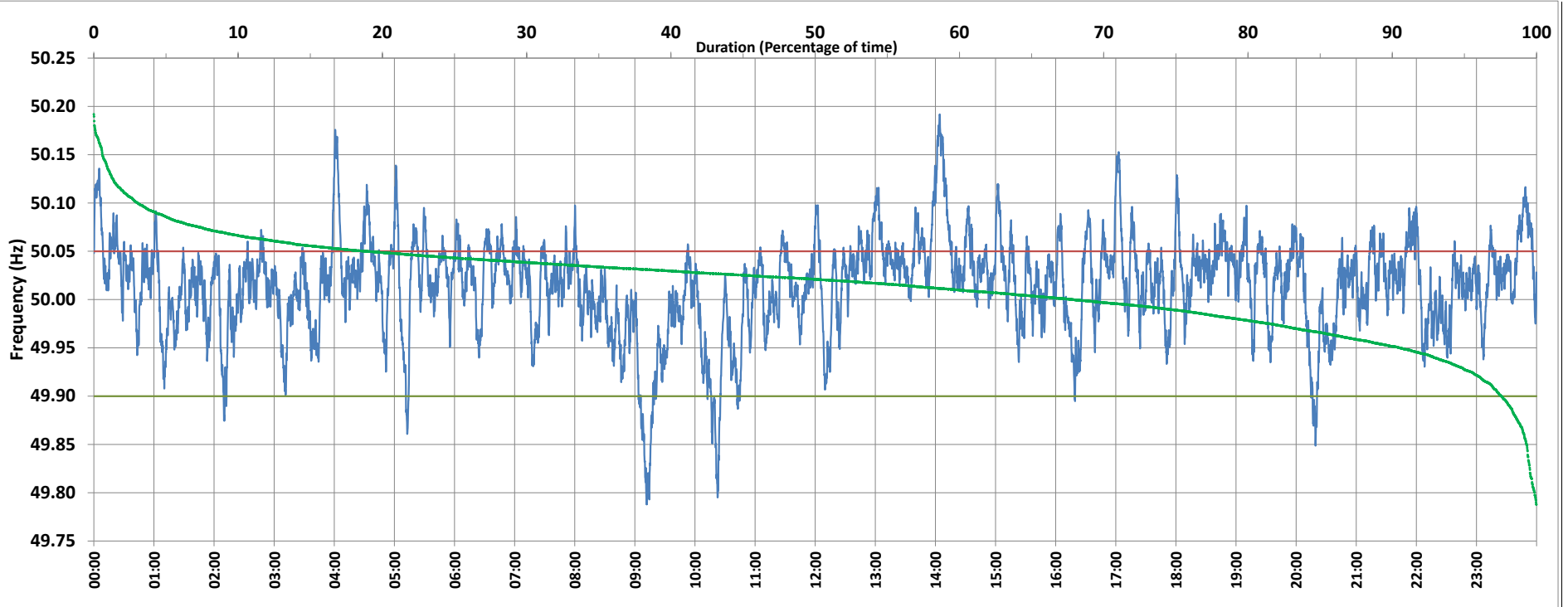


POWER SYSTEM OPERATION CORPORATION LIMITED

NATIONAL LOAD DESPATCH CENTRE, NEW DELHI



Frequency profile for 13-Nov-2020 (Friday)



| | | | | | | | | | | | | | | | | | | |
|-------|--------|--------|-----------|-----------|-----------|-----------|-----------|-------------|-----------|-------------|------------|-------|--------|--------|-------|--------|-------------|-------------|
| <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 | 2.43 | 16.67 | 0.13 | 2.30 | 29.65 | 64.86 | 3.06 | 78.73 | 100.00 | 43.80 | 15.88 | 67.85 | 39.54 | 18.84 | 0.00 | 9.46 | 71.70 | 7.03 |

| | | | | |
|----------------------------|------------------------------------|-----------------------------|---------------|-----------|
| Average Frequency : 50.014 | Frequency Variation Index : 0.0266 | Standard Deviation : 0.0496 | Mileage: 49.4 | FDI: 21.3 |
|----------------------------|------------------------------------|-----------------------------|---------------|-----------|

| Instantaneous Frequency | | |
|-------------------------|--------|----------|
| Max | 50.192 | 14:04:10 |
| Min | 49.788 | 9:11:40 |

| 15 minute Average Frequency | | |
|-----------------------------|--------|----------|
| Max | 50.128 | 14:15:00 |
| Min | 49.874 | 9:15:00 |

| No. of excursions | |
|-------------------|-----|
| above 50.03 Hz | 278 |
| below 49.97 Hz | 93 |
| above 50.00 Hz | 182 |
| below 50.00 Hz | 180 |

| Average time freq per excursion remains | |
|---|---------|
| below 49.97 | 0:02:35 |
| above 50.03 | 0:02:03 |

| | |
|---|---------|
| No. of hours freq outside 49.9-50.05 Hz | 5:06:20 |
|---|---------|

Source : NTPC-VINDHYACHAL:Frequency 10 Sec. (8640 samples)