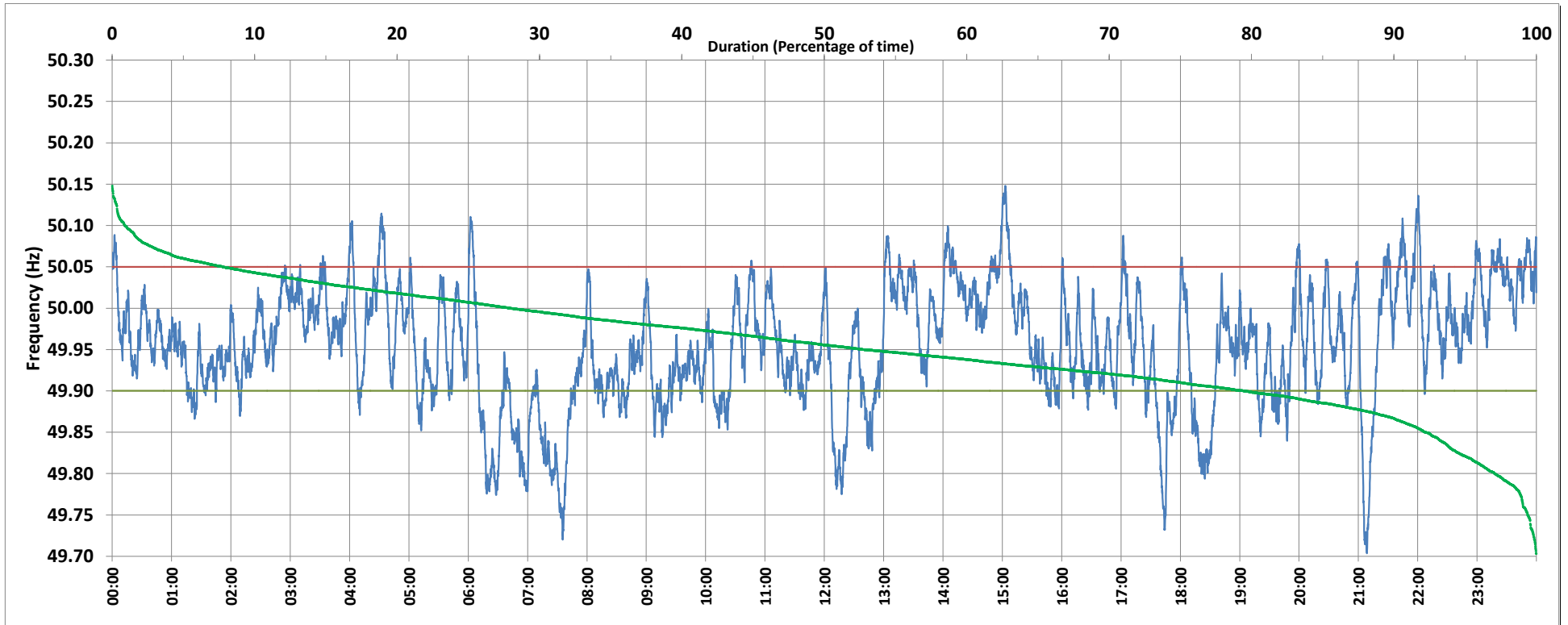


POWER SYSTEM OPERATION CORPORATION LIMITED

NATIONAL LOAD DESPATCH CENTRE, NEW DELHI



Frequency profile for 19-Dec-2018 (Wednesday)



| | | | | | | | | | | | | | | | | | | |
|-------|--------|--------|-----------|-----------|-----------|-----------|-----------|-------------|-----------|-------------|------------|-------|--------|--------|-------|--------|-------------|-------------|
| <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 | 20.49 | 56.78 | 2.92 | 17.57 | 51.48 | 27.14 | 0.89 | 71.75 | 100.00 | 28.34 | 6.92 | 28.00 | 14.87 | 7.77 | 0.00 | 47.16 | 45.07 | 26.68 |

| | | | | |
|----------------------------|------------------------------------|-----------------------------|---------------|-----------|
| Average Frequency : 49.954 | Frequency Variation Index : 0.0716 | Standard Deviation : 0.0712 | Mileage: 47.1 | FDI: 28.3 |
|----------------------------|------------------------------------|-----------------------------|---------------|-----------|

| Instantaneous Frequency | | |
|-------------------------|--------|----------|
| Max | 50.148 | 15:03:00 |
| Min | 49.703 | 21:08:30 |

| 15 minute Average Frequency | | |
|-----------------------------|--------|----------|
| Max | 50.061 | 15:15:00 |
| Min | 49.804 | 7:45:00 |

| No. of excursions | |
|-------------------|-----|
| above 50.03 Hz | 92 |
| below 49.97 Hz | 119 |
| above 50.00 Hz | 107 |
| below 50.00 Hz | 108 |

| Average time freq per excursion remains | |
|---|---------|
| below 49.97 | 0:06:52 |
| above 50.03 | 0:02:20 |

| | |
|---|---------|
| No. of hours freq outside 49.9-50.05 Hz | 6:46:50 |
|---|---------|

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