

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

**System Reliability Indices Report for the month of July 2018**

Date: 3-Aug-2018

**Percentage (%) of times ATC was violated**

S.No.	Corridor	Number of Blocks Violated	Number of Hours Violated	%Violation
1	WR-NR	113	28.25	3.80
2	ER-NR	0	0.00	0.00
3	Import of NR	99	24.75	3.33
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	25	6.25	0.84
2	ER-NR	0	0.00	0.00
3	Import of NR	27	6.75	0.91
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.

विद्युत विभव रूपरेखा माह - जुलाई 2018

VOLTAGE PROFILE - JULY 2018

Date of reporting: 03-Aug-18

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.वो.) Maximum(kV)	निम्नतम(कि.वो.) Minimum(kV)	औसत (कि.वो.) Average(kV)
1	पूर्वी क्षेत्र ER	अंगुल ANGUL	0%	100%	0%	0%	0	792	765	778
2		गया GAYA	0%	100%	0%	0%	0	785	746	767
3		झारसगुडा JHARSUGUDA	0%	100%	0%	0%	3	801	775	791
4		रांची RANCHI	0%	100%	0%	0%	0	790	754	776
5		सासाराम SASARAM	0%	100%	0%	0%	0	799	721	759
1	उत्तरी क्षेत्र NR	आगरा AGRA	0%	100%	0%	0%	0	799	752	775
2		आगरा (फतेहाबाद) AGRA (FATEHABAD)	0%	94%	6%	6%	47	807	742	786
3		अनपरा सी ANPARA-C	0%	100%	0%	0%	0	784	750	765
4		अनपरा डी ANPARA-D	0%	100%	0%	0%	0	783	749	763
5		अंता ANTA	0%	100%	0%	0%	0	798	761	781
6		बलिया BALLIA	0%	100%	0%	0%	0	791	742	771
7		भिवानी BHIWANI	0%	99%	1%	1%	5	805	754	777
8		बरेली BAREILLY	0%	100%	0%	0%	0	761	743	759
9		फतेहपुर FATEHPUR	0%	100%	0%	0%	0	792	727	763
10		ग्रेटर नोएडा GREATER NOIDA	0%	98%	2%	2%	12	806	751	777
11		झटिकटा JHATIKARA	0%	100%	0%	0%	0	800	743	772
12		कानपुर जॉइंटिंग KANPUR GIS	0%	100%	0%	0%	0	761	748	760
13		लखनऊ LUCKNOW	0%	100%	0%	0%	0	802	745	776
14		ललितपुर LALITPUR	0%	100%	0%	0%	0	793	749	778
15		मेरठ MEERUT	0%	97%	3%	3%	26	816	752	781
16		मोगा MOGA	0%	100%	0%	0%	1	802	737	772
17		फागी PHAGI	0%	99%	1%	1%	5	801	746	780
18		वाराणसी VARANASI	0%	100%	0%	0%	0	793	750	773
19		उन्नाव UNNAO	0%	100%	0%	0%	0	780	727	756
1	पश्चिमी क्षेत्र WR	अकोला AKOLA	0%	100%	0%	0%	0	792	754	779
2		औरंगाबाद AURANGABAD	0%	99%	1%	1%	4	803	761	788
3		भोपाल (बीडीटीसीएल) BHOPAL (BDTCL)	0%	100%	0%	0%	0	794	760	776
4		बिलासपुर BILASPUR	0%	100%	0%	0%	0	781	757	769
5		बीना BINA	0%	100%	0%	0%	0	800	760	780
6		चांपा CHAMPA	0%	93%	7%	7%	50	807	776	792
7		धर्मजयगढ़ DHARAMJAIGARH	0%	100%	0%	0%	0	789	760	775
8		धुले (बीडीटीसीएल) DHULE (BDTCL)	0%	100%	0%	0%	3	802	753	786
9		एकतुनी EKTUNI	0%	100%	0%	0%	0	794	760	780
10		ग्वालियर GWALIOR	0%	100%	0%	0%	2	802	746	778
11		इंदौर INDORE	0%	100%	0%	0%	0	795	763	778
12		जबलपुर JABALPUR	0%	99%	1%	1%	9	803	763	783
13		कोरडी KORADI	0%	100%	0%	0%	0	780	757	769
14		पुणे PUNE	0%	100%	0%	0%	0	800	738	779
15		रायगढ़ पुलिंग RAIGARH POOLING	0%	94%	6%	6%	45	805	782	793
16		रायपुर पुलिंग RAIPUR POOLING	0%	100%	0%	0%	0	799	774	785
17		सासन SASAN	0%	100%	0%	0%	0	781	756	767
18		सतना SATNA	0%	100%	0%	0%	0	787	752	769
19		सिवनी SEONI	0%	100%	0%	0%	1	801	776	788
20		सीपट SIPAT	0%	100%	0%	0%	0	776	757	767
21		सोलापुर SOLAPUR	0%	91%	9%	9%	65	808	769	793
22		तामनार TAMNAR	0%	96%	4%	4%	30	804	782	793
23		तिरोहा TIRORA	0%	100%	0%	0%	0	772	754	764
24		वडोदरा VADODARA	0%	97%	3%	3%	23	806	767	788
25		विन्ध्यवाचल पुलिंग VINDHYACHAL PS	0%	100%	0%	0%	0	782	756	767
1	दक्षिणी क्षेत्र SR	वर्धा WARDHA	0%	100%	0%	0%	3	802	763	789
2		कन्नड KURNOOL	0%	98%	2%	2%	13	807	761	785
3		नेल्लूर पुलिंग NELLORE PS	0%	100%	0%	0%	3	803	765	783
4		रायचूर RAICHUR	0%	95%	5%	5%	38	807	766	789
5		निजामाबाद NIZAMABAD	0%	83%	17%	17%	127	811	704	791
6		श्रीकाकुलम SRIRIKAKULAM	0%	83%	17%	17%	126	814	764	792
1	पूर्वोत्तर क्षेत्र NER	तिरुवल्लूर THIRUVALLEEM	0%	78%	22%	22%	167	818	769	792
2		अजारा AZARA (400 kV)	0%	100%	0%	0%	0	409	400	405
3		बालिपारा BALIPARA (400 kV)	0%	100%	0%	0%	1	421	397	410
4		बिस्वनाथ चरिआलि BISWANATH CHARIALI (400 kV)	0%	100%	0%	0%	0	421	394	409
5		बोंगाईगाव BONGAIGAON (400 kV)	0%	100%	0%	0%	0	410	391	401
6		बोंगाईगाव टीपीएस BONGAIGAON TPS (400 kV)	0%	100%	0%	0%	0	417	398	408
7		बर्निहाट BYRNIHAT (400 kV)	0%	100%	0%	0%	0	409	400	405
8		पालाटाना PALATANANA (400 kV)	0%	100%	0%	0%	0	419	407	416
9		रंगानादी RANGANADI (400 kV)	0%	100%	0%	0%	1	422	400	407
10		मीसा MISA (400 kV)	0%	97%	3%	3%	20	424	386	413
11	सिलचर SILCHAR (400 kV)	0%	100%	0%	0%	0	414	396	407	

