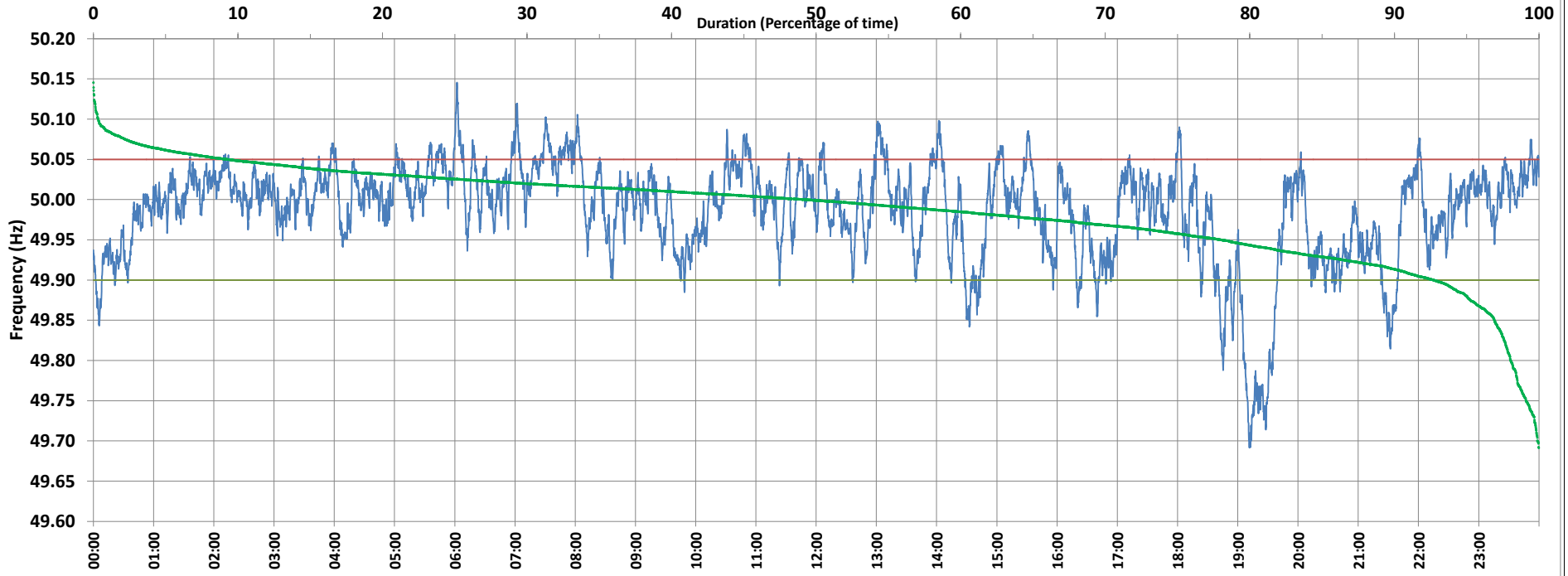


POWER SYSTEM OPERATION CORPORATION LIMITED

NATIONAL LOAD DESPATCH CENTRE, NEW DELHI



Frequency profile for 03-Sep-2020 (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 |
| 0.08 | 7.27 | 31.03 | 1.86 | 5.32 | 43.41 | 48.98 | 0.34 | 83.48 | 99.92 | 47.60 | 8.99 | 49.25 | 21.37 | 9.25 | 0.00 | 10.00 | 68.81 | 2.73 |

| | | | | |
|----------------------------|------------------------------------|-----------------------------|---------------|-----------|
| Average Frequency : 49.986 | Frequency Variation Index : 0.0386 | Standard Deviation : 0.0605 | Mileage: 42.7 | FDI: 16.5 |
|----------------------------|------------------------------------|-----------------------------|---------------|-----------|

| Instantaneous Frequency | | |
|-------------------------|--------|----------|
| Max | 50.145 | 6:02:10 |
| Min | 49.691 | 19:11:30 |

| 15 minute Average Frequency | | |
|-----------------------------|--------|----------|
| Max | 50.060 | 8:00:00 |
| Min | 49.751 | 19:30:00 |

| No. of excursions | |
|-------------------|-----|
| above 50.03 Hz | 163 |
| below 49.97 Hz | 118 |
| above 50.00 Hz | 174 |
| below 50.00 Hz | 174 |

| Average time freq per excursion remains | |
|-----------------------------------------|---------|
| below 49.97 | 0:03:47 |
| above 50.03 | 0:01:53 |

| | |
|-----------------------------------------|---------|
| No. of hours freq outside 49.9-50.05 Hz | 3:57:50 |
|-----------------------------------------|---------|

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