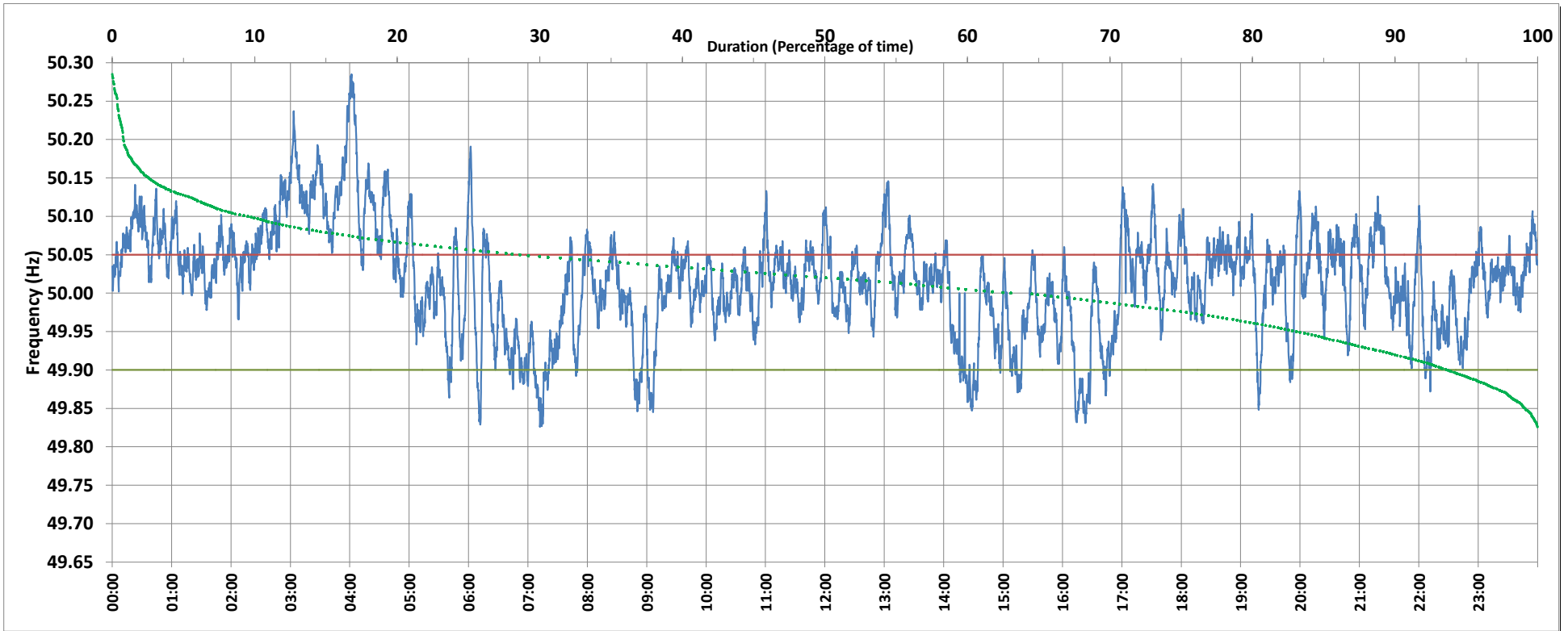


POWER SYSTEM OPERATION CORPORATION LIMITED

NATIONAL LOAD DESPATCH CENTRE, NEW DELHI



Frequency profile for 13-Dec-2019 (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 | 6.18 | 22.43 | 0.00 | 6.18 | 29.31 | 54.76 | 8.97 | 65.22 | 99.21 | 34.79 | 19.69 | 63.02 | 42.78 | 28.60 | 0.79 | 16.68 | 54.72 | 10.50 |

| | | | | |
|----------------------------|------------------------------------|-----------------------------|---------------|-----------|
| Average Frequency : 50.016 | Frequency Variation Index : 0.0505 | Standard Deviation : 0.0692 | Mileage: 52.8 | FDI: 34.8 |
|----------------------------|------------------------------------|-----------------------------|---------------|-----------|

| Instantaneous Frequency | | |
|-------------------------|--------|---------|
| Max | 50.285 | 4:01:40 |
| Min | 49.826 | 7:12:10 |

| 15 minute Average Frequency | | |
|-----------------------------|--------|----------|
| Max | 50.165 | 4:00:00 |
| Min | 49.875 | 16:30:00 |

| No. of excursions | |
|-------------------|-----|
| above 50.03 Hz | 157 |
| below 49.97 Hz | 76 |
| above 50.00 Hz | 100 |
| below 50.00 Hz | 93 |

| Average time freq per excursion remains | |
|---|---------|
| below 49.97 | 0:04:15 |
| above 50.03 | 0:03:55 |

| | |
|---|---------|
| No. of hours freq outside 49.9-50.05 Hz | 8:20:50 |
|---|---------|

Source : VIJAYAWADA:Frequency 10 Sec. (8640 samples)