	0	797	747	772
21		कोटेश्वर KOTESHWAR	0%	100%	0%	0%	0	799	744	775
22		ललितपुर LALITPUR	0%	100%	0%	0%	0	786	746	770
23		लुक्नो LUCKNOW	0%	100%	0%	0%	1	801	743	775
24		मैनपुरी MAINPURI	0%	99%	1%	1%	4	802	752	783
25		मेरठ MEERUT	0%	99%	1%	1%	4	804	748	779
26		मोगा MOGA	0%	100%	0%	0%	1	805	737	770
27		ओबरा सी OBRA C	0%	0%	0%	0%	0	0	0	0
28		उरई ORAI	0%	99%	1%	1%	11	806	753	787
29		फागी PHAGI	0%	100%	0%	0%	1	802	749	782
30		उन्नाव UNNAO	0%	100%	0%	0%	0	791	733	768
31		वाराणसी VARANASI	0%	100%	0%	0%	0	792	754	775
1	पश्चिमी क्षेत्र WR	अकोला AKOLA	0%	100%	0%	0%	0	796	749	774
2		औरंगाबाद AURANGABAD	0%	100%	0%	0%	0	796	738	775
3		भोपाल (बीडीटीसीएल) BHOPAL (BDTCL)	0%	100%	0%	0%	0	795	748	773
4		भुज BHUJ	0%	100%	0%	0%	0	795	740	770
5		बिलासपुर BILASPUR	0%	100%	0%	0%	0	789	757	775
6		बीना BINA	0%	99%	1%	1%	6	802	751	783
7		बनसकंठ BANASKANTHA	0%	100%	0%	0%	1	804	759	782
8		चांचा CHAMPA	0%	80%	20%	20%	149	810	760	792
9		धुले (बीडीटीसीएल) DHULE (BDTCL)	0%	100%	0%	0%	0	798	746	775
10		धर्मजयगढ़ DHARAMJAIGARH	0%	100%	0%	0%	0	789	755	775
11		रायपुर पुलिंग RAIPUR POOLING	0%	100%	0%	0%	0	793	762	783
12		एकतुनी EKTUNI	0%	100%	0%	0%	0	789	742	770
13		गदरवाड़ा GADARWARA	0%	98%	2%	2%	12	803	766	786
14		ग्वालियर GWALIOR	0%	100%	0%	0%	3	804	754	784
15		इंदौर INDORE	0%	100%	0%	0%	0	795	745	773
16		जबलपुर JABALPUR	0%	94%	6%	6%	46	806	762	787
17		खडवा KHANDWA	0%	100%	0%	0%	0	796	749	775
18		कोरडी KORADI	0%	100%	0%	0%	0	781	750	767
19		रायगढ़ पुलिंग RAIGARH POOLING	0%	98%	2%	2%	17	803	766	789
20		पडुधे PADGHE	0%	99%	1%	1%	10	809	739	779
21		परली PARLI	0%	97%	3%	3%	21	805	756	785
22		पुणे PUNE	0%	96%	0%	0%	0	800	744	782
23		राजनन्दगांव RAJNANDGAON	0%	92%	8%	8%	57	806	764	789
24		सासन SASAN	0%	100%	0%	0%	0	793	762	778
25		सतना SATNA	0%	98%	2%	2%	16	801	761	785
26		सिवनी SEONI	0%	100%	0%	0%	0	797	753	777
27		सीपत SIPAT	0%	100%	0%	0%	0	790	759	776
28		सोलापुर SOLAPUR	0%	98%	2%	2%	16	806	758	785
29		तिरुई TIRORA	0%	100%	0%	0%	0	775	750	764
30		तामनार TAMNAR	0%	100%	0%	0%	3	801	768	788
31		वडोदरा VADODARA	0%	100%	0%	0%	0	800	743	777
32	विन्ध्यचल पुलिंग VINDHYACHAL PS	0%	100%	0%	0%	0	796	766	782	
33	वर्धा WARDHA	0%	100%	0%	0%	1	802	750	780	
34	वरोरा WARORA	0%	100%	0%	0%	3	801	756	783	
1	दक्षिणी क्षेत्र SR	कडपा CUDDAPAH	0%	91%	9%	9%	66	814	752	785
2		चिल्कुरीपेट CHILAKALURIPETA	0%	97%	3%	3%	22	818	733	777
3		कर्नूल KURNOOL	0%	100%	0%	0%	0	798	740	776
4		महेश्वरम MAHESWARAM	0%	99%	1%	1%	8	809	734	774
5		निजामाबाद NIZAMABAD	0%	97%	3%	3%	24	811	744	784
6		नेल्लूर पुलिंग NELLORE PS	0%	100%	0%	0%	0	795	744	776
7		रायचूर RAICHUR	0%	100%	0%	0%	0	800	746	779
8		श्रीकाकुलम SRIKAKULAM	0%	99%	1%	1%	10	808	741	781
9		तिरुवल्लम THIRUVALEM	0%	100%	0%	0%	0	794	736	771
10		वेमगिरी VEMAGIRI	0%	90%	10%	10%	72	816	739	783
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	421	395	406
3		बोंगाईगांव BONGAIGAON (400 kV)	0%	98%	2%	2%	11	422	400	412
4		बोंगाईगांव टीपीएस BONGAIGAON TPS (400 kV)	0%	92%	8%	8%	59	423	402	414
5		इम्फाल IMPHAL (400 kV)	0%	100%	0%	0%	0	421	394	408
6		बर्निहट BYRNHAT (400 kV)	0%	0%	0%	0%	0	0	0	0
7		कामेंग KAMENG (400 kV)	0%	100%	0%	0%	0	417	394	404
8		अज़रा AZARA (400 kV)	0%	100%	0%	0%	0	412	403	408
9		मिसा MISA (400 kV)	0%	100%	0%	0%	0	417	395	406
10		न्यू मरियानी NEW MARIANI (400 kV)	0%	100%	0%	0%	0	421	390	405
11		न्यू कोहिमा NEW KOHIMA (400 kV)	0%	100%	0%	0%	1	422	392	407
12		पालाताना PALATANA (400 kV)	0%	100%	0%	0%	1	413	401	407
13		पुर्बकचनवारी PK BARI (400 kV)	0%	100%	0%	0%	0	412	393	403
14		रंगानदी RANGANADI (400 kV)	0%	0%	0%	0%	0	0	0	0
15		सिलचर SILCHAR (400 kV)	0%	100%	0%	0%	0	421	400	409
16		सुबानसिरी SUBANSIRI (400 kV)	0%	0%	0%	0%	0	0	0	0
17		सुरज्यामनिगर SURJYAMANINAGAR (400 kV)	0%	100%	0%	0%	0	410	393	402

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

Monthly Angular speed w.r.to. Vindhyachal_Jan_2022

AGRA_PG ALIPU_PG BACHU_PG BALIP_PG BONGA_PG CHDPR_MH DURGA_WB HOSUR_PG
KALW4_MH KZKDE_PG PURNW_PG SILCR_PG TALCH_PG TCHRN_PG UNNAO_UP VINDP_PG

