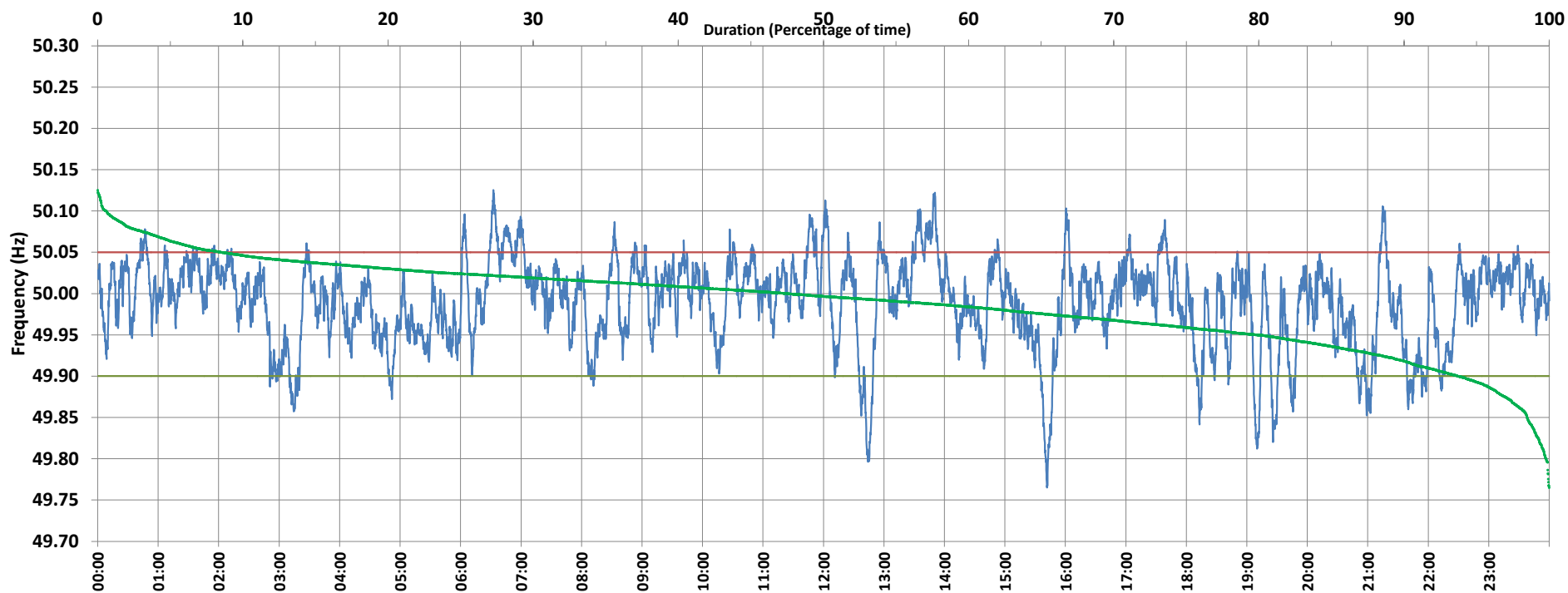


POWER SYSTEM OPERATION CORPORATION LIMITED

NATIONAL LOAD DESPATCH CENTRE, NEW DELHI



Frequency profile for 25-Jul-2020 (Saturday)



|       |        |        |           |           |           |           |           |             |           |             |            |       |        |        |       |        |             |             |
|-------|--------|--------|-----------|-----------|-----------|-----------|-----------|-------------|-----------|-------------|------------|-------|--------|--------|-------|--------|-------------|-------------|
| <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  | 6.28   | 31.28  | 0.21      | 6.08      | 46.11     | 47.01     | 0.59      | 85.19       | 100.00    | 48.54       | 8.00       | 47.52 | 20.17  | 8.53   | 0.00  | 20.05  | 71.42       | 13.76       |

|                            |                                    |                             |               |           |
|----------------------------|------------------------------------|-----------------------------|---------------|-----------|
| Average Frequency : 49.989 | Frequency Variation Index : 0.0285 | Standard Deviation : 0.0523 | Mileage: 44.2 | FDI: 14.8 |
|----------------------------|------------------------------------|-----------------------------|---------------|-----------|

| Instantaneous Frequency |        |          |
|-------------------------|--------|----------|
| Max                     | 50.125 | 6:32:20  |
| Min                     | 49.765 | 15:41:40 |

| 15 minute Average Frequency |        |          |
|-----------------------------|--------|----------|
| Max                         | 50.071 | 6:45:00  |
| Min                         | 49.870 | 15:45:00 |

| No. of excursions |     |
|-------------------|-----|
| above 50.03 Hz    | 156 |
| below 49.97 Hz    | 140 |
| above 50.00 Hz    | 194 |
| below 50.00 Hz    | 195 |

| Average time freq per excursion remains |         |
|---|---------|
| below 49.97                             | 0:03:13 |
| above 50.03                             | 0:01:52 |

|   |         |
|---|---------|
| No. of hours freq outside 49.9-50.05 Hz | 3:33:20 |
|---|---------|

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