

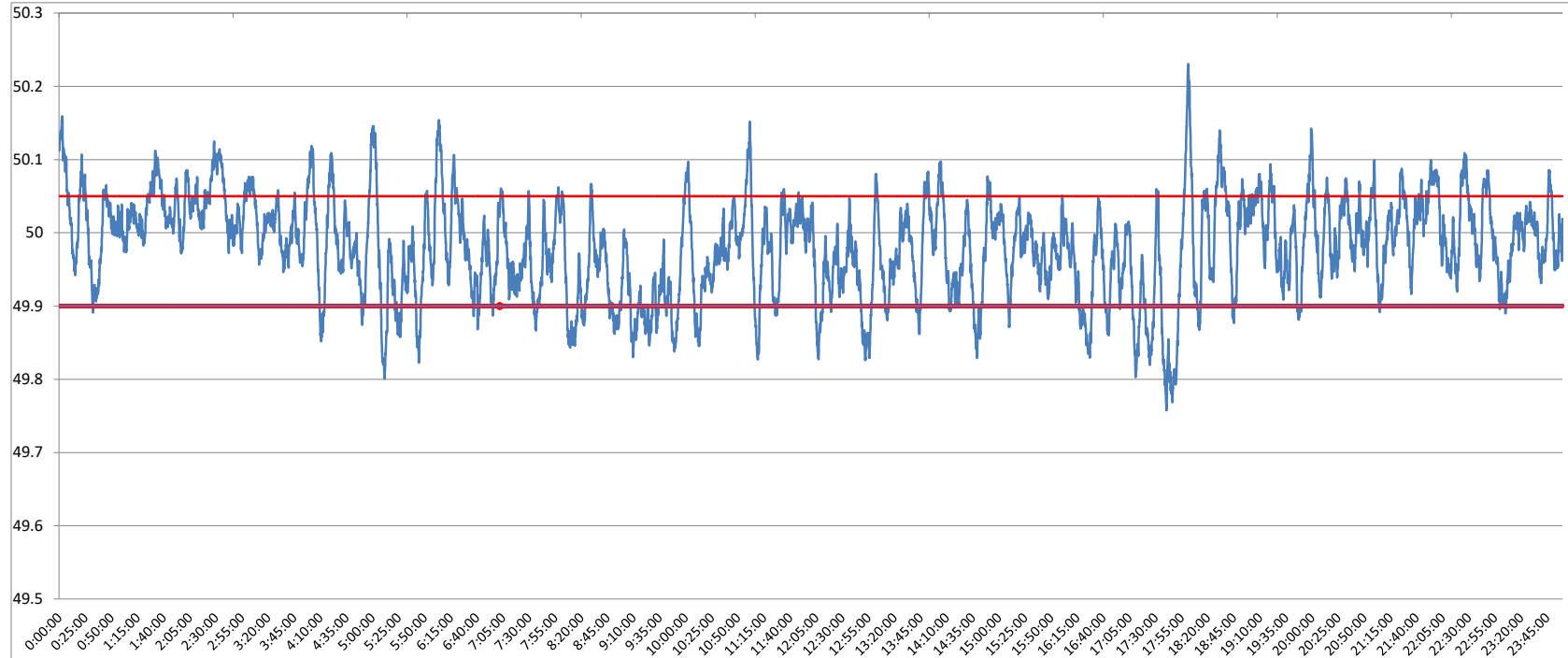


**POWER SYSTEM OPERATION CORPORATION LIMITED**  
NATIONAL LOAD DESPATCH CENTRE NEW DELHI

NTPC-VINDHYACHAL:Frequency

National Grid Frequency Profile for

03-Dec-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	13.08	41.70	0.39	12.69	45.15	38.99	2.65	72.44	99.87	34.51	11.74	41.74	23.78	14.48	0.13

<b>Average Frequency</b>	<b>49.98</b>	<b>Frequency Variation Index :</b>	<b>0.049</b>	<b>Standard Deviation :</b>	<b>0.067</b>
--------------------------	--------------	------------------------------------	--------------	-----------------------------	--------------

<b>Instantaneous Frequency</b>	
<b>Max</b>	<b>50.23 18:01:20</b>
<b>Min</b>	<b>49.76 17:40:30</b>

<b>15 minute average Frequency</b>		
<b>Max</b>	<b>50.063</b>	<b>0:15:00</b>
<b>Min</b>	<b>49.879</b>	<b>16:30:00</b>

<b>No. of excursion above 50.03 Hz</b>	<b>129</b>
<b>No. of excursion below 49.97 Hz</b>	<b>138</b>
<b>No. of excursion above 50.00 Hz</b>	<b>154</b>
<b>No. of excursion below 50.00 Hz</b>	<b>153</b>

<b>Average time freq remains below 49.97 per excursion</b>	<b>0:04:21</b>	<b>Average time frequency remains above 50.03 per excursion</b>	<b>0:02:39</b>
--	----------------	---	----------------