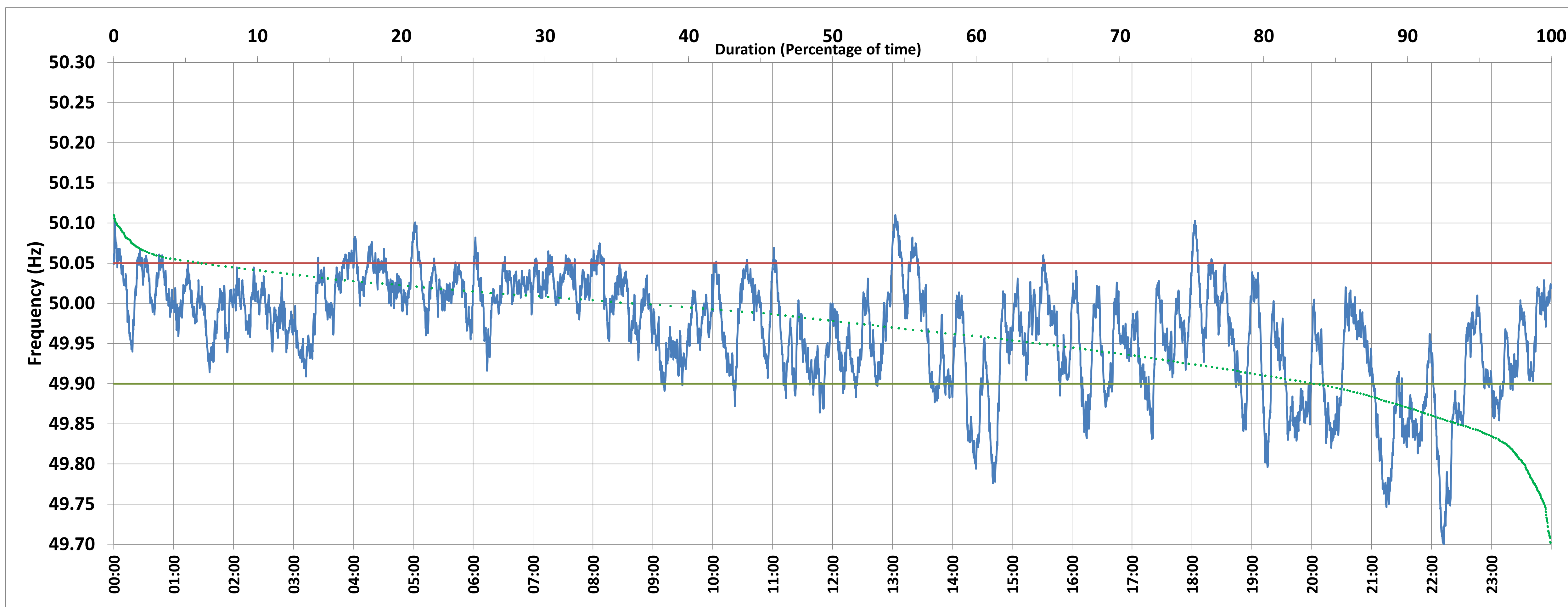


POWER SYSTEM OPERATION CORPORATION LIMITED

NATIONAL LOAD DESPATCH CENTRE, NEW DELHI



Frequency profile for 07-Jun-2018 (Thursday)



<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	<49.95	49.95-50.05	49.90-49.95
0.0	16.1	45.4	1.8	14.3	46.6	37.1	0.2	77.8	100.0	39.2	6.2	36.1	15.5	6.1	0.0	35.1	58.8	19.0

Average Frequency : 49.966	Frequency Variation Index : 0.056	Standard Deviation : 0.067	Mileage: 45.6	FDI: 22.2
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Instantaneous Frequency		
Max	50.110	13:02:50
Min	49.699	22:12:30

15 minute Average Frequency		
Max	50.057	13:15:00
Min	49.800	22:15:00

No. of excursions	
above 50.03 Hz	102
below 49.97 Hz	108
above 50.00 Hz	102
below 50.00 Hz	96

