

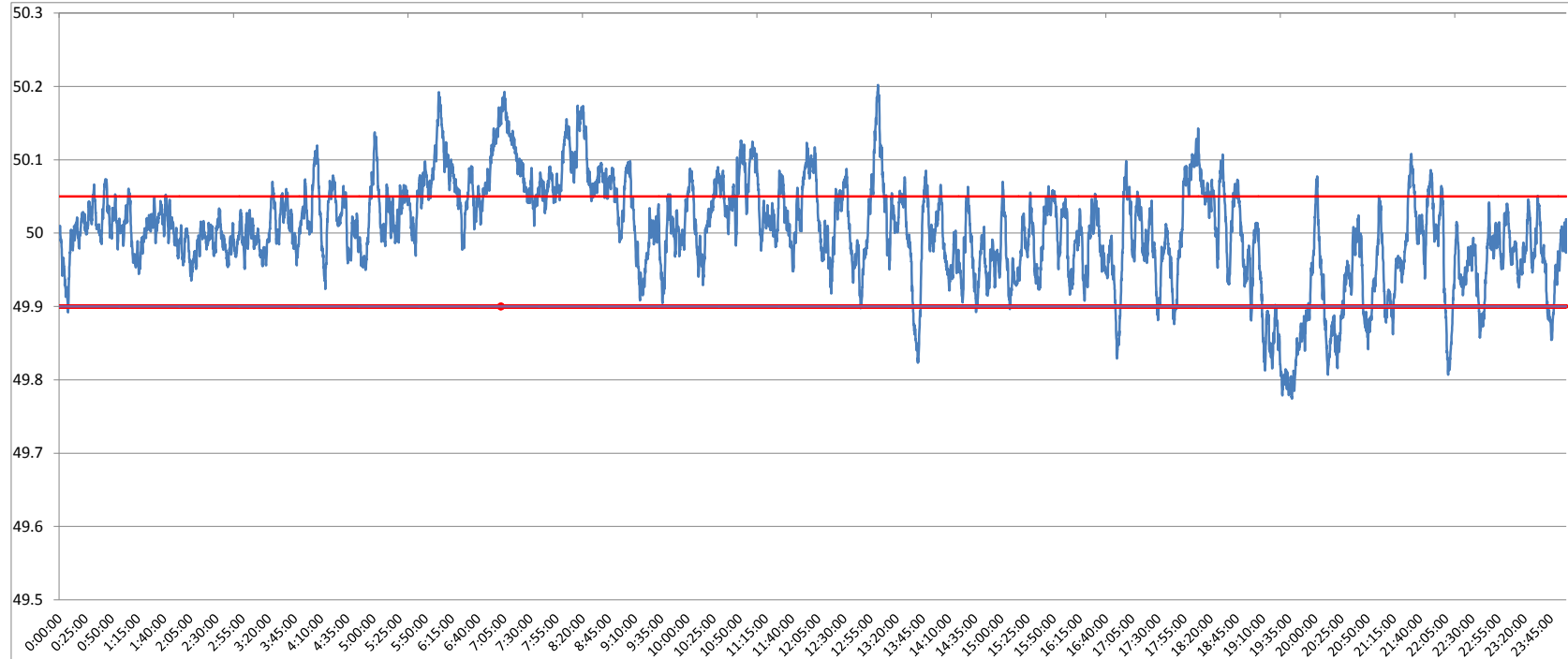


**POWER SYSTEM OPERATION CORPORATION LIMITED**  
NATIONAL LOAD DESPATCH CENTRE NEW DELHI

HISSAR:Frequency

National Grid Frequency Profile for

15-Jun-16



| <49.2 | <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 |
|-------|-------|--------|--------|-----------|-----------|-----------|-----------|-----------|-------------|-----------|-------------|------------|-------|--------|--------|-------|
| 0     | 0.00  | 7.97   | 27.23  | 0.60      | 7.37      | 38.39     | 47.47     | 6.15      | 67.86       | 99.98     | 37.97       | 18.02      | 53.59 | 34.79  | 24.17  | 0.02  |

|                          |              |                                    |              |                             |              |
|--------------------------|--------------|------------------------------------|--------------|-----------------------------|--------------|
| <b>Average Frequency</b> | <b>50.00</b> | <b>Frequency Variation Index :</b> | <b>0.047</b> | <b>Standard Deviation :</b> | <b>0.068</b> |
|--------------------------|--------------|------------------------------------|--------------|-----------------------------|--------------|

| Instantaneous Frequency |                |
|-------------------------|----------------|
| Max                     | 50.2 13:02:10  |
| Min                     | 49.77 19:37:50 |

| 15 minute average Frequency |        |          |
|-----------------------------|--------|----------|
| Max                         | 50.151 | 7:15:00  |
| Min                         | 49.807 | 19:45:00 |

|                                 |     |
|---------------------------------|-----|
| No. of excursion above 50.03 Hz | 129 |
| No. of excursion below 49.97 Hz | 126 |
| No. of excursion above 50.00 Hz | 159 |
| No. of excursion below 50.00 Hz | 159 |

|   |         |  |         |
|---|---------|--|---------|
| Average time freq remains below 49.97 per excursion | 0:03:07 | Average time frequency remains above 50.03 per excursion | 0:03:53 |
|---|---------|--|---------|