

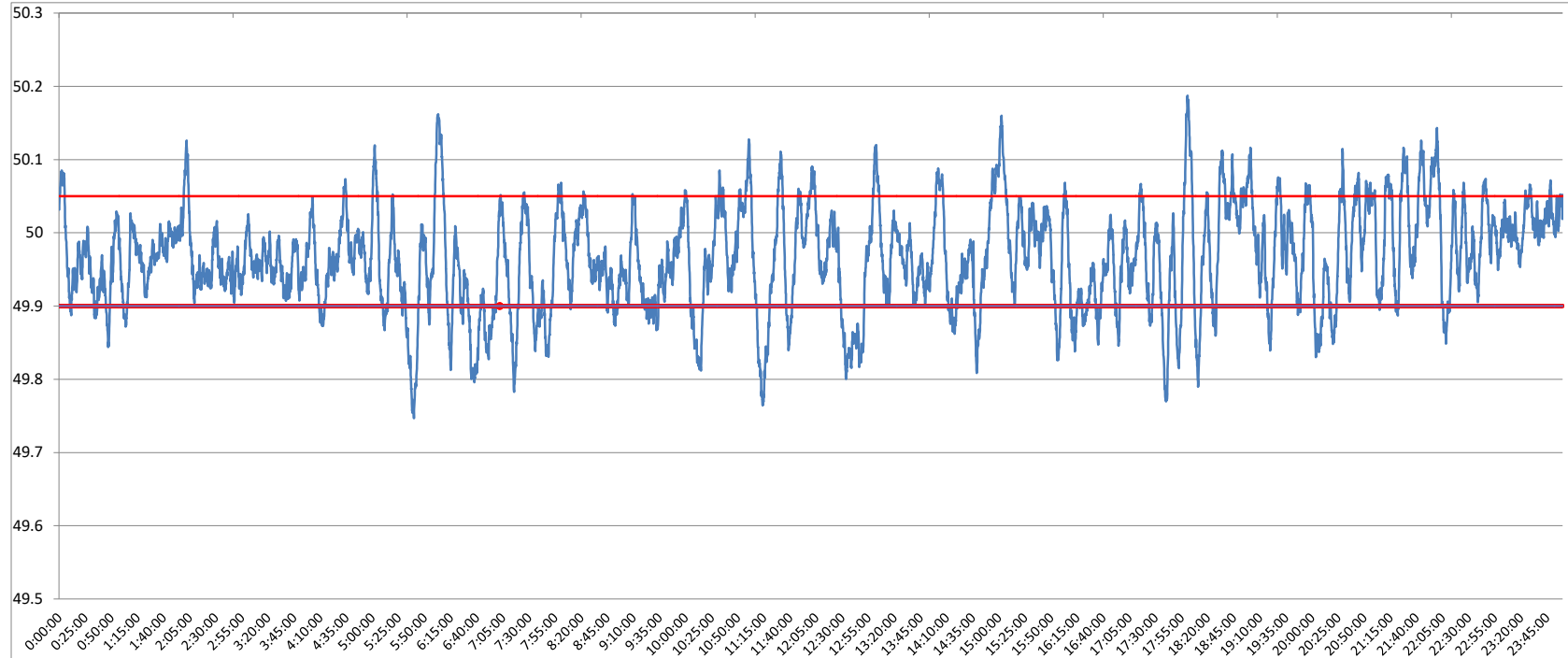


**POWER SYSTEM OPERATION CORPORATION LIMITED**  
NATIONAL LOAD DESPATCH CENTRE NEW DELHI

DURGAPUR:Frequency

National Grid Frequency Profile for

29-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  | 17.11  | 53.34  | 0.91      | 16.19     | 51.70     | 28.82     | 2.37      | 71.44       | 100.00    | 28.29       | 9.14       | 31.16 | 18.37  | 11.46  | 0.00  |

|  |              |                 |                                    |   |                 |  |  |              |            |
|--|--------------|-----------------|------------------------------------|---|-----------------|--|--|--------------|------------|
| <b>Average Frequency</b>                                   |              | <b>49.97</b>    | <b>Frequency Variation Index :</b> |   | <b>0.061</b>    | <b>Standard Deviation :</b>            |  | <b>0.070</b> |            |
| <b>Instantaneous Frequency</b>                             |              |                 | <b>15 minute average Frequency</b> |   |                 | <b>No. of excursion above 50.03 Hz</b> |  | <b>86</b>    |            |
| <b>Max</b>   | <b>50.19</b> | <b>18:00:40</b> | <b>Max</b>                         | <b>50.072</b>   | <b>22:00:00</b> | <b>No. of excursion below 49.97 Hz</b> |  | <b>125</b>   |            |
| <b>Min</b>   | <b>49.75</b> | <b>5:39:40</b>  | <b>Min</b>                         | <b>49.833</b>   | <b>5:45:00</b>  | <b>No. of excursion above 50.00 Hz</b> |  | <b>125</b>   |            |
| <b>Average time freq remains below 49.97 per excursion</b> |              |                 | <b>0:06:09</b>                     | <b>Average time frequency remains above 50.03 per excursion</b> |                 | <b>0:03:05</b>                         | <b>No. of excursion below 50.00 Hz</b> |              | <b>126</b> |