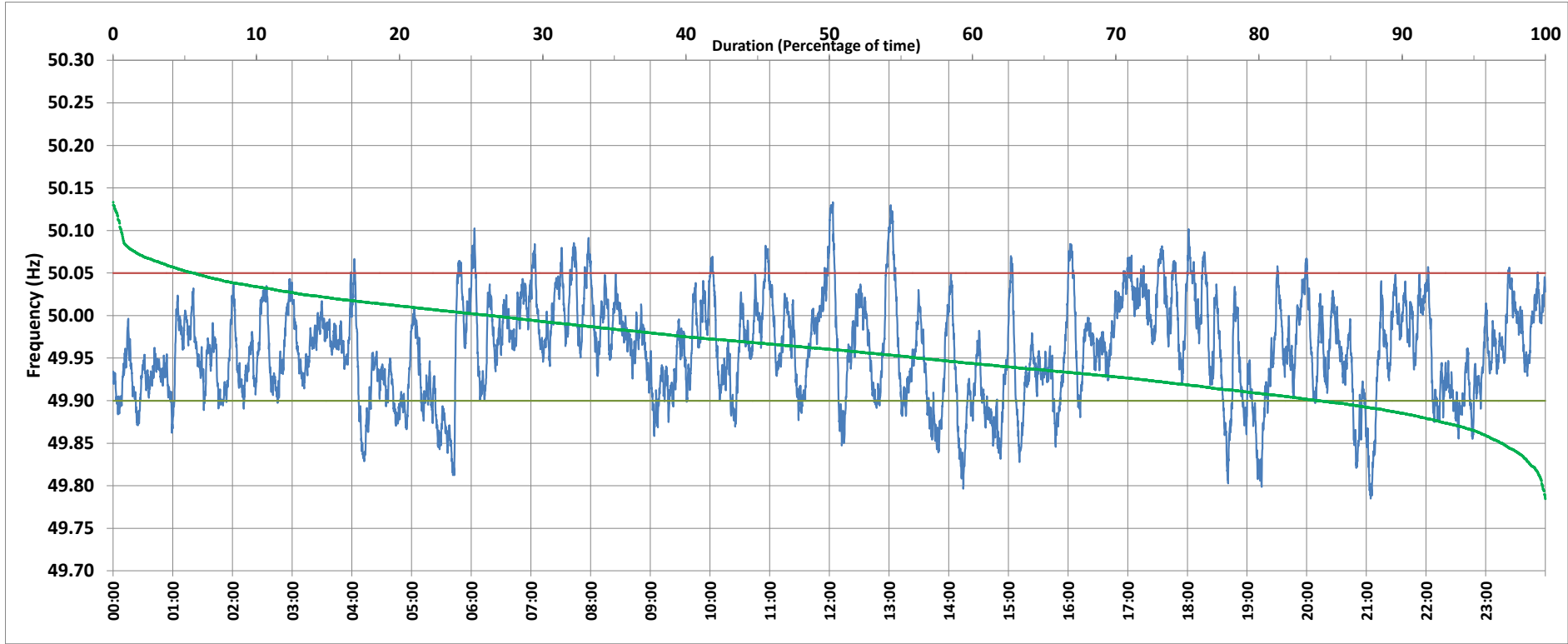


POWER SYSTEM OPERATION CORPORATION LIMITED

NATIONAL LOAD DESPATCH CENTRE, NEW DELHI



Frequency profile for 20-May-2019 (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 | 15.83 | 56.39 | 0.21 | 15.63 | 57.70 | 25.90 | 0.57 | 78.46 | 100.00 | 32.22 | 5.15 | 26.37 | 11.39 | 5.71 | 0.00 | 43.69 | 50.60 | 27.86 |

| | | | | |
|----------------------------|------------------------------------|-----------------------------|---------------|-----------|
| Average Frequency : 49.960 | Frequency Variation Index : 0.0497 | Standard Deviation : 0.0578 | Mileage: 46.6 | FDI: 21.5 |
|----------------------------|------------------------------------|-----------------------------|---------------|-----------|

| Instantaneous Frequency | | |
|-------------------------|--------|----------|
| Max | 50.133 | 12:03:30 |
| Min | 49.785 | 21:04:20 |

| 15 minute Average Frequency | | |
|-----------------------------|--------|----------|
| Max | 50.035 | 17:15:00 |
| Min | 49.866 | 5:45:00 |

| No. of excursions | |
|-------------------|-----|
| above 50.03 Hz | 85 |
| below 49.97 Hz | 154 |
| above 50.00 Hz | 121 |
| below 50.00 Hz | 122 |

| Average time freq per excursion remains | |
|---|---------|
| below 49.97 | 0:05:16 |
| above 50.03 | 0:01:56 |

| | |
|---|---------|
| No. of hours freq outside 49.9-50.05 Hz | 5:10:10 |
|---|---------|

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