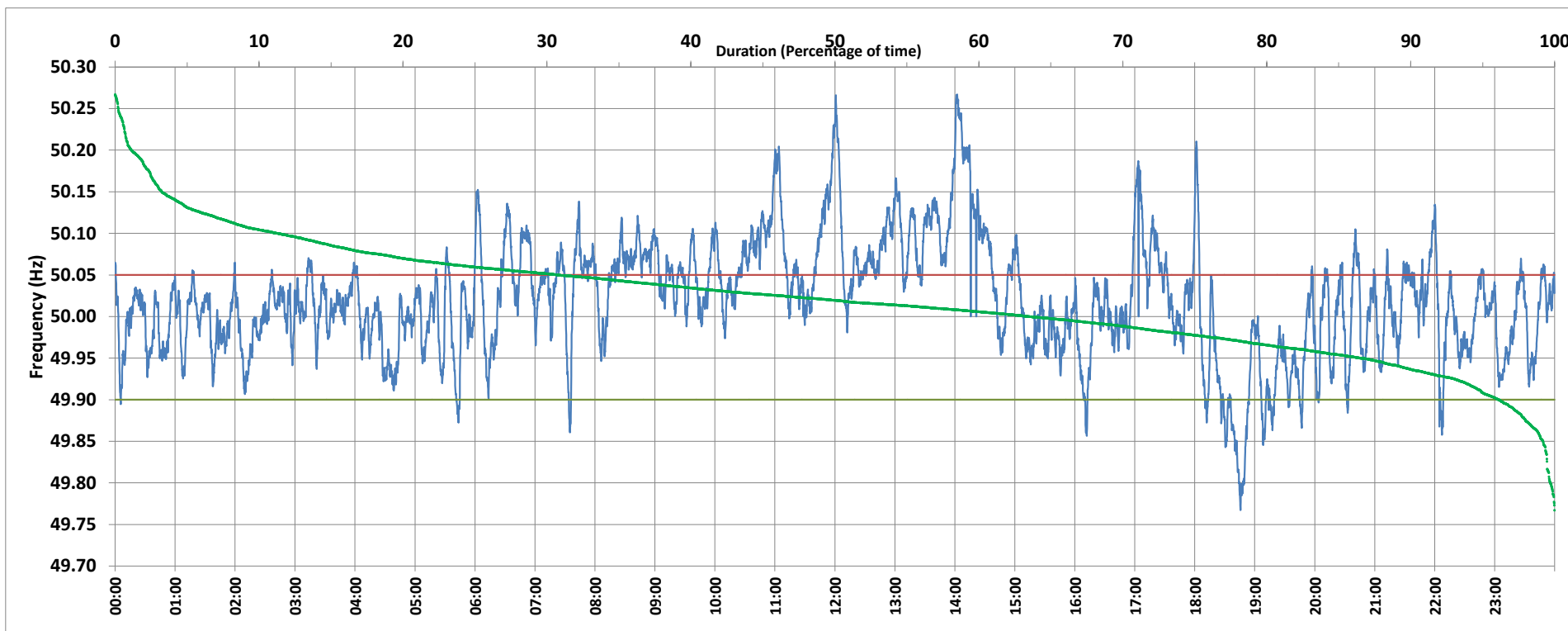


POWER SYSTEM OPERATION CORPORATION LIMITED

NATIONAL LOAD DESPATCH CENTRE, NEW DELHI



Frequency profile for 28-Mar-2020 (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  | 3.83   | 21.64  | 0.31      | 3.52      | 32.53     | 52.30     | 10.19     | 65.39       | 98.85     | 35.79       | 19.51      | 63.48 | 42.57  | 30.78  | 1.15  | 13.36  | 55.87       | 9.53        |

|                            |                                    |                             |               |           |
|----------------------------|------------------------------------|-----------------------------|---------------|-----------|
| Average Frequency : 50.020 | Frequency Variation Index : 0.0511 | Standard Deviation : 0.0685 | Mileage: 38.7 | FDI: 34.6 |
|----------------------------|------------------------------------|-----------------------------|---------------|-----------|

| Instantaneous Frequency |        |          |
|-------------------------|--------|----------|
| Max                     | 50.267 | 14:02:20 |
| Min                     | 49.767 | 18:45:40 |

| 15 minute Average Frequency |        |          |
|-----------------------------|--------|----------|
| Max                         | 50.219 | 14:15:00 |
| Min                         | 49.858 | 18:45:00 |

| No. of excursions |     |
|-------------------|-----|
| above 50.03 Hz    | 124 |
| below 49.97 Hz    | 82  |
| above 50.00 Hz    | 114 |
| below 50.00 Hz    | 113 |

| Average time freq per excursion remains |         |
|---|---------|
| below 49.97                             | 0:03:48 |
| above 50.03                             | 0:04:57 |

|   |         |
|---|---------|
| No. of hours freq outside 49.9-50.05 Hz | 8:18:20 |
|---|---------|

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