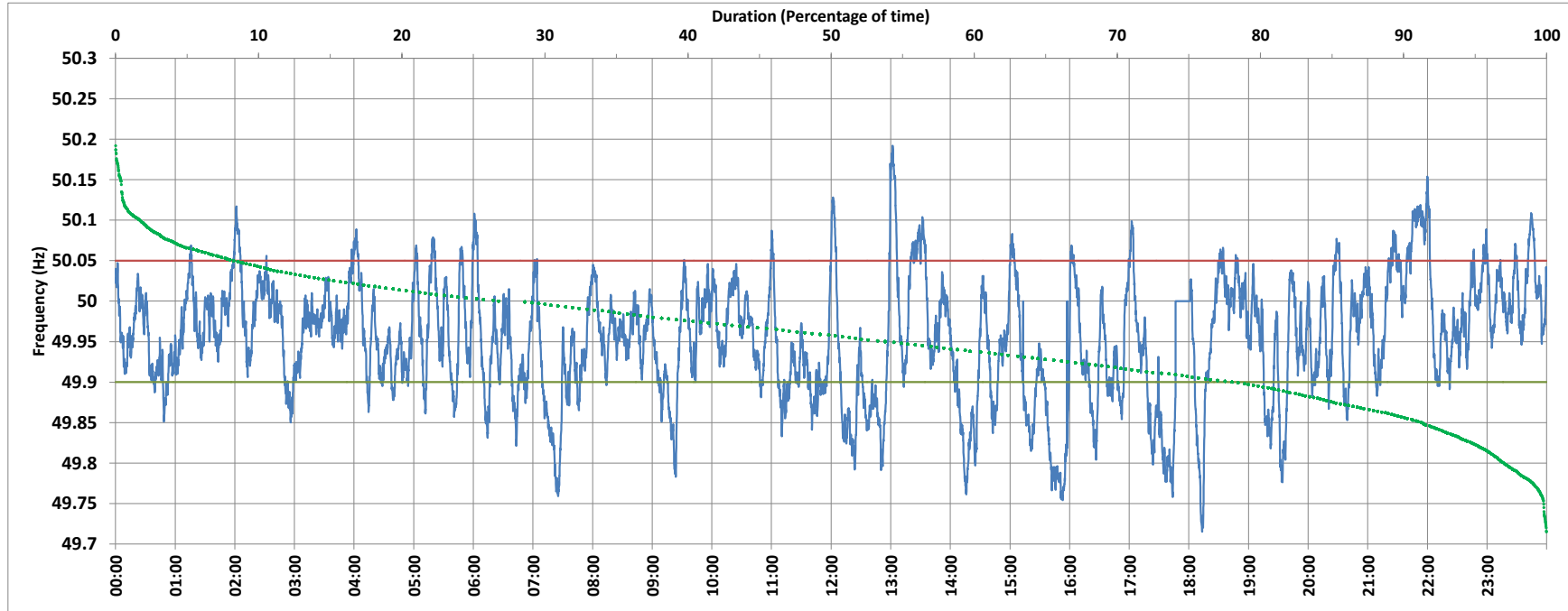


POWER SYSTEM OPERATION CORPORATION LIMITED
NATIONAL LOAD DESPATCH CENTRE NEW DELHI



BAWANA:Frequency

National Grid Frequency Profile for 9-Dec-2017



<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
0.00	21.57	56.41	2.94	18.63	49.83	26.85	1.75	70.19	100.00	30.06	6.86	26.74	13.53	8.24	0.00

Average Frequency :	49.954	Frequency Variation Index :	0.075	Standard Deviation :	0.073
---------------------	--------	-----------------------------	-------	----------------------	-------

Instantaneous Frequency	
Max	50.192 13:01:50
Min	49.715 18:13:10

15 minute Average Frequency	
Max	50.104 22:00:00
Min	49.802 16:00:00

No. of excursions above 50.03 Hz	70
No. of excursions below 49.97 Hz	125
No. of excursions above 50.00 Hz	100
No. of excursions below 50.00 Hz	102

Average time freq remains below 49.97 per excursion	0:06:30	Average time frequency remains above 50.03 per excursion	0:02:47
-----------------------------------------------------	---------	----------------------------------------------------------	---------