

**GRID CONTROLLER OF INDIA LIMITED  
NATIONAL LOAD DESPATCH CENTRE  
NEW DELHI**

Date: **05-Jan-2024**

**System Reliability Indices Report for the month of December 2023**

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

S.No.	Corridor	Number of Blocks Violated	Number of Hours Violated	%Violation
1	WR-NR	12	3.00	0.40
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	1	0.25	0.03
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 DECEMBER 2023

Date of reporting:

05-Jan-24

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-Dec-23	10.45	73.60	15.95	26.40	6:20	49.99
02-Dec-23	5.35	74.31	20.35	25.69	6:10	50.00
03-Dec-23	5.38	77.01	17.60	22.99	5:31	50.00
04-Dec-23	4.12	71.35	24.53	28.65	6:52	50.01
05-Dec-23	9.26	72.41	18.33	27.59	6:37	49.99
06-Dec-23	9.39	80.07	10.54	19.93	4:47	49.98
07-Dec-23	13.14	68.90	17.96	31.10	7:27	49.99
08-Dec-23	8.66	79.93	11.41	20.07	4:49	49.99
09-Dec-23	5.17	82.48	12.35	17.52	4:12	50.00
10-Dec-23	5.16	82.72	12.12	17.28	4:08	49.99
11-Dec-23	3.59	76.82	19.59	23.18	5:33	50.00
12-Dec-23	6.78	76.77	16.45	23.23	5:34	49.99
13-Dec-23	6.27	76.99	16.74	23.01	5:31	50.00
14-Dec-23	8.22	76.92	14.86	23.08	5:32	49.99
15-Dec-23	14.11	66.89	19.00	33.11	7:56	49.98
16-Dec-23	5.20	72.62	22.19	27.39	6:34	50.01
17-Dec-23	2.60	66.70	30.69	33.30	7:59	50.03
18-Dec-23	10.39	69.25	20.36	30.75	7:22	49.99
19-Dec-23	7.74	68.69	23.56	31.31	7:30	50.00
20-Dec-23	8.04	73.29	18.67	26.71	6:24	50.00
21-Dec-23	12.80	75.07	12.13	24.93	5:59	49.98
22-Dec-23	15.51	74.73	9.76	25.27	6:03	49.97
23-Dec-23	5.34	80.41	14.26	19.59	4:42	50.00
24-Dec-23	8.26	74.62	17.12	25.38	6:05	49.99
25-Dec-23	15.87	72.33	11.81	27.67	6:38	49.97
26-Dec-23	2.55	83.31	14.14	16.69	4:00	50.00
27-Dec-23	3.62	78.50	17.88	21.50	5:09	50.01
28-Dec-23	9.76	76.39	13.85	23.61	5:40	49.99
29-Dec-23	3.83	81.53	14.64	18.47	4:26	50.00
30-Dec-23	13.28	72.16	14.56	27.84	6:40	49.98
31-Dec-23	2.89	74.62	22.49	25.38	6:05	50.01
<b>December 2023</b>	<b>7.83</b>	<b>75.21</b>	<b>16.96</b>	<b>24.79</b>	<b>184:28</b>	<b>49.99</b>

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



# Monthly Angular spread w.r.to Vindhyachal\_Dec-2023

AGRA\_PG ALIPU\_PG BACHU\_PG BONGA\_PG CHDPR\_MH DURG4\_WB FARAK\_PG GIJKA\_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 VINDP\_PG

