

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

Date: 04-Nov-2022

System Reliability Indices Report for the month of October 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 | 16 | 4.00 | 0.54 |
| 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 | 6 | 1.50 | 0.20 |
| 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 OCTOBER 2022

Date of reporting:

04-Nov-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-Oct-22 | 4.55 | 76.41 | 19.04 | 23.59 | 5:39 | 50.01 |
| 02-Oct-22 | 0.08 | 80.08 | 19.84 | 19.92 | 4:46 | 50.02 |
| 03-Oct-22 | 2.42 | 86.37 | 11.22 | 13.63 | 3:16 | 50.00 |
| 04-Oct-22 | 4.84 | 84.83 | 10.34 | 15.17 | 3:38 | 50.00 |
| 05-Oct-22 | 6.10 | 80.67 | 13.23 | 19.33 | 4:38 | 50.00 |
| 06-Oct-22 | 3.59 | 82.42 | 13.99 | 17.58 | 4:13 | 50.01 |
| 07-Oct-22 | 0.20 | 83.85 | 15.95 | 16.15 | 3:52 | 50.01 |
| 08-Oct-22 | 8.54 | 79.19 | 12.27 | 20.81 | 4:59 | 49.99 |
| 09-Oct-22 | 1.47 | 83.23 | 15.30 | 16.77 | 4:01 | 50.01 |
| 10-Oct-22 | 7.56 | 79.09 | 13.36 | 20.91 | 5:01 | 50.00 |
| 11-Oct-22 | 1.34 | 78.65 | 20.01 | 21.35 | 5:07 | 50.02 |
| 12-Oct-22 | 1.96 | 77.01 | 21.03 | 22.99 | 5:31 | 50.02 |
| 13-Oct-22 | 3.44 | 77.58 | 18.98 | 22.42 | 5:22 | 50.01 |
| 14-Oct-22 | 2.80 | 71.16 | 26.04 | 28.84 | 6:55 | 50.02 |
| 15-Oct-22 | 5.39 | 73.91 | 20.69 | 26.09 | 6:15 | 50.01 |
| 16-Oct-22 | 1.69 | 81.16 | 17.15 | 18.84 | 4:31 | 50.01 |
| 17-Oct-22 | 10.45 | 78.39 | 11.16 | 21.61 | 5:11 | 49.99 |
| 18-Oct-22 | 2.75 | 83.44 | 13.81 | 16.56 | 3:58 | 50.01 |
| 19-Oct-22 | 4.24 | 83.30 | 12.47 | 16.70 | 4:00 | 50.00 |
| 20-Oct-22 | 0.10 | 81.99 | 17.91 | 18.01 | 4:19 | 50.02 |
| 21-Oct-22 | 3.39 | 76.19 | 20.42 | 23.81 | 5:42 | 50.01 |
| 22-Oct-22 | 0.54 | 82.27 | 17.19 | 17.73 | 4:15 | 50.01 |
| 23-Oct-22 | 3.10 | 79.94 | 16.96 | 20.06 | 4:48 | 50.01 |
| 24-Oct-22 | 4.33 | 59.05 | 36.62 | 40.95 | 9:49 | 50.03 |
| 25-Oct-22 | 5.27 | 59.97 | 34.77 | 40.03 | 9:36 | 50.03 |
| 26-Oct-22 | 13.39 | 67.13 | 19.48 | 32.87 | 7:53 | 49.99 |
| 27-Oct-22 | 14.56 | 79.34 | 6.10 | 20.66 | 4:57 | 49.97 |
| 28-Oct-22 | 18.59 | 72.40 | 9.02 | 27.60 | 6:37 | 49.97 |
| 29-Oct-22 | 8.60 | 82.16 | 9.24 | 17.84 | 4:16 | 49.99 |
| 30-Oct-22 | 2.74 | 83.43 | 13.83 | 16.57 | 3:58 | 50.01 |
| 31-Oct-22 | 3.14 | 81.64 | 15.22 | 18.36 | 4:24 | 50.00 |
| October 2022 | 4.88 | 78.27 | 16.86 | 21.73 | 161:42 | 50.01 |

