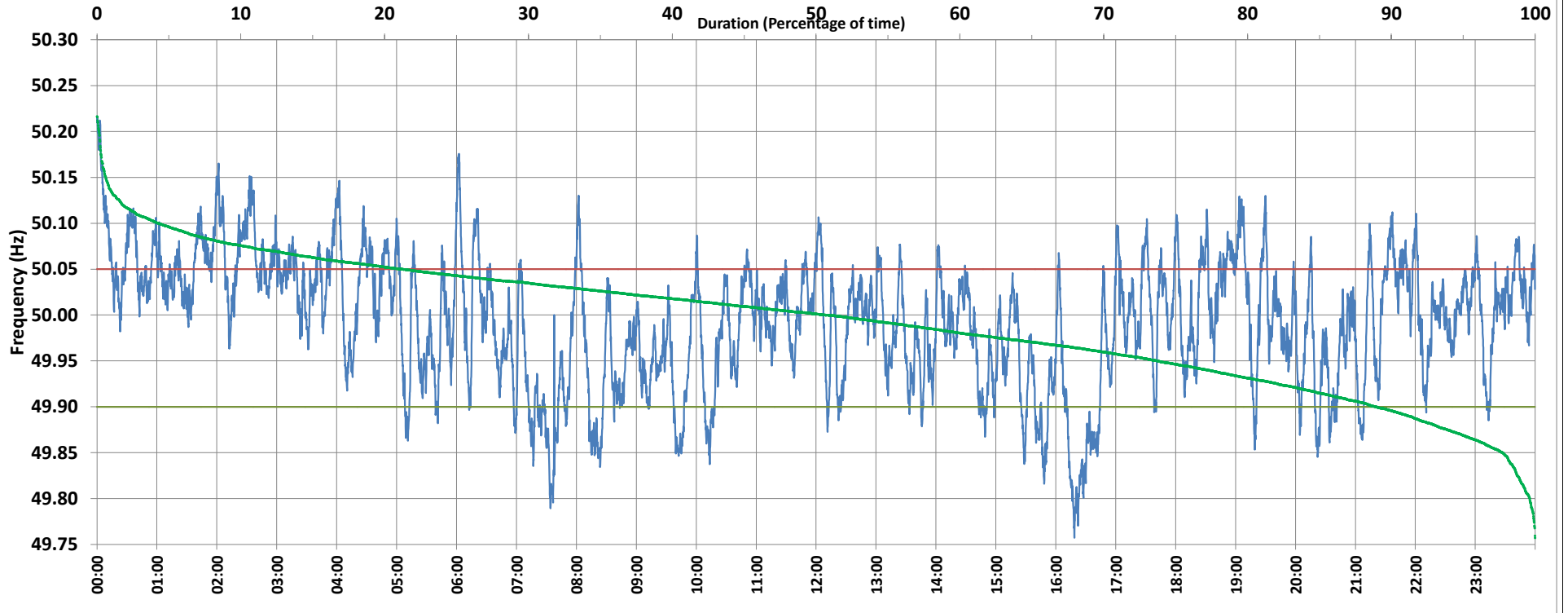


POWER SYSTEM OPERATION CORPORATION LIMITED

NATIONAL LOAD DESPATCH CENTRE, NEW DELHI



Frequency profile for 02-Jan-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 |
| 0.00 | 11.04 | 34.59 | 0.38 | 10.66 | 38.11 | 46.55 | 4.14 | 67.70 | 99.85 | 32.70 | 16.99 | 50.67 | 32.71 | 21.26 | 0.15 | 26.25 | 52.49 | 15.21 |

| | | | | |
|----------------------------|------------------------------------|-----------------------------|---------------|-----------|
| Average Frequency : 49.993 | Frequency Variation Index : 0.0491 | Standard Deviation : 0.0698 | Mileage: 51.1 | FDI: 32.3 |
|----------------------------|------------------------------------|-----------------------------|---------------|-----------|

| Instantaneous Frequency | | |
|-------------------------|--------|----------|
| Max | 50.217 | 0:00:20 |
| Min | 49.757 | 16:18:30 |

| 15 minute Average Frequency | | |
|-----------------------------|--------|----------|
| Max | 50.132 | 0:15:00 |
| Min | 49.808 | 16:30:00 |

| No. of excursions | |
|-------------------|-----|
| above 50.03 Hz | 154 |
| below 49.97 Hz | 124 |
| above 50.00 Hz | 140 |
| below 50.00 Hz | 138 |

| Average time freq per excursion remains | |
|---|---------|
| below 49.97 | 0:04:01 |
| above 50.03 | 0:03:04 |

| | |
|---|---------|
| No. of hours freq outside 49.9-50.05 Hz | 7:45:10 |
|---|---------|

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