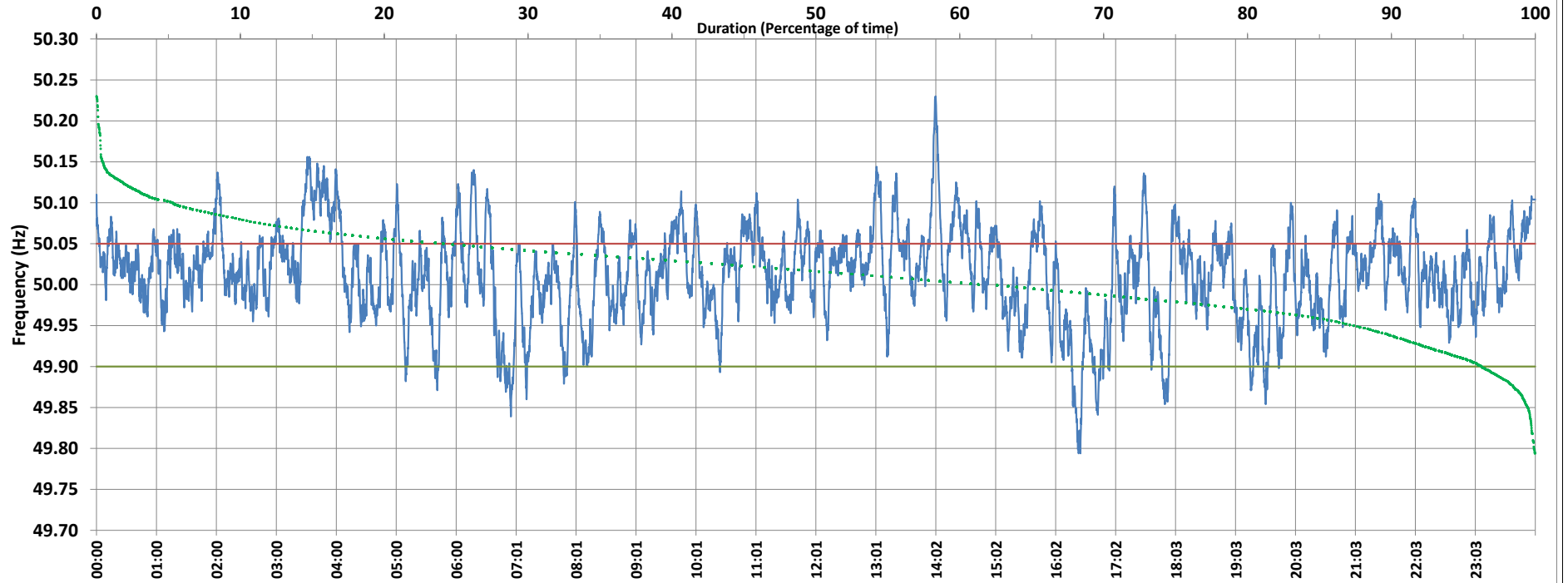


POWER SYSTEM OPERATION CORPORATION LIMITED

NATIONAL LOAD DESPATCH CENTRE, NEW DELHI



Frequency profile for 21-Dec-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 | 3.69 | 19.42 | 0.08 | 3.61 | 33.73 | 57.25 | 5.21 | 72.22 | 99.87 | 41.04 | 19.48 | 61.30 | 39.54 | 24.09 | 0.13 | 12.37 | 63.54 | 8.68 |

| | | | | |
|----------------------------|------------------------------------|-----------------------------|---------------|-----------|
| Average Frequency : 50.013 | Frequency Variation Index : 0.0336 | Standard Deviation : 0.0565 | Mileage: 50.9 | FDI: 27.8 |
|----------------------------|------------------------------------|-----------------------------|---------------|-----------|

| Instantaneous Frequency | | |
|-------------------------|--------|----------|
| Max | 50.230 | 14:02:30 |
| Min | 49.794 | 16:25:40 |

| 15 minute Average Frequency | | |
|-----------------------------|--------|----------|
| Max | 50.121 | 3:45:00 |
| Min | 49.869 | 16:30:00 |

| No. of excursions | |
|-------------------|-----|
| above 50.03 Hz | 160 |
| below 49.97 Hz | 108 |
| above 50.00 Hz | 125 |
| below 50.00 Hz | 121 |

| Average time freq per excursion remains | |
|---|---------|
| below 49.97 | 0:02:35 |
| above 50.03 | 0:03:34 |

| | |
|---|---------|
| No. of hours freq outside 49.9-50.05 Hz | 6:40:00 |
|---|---------|

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