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

विद्युत विभव रूपरेखा माह - अक्टूबर 2022

VOLTAGE PROFILE - October 2022

Date of reporting: 04-Nov-22

| 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.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 | 745 | 774 |
| 2 | | दालिपली DALLIPALI | 0% | 100% | 0% | 0% | 0 | 791 | 761 | 777 |
| 3 | | गया GAYA | 0% | 100% | 0% | 0% | 0 | 783 | 749 | 768 |
| 4 | | जीरत JEERAT | 0% | 100% | 0% | 0% | 0 | 789 | 743 | 762 |
| 5 | | झारसुगड़ा JHARSUGUDA | 0% | 100% | 0% | 0% | 1 | 802 | 766 | 787 |
| 6 | | मिदनापुर MEDINIPUR | 0% | 100% | 0% | 0% | 0 | 790 | 756 | 772 |
| 7 | | रांची RANCHI | 0% | 100% | 0% | 0% | 0 | 797 | 769 | 784 |
| 8 | | सासाराम SASARAM | 0% | 100% | 0% | 0% | 0 | 785 | 743 | 763 |
| 1 | उत्तरी क्षेत्र NR | आगरा AGRA | 0% | 100% | 0% | 0% | 0 | 803 | 754 | 780 |
| 2 | | आगरा (फतेहाबाद) AGRA (FATEHABAD) | 0% | 100% | 0% | 0% | 0 | 794 | 750 | 776 |
| 3 | | अजमेर AJMER | 0% | 100% | 0% | 0% | 0 | 801 | 753 | 782 |
| 4 | | अलीगढ़ ALIGARH | 0% | 100% | 0% | 0% | 0 | 798 | 750 | 777 |
| 5 | | अनपरा सी ANPARA-C | 0% | 100% | 0% | 0% | 0 | 773 | 754 | 764 |
| 6 | | अनपरा डी ANPARA-D | 0% | 100% | 0% | 0% | 0 | 774 | 752 | 762 |
| 7 | | अंता ANTA | 0% | 100% | 0% | 0% | 0 | 792 | 762 | 779 |
| 8 | | बलिया BALLIA | 0% | 100% | 0% | 0% | 0 | 789 | 747 | 771 |
| 9 | | बारा BARA | 0% | 100% | 0% | 0% | 0 | 782 | 756 | 769 |
| 10 | | भाड़ला BHADLA | 0% | 100% | 0% | 0% | 2 | 807 | 739 | 774 |
| 11 | | भाड़ला-2 BHADLA-2 | 0% | 100% | 0% | 0% | 3 | 812 | 743 | 775 |
| 12 | | भिवानी BHIWANI | 0% | 100% | 0% | 0% | 0 | 801 | 755 | 781 |
| 13 | | बीकानेर BIKANER | 0% | 99% | 1% | 1% | 4 | 809 | 744 | 776 |
| 14 | | बरेली BAREILLY | 0% | 100% | 0% | 0% | 2 | 803 | 747 | 779 |
| 15 | | चित्तौड़गढ़ CHITTORGARH | 0% | 100% | 0% | 0% | 0 | 800 | 747 | 781 |
| 16 | | फतेहगढ़-2 FATEHGARH-2 | 0% | 100% | 0% | 0% | 1 | 809 | 731 | 774 |
| 17 | | फतेहपुर FATEHPUR | 0% | 100% | 0% | 0% | 0 | 795 | 735 | 767 |
| 18 | | ग्रेटर नोएडा GREATER NOIDA | 0% | 99% | 1% | 1% | 5 | 804 | 758 | 784 |
| 19 | | हापुड़ HAPUR | 0% | 100% | 0% | 0% | 2 | 806 | 728 | 780 |
| 20 | | जवाहरपुर JAWAHARPUR | 0% | 0% | 0% | 0% | 0 | 0 | 0 | 0 |
| 21 | | झटिकरा JHATIKARA | 0% | 100% | 0% | 0% | 0 | 797 | 748 | 776 |
| 22 | | कानपुर जीआईएस KANPUR GIS | 0% | 100% | 0% | 0% | 0 | 792 | 751 | 771 |
| 23 | | खेतीरि KHETRI | 0% | 100% | 0% | 0% | 0 | 801 | 747 | 778 |
| 24 | | कोटेश्वर KOTESHWAR | 0% | 100% | 0% | 0% | 0 | 794 | 744 | 771 |
| 25 | | ललितपुर LALITPUR | 0% | 100% | 0% | 0% | 2 | 814 | 705 | 764 |
| 26 | | लखनऊ LUCKNOW | 0% | 100% | 0% | 0% | 0 | 796 | 743 | 774 |
| 27 | | मैनपुरी MAINPURI | 0% | 100% | 0% | 0% | 1 | 804 | 756 | 782 |
