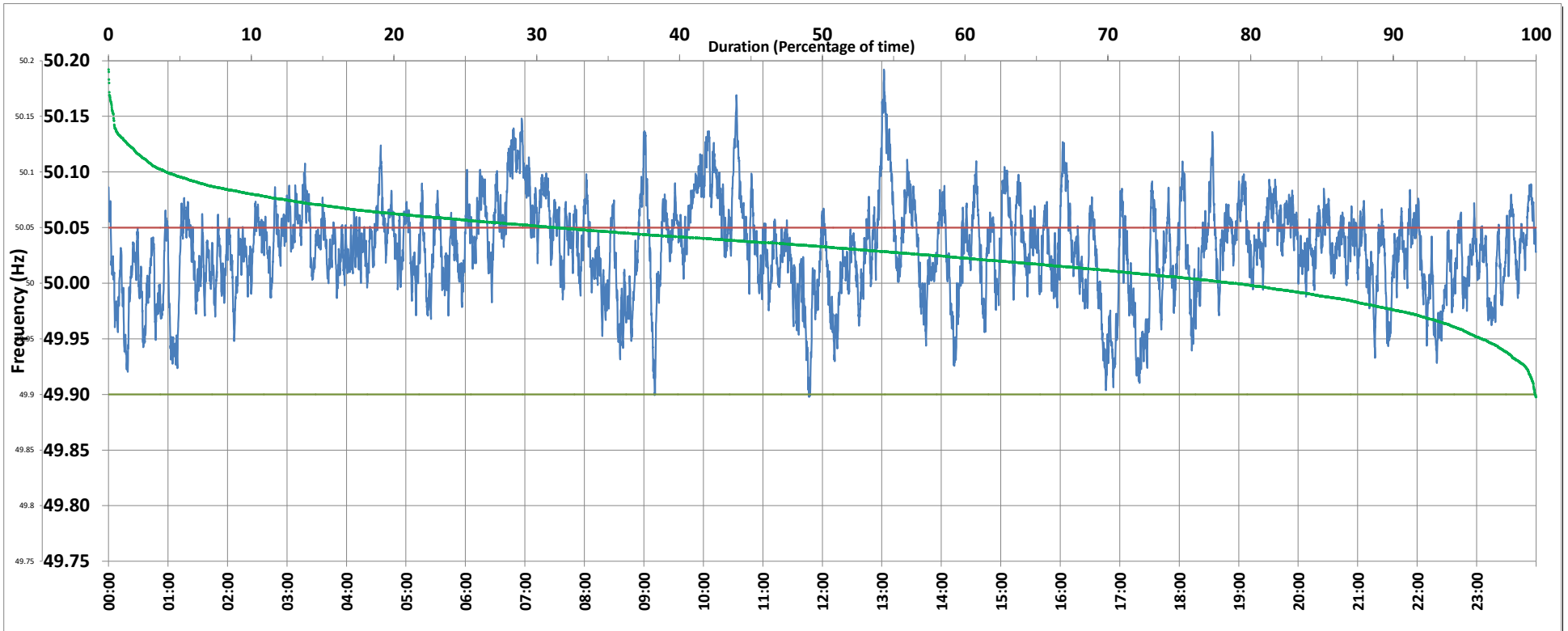


POWER SYSTEM OPERATION CORPORATION LIMITED

NATIONAL LOAD DESPATCH CENTRE, NEW DELHI



Frequency profile for 07-Oct-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  | 0.07   | 7.99   | 0.00      | 0.07      | 21.01     | 74.87     | 4.05      | 68.68       | 100.00    | 39.31       | 27.33      | 78.77 | 52.71  | 31.25  | 0.00  | 3.81   | 64.94       | 3.74        |

|                            |                                    |                             |               |           |
|----------------------------|------------------------------------|-----------------------------|---------------|-----------|
| Average Frequency : 50.030 | Frequency Variation Index : 0.0263 | Standard Deviation : 0.0414 | Mileage: 50.8 | FDI: 31.3 |
|----------------------------|------------------------------------|-----------------------------|---------------|-----------|

| Instantaneous Frequency |        |          |
|-------------------------|--------|----------|
| Max                     | 50.192 | 13:02:10 |
| Min                     | 49.898 | 11:46:40 |

| 15 minute Average Frequency |        |          |
|-----------------------------|--------|----------|
| Max                         | 50.117 | 7:00:00  |
| Min                         | 49.943 | 17:30:00 |

| No. of excursions |     |
|-------------------|-----|
| above 50.03 Hz    | 253 |
| below 49.97 Hz    | 69  |
| above 50.00 Hz    | 169 |
| below 50.00 Hz    | 167 |

| Average time freq per excursion remains |         |
|---|---------|
| below 49.97                             | 0:01:40 |
| above 50.03                             | 0:03:00 |

|   |         |
|---|---------|
| No. of hours freq outside 49.9-50.05 Hz | 7:31:00 |
|---|---------|

Source : NTPC-VINDHYACHAL:Frequency 10 Sec. (8640 samples)