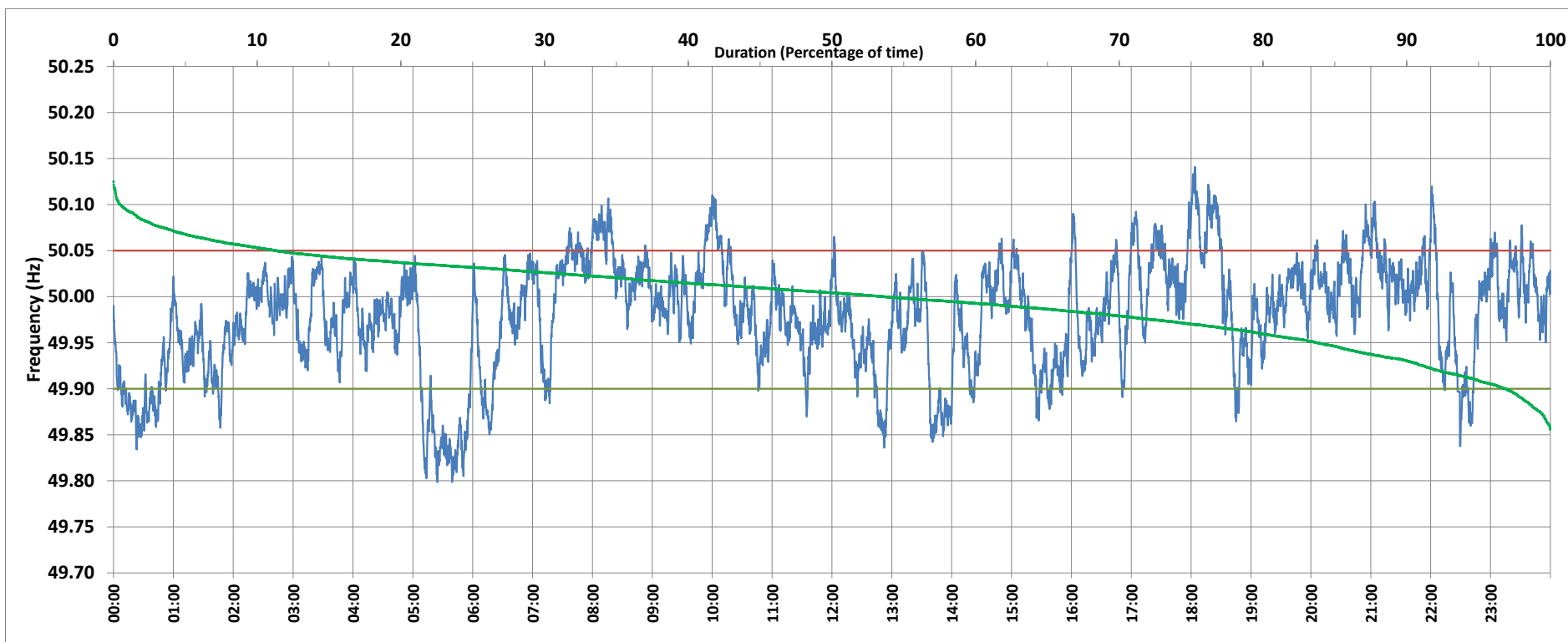


POWER SYSTEM OPERATION CORPORATION LIMITED

NATIONAL LOAD DESPATCH CENTRE, NEW DELHI



Frequency profile for 06-Jun-2019 (Thursday)



|       |        |        |           |           |           |           |           |             |           |             |            |       |        |        |       |        |             |             |
|-------|--------|--------|-----------|-----------|-----------|-----------|-----------|-------------|-----------|-------------|------------|-------|--------|--------|-------|--------|-------------|-------------|
| <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  | 11.82  | 38.28  | 0.02      | 11.79     | 47.75     | 39.40     | 1.03      | 78.30       | 100.00    | 42.33       | 8.88       | 40.32 | 19.40  | 9.88   | 0.00  | 27.58  | 62.53       | 15.76       |

|                            |                                    |                             |               |           |
|----------------------------|------------------------------------|-----------------------------|---------------|-----------|
| Average Frequency : 49.980 | Frequency Variation Index : 0.0401 | Standard Deviation : 0.0600 | Mileage: 44.2 | FDI: 21.7 |
|----------------------------|------------------------------------|-----------------------------|---------------|-----------|

| Instantaneous Frequency |        |          |
|-------------------------|--------|----------|
| Max                     | 50.141 | 18:03:40 |
| Min                     | 49.799 | 5:24:30  |

| 15 minute Average Frequency |        |          |
|-----------------------------|--------|----------|
| Max                         | 50.088 | 18:30:00 |
| Min                         | 49.829 | 5:45:00  |

| No. of excursions |     |
|-------------------|-----|
| above 50.03 Hz    | 148 |
| below 49.97 Hz    | 130 |
| above 50.00 Hz    | 166 |
| below 50.00 Hz    | 159 |

| Average time freq per excursion remains |         |
|---|---------|
| below 49.97                             | 0:04:14 |
| above 50.03                             | 0:01:53 |

|   |         |
|---|---------|
| No. of hours freq outside 49.9-50.05 Hz | 5:12:30 |
|---|---------|

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