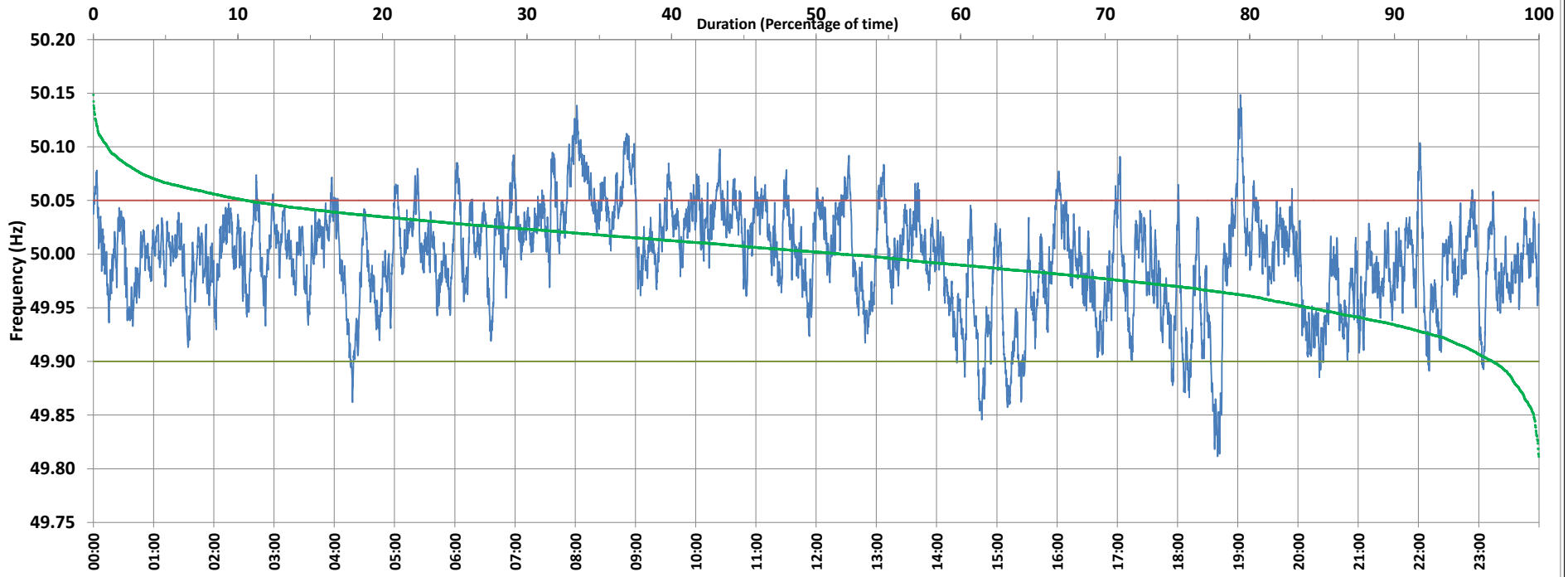


POWER SYSTEM OPERATION CORPORATION LIMITED

NATIONAL LOAD DESPATCH CENTRE, NEW DELHI



Frequency profile for 27-Sep-2020 (Sunday)



|       |        |        |           |           |           |           |           |             |           |             |            |       |        |        |       |        |             |             |
|-------|--------|--------|-----------|-----------|-----------|-----------|-----------|-------------|-----------|-------------|------------|-------|--------|--------|-------|--------|-------------|-------------|
| <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  | 3.22   | 24.98  | 0.00      | 3.22      | 45.01     | 50.79     | 0.98      | 86.22       | 100.00    | 51.10       | 9.63       | 51.70 | 23.92  | 10.57  | 0.00  | 15.80  | 73.63       | 12.58       |

|                            |                                    |                             |               |           |
|----------------------------|------------------------------------|-----------------------------|---------------|-----------|
| Average Frequency : 49.997 | Frequency Variation Index : 0.0222 | Standard Deviation : 0.0471 | Mileage: 49.8 | FDI: 13.8 |
|----------------------------|------------------------------------|-----------------------------|---------------|-----------|

| Instantaneous Frequency |        |          |
|-------------------------|--------|----------|
| Max                     | 50.149 | 19:02:40 |
| Min                     | 49.811 | 18:39:50 |

| 15 minute Average Frequency |        |          |
|-----------------------------|--------|----------|
| Max                         | 50.089 | 8:15:00  |
| Min                         | 49.872 | 18:45:00 |

| No. of excursions |     |
|-------------------|-----|
| above 50.03 Hz    | 192 |
| below 49.97 Hz    | 152 |
| above 50.00 Hz    | 221 |
| below 50.00 Hz    | 221 |

| Average time freq per excursion remains |         |
|---|---------|
| below 49.97                             | 0:02:22 |
| above 50.03                             | 0:01:48 |

|   |         |
|---|---------|
| No. of hours freq outside 49.9-50.05 Hz | 3:18:30 |
|---|---------|

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