

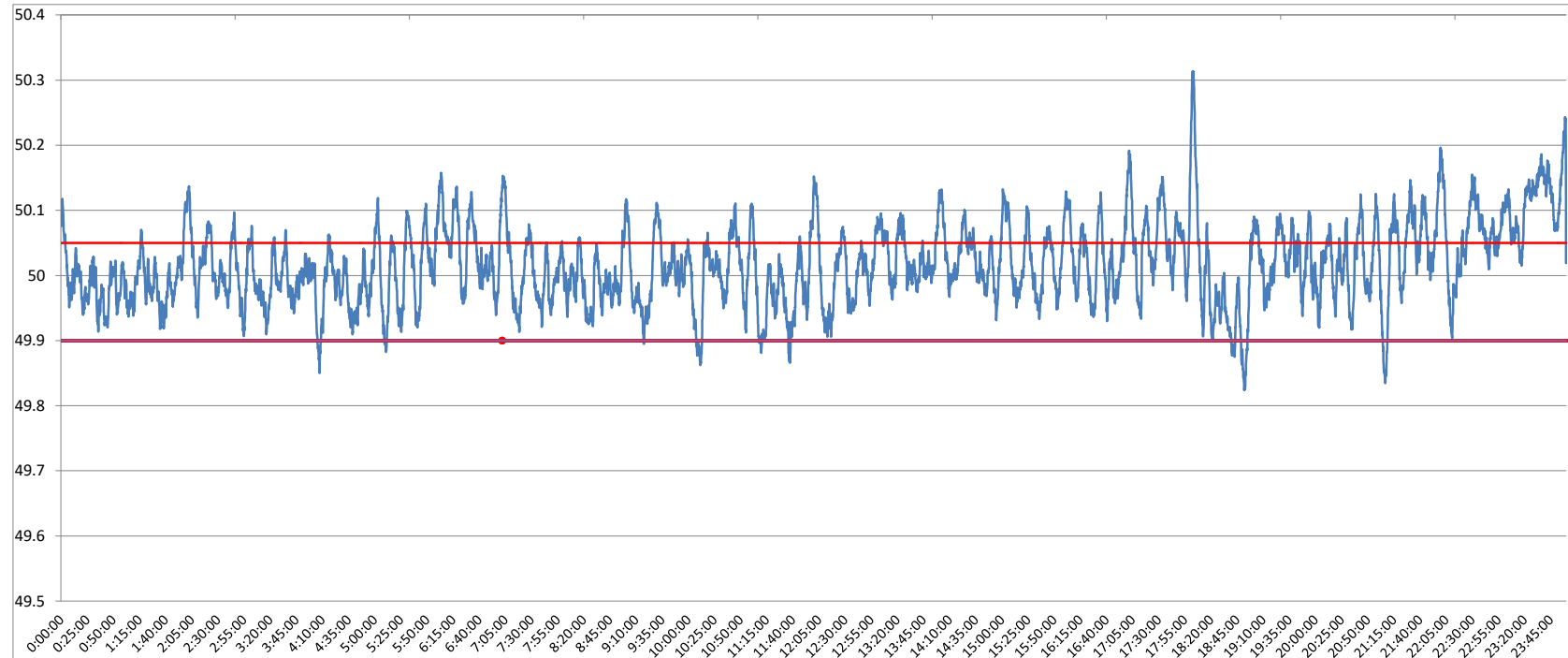


**POWER SYSTEM OPERATION CORPORATION LIMITED**  
NATIONAL LOAD DESPATCH CENTRE NEW DELHI

DURGAPUR:Frequency

National Grid Frequency Profile for

12-Feb-17



| <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  | 2.03   | 22.59  | 0.00      | 2.03      | 39.65     | 48.65     | 9.22      | 69.49       | 99.55     | 38.45       | 18.91      | 58.30 | 38.96  | 28.48  | 0.45  |

|                          |              |                                    |              |                             |              |
|--------------------------|--------------|------------------------------------|--------------|-----------------------------|--------------|
| <b>Average Frequency</b> | <b>50.02</b> | <b>Frequency Variation Index :</b> | <b>0.041</b> | <b>Standard Deviation :</b> | <b>0.062</b> |
|--------------------------|--------------|------------------------------------|--------------|-----------------------------|--------------|

| Instantaneous Frequency |       |          |
|-------------------------|-------|----------|
| Max                     | 50.31 | 18:03:00 |
| Min                     | 49.82 | 18:51:50 |

| 15 minute average Frequency |        |          |  |
|-----------------------------|--------|----------|--|
| Max                         | 50.152 | 23:45:00 |  |
| Min                         | 49.930 | 18:45:00 |  |

|                                 |     |
|---------------------------------|-----|
| No. of excursion above 50.03 Hz | 142 |
| No. of excursion below 49.97 Hz | 141 |
| No. of excursion above 50.00 Hz | 179 |
| No. of excursion below 50.00 Hz | 178 |

|   |         |  |         |
|---|---------|--|---------|
| Average time freq remains below 49.97 per excursion | 0:02:18 | Average time frequency remains above 50.03 per excursion | 0:03:57 |
|---|---------|--|---------|