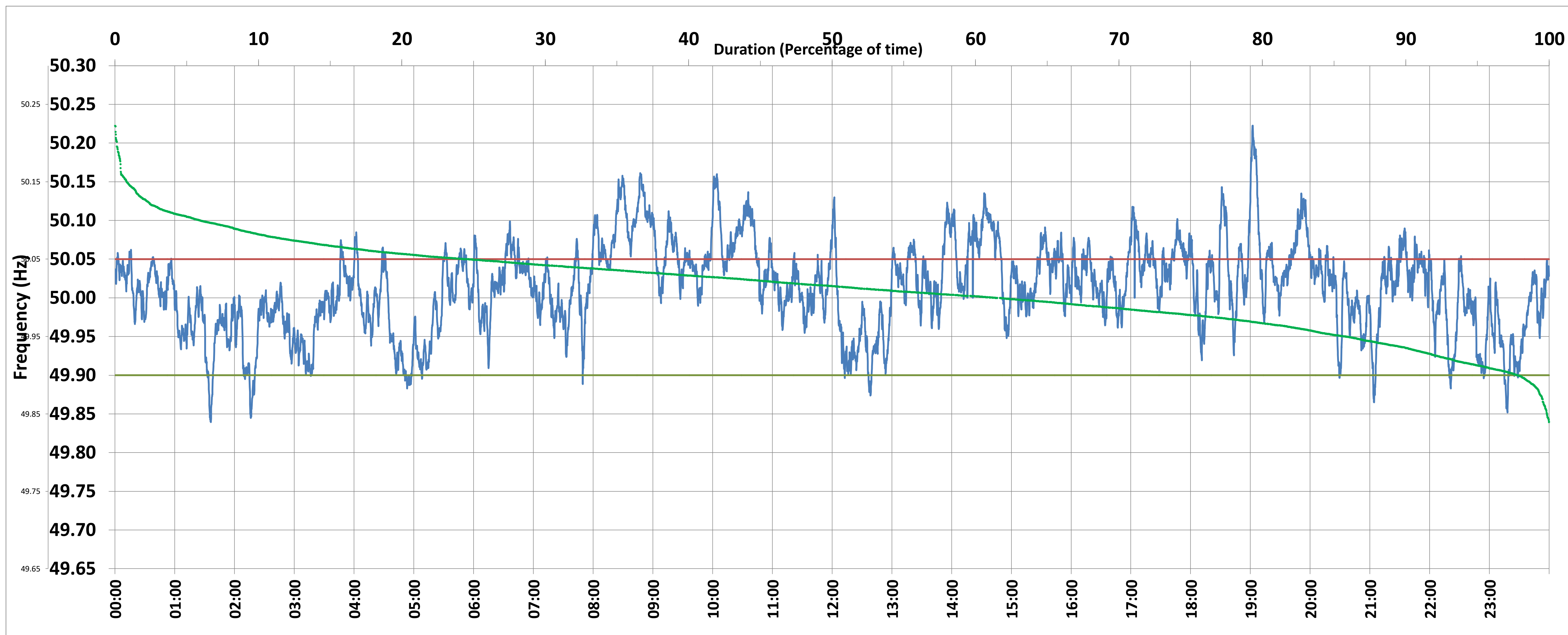


POWER SYSTEM OPERATION CORPORATION LIMITED

NATIONAL LOAD DESPATCH CENTRE, NEW DELHI



Frequency profile for 01-May-2020 (Friday)



|       |        |        |           |           |           |           |           |             |           |             |            |       |        |        |       |        |             |             |
|-------|--------|--------|-----------|-----------|-----------|-----------|-----------|-------------|-----------|-------------|------------|-------|--------|--------|-------|--------|-------------|-------------|
| <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  | 2.20   | 20.98  | 0.00      | 2.20      | 36.10     | 55.74     | 5.83      | 73.17       | 99.87     | 39.78       | 18.74      | 61.49 | 39.24  | 24.63  | 0.13  | 14.11  | 61.26       | 11.91       |

|                            |                                    |                             |               |           |
|----------------------------|------------------------------------|-----------------------------|---------------|-----------|
| Average Frequency : 50.013 | Frequency Variation Index : 0.0335 | Standard Deviation : 0.0564 | Mileage: 40.8 | FDI: 26.8 |
|----------------------------|------------------------------------|-----------------------------|---------------|-----------|

| Instantaneous Frequency |        |          |
|-------------------------|--------|----------|
| Max                     | 50.222 | 19:02:20 |
| Min                     | 49.839 | 1:36:10  |

| 15 minute Average Frequency |        |          |
|-----------------------------|--------|----------|
| Max                         | 50.122 | 9:00:00  |
| Min                         | 49.909 | 23:30:00 |

| No. of excursions |     |
|-------------------|-----|
| above 50.03 Hz    | 158 |
| below 49.97 Hz    | 94  |
| above 50.00 Hz    | 139 |
| below 50.00 Hz    | 138 |

| Average time freq per excursion remains |         |
|---|---------|
| below 49.97                             | 0:03:13 |
| above 50.03                             | 0:03:35 |

|   |         |
|---|---------|
| No. of hours freq outside 49.9-50.05 Hz | 6:26:20 |
|---|---------|

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