| 28 | | मेरठ MEERUT | 0% | 100% | 0% | 0% | 3 | 804 | 752 | 781 |
| 29 | | मोगा MOGA | 0% | 100% | 0% | 0% | 2 | 807 | 726 | 774 |
| 30 | | ओबरा सी OBRA C | 0% | 0% | 0% | 0% | 0 | 0 | 0 | 0 |
| 31 | | उरई ORAI | 0% | 99% | 1% | 1% | 6 | 807 | 760 | 784 |
| 32 | | फागी PHAGI | 0% | 100% | 0% | 0% | 0 | 800 | 751 | 781 |
| 33 | | उन्नाव UNNAO | 0% | 100% | 0% | 0% | 0 | 785 | 734 | 761 |
| 34 | | वाराणसी VARANASI | 0% | 100% | 0% | 0% | 0 | 793 | 758 | 776 |
| 1 | पश्चिमी क्षेत्र WR | अकोला AKOLA | 0% | 100% | 0% | 0% | 0 | 794 | 747 | 775 |
| 2 | | औरंगाबाद AURANGABAD | 0% | 100% | 0% | 0% | 0 | 795 | 746 | 775 |
| 3 | | भोपाल (बीडीटीसीएल) BHOPAL (BDTCL) | 0% | 100% | 0% | 0% | 0 | 795 | 744 | 771 |
| 4 | | भुज BHUJ | 0% | 100% | 0% | 0% | 0 | 794 | 738 | 771 |
| 5 | | भुज-2 BHUJ-II | 0% | 100% | 0% | 0% | 0 | 793 | 745 | 772 |
| 6 | | बिलासपुर BILASPUR | 0% | 100% | 0% | 0% | 0 | 788 | 758 | 775 |
| 7 | | बीना BINA | 0% | 100% | 0% | 0% | 1 | 801 | 760 | 782 |
| 8 | | बनसकला BANASKANTHA | 0% | 99% | 1% | 1% | 4 | 803 | 751 | 781 |
| 9 | | चांपा CHAMPA | 0% | 97% | 3% | 3% | 25 | 806 | 769 | 791 |
| 10 | | धुले (बीडीटीसीएल) DHULE (BDTCL) | 0% | 100% | 0% | 0% | 0 | 798 | 746 | 774 |
| 11 | | धर्मजयगढ़ DHARAMJAGARH | 0% | 100% | 0% | 0% | 0 | 787 | 758 | 773 |
| 12 | | रायपुर पूलिंग RAIPUR POOLING | 0% | 100% | 0% | 0% | 0 | 796 | 756 | 780 |
| 13 | | एकतुनी EKTUNI | 0% | 100% | 0% | 0% | 0 | 797 | 744 | 773 |
| 14 | | गदरवाड़ा GADARWARA | 0% | 99% | 1% | 1% | 8 | 803 | 764 | 785 |
| 15 | | ग्वालियर GWALIOR | 0% | 100% | 0% | 0% | 3 | 803 | 750 | 783 |
| 16 | | इंदौर INDORE | 0% | 100% | 0% | 0% | 0 | 796 | 742 | 771 |
| 17 | | जबलपुर JABALPUR | 0% | 98% | 2% | 2% | 11 | 804 | 765 | 786 |
| 18 | | खंडवा KHANDWA | 0% | 100% | 0% | 0% | 0 | 797 | 743 | 773 |
| 19 | | कोरडी KORADI | 0% | 100% | 0% | 0% | 0 | 784 | 747 | 768 |
| 20 | | लकाडिया LAKADIYA | 0% | 99% | 1% | 1% | 6 | 805 | 732 | 785 |
| 21 | | रायगढ़ पूलिंग RAIGARH POOLING | 0% | 100% | 0% | 0% | 0 | 799 | 768 | 786 |
| 22 | | पडघे PADGHE | 0% | 99% | 1% | 1% | 10 | 808 | 741 | 777 |
| 23 | | परली PARLI | 0% | 98% | 2% | 2% | 15 | 805 | 758 | 784 |
| 24 | | पुणे PUNE | 0% | 99% | 0% | 0% | 0 | 800 | 737 | 776 |
| 25 | | राजनन्दगांव RAJNANDGAON | 0% | 97% | 3% | 3% | 24 | 807 | 763 | 789 |
| 26 | | सासन SASAN | 0% | 100% | 0% | 0% | 0 | 793 | 766 | 779 |
| 27 | | सतना SATNA | 0% | 99% | 1% | 1% | 5 | 803 | 765 | 784 |
| 28 | | सिवनी SEONI | 0% | 100% | 0% | 0% | 0 | 802 | 756 | 779 |
| 29 | | सीपत SIPAT | 0% | 100% | 0% | 0% | 0 | 788 | 763 | 776 |
| 30 | | सोलापुर SOLAPUR | 0% | 100% | 0% | 0% | 2 | 802 | 757 | 782 |
| 31 | | तिरुछा TIRORA | 0% | 100% | 0% | 0% | 0 | 777 | 745 | 765 |
