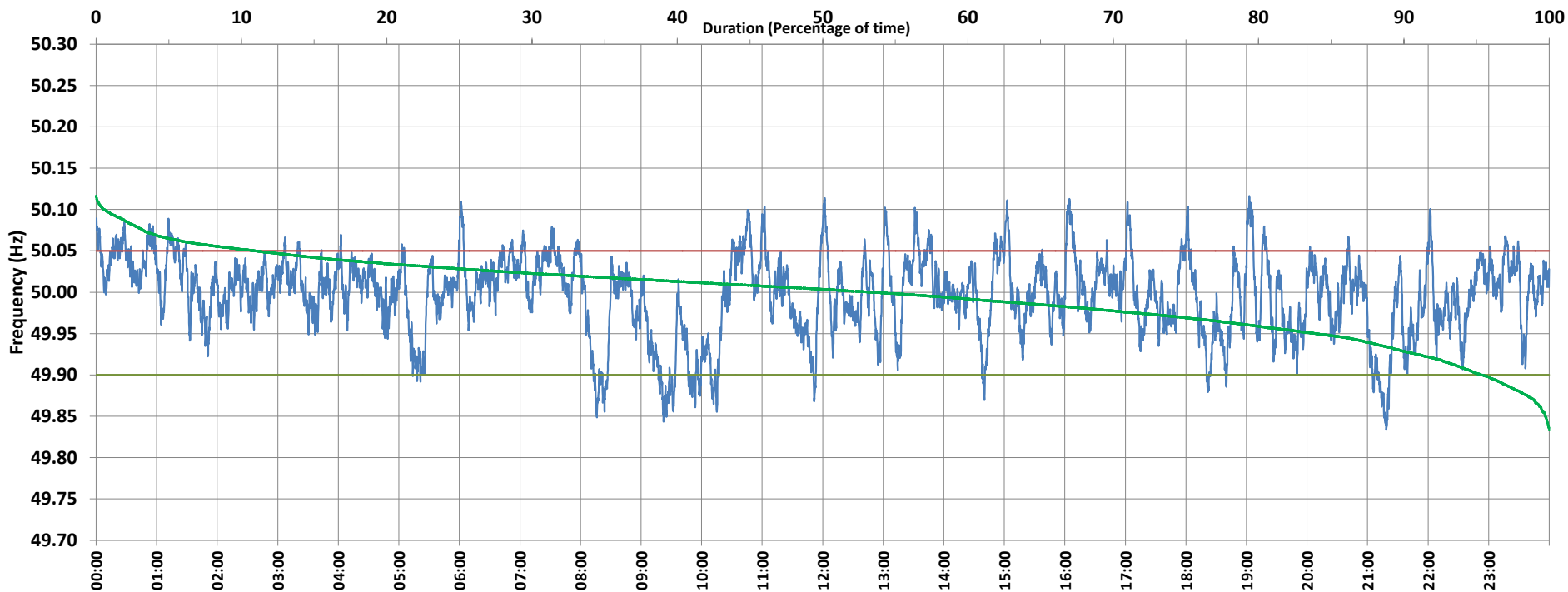


POWER SYSTEM OPERATION CORPORATION LIMITED

NATIONAL LOAD DESPATCH CENTRE, NEW DELHI



Frequency profile for 23-Jul-2020 (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 | 4.59 | 25.36 | 0.00 | 4.59 | 41.78 | 53.04 | 0.58 | 84.41 | 100.00 | 50.90 | 10.51 | 53.55 | 23.74 | 11.00 | 0.00 | 16.00 | 73.01 | 11.40 |

| | | | | |
|----------------------------|------------------------------------|-----------------------------|---------------|-----------|
| Average Frequency : 49.997 | Frequency Variation Index : 0.0231 | Standard Deviation : 0.0480 | Mileage: 44.8 | FDI: 15.6 |
|----------------------------|------------------------------------|-----------------------------|---------------|-----------|

| Instantaneous Frequency | | |
|-------------------------|--------|----------|
| Max | 50.116 | 19:02:50 |
| Min | 49.834 | 21:18:30 |

| 15 minute Average Frequency | | |
|-----------------------------|--------|---------|
| Max | 50.056 | 0:30:00 |
| Min | 49.885 | 9:30:00 |

| No. of excursions | |
|-------------------|-----|
| above 50.03 Hz | 162 |
| below 49.97 Hz | 128 |
| above 50.00 Hz | 201 |
| below 50.00 Hz | 198 |

| Average time freq per excursion remains | |
|---|---------|
| below 49.97 | 0:02:51 |
| above 50.03 | 0:02:07 |

| | |
|---|---------|
| No. of hours freq outside 49.9-50.05 Hz | 3:44:30 |
|---|---------|

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