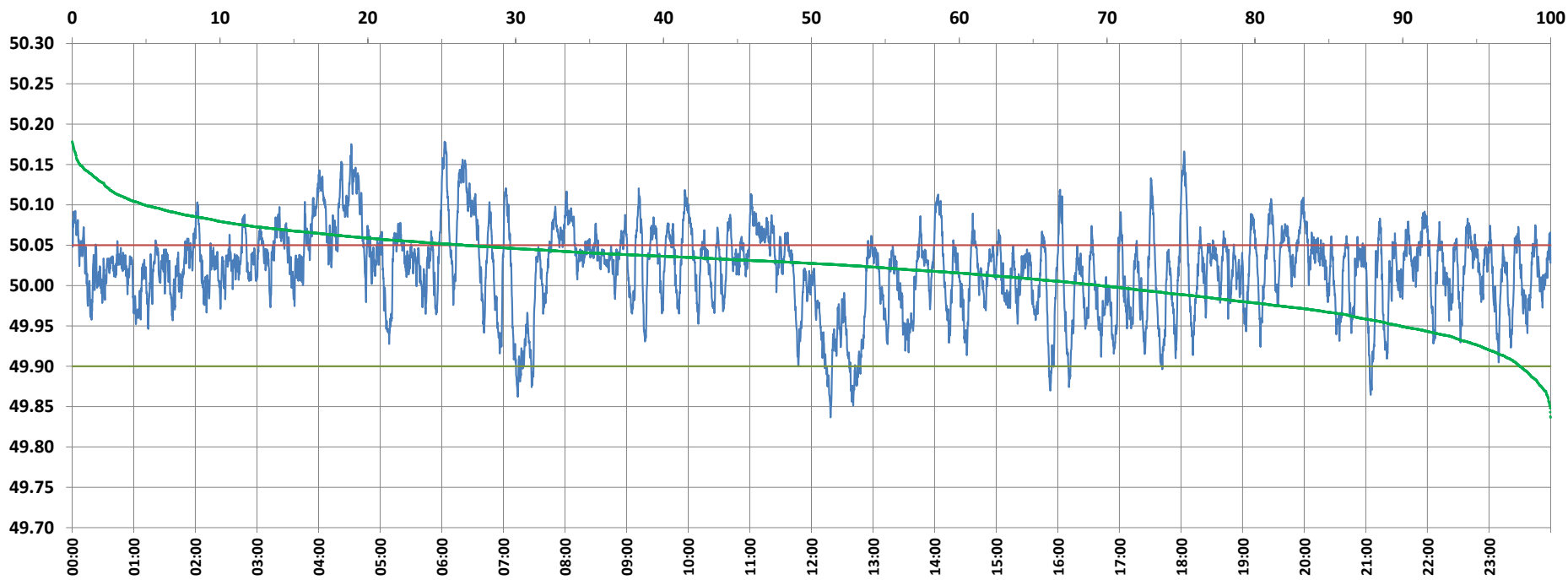


POWER SYSTEM OPERATION CORPORATION LIMITED

NATIONAL LOAD DESPATCH CENTRE, NEW DELHI



Frequency profile for 08-Jan-2022 (Saturday)



|       |        |        |           |           |           |           |           |             |           |             |            |       |        |        |       |        |             |             |
|-------|--------|--------|-----------|-----------|-----------|-----------|-----------|-------------|-----------|-------------|------------|-------|--------|--------|-------|--------|-------------|-------------|
| <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  | 2.11   | 16.20  | 0.00      | 2.11      | 28.39     | 64.62     | 4.88      | 71.41       | 100.00    | 36.56       | 21.60      | 69.50 | 47.23  | 26.48  | 0.00  | 10.20  | 63.32       | 8.09        |

|                            |                                    |                             |               |           |
|----------------------------|------------------------------------|-----------------------------|---------------|-----------|
| Average Frequency : 50.020 | Frequency Variation Index : 0.0309 | Standard Deviation : 0.0517 | Mileage: 45.9 | FDI: 28.6 |
|----------------------------|------------------------------------|-----------------------------|---------------|-----------|

| Instantaneous Frequency |        |          |
|-------------------------|--------|----------|
| Max                     | 50.178 | 6:02:40  |
| Min                     | 49.837 | 12:18:40 |

| 15 minute Average Frequency |        |          |
|-----------------------------|--------|----------|
| Max                         | 50.123 | 6:30:00  |
| Min                         | 49.911 | 12:45:00 |

| No. of excursions |     |
|-------------------|-----|
| above 50.03 Hz    | 257 |
| below 49.97 Hz    | 97  |
| above 50.00 Hz    | 134 |
| below 50.00 Hz    | 133 |

| Average time freq per excursion remains |         |
|---|---------|
| below 49.97                             | 0:02:24 |
| above 50.03                             | 0:02:39 |

|   |         |
|---|---------|
| No. of hours freq outside 49.9-50.05 Hz | 6:51:40 |
|---|---------|

Source : BHADRAWATHI 10 Sec. (8640 samples)