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

## FREQUENCY DEVIATION INDEX FOR JULY 2018

Date of reporting:

03-Aug-18

Date	Percentage of time frequency is			Freq Deviation Index* (FDI)	No. of hours frequency is outside 49.9-50.05 Hz	Average Frequency (Hz)
	<49.9 Hz	49.9 - 50.05 Hz	>50.05 Hz			
01-Jul-18	6.86	81.74	11.40	18.26	4:23	49.98
02-Jul-18	7.00	77.48	15.52	22.52	5:24	49.99
03-Jul-18	2.84	78.67	18.50	21.33	5:07	50.01
04-Jul-18	7.36	71.24	21.40	28.76	6:54	50.00
05-Jul-18	17.82	73.54	8.63	26.46	6:21	49.96
06-Jul-18	27.37	67.87	4.76	32.13	7:42	49.94
07-Jul-18	12.59	83.65	3.76	16.35	3:55	49.96
08-Jul-18	7.29	83.76	8.95	16.24	3:53	49.98
09-Jul-18	13.60	76.53	9.87	23.47	5:38	49.97
10-Jul-18	31.78	64.87	3.34	35.13	8:25	49.93
11-Jul-18	6.01	79.71	14.28	20.29	4:52	49.99
12-Jul-18	8.75	83.58	7.67	16.42	3:56	49.98
13-Jul-18	9.18	79.71	11.11	20.29	4:52	49.98
14-Jul-18	12.81	82.71	4.48	17.29	4:09	49.97
15-Jul-18	4.46	86.01	9.54	13.99	3:21	49.99
16-Jul-18	3.75	82.87	13.38	17.13	4:06	50.00
17-Jul-18	5.27	82.40	12.34	17.60	4:13	49.99
18-Jul-18	18.44	75.79	5.78	24.21	5:48	49.96
19-Jul-18	23.68	71.82	4.50	28.18	6:45	49.95
20-Jul-18	3.44	83.25	13.31	16.75	4:01	49.99
21-Jul-18	3.29	83.51	13.21	16.49	3:57	50.00
22-Jul-18	2.87	72.41	24.72	27.59	6:37	50.01
23-Jul-18	12.78	76.37	10.86	23.63	5:40	49.97
24-Jul-18	5.60	81.54	12.86	18.46	4:25	49.99
25-Jul-18	6.57	69.85	23.58	30.15	7:14	50.00
26-Jul-18	4.78	74.59	20.63	25.41	6:05	50.00
27-Jul-18	13.62	77.74	8.63	22.26	5:20	49.97
28-Jul-18	12.72	80.71	6.57	19.29	4:37	49.97
29-Jul-18	6.93	83.94	9.13	16.06	3:51	49.98
30-Jul-18	12.22	81.30	6.48	18.70	4:29	49.97
31-Jul-18	5.93	83.69	10.38	16.31	3:54	49.99
<b>July 2018</b>	<b>10.25</b>	<b>78.48</b>	<b>11.28</b>	<b>21.52</b>	<b>160:07</b>	<b>49.98</b>

\*FDI is defined as percentage of time for which frequency is outside IEGC band (49.9-50.05 Hz)



Standard Chart

- THRISSUR
  - RANCHI
  - NTPC-VINDHYACHAL
  - BALLIA
  - BASSI
  - BASSI(2)
  - BALIPARA
  - JABALPUR
  - RAMAGUNDAM
  - SLPR4
- Voltage 1 Angle NTPC-VINDHYACHAL

