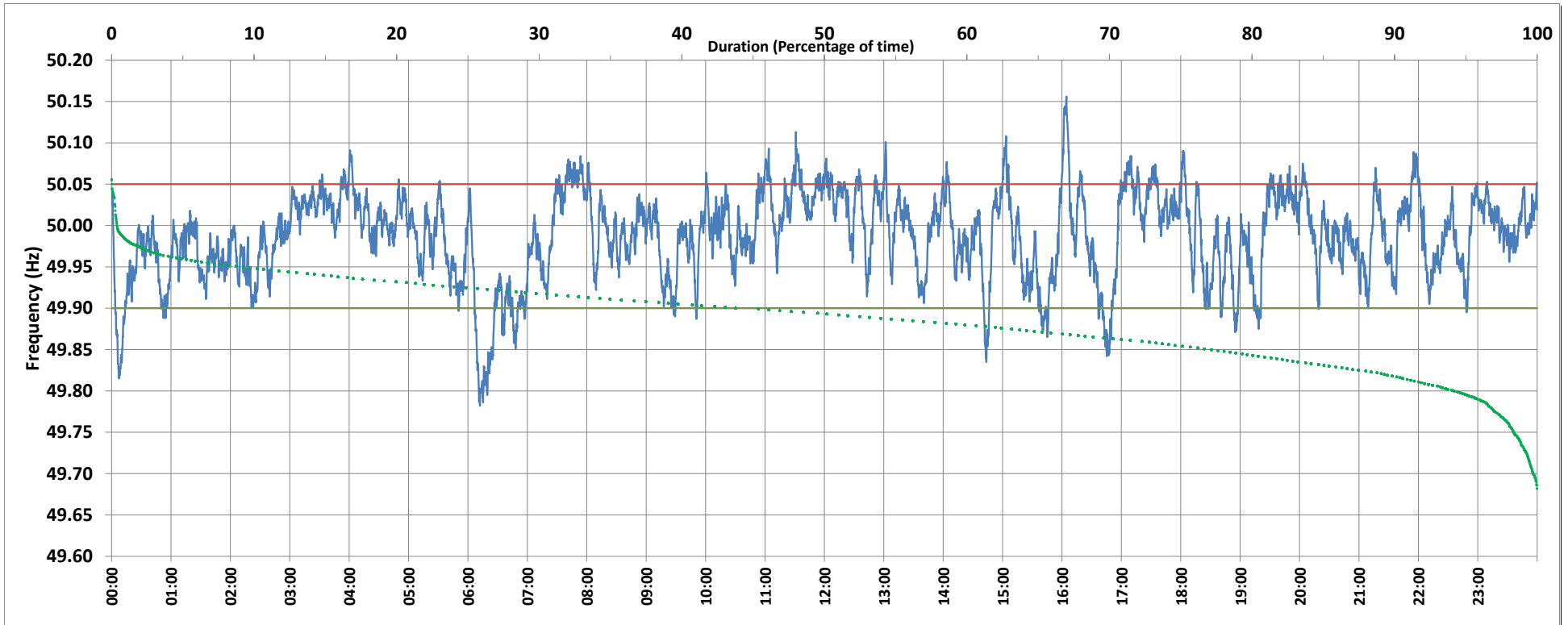


POWER SYSTEM OPERATION CORPORATION LIMITED

NATIONAL LOAD DESPATCH CENTRE, NEW DELHI



Frequency profile for 17-Sep-2018 (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 |
| 0.0   | 5.6    | 33.3   | 0.3       | 5.3       | 49.0      | 45.0      | 0.4       | 85.2        | 100.0     | 45.4        | 9.3        | 43.8 | 21.3   | 9.2    | 0.0   | 22.4   | 68.3        | 16.8        |

|                            |                                   |                            |               |           |
|----------------------------|-----------------------------------|----------------------------|---------------|-----------|
| Average Frequency : 49.987 | Frequency Variation Index : 0.029 | Standard Deviation : 0.052 | Mileage: 41.6 | FDI: 14.8 |
|----------------------------|-----------------------------------|----------------------------|---------------|-----------|

| Instantaneous Frequency |        |          |
|-------------------------|--------|----------|
| Max                     | 50.156 | 16:04:30 |
| Min                     | 49.782 | 6:12:00  |

| 15 minute Average Frequency |        |         |
|-----------------------------|--------|---------|
| Max                         | 50.056 | 8:00:00 |
| Min                         | 49.849 | 6:30:00 |

| No. of excursions |     |
|-------------------|-----|
| above 50.03 Hz    | 116 |
| below 49.97 Hz    | 100 |
| above 50.00 Hz    | 101 |
| below 50.00 Hz    | 103 |

| Average time freq per excursion remains |         |
|---|---------|
| below 49.97                             | 0:04:48 |
| above 50.03                             | 0:02:39 |

|   |         |
|---|---------|
| No. of hours freq outside 49.9-50.05 Hz | 3:33:50 |
|---|---------|

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