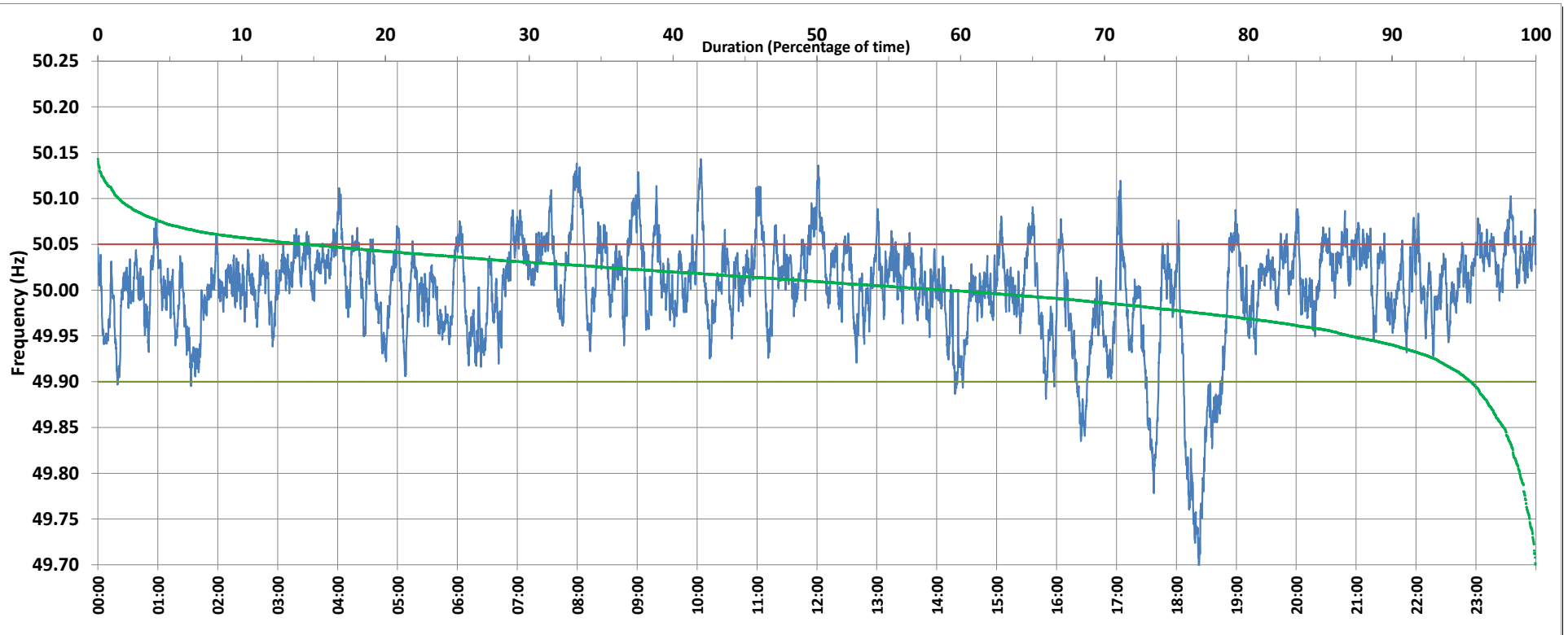


POWER SYSTEM OPERATION CORPORATION LIMITED

NATIONAL LOAD DESPATCH CENTRE, NEW DELHI



Frequency profile for 10-Oct-2019 (Thursday)



| | | | | | | | | | | | | | | | | | | |
|-------|--------|--------|-----------|-----------|-----------|-----------|-----------|-------------|-----------|-------------|------------|-------|--------|--------|-------|--------|-------------|-------------|
| <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 |
| 0.02 | 4.51 | 20.65 | 1.11 | 3.38 | 36.47 | 57.56 | 1.46 | 80.95 | 99.98 | 48.97 | 13.11 | 58.78 | 30.38 | 14.54 | 0.00 | 12.89 | 72.57 | 8.38 |

| | | | | |
|----------------------------|------------------------------------|-----------------------------|---------------|-----------|
| Average Frequency : 50.002 | Frequency Variation Index : 0.0306 | Standard Deviation : 0.0552 | Mileage: 50.9 | FDI: 19.1 |
|----------------------------|------------------------------------|-----------------------------|---------------|-----------|

| Instantaneous Frequency | | |
|-------------------------|--------|----------|
| Max | 50.143 | 10:03:40 |
| Min | 49.698 | 18:22:30 |

| 15 minute Average Frequency | | |
|-----------------------------|--------|----------|
| Max | 50.057 | 8:00:00 |
| Min | 49.764 | 18:30:00 |

| No. of excursions | |
|-------------------|-----|
| above 50.03 Hz | 223 |
| below 49.97 Hz | 127 |
| above 50.00 Hz | 236 |
| below 50.00 Hz | 237 |

| Average time freq per excursion remains | |
|---|---------|
| below 49.97 | 0:02:20 |
| above 50.03 | 0:01:58 |

| | |
|---|---------|
| No. of hours freq outside 49.9-50.05 Hz | 4:34:20 |
|---|---------|

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