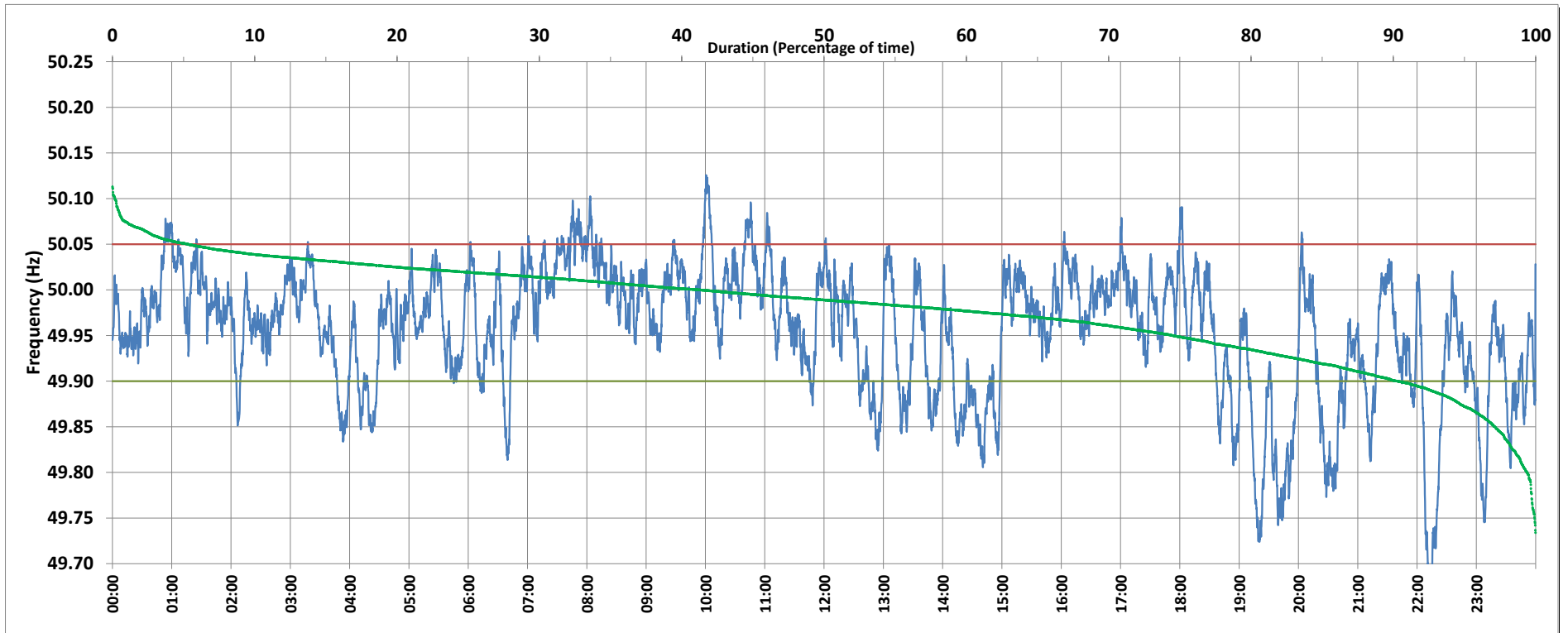


POWER SYSTEM OPERATION CORPORATION LIMITED

NATIONAL LOAD DESPATCH CENTRE, NEW DELHI



Frequency profile for 08-Jun-2019 (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 |
| 0.31  | 20.35  | 51.38  | 3.06      | 16.98     | 49.94     | 29.42     | 0.29      | 75.49       | 99.69     | 38.04       | 3.92       | 29.61 | 10.58  | 4.17   | 0.00  | 38.63  | 57.20       | 18.29       |

|                            |                                    |                             |               |           |
|----------------------------|------------------------------------|-----------------------------|---------------|-----------|
| Average Frequency : 49.955 | Frequency Variation Index : 0.0703 | Standard Deviation : 0.0710 | Mileage: 43.7 | FDI: 24.5 |
|----------------------------|------------------------------------|-----------------------------|---------------|-----------|

| Instantaneous Frequency |        |          |
|-------------------------|--------|----------|
| Max                     | 50.126 | 10:00:40 |
| Min                     | 49.643 | 22:12:30 |

| 15 minute Average Frequency |        |          |
|-----------------------------|--------|----------|
| Max                         | 50.060 | 8:00:00  |
| Min                         | 49.791 | 19:30:00 |

| No. of excursions |     |
|-------------------|-----|
| above 50.03 Hz    | 93  |
| below 49.97 Hz    | 142 |
| above 50.00 Hz    | 142 |
| below 50.00 Hz    | 140 |

| Average time freq per excursion remains |         |
|---|---------|
| below 49.97                             | 0:05:13 |
| above 50.03                             | 0:01:38 |

|   |         |
|---|---------|
| No. of hours freq outside 49.9-50.05 Hz | 5:53:00 |
|---|---------|

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