

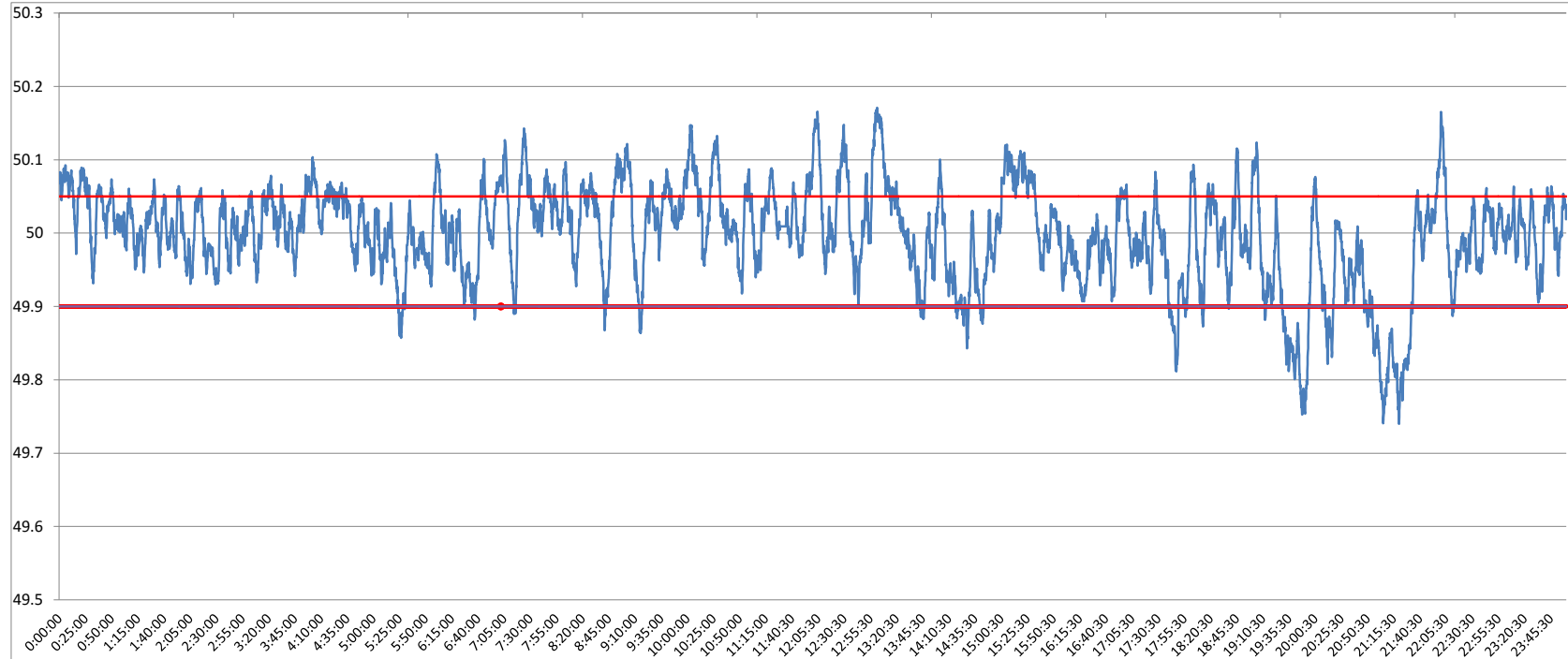


**POWER SYSTEM OPERATION CORPORATION LIMITED**  
NATIONAL LOAD DESPATCH CENTRE NEW DELHI

NTPC-VINDHYACHAL:Frequency

National Grid Frequency Profile for

04-Jul-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	8.30	29.79	1.27	7.03	38.30	49.39	4.02	70.27	100.00	37.36	17.48	53.37	32.85	21.44	0.00

<b>Average Frequency</b>	<b>50.00</b>	<b>Frequency Variation Index :</b>	<b>0.046</b>	<b>Standard Deviation :</b>	<b>0.068</b>
--------------------------	--------------	------------------------------------	--------------	-----------------------------	--------------

<b>Instantaneous Frequency</b>	
<b>Max</b>	<b>50.17 13:01:50</b>
<b>Min</b>	<b>49.74 21:20:40</b>

<b>15 minute average Frequency</b>		
<b>Max</b>	<b>50.108</b>	<b>13:15:00</b>
<b>Min</b>	<b>49.804</b>	<b>21:30:00</b>

<b>No. of excursion above 50.03 Hz</b>	<b>156</b>
<b>No. of excursion below 49.97 Hz</b>	<b>130</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>0:03:18</b>	<b>Average time frequency remains above 50.03 per excursion</b>	<b>0:03:02</b>
--	----------------	---	----------------