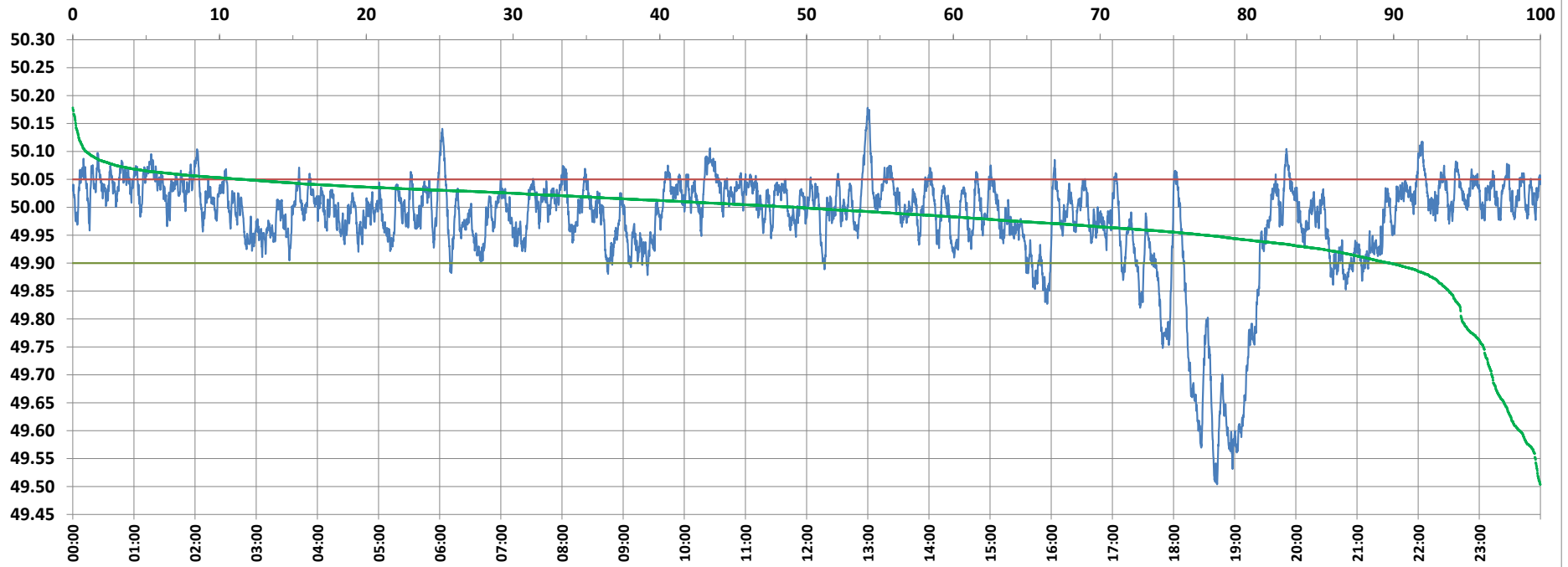


POWER SYSTEM OPERATION CORPORATION LIMITED

NATIONAL LOAD DESPATCH CENTRE, NEW DELHI



Frequency profile for 24-Sep-2021 (Friday)



|       |        |        |           |           |           |           |           |             |           |             |            |       |        |        |       |        |             |             |
|-------|--------|--------|-----------|-----------|-----------|-----------|-----------|-------------|-----------|-------------|------------|-------|--------|--------|-------|--------|-------------|-------------|
| <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 |
| 3.32  | 10.23  | 32.49  | 2.04      | 4.87      | 40.39     | 48.48     | 0.89      | 78.22       | 96.68     | 41.89       | 10.66      | 49.38 | 25.63  | 11.55  | 0.00  | 22.77  | 65.68       | 12.53       |

|                            |                                    |                             |               |           |
|----------------------------|------------------------------------|-----------------------------|---------------|-----------|
| Average Frequency : 49.978 | Frequency Variation Index : 0.0891 | Standard Deviation : 0.0917 | Mileage: 46.3 | FDI: 21.8 |
|----------------------------|------------------------------------|-----------------------------|---------------|-----------|

| Instantaneous Frequency |        |          |
|-------------------------|--------|----------|
| Max                     | 50.178 | 12:59:50 |
| Min                     | 49.504 | 18:42:40 |

| 15 minute Average Frequency |        |          |
|-----------------------------|--------|----------|
| Max                         | 50.056 | 1:30:00  |
| Min                         | 49.612 | 19:00:00 |

| No. of excursions |     |
|-------------------|-----|
| above 50.03 Hz    | 195 |
| below 49.97 Hz    | 124 |
| above 50.00 Hz    | 175 |
| below 50.00 Hz    | 174 |

| Average time freq per excursion remains |         |
|---|---------|
| below 49.97                             | 0:03:46 |
| above 50.03                             | 0:01:54 |

|   |         |
|---|---------|
| No. of hours freq outside 49.9-50.05 Hz | 5:13:40 |
|---|---------|

Source : AGRA 10 Sec. (8640 samples)