| 32 | | तामनार TAMNAR | 0% | 100% | 0% | 0% | 0 | 800 | 768 | 786 |
| 33 | | वडोदरा VADODARA | 0% | 100% | 0% | 0% | 1 | 801 | 737 | 774 |
| 34 | | विंध्याचल पूलिंग VINDHYACHAL PS | 0% | 100% | 0% | 0% | 0 | 798 | 769 | 782 |
| 35 | | वर्धा WARDHA | 0% | 99% | 1% | 1% | 5 | 805 | 749 | 782 |
| 36 | | वरोरा WARORA | 0% | 100% | 0% | 0% | 1 | 802 | 755 | 783 |
| 1 | दक्षिणी क्षेत्र SR | कडुपा CUDDAPAH | 0% | 93% | 7% | 7% | 54 | 809 | 757 | 785 |
| 2 | | चिल्कलुरिपेट CHILAKALURIPETA | 0% | 99% | 1% | 1% | 9 | 803 | 742 | 772 |
| 3 | | कर्नूल KURNOOL | 0% | 100% | 0% | 0% | 0 | 797 | 744 | 775 |
| 4 | | महेश्वरम MAHESHWARAM | 0% | 100% | 0% | 0% | 0 | 801 | 744 | 777 |
| 5 | | निज़ामाबाद NIZAMABAD | 0% | 90% | 10% | 10% | 73 | 811 | 756 | 788 |
| 6 | | नेल्लूर पूलिंग NELLORE PS | 0% | 100% | 0% | 0% | 0 | 794 | 747 | 774 |
| 7 | | रायचूर RAICHUR | 0% | 100% | 0% | 0% | 0 | 798 | 748 | 778 |
| 8 | | श्रीकाकुलम SRIKAKULAM | 0% | 99% | 1% | 1% | 10 | 804 | 742 | 784 |
| 9 | | तिरुवलम THIRUVALEM | 0% | 100% | 0% | 0% | 0 | 795 | 736 | 765 |
| 10 | | वेमगिरी VEMAGIRI | 0% | 97% | 3% | 3% | 24 | 810 | 741 | 780 |
| 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 | 396 | 405 |
| 3 | | बोंगाईगांव BONGAIGAON (400 kV) | 0% | 100% | 0% | 0% | 0 | 418 | 400 | 409 |
| 4 | | बोंगाईगांव टीपीएस BONGAIGAON TPS (400 kV) | 0% | 99% | 1% | 1% | 9 | 422 | 404 | 413 |
| 5 | | इम्फाल IMPHAL (400 kV) | 0% | 100% | 0% | 0% | 0 | 419 | 397 | 406 |
| 6 | | बर्निहाट BYRNIHAT (400 kV) | 0% | 0% | 0% | 0% | 0 | 0 | 0 | 0 |
| 7 | | कामेंग KAMENG (400 kV) | 0% | 100% | 0% | 0% | 0 | 412 | 394 | 403 |
| 8 | | अज़ारा AZARA (400 kV) | 0% | 100% | 0% | 0% | 0 | 413 | 399 | 408 |
| 9 | | मिसा MISA (400 kV) | 0% | 100% | 0% | 0% | 0 | 417 | 393 | 404 |
| 10 | | न्यू मरियानी NEW MARIANI (400 kV) | 0% | 100% | 0% | 0% | 0 | 420 | 392 | 405 |
| 11 | | न्यू कोहिमा NEW KOHIMA (400 kV) | 0% | 100% | 0% | 0% | 0 | 419 | 393 | 406 |
| 12 | | पालाटाना PALATANA (400 kV) | 0% | 100% | 0% | 0% | 0 | 413 | 400 | 407 |
| 13 | | पूर्वकचनबारी PK BARI (400 kV) | 0% | 100% | 0% | 0% | 0 | 412 | 394 | 404 |
| 14 | | रंगानदी RANGANADI (400 kV) | 0% | 0% | 0% | 0% | 0 | 0 | 0 | 0 |
| 15 | | सिलचर SILCHAR (400 kV) | 0% | 100% | 0% | 0% | 0 | 418 | 398 | 408 |
| 16 | | सुबानसिरी SUBANSIRI (400 kV) | 0% | 0% | 0% | 0% | 0 | 0 | 0 | 0 |
| 17 | | सुज्यमणिनगर SURJYAMANINAGAR (400 kV) | 0% | 100% | 0% | 0% | 0 | 410 | 394 | 402 |
| 18 | | थोबाल THOUBAL (400 kV) | 0% | 100% | 0% | 0% | 0 | 410 | 379 | 396 |

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

Monthly Angular Spread w.r.to Vindhyachal_Oct-2022

- 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 UNNAO_UP VINDP_PG

