

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

Date: 05-Mar-2021

**System Reliability Indices Report for the month of February 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	1	0.25	0.04
3	Import of NR	0	0.00	0.00
4	NEW-SR	6	1.50	0.22
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	2	0.50	0.07
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 FEBRUARY 2021

Date of reporting:

05-Mar-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-Feb-21	5.36	77.42	17.22	22.58	5:25	50.00
02-Feb-21	9.18	78.02	12.80	21.98	5:16	49.98
03-Feb-21	1.85	75.67	22.48	24.33	5:50	50.02
04-Feb-21	5.49	71.83	22.69	28.17	6:45	50.01
05-Feb-21	8.55	73.13	18.32	26.88	6:27	50.00
06-Feb-21	4.07	77.56	18.37	22.44	5:23	50.00
07-Feb-21	3.66	75.32	21.02	24.68	5:55	50.01
08-Feb-21	4.07	77.56	18.37	22.44	5:23	50.00
09-Feb-21	10.24	75.30	14.46	24.70	5:55	49.99
10-Feb-21	7.13	77.80	15.07	22.20	5:19	49.99
11-Feb-21	5.83	75.37	18.80	24.63	5:54	50.00
12-Feb-21	3.34	78.06	18.60	21.94	5:16	50.01
13-Feb-21	1.40	78.78	19.81	21.22	5:05	50.01
14-Feb-21	1.23	74.57	24.20	25.43	6:06	50.02
15-Feb-21	1.98	76.77	21.25	23.23	5:34	50.01
16-Feb-21	3.55	78.97	17.48	21.03	5:02	50.00
17-Feb-21	4.92	78.30	16.78	21.70	5:12	50.00
18-Feb-21	11.76	77.57	10.67	22.43	5:23	49.98
19-Feb-21	6.82	77.84	15.35	22.16	5:19	49.99
20-Feb-21	6.19	71.11	22.70	28.89	6:56	50.00
21-Feb-21	8.50	81.44	10.07	18.56	4:27	49.98
22-Feb-21	15.96	72.55	11.49	27.45	6:35	49.97
23-Feb-21	9.84	78.15	12.01	21.85	5:14	49.99
24-Feb-21	12.79	77.69	9.53	22.31	5:21	49.98
25-Feb-21	20.81	71.09	8.10	28.91	6:56	49.96
26-Feb-21	7.40	82.00	10.60	18.00	4:19	49.99
27-Feb-21	7.49	77.03	15.49	22.97	5:30	49.99
28-Feb-21	3.30	73.11	23.59	26.89	6:27	50.01
<b>February 2021</b>	<b>6.88</b>	<b>76.43</b>	<b>16.69</b>	<b>23.57</b>	<b>158:24</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.सं. 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.वोल्ट.) Maximum(kV)	निम्नतम(कि.वोल्ट.) Minimum(kV)	औसत (कि.वोल्ट.) Average(kV)	
1	पूर्वी क्षेत्र ER	अंगल ANGUL	0%	100%	0%	0%	0	796	753	774	
2		गया GAYA	0%	100%	0%	0%	0	788	752	773	
3		झारसुगड़ा JHARSUGUDA	0%	99%	1%	1%	9	805	774	790	
4		रान्ची RANCHI	0%	100%	0%	0%	0	798	762	781	
5		सासारम SASARAM	0%	100%	0%	0%	0	780	742	763	
6		दरलपल्ली DARLPALI	0%	100%	0%	0%	0	792	758	782	
7		मिदिनपुर MEDINIPUR	0%	100%	0%	0%	0	794	747	767	
1	उत्तरी क्षेत्र NR	आगरा AGRA	0%	100%	0%	0%	0	800	752	780	
