

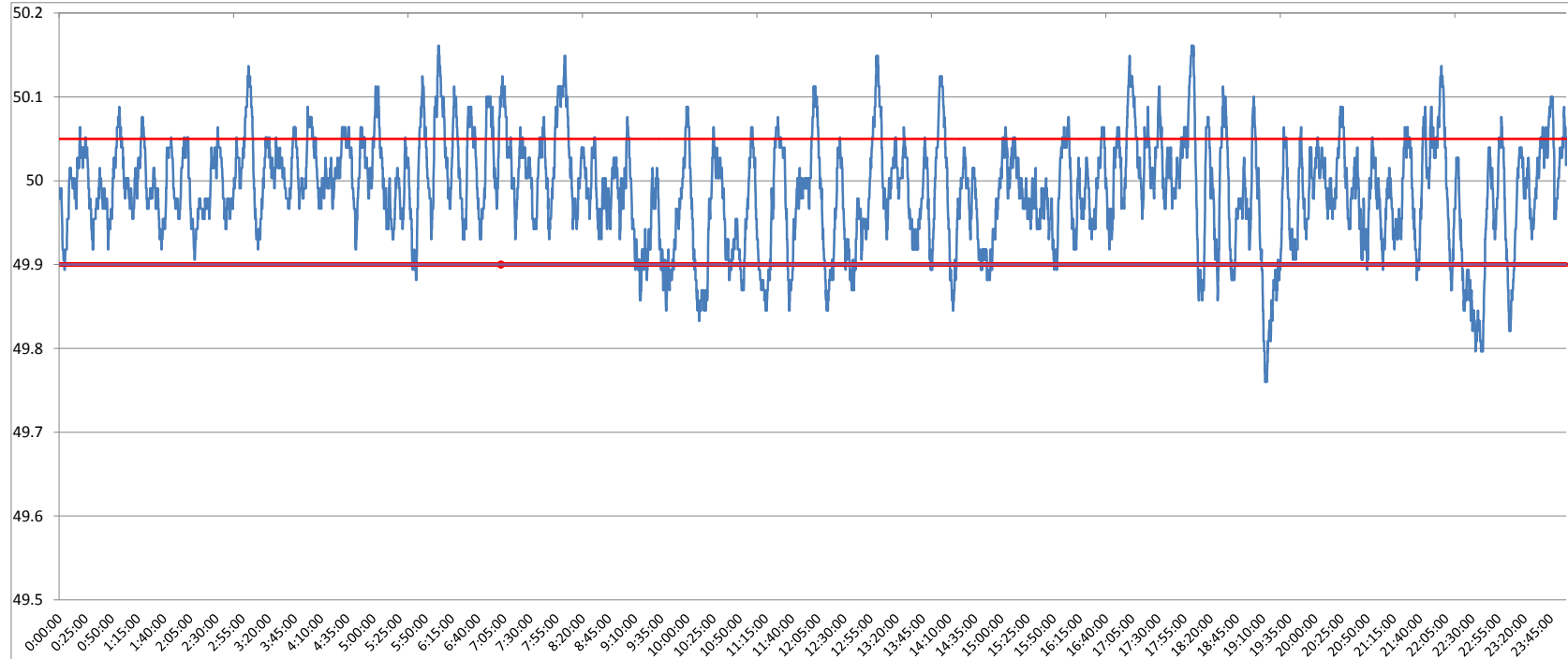


**POWER SYSTEM OPERATION CORPORATION LIMITED**  
NATIONAL LOAD DESPATCH CENTRE NEW DELHI

SOMANAHALLI:Frequency

National Grid Frequency Profile for

09-Apr-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  | 9.70   | 37.44  | 0.34      | 9.36      | 43.83     | 42.37     | 4.10      | 73.13       | 100.00    | 38.43       | 13.08      | 46.47 | 24.13  | 17.18  | 0.00  |

|                          |              |                                    |              |                             |              |
|--------------------------|--------------|------------------------------------|--------------|-----------------------------|--------------|
| <b>Average Frequency</b> | <b>49.99</b> | <b>Frequency Variation Index :</b> | <b>0.041</b> | <b>Standard Deviation :</b> | <b>0.063</b> |
|--------------------------|--------------|------------------------------------|--------------|-----------------------------|--------------|

| Instantaneous Frequency |                |
|-------------------------|----------------|
| Max                     | 50.16 6:02:10  |
| Min                     | 49.76 19:12:10 |

| 15 minute average Frequency |        |          |
|-----------------------------|--------|----------|
| Max                         | 50.067 | 17:15:00 |
| Min                         | 49.850 | 22:45:00 |

|                                 |     |
|---------------------------------|-----|
| No. of excursion above 50.03 Hz | 127 |
| No. of excursion below 49.97 Hz | 147 |
| No. of excursion above 50.00 Hz | 153 |
| No. of excursion below 50.00 Hz | 153 |

|  |                |   |                |
|--|----------------|---|----------------|
| <b>Average time freq remains below 49.97 per excursion</b> | <b>0:03:40</b> | <b>Average time frequency remains above 50.03 per excursion</b> | <b>0:02:44</b> |
|--|----------------|---|----------------|