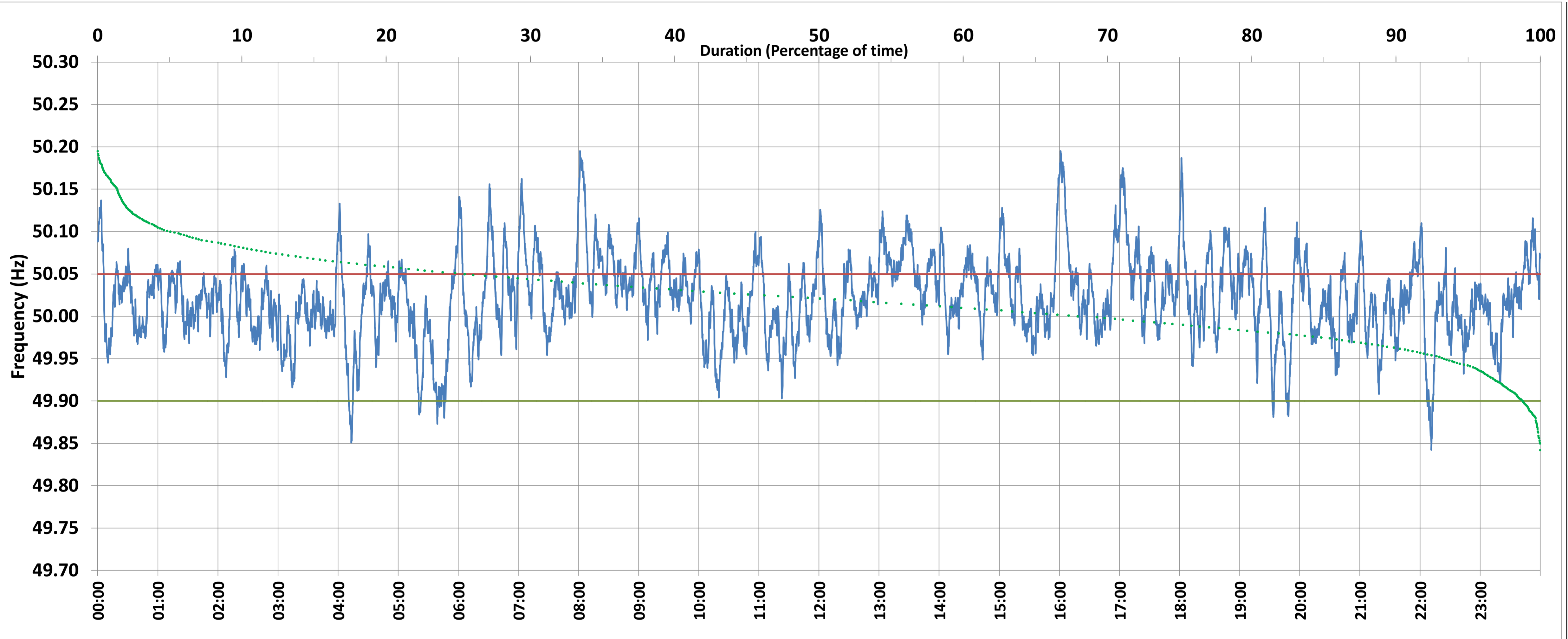


POWER SYSTEM OPERATION CORPORATION LIMITED

NATIONAL LOAD DESPATCH CENTRE, NEW DELHI



Frequency profile for 24-Jan-2021 (Sunday)



| | | | | | | | | | | | | | | | | | | |
|-------|--------|--------|-----------|-----------|-----------|-----------|-----------|-------------|-----------|-------------|------------|-------|--------|--------|-------|--------|-------------|-------------|
| <49.7 | <49.90 | <49.97 | 49.7-49.8 | 49.8-49.9 | 49.9-50.0 | 50.0-50.1 | 50.1-50.2 | 49.90-50.05 | 49.7-50.2 | 49.97-50.03 | 50.05-50.1 | >50 | >50.03 | >50.05 | >50.2 | <49.95 | 49.95-50.05 | 49.90-49.95 |
| 0.00 | 1.19 | 12.44 | 0.00 | 1.19 | 29.56 | 63.94 | 5.31 | 73.39 | 100.00 | 46.35 | 20.97 | 67.93 | 41.20 | 25.42 | 0.00 | 6.50 | 68.08 | 5.31 |

| | | | | |
|----------------------------|------------------------------------|-----------------------------|---------------|-----------|
| Average Frequency : 50.021 | Frequency Variation Index : 0.0285 | Standard Deviation : 0.0490 | Mileage: 47.4 | FDI: 26.6 |
|----------------------------|------------------------------------|-----------------------------|---------------|-----------|

| Instantaneous Frequency | | |
|-------------------------|--------|----------|
| Max | 50.195 | 8:01:30 |
| Min | 49.842 | 22:11:20 |

| 15 minute Average Frequency | | |
|-----------------------------|--------|----------|
| Max | 50.107 | 16:15:00 |
| Min | 49.929 | 5:45:00 |

| No. of excursions | |
|-------------------|-----|
| above 50.03 Hz | 175 |
| below 49.97 Hz | 90 |
| above 50.00 Hz | 136 |
| below 50.00 Hz | 137 |

| Average time freq per excursion remains | |
|---|---------|
| below 49.97 | 0:01:59 |
| above 50.03 | 0:03:23 |

| | |
|---|---------|
| No. of hours freq outside 49.9-50.05 Hz | 6:23:10 |
|---|---------|

Source : BONGAIGAON:Frequency 10 Sec. (8640 samples)