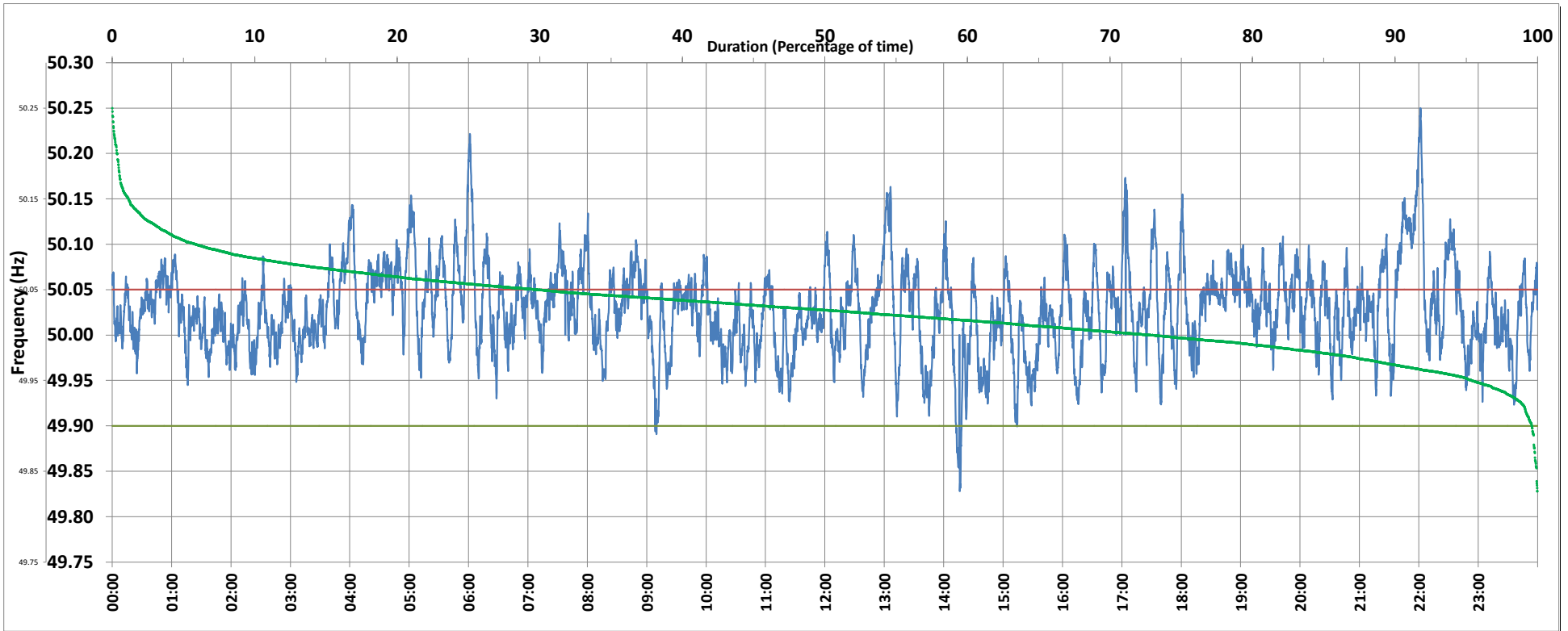


POWER SYSTEM OPERATION CORPORATION LIMITED

NATIONAL LOAD DESPATCH CENTRE, NEW DELHI



Frequency profile for 28-Nov-2019 (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 | 0.41 | 10.96 | 0.00 | 0.41 | 26.62 | 67.08 | 5.54 | 69.79 | 99.65 | 41.34 | 24.03 | 72.81 | 47.70 | 29.80 | 0.35 | 4.61 | 65.59 | 4.20 |

| | | | | |
|----------------------------|------------------------------------|-----------------------------|---------------|-----------|
| Average Frequency : 50.028 | Frequency Variation Index : 0.0302 | Standard Deviation : 0.0476 | Mileage: 52.3 | FDI: 30.2 |
|----------------------------|------------------------------------|-----------------------------|---------------|-----------|

| Instantaneous Frequency | | |
|-------------------------|--------|----------|
| Max | 50.250 | 22:01:40 |
| Min | 49.828 | 14:16:10 |

| 15 minute Average Frequency | | |
|-----------------------------|--------|----------|
| Max | 50.132 | 22:00:00 |
| Min | 49.965 | 14:30:00 |

| No. of excursions | |
|-------------------|-----|
| above 50.03 Hz | 223 |
| below 49.97 Hz | 102 |
| above 50.00 Hz | 193 |
| below 50.00 Hz | 191 |

| Average time freq per excursion remains | |
|---|---------|
| below 49.97 | 0:01:33 |
| above 50.03 | 0:03:05 |

| | |
|---|---------|
| No. of hours freq outside 49.9-50.05 Hz | 7:15:00 |
|---|---------|

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