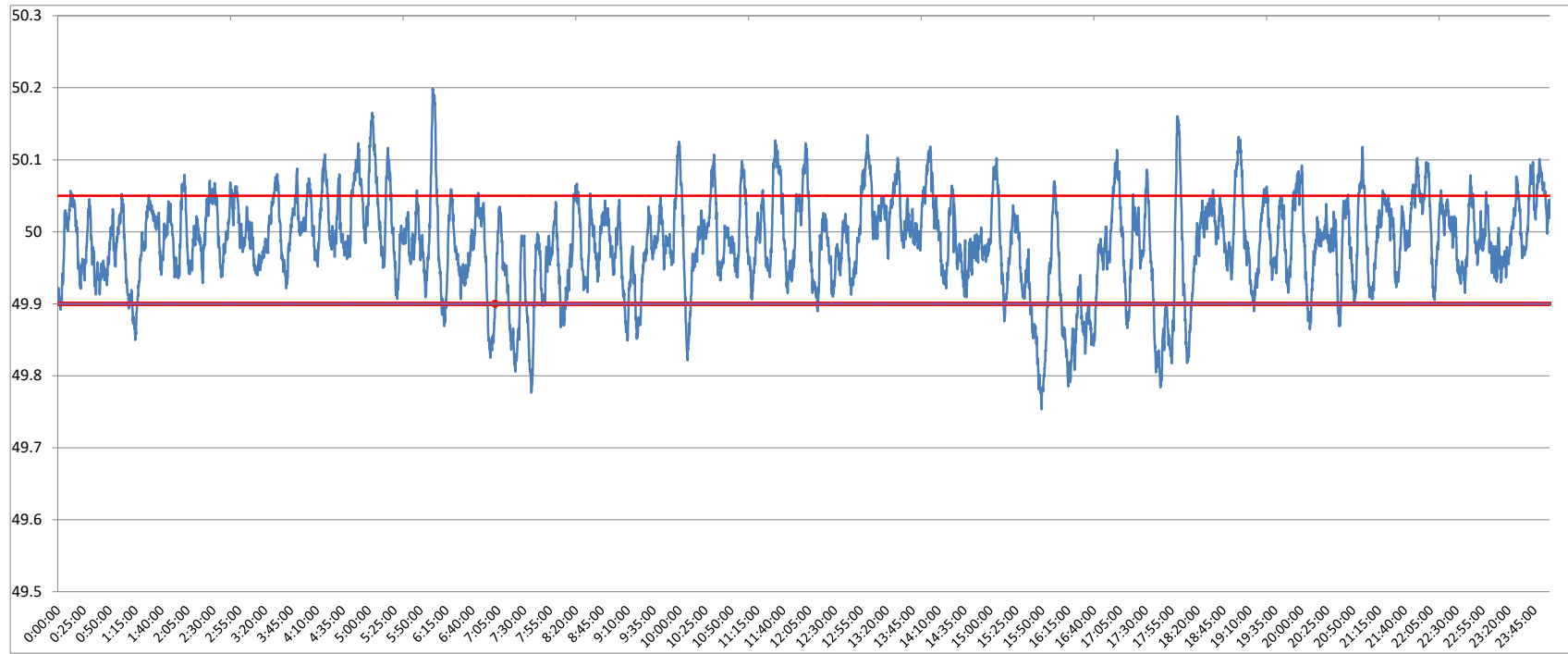




**POWER SYSTEM OPERATION CORPORATION LIMITED**  
NATIONAL LOAD DESPATCH CENTRE NEW DELHI

DURGAPUR:Frequency National Grid Frequency Profile for 04-Nov-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  | 9.88   | 38.11  | 0.69      | 9.19      | 48.83     | 38.78     | 2.50      | 75.91       | 100.00    | 38.30       | 11.74      | 41.19 | 23.59  | 14.20  | 0.00  |

|  |              |                 |   |               |                 |  |  |              |
|--|--------------|-----------------|---|---------------|-----------------|--|--|--------------|
| <b>Average Frequency</b>                                   |              | <b>49.98</b>    | <b>Frequency Variation Index :</b>                              |               | <b>0.044</b>    | <b>Standard Deviation :</b>            |  | <b>0.065</b> |
| <b>Instantaneous Frequency</b>                             |              |                 | <b>15 minute average Frequency</b>                              |               |                 | <b>No. of excursion above 50.03 Hz</b> |  | <b>127</b>   |
| <b>Max</b>   | <b>50.2</b>  | <b>6:01:50</b>  | <b>Max</b>  | <b>50.062</b> | <b>5:15:00</b>  | <b>No. of excursion below 49.97 Hz</b> |  | <b>153</b>   |
| <b>Min</b>   | <b>49.75</b> | <b>15:49:30</b> | <b>Min</b>  | <b>49.853</b> | <b>16:00:00</b> | <b>No. of excursion above 50.00 Hz</b> |  | <b>160</b>   |
| <b>Average time freq remains below 49.97 per excursion</b> |              | <b>0:03:35</b>  | <b>Average time frequency remains above 50.03 per excursion</b> |               | <b>0:02:40</b>  | <b>No. of excursion below 50.00 Hz</b> |  | <b>159</b>   |