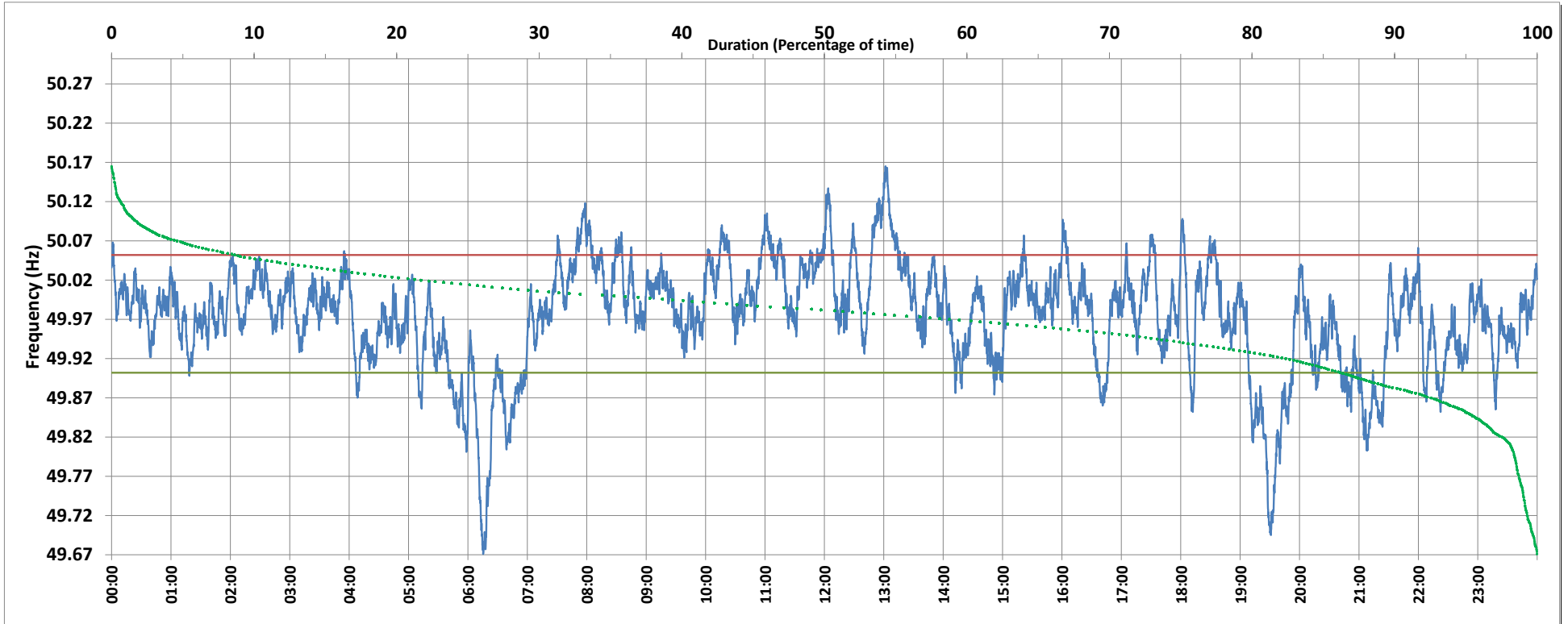


POWER SYSTEM OPERATION CORPORATION LIMITED

NATIONAL LOAD DESPATCH CENTRE, NEW DELHI



Frequency profile for 27-Jul-2018 (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 |
| 0.4 | 13.6 | 41.9 | 1.3 | 12.0 | 52.0 | 33.0 | 1.4 | 77.7 | 99.6 | 42.0 | 7.6 | 32.9 | 16.1 | 8.6 | 0.0 | 29.3 | 62.0 | 15.7 |

| | | | | |
|----------------------------|-----------------------------------|----------------------------|---------------|-----------|
| Average Frequency : 49.971 | Frequency Variation Index : 0.053 | Standard Deviation : 0.067 | Mileage: 45.6 | FDI: 22.3 |
|----------------------------|-----------------------------------|----------------------------|---------------|-----------|

| Instantaneous Frequency | | |
|-------------------------|--------|----------|
| Max | 50.163 | 13:01:40 |
| Min | 49.669 | 6:15:20 |

| 15 minute Average Frequency | | |
|-----------------------------|--------|----------|
| Max | 50.100 | 13:15:00 |
| Min | 49.790 | 19:45:00 |

| No. of excursions | |
|-------------------|-----|
| above 50.03 Hz | 82 |
| below 49.97 Hz | 150 |
| above 50.00 Hz | 134 |
| below 50.00 Hz | 119 |

| Average time freq per excursion remains | |
|---|---------|
| below 49.97 | 0:04:01 |
| above 50.03 | 0:02:50 |

| | |
|---|---------|
| No. of hours freq outside 49.9-50.05 Hz | 5:20:30 |
|---|---------|

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