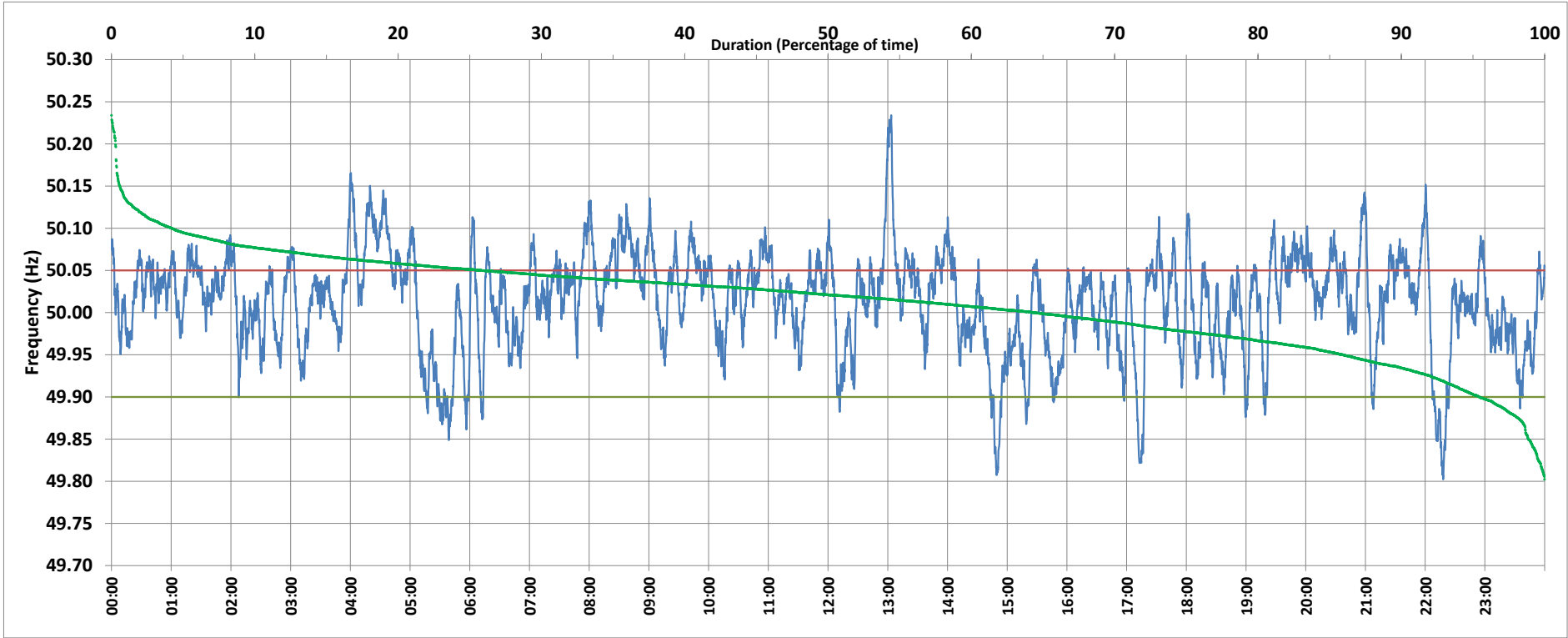


POWER SYSTEM OPERATION CORPORATION LIMITED

NATIONAL LOAD DESPATCH CENTRE, NEW DELHI



Frequency profile for 16-Mar-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 |
| 0.00  | 4.55   | 21.33  | 0.00      | 4.55      | 31.01     | 60.23     | 3.94      | 69.63       | 99.72     | 35.41       | 21.69      | 64.41 | 43.26  | 25.82  | 0.28  | 14.07  | 60.10       | 9.53        |

|                            |                                    |                             |               |           |
|----------------------------|------------------------------------|-----------------------------|---------------|-----------|
| Average Frequency : 50.013 | Frequency Variation Index : 0.0358 | Standard Deviation : 0.0584 | Mileage: 46.4 | FDI: 30.4 |
|----------------------------|------------------------------------|-----------------------------|---------------|-----------|

| Instantaneous Frequency |        |          |
|-------------------------|--------|----------|
| Max                     | 50.234 | 13:03:20 |
| Min                     | 49.802 | 22:18:00 |

| 15 minute Average Frequency |        |          |
|-----------------------------|--------|----------|
| Max                         | 50.107 | 4:30:00  |
| Min                         | 49.883 | 15:00:00 |

| No. of excursions |     |
|-------------------|-----|
| above 50.03 Hz    | 205 |
| below 49.97 Hz    | 106 |
| above 50.00 Hz    | 130 |
| below 50.00 Hz    | 130 |

| Average time freq per excursion remains |         |
|---|---------|
| below 49.97                             | 0:02:54 |
| above 50.03                             | 0:03:02 |

|   |         |
|---|---------|
| No. of hours freq outside 49.9-50.05 Hz | 7:17:20 |
|---|---------|

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