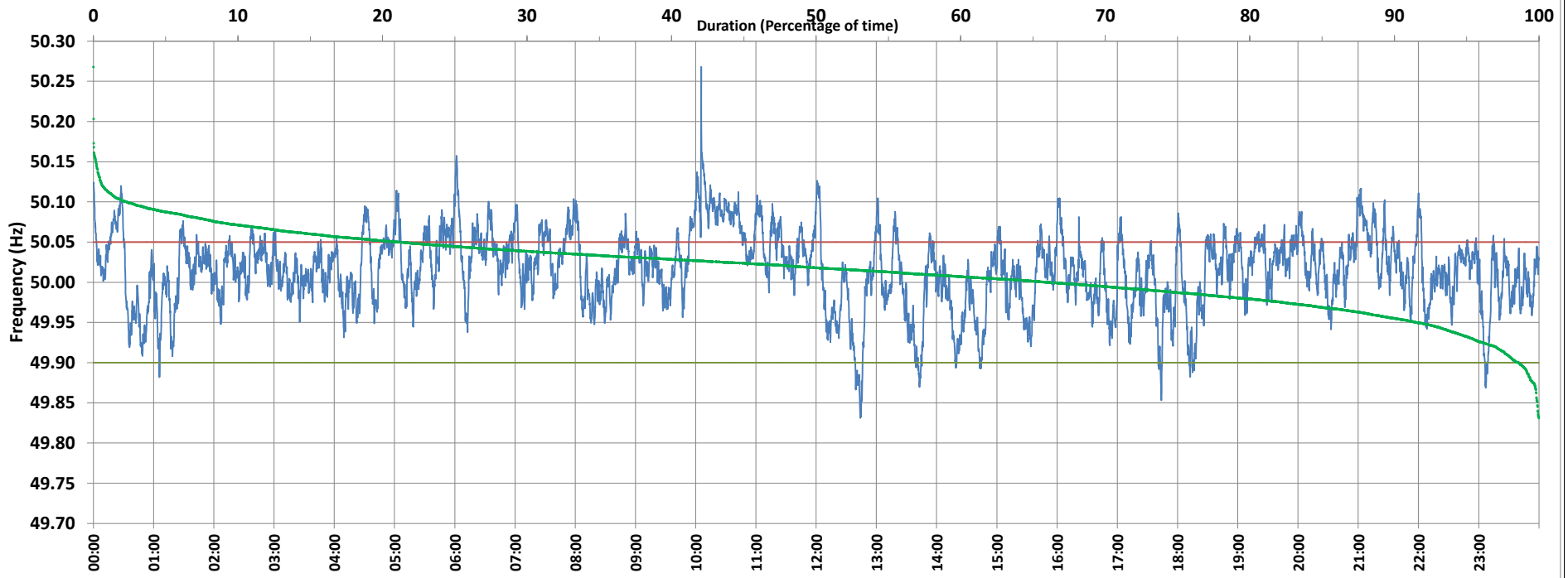


POWER SYSTEM OPERATION CORPORATION LIMITED

NATIONAL LOAD DESPATCH CENTRE, NEW DELHI



Frequency profile for 12-Oct-2020 (Monday)



| | | | | | | | | | | | | | | | | | | |
|-------|--------|--------|-----------|-----------|-----------|-----------|-----------|-------------|-----------|-------------|------------|-------|--------|--------|-------|--------|-------------|-------------|
| <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 | 1.40 | 15.47 | 0.00 | 1.40 | 32.59 | 63.68 | 2.30 | 77.50 | 99.98 | 45.93 | 18.89 | 65.94 | 38.60 | 21.10 | 0.02 | 8.45 | 70.45 | 7.05 |

| | | | | |
|----------------------------|------------------------------------|-----------------------------|---------------|-----------|
| Average Frequency : 50.015 | Frequency Variation Index : 0.0235 | Standard Deviation : 0.0461 | Mileage: 47.6 | FDI: 22.5 |
|----------------------------|------------------------------------|-----------------------------|---------------|-----------|

| Instantaneous Frequency | | |
|-------------------------|--------|----------|
| Max | 50.268 | 10:05:20 |
| Min | 49.831 | 12:44:00 |

| 15 minute Average Frequency | | |
|-----------------------------|--------|----------|
| Max | 50.116 | 10:15:00 |
| Min | 49.914 | 12:45:00 |

| No. of excursions | |
|-------------------|-----|
| above 50.03 Hz | 221 |
| below 49.97 Hz | 107 |
| above 50.00 Hz | 199 |
| below 50.00 Hz | 198 |

| Average time freq per excursion remains | |
|---|---------|
| below 49.97 | 0:02:05 |
| above 50.03 | 0:02:31 |

| | |
|---|---------|
| No. of hours freq outside 49.9-50.05 Hz | 5:24:00 |
|---|---------|

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