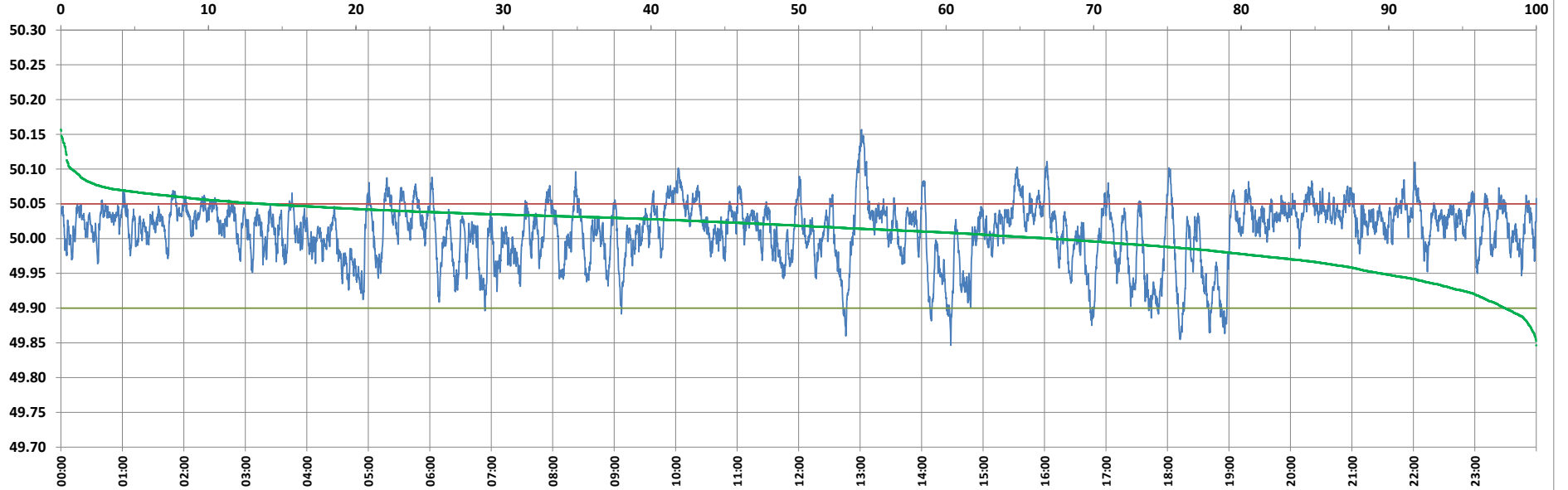


POWER SYSTEM OPERATION CORPORATION LIMITED

NATIONAL LOAD DESPATCH CENTRE, NEW DELHI



Frequency profile for 20-Sep-2022 (Tuesday)



|       |        |        |           |           |           |           |           |             |           |             |            |       |        |        |       |        |             |             |
|-------|--------|--------|-----------|-----------|-----------|-----------|-----------|-------------|-----------|-------------|------------|-------|--------|--------|-------|--------|-------------|-------------|
| <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  | 2.12   | 16.55  | 0.00      | 2.12      | 30.81     | 66.33     | 0.74      | 84.20       | 100.00    | 46.13       | 12.94      | 67.07 | 37.31  | 13.68  | 0.00  | 10.58  | 75.74       | 8.46        |

|                            |                                    |                             |               |           |
|----------------------------|------------------------------------|-----------------------------|---------------|-----------|
| Average Frequency : 50.010 | Frequency Variation Index : 0.0196 | Standard Deviation : 0.0431 | Mileage: 41.4 | FDI: 15.8 |
|----------------------------|------------------------------------|-----------------------------|---------------|-----------|

| Instantaneous Frequency |        |          |
|-------------------------|--------|----------|
| Max                     | 50.157 | 13:01:20 |
| Min                     | 49.846 | 14:28:30 |

| 15 minute Average Frequency |        |          |
|-----------------------------|--------|----------|
| Max                         | 50.076 | 13:15:00 |
| Min                         | 49.918 | 19:00:00 |

| No. of excursions |     |
|-------------------|-----|
| above 50.03 Hz    | 262 |
| below 49.97 Hz    | 97  |
| above 50.00 Hz    | 175 |
| below 50.00 Hz    | 174 |

| Average time freq per excursion remains |         |
|---|---------|
| below 49.97                             | 0:02:27 |
| above 50.03                             | 0:02:03 |

|   |         |
|---|---------|
| No. of hours freq outside 49.9-50.05 Hz | 3:47:30 |
|---|---------|

Source : AGRA 10 Sec. (8640 samples)