2		आगरा (फतेहबाद) AGRA (FATEHABAD)	0%	99%	1%	1%	5	807	758	785	
3		अनपरा सी ANPARA-C	0%	100%	0%	0%	0	783	756	770	
4		अनपरा डी ANPARA-D	0%	100%	0%	0%	0	781	754	767	
5		अन्ता ANTA	0%	100%	0%	0%	0	800	756	781	
6		बलिया BALLIA	0%	100%	0%	0%	0	790	747	772	
7		बारा BARA	0%	100%	0%	0%	0	784	757	773	
7		भिवानी BHIWANI	0%	100%	0%	0%	0	803	754	782	
8		बरेली BAREILLY	0%	100%	0%	0%	2	804	743	781	
9		कलकत्ता FATEHPUR	0%	100%	0%	0%	0	790	743	768	
10		ग्रेटर नोडा GREATER NOIDA	0%	98%	2%	2%	13	807	749	786	
11		झुंझिकर JHATIKARA	0%	100%	0%	0%	0	801	751	782	
12		कानपुर जैजपुरस KANPUR GIS	0%	100%	0%	0%	0	792	740	772	
13		लखनऊ LUCKNOW	0%	100%	0%	0%	0	799	746	778	
14		ललितपुर LALITPUR	0%	100%	0%	0%	0	789	753	775	
15		मेरठ MEERUT	0%	100%	0%	0%	0	804	747	780	
16		मोहा MOGA	0%	100%	0%	0%	0	801	744	771	
17		फाजी PHAJI	0%	100%	0%	0%	0	800	748	779	
18		वाराणसी VARANASI	0%	100%	0%	0%	0	795	753	777	
19		लुनावा LUNAWA	0%	100%	0%	0%	0	784	759	789	
21		चित्तौड़गढ़ CHITTORGARH	0%	100%	0%	0%	0	798	752	780	
22		अलीगढ़ ALIGARH	0%	100%	0%	0%	0	797	748	779	
23		अजमेर AJMER	0%	100%	0%	0%	0	797	749	776	
24		हापड़ HAPUR	0%	98%	2%	2%	16	804	739	785	
25		मैनपुरी MAINPURI	0%	100%	0%	0%	1	802	750	781	
26		उरुई ORAI	0%	98%	2%	2%	13	806	713	786	
27		बीकानेर BIKANER	0%	100%	0%	0%	1	803	741	770	
28		भदवा BHADLA	0%	100%	0%	0%	1	804	721	768	
29		कोशंबा KOTESHWAR	0%	100%	0%	0%	0	798	750	777	
1		पश्चिमी क्षेत्र WR	अकोला AKOLA	0%	100%	0%	0%	0	792	753	773
2			औरंगाबाद AURANGABAD	0%	100%	0%	0%	0	800	752	776
3			भोपाल (बीडोटीसीएल) BHOPAL (BDTCL)	0%	100%	0%	0%	0	793	750	772
4			बिलासपुर BILASPUR	0%	100%	0%	0%	0	785	761	773
5			बीना BINA	0%	100%	0%	0%	1	800	758	781
6	चापा CHAMPA		0%	100%	0%	0%	0	799	775	788	
7	धर्मनगढ़ DHARAMJAIGARH		0%	100%	0%	0%	0	790	762	777	
8	धुल (बीडोटीसीएल) DHULE (BDTCL)		0%	100%	0%	0%	0	795	747	774	
9	एकतली EKTALI		0%	100%	0%	0%	0	794	748	770	
10	ग्वालियर GWALIOR		0%	100%	0%	0%	0	800	756	783	
11	इंदौर INDORE		0%	100%	0%	0%	0	790	750	771	
12	जबलपुर JABALPUR		0%	99%	1%	1%	4	803	763	783	
13	कोरडी KORADI		0%	100%	0%	0%	0	781	752	767	
14	पूणे PUNE		0%	100%	0%	0%	0	800	757	785	
15	रायगढ़ पल्लिग RAIGARH POOLING		0%	100%	0%	0%	0	798	775	787	
16	रायपुर पल्लिग RAIPUR POOLING		0%	100%	0%	0%	0	796	765	782	
17	सासन SASAN		0%	100%	0%	0%	0	787	762	773	
18	सातना SATNA		0%	100%	0%	0%	0	796	758	777	
19	सेवनी SEONI		0%	100%	0%	0%	0	794	755	776	
20	सीपट SIPAT		0%	100%	0%	0%	0	784	761	773	
21	सोलापुर SOLAPUR		0%	99%	1%	1%	9	810	762	785	
