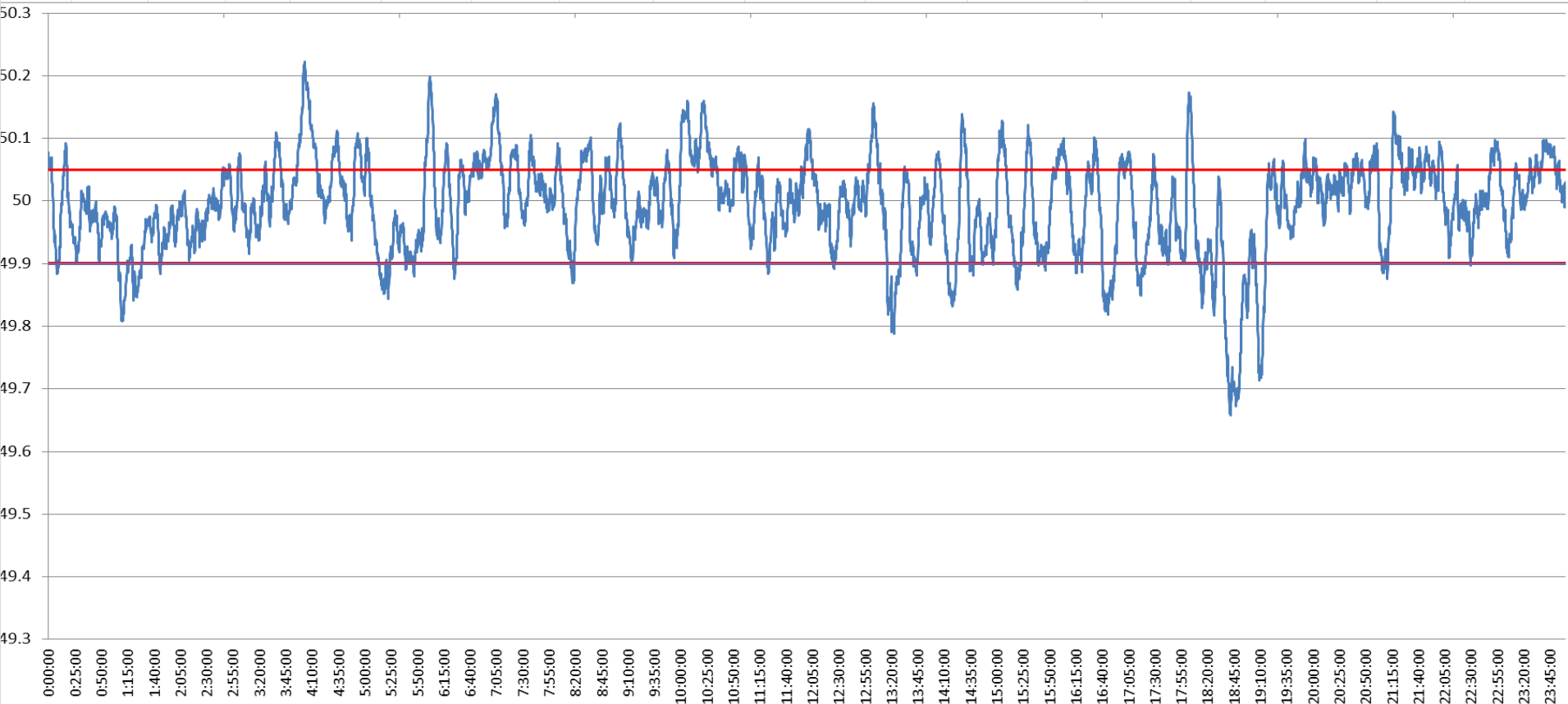




**POWER SYSTEM OPERATION CORPORATION LIMITED**  
NATIONAL LOAD DESPATCH CENTRE NEW DELHI

NTPC-VINDHYACHAL:Frequency

National Grid Frequency Profile for 23-Sep-15



0:00:00	0:25:00	0:50:00	1:15:00	1:40:00	2:05:00	2:30:00	2:55:00	3:20:00	3:45:00	4:10:00	4:35:00	5:00:00	5:25:00	5:50:00	6:15:00	6:40:00	7:05:00	7:30:00	7:55:00	8:20:00	8:45:00	9:10:00	9:35:00	10:00:00	10:25:00	10:50:00	11:15:00	11:40:00	12:05:00	12:30:00	12:55:00	13:20:00	13:45:00	14:10:00	14:35:00	15:00:00	15:25:00	15:50:00	16:15:00	16:40:00	17:05:00	17:30:00	17:55:00	18:20:00	18:45:00	19:10:00	19:35:00	20:00:00	20:25:00	20:50:00	21:15:00	21:40:00	22:05:00	22:30:00	22:55:00	23:20:00	23:45:00
<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	0.46	10.10	34.84	1.05	8.59	40.72	44.54	4.51	66.55	99.41	31.83	18.78	49.12	33.33	23.34	0.13																																									

<b>Average Frequency</b>	<b>49.99</b>	<b>Frequency Variation Index :</b>	<b>0.059</b>	<b>Standard Deviation :</b>	<b>0.076</b>
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<b>Instantaneous Frequency</b>		<b>15 minute average Frequency</b>		<b>No. of excursion above 50.03 Hz</b>	<b>130</b>
<b>Max</b>	<b>50.22 4:03:20</b>	<b>Max</b>	<b>50.141 4:15:00</b>	<b>No. of excursion below 49.97 Hz</b>	<b>107</b>
<b>Min</b>	<b>49.66 18:41:50</b>	<b>Min</b>	<b>49.783 19:00:00</b>	<b>No. of excursion above 50.00 Hz</b>	<b>135</b>
				<b>No. of excursion below 50.00 Hz</b>	<b>134</b>

<b>Average time freq remains below 49.97 per excursion</b>	<b>0:04:41</b>	<b>Average time frequency remains above 50.03 per excursion</b>	<b>0:03:42</b>
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