

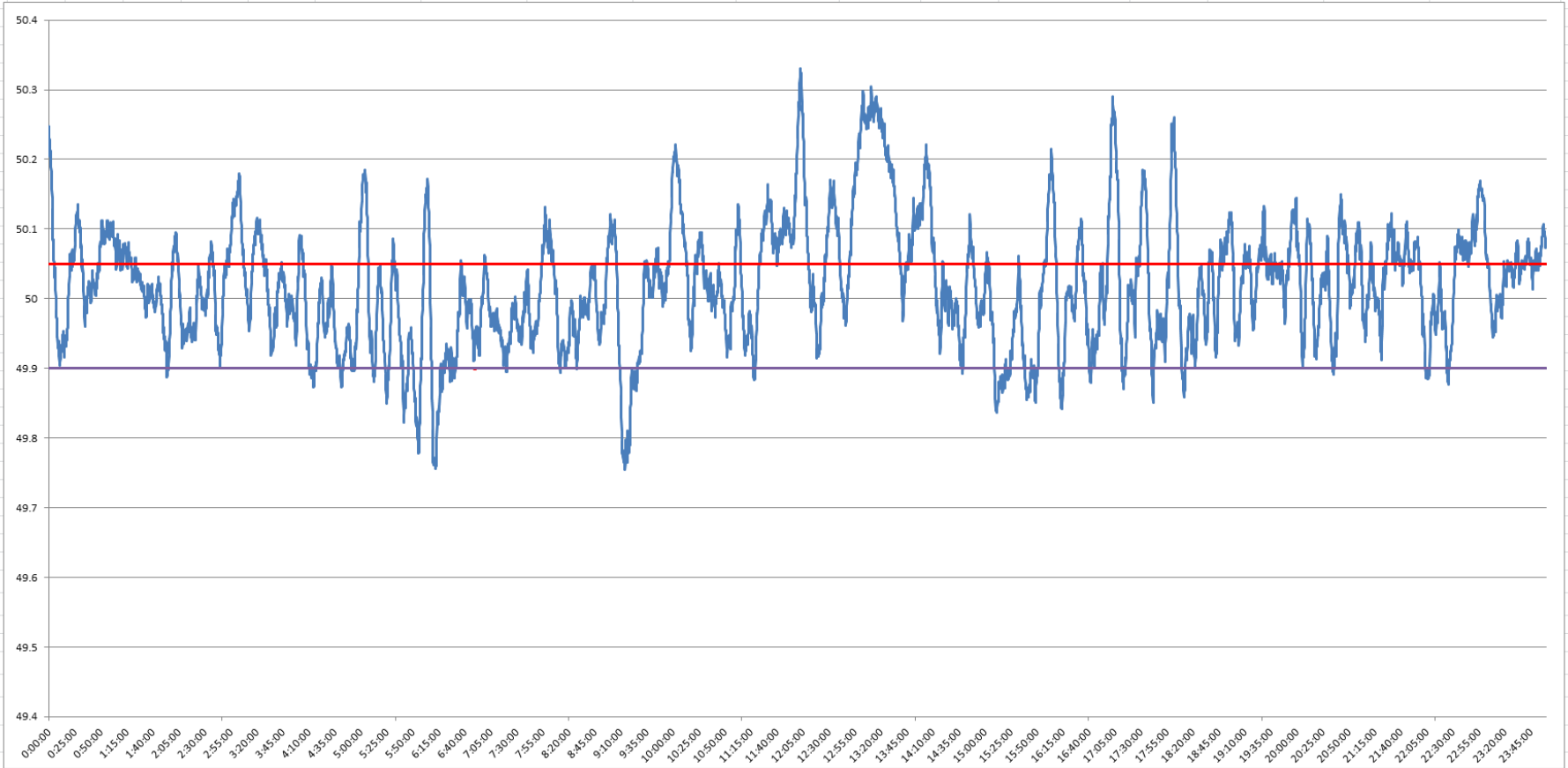


**POWER SYSTEM OPERATION CORPORATION LIMITED**  
NATIONAL LOAD DESPATCH CENTRE NEW DELHI

NTPC-VINDHYACHAL:Frequency

National Grid Frequency Profile for

20-Nov-14



|       |       |           |           |           |           |           |       |        |             |        |            |           |             |
|-------|-------|-----------|-----------|-----------|-----------|-----------|-------|--------|-------------|--------|------------|-----------|-------------|
| <49.2 | <49.7 | 49.7-49.8 | 49.8-49.9 | 49.9-50.0 | 50.0-50.1 | 50.1-50.2 | >50.2 | <49.90 | 49.90-50.05 | >50.05 | 50.05-50.1 | 49.7-50.2 | 49.97-50.03 |
| 0     | 0.00  | 0.94      | 6.82      | 34.99     | 41.92     | 11.72     | 3.61  | 7.75   | 57.84       | 34.41  | 19.13      | 96.39     | 25.37       |

|                          |  |              |                                    |  |              |                             |  |              |
|--------------------------|--|--------------|------------------------------------|--|--------------|-----------------------------|--|--------------|
| <b>Average Frequency</b> |  | <b>50.02</b> | <b>Frequency Variation Index :</b> |  | <b>0.083</b> | <b>Standard Deviation :</b> |  | <b>0.089</b> |
|--------------------------|--|--------------|------------------------------------|--|--------------|-----------------------------|--|--------------|

| Instantaneous Frequency |       |          | 15 minute average Frequency |        |          |
|-------------------------|-------|----------|-----------------------------|--------|----------|
| MAX                     | 50.33 | 12:02:50 | Max                         | 50.264 | 13:15:00 |
| Min                     | 49.76 | 9:14:10  | Min                         | 49.863 | 9:30:00  |