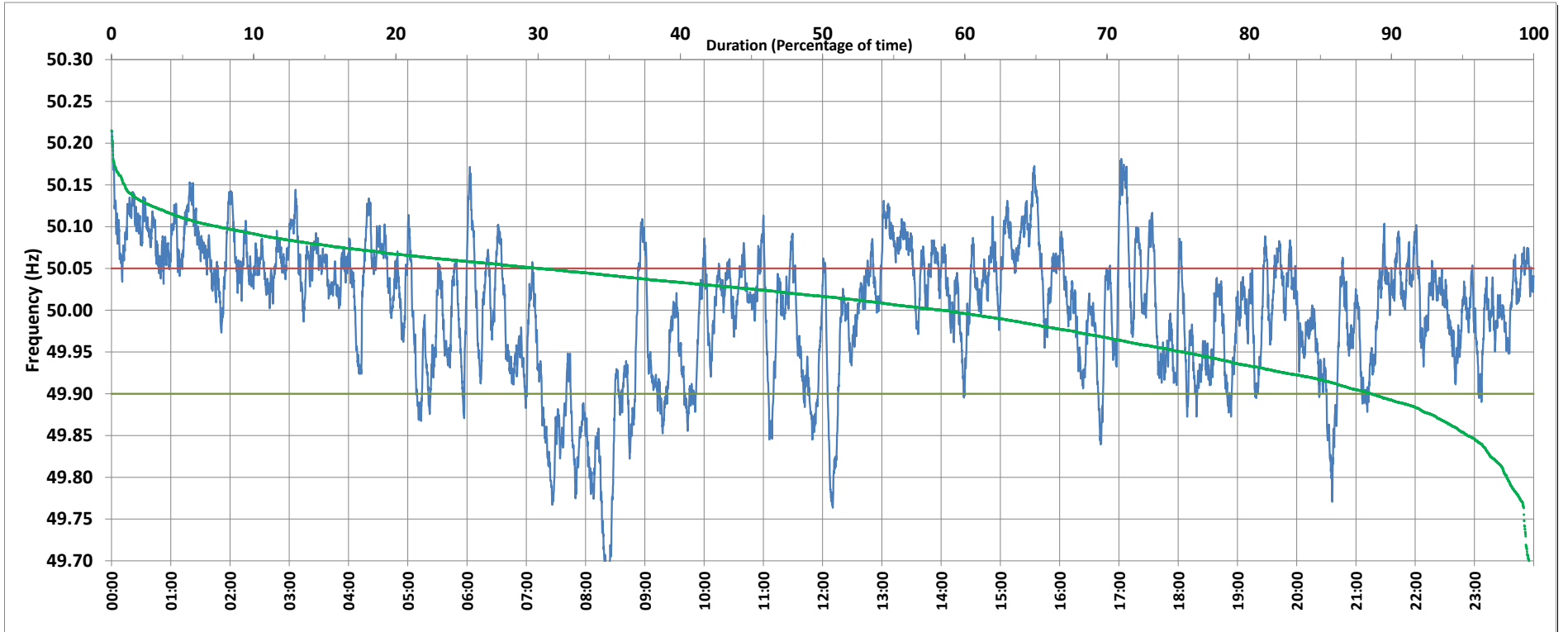


POWER SYSTEM OPERATION CORPORATION LIMITED

NATIONAL LOAD DESPATCH CENTRE, NEW DELHI



Frequency profile for 27-Jan-2019 (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 |
| 0.32  | 11.41  | 30.93  | 1.57      | 9.51      | 30.13     | 50.93     | 7.48      | 58.50       | 99.62     | 26.96       | 22.64      | 58.43 | 42.12  | 30.09  | 0.06  | 24.65  | 45.25       | 13.24       |

|                            |                                    |                             |               |           |
|----------------------------|------------------------------------|-----------------------------|---------------|-----------|
| Average Frequency : 50.001 | Frequency Variation Index : 0.0649 | Standard Deviation : 0.0806 | Mileage: 49.5 | FDI: 41.5 |
|----------------------------|------------------------------------|-----------------------------|---------------|-----------|

| Instantaneous Frequency |        |         |
|-------------------------|--------|---------|
| Max                     | 50.215 | 0:00:10 |
| Min                     | 49.652 | 8:21:30 |

| 15 minute Average Frequency |        |         |
|-----------------------------|--------|---------|
| Max                         | 50.115 | 1:30:00 |
| Min                         | 49.739 | 8:30:00 |

| No. of excursions |     |
|-------------------|-----|
| above 50.03 Hz    | 144 |
| below 49.97 Hz    | 77  |
| above 50.00 Hz    | 111 |
| below 50.00 Hz    | 111 |

| Average time freq per excursion remains |         |
|---|---------|
| below 49.97                             | 0:05:47 |
| above 50.03                             | 0:04:13 |

|   |         |
|---|---------|
| No. of hours freq outside 49.9-50.05 Hz | 9:57:40 |
|---|---------|

Source : HISSAR:Frequency 10 Sec. (8640 samples)