22	तामनार TAMNAR		0%	100%	0%	0%	0	798	776	787	
23	तिरुंगा TIRORA		0%	100%	0%	0%	0	772	751	762	
24	वडोदरा VADODARA		0%	100%	0%	0%	0	794	756	777	
25	विंध्याचल पल्लिग VINDHYACHAL PS		0%	100%	0%	0%	0	789	764	776	
26	वर्धा WARDHA		0%	100%	0%	0%	3	805	762	781	
27	भुज BHUJ		0%	100%	0%	0%	0	788	747	770	
28	बनारका BANASKANTHA		0%	100%	0%	0%	0	791	762	779	
29	गदरवाड़ा GADARWARA		0%	100%	0%	0%	0	799	769	782	
30	पडरु PADGHE		0%	99%	0%	1%	4	802	725	781	
31	परली PARLI		0%	99%	1%	1%	4	803	764	784	
32	राजनन्दगांव RAJNANDGAON		0%	100%	0%	0%	2	800	775	788	
33	वरौर WARORA		0%	100%	0%	0%	0	795	768	782	
34	खडवा KHANDWA		0%	100%	0%	0%	0	789	756	771	
1	दक्षिणी क्षेत्र SR	कन्नूर KURNOOL	0%	100%	0%	0%	0	801	743	775	
2		नेल्लूर पल्लिग NELLORE PS	0%	100%	0%	0%	0	798	743	772	
3		रायचूर RAICHUR	0%	100%	0%	0%	0	801	748	776	
4		निजामाबाद NIZAMABAD	0%	95%	5%	5%	36	812	744	782	
5		श्रीकाकुलम SRIKAKULAM	0%	94%	6%	6%	38	814	747	783	
6		तिरुवल्लूर THIRUVALLUR	0%	99%	1%	1%	6	802	742	777	
7		कुड्डापु CUDDAPAH	0%	94%	6%	6%	41	815	750	783	
8		महेश्वरम MAHESWARAM	0%	99%	1%	1%	5	814	731	773	
9		वेमगिरी VEMAGIRI	0%	91%	9%	9%	60	811	750	782	
10		चिक्कलुरीपेट्टे CHILAKALURIPETA	0%	99%	1%	1%	6	817	744	778	
1		पूर्वी क्षेत्र NER	अज़ारा AZARA (400 kV)	0%	100%	0%	0%	0	410	410	410
2			बालीपारा BALIPARA (400 kV)	0%	100%	0%	0%	0	417	392	405
3			बिसुवानथ चारियाल BISHWANATH CHARIALI (400 kV)	0%	100%	0%	0%	0	416	390	404
4			बोंगागाँव BONGAIGAON (400 kV)	0%	100%	0%	0%	0	418	401	411
5			बोंगागाँव टीपीएस BONGAIGAON TPS (400 kV)	0%	100%	0%	0%	0	419	402	412
6	बर्निहाट BYRNIHAT (400 kV)		0%	100%	0%	0%	0	410	410	410	
7	पालाताना PALATANA (400 kV)		0%	100%	0%	0%	0	413	402	407	
8	रंगानदी RANGANADI (400 kV)		0%	100%	0%	0%	0	416	390	405	
9	मिसा MISA (400 kV)		0%	100%	0%	0%	0	413	390	403	
10	सिलचर SILCHAR (400 kV)		0%	100%	0%	0%	0	417	391	406	
11	इम्फाल IMPHAL (400 kV)		0%	100%	0%	0%	0	421	389	408	
12	कामेंग KAMEING (400 kV)		0%	100%	0%	0%	0	418	390	406	
13	न्यू कोहिमा NEW KOHIMA (400 kV)		0%	100%	0%	0%	0	421	387	406	
14	पूर्वकचनवारी PK BARI (400 kV)		0%	100%	0%	0%	0	420	400	411	
15	सुरज्यामनिगार SURJYAMANINAGAR (400 kV)		0%	100%	0%	0%	0	420	390	410	

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

## Angular Difference of Important Nodes w.r.t. Jabalpur

— AGRA\_PG — BALIP\_PG — DURG4\_WB — GJWKA\_PG — HOSUR\_PG  
— JBLPR\_PG — KISNP\_PG — KOLAR\_PG — KSTPS\_GS — KZKDE\_PG  
— PATNA\_PG — RHNHV\_PG — TALCH\_PG — TRVLM\_PG

