

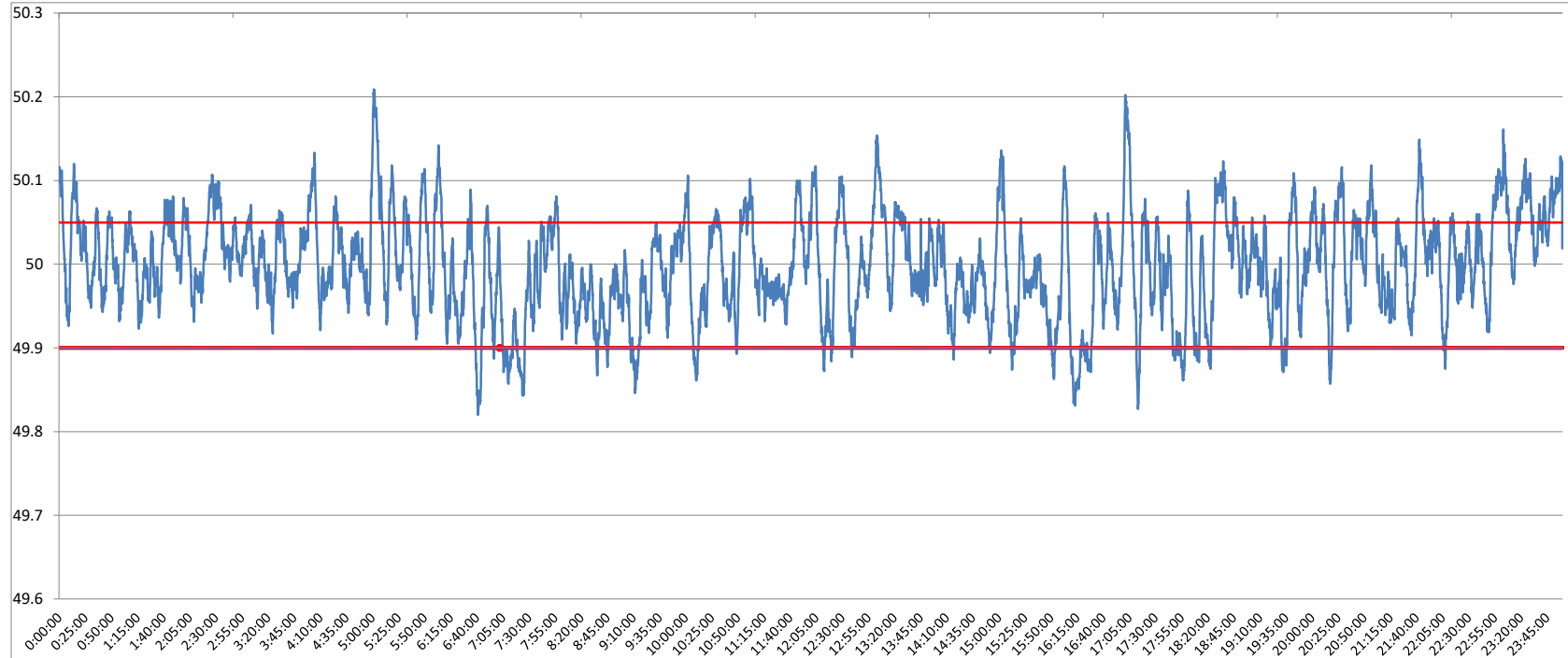


**POWER SYSTEM OPERATION CORPORATION LIMITED**  
NATIONAL LOAD DESPATCH CENTRE NEW DELHI

400KV KALWA:Frequency

National Grid Frequency Profile for

19-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	6.24	32.52	0.00	6.24	45.34	44.20	4.14	73.76	99.92	36.63	16.55	47.18	30.84	20.00	0.08

<b>Average Frequency</b>	<b>50.00</b>	<b>Frequency Variation Index :</b>	<b>0.037</b>	<b>Standard Deviation :</b>	<b>0.061</b>
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<b>Instantaneous Frequency</b>	
<b>Max</b>	<b>50.21 5:01:30</b>
<b>Min</b>	<b>49.82 6:41:00</b>

<b>15 minute average Frequency</b>		
<b>Max</b>	<b>50.082</b>	<b>0:00:00</b>
<b>Min</b>	<b>49.889</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>141</b>
<b>No. of excursion above 50.00 Hz</b>	<b>107</b>
<b>No. of excursion below 50.00 Hz</b>	<b>95</b>

<b>Average time freq remains below 49.97 per excursion</b>	<b>0:03:19</b>	<b>Average time frequency remains above 50.03 per excursion</b>	<b>0:03:27</b>
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