Average time freq per excursion remains	
below 49.97	0:06:03
above 50.03	0:02:11

No. of hours freq outside 49.9-50.05 Hz	5:20:00
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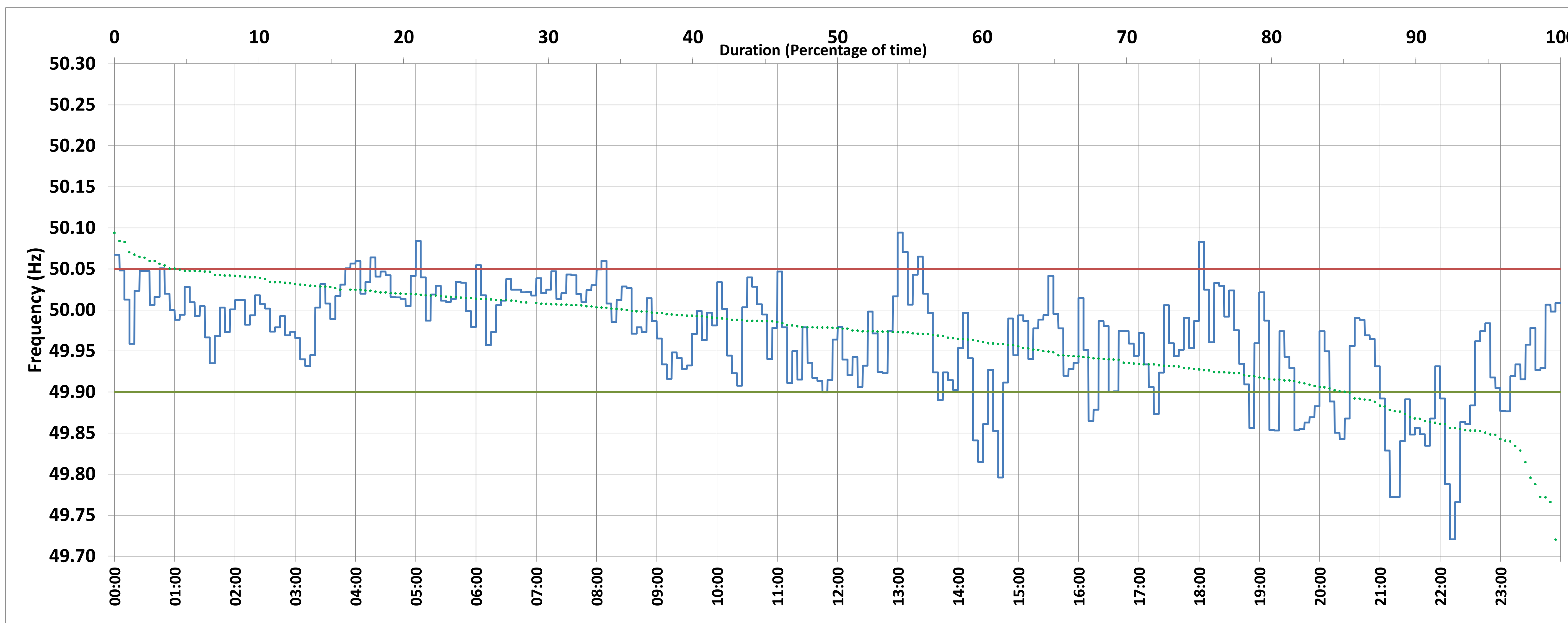
Source : BALLIA:Frequency 10 Sec. (8640 samples)

POWER SYSTEM OPERATION CORPORATION LIMITED

NATIONAL LOAD DESPATCH CENTRE, NEW DELHI



5 Min. Average Frequency profile for 07-Jun-2018 (Thursday)



<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	<49.95	49.95-50.05	49.90-49.95
0.00	14.58	43.40	2.08	12.50	49.65	35.76	0.00	80.90	100.00	43.06	4.51	35.76	13.54	4.51	0.00	35.4	60.1	20.8

Average Frequency : 49.966	Frequency Variation Index : 0.053	Standard Deviation : 0.064	Mileage: 9.3	FDI: 19.1
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Instantaneous Frequency		
Max	50.110	13:02:50
Min	49.699	22:12:30

5 minute Average Frequency		
Max	50.094	13:05:00
Min	49.720	22:20:00

No. of excursions	
above 50.03 Hz	22
below 49.97 Hz	32
above 50.00 Hz	27
below 50.00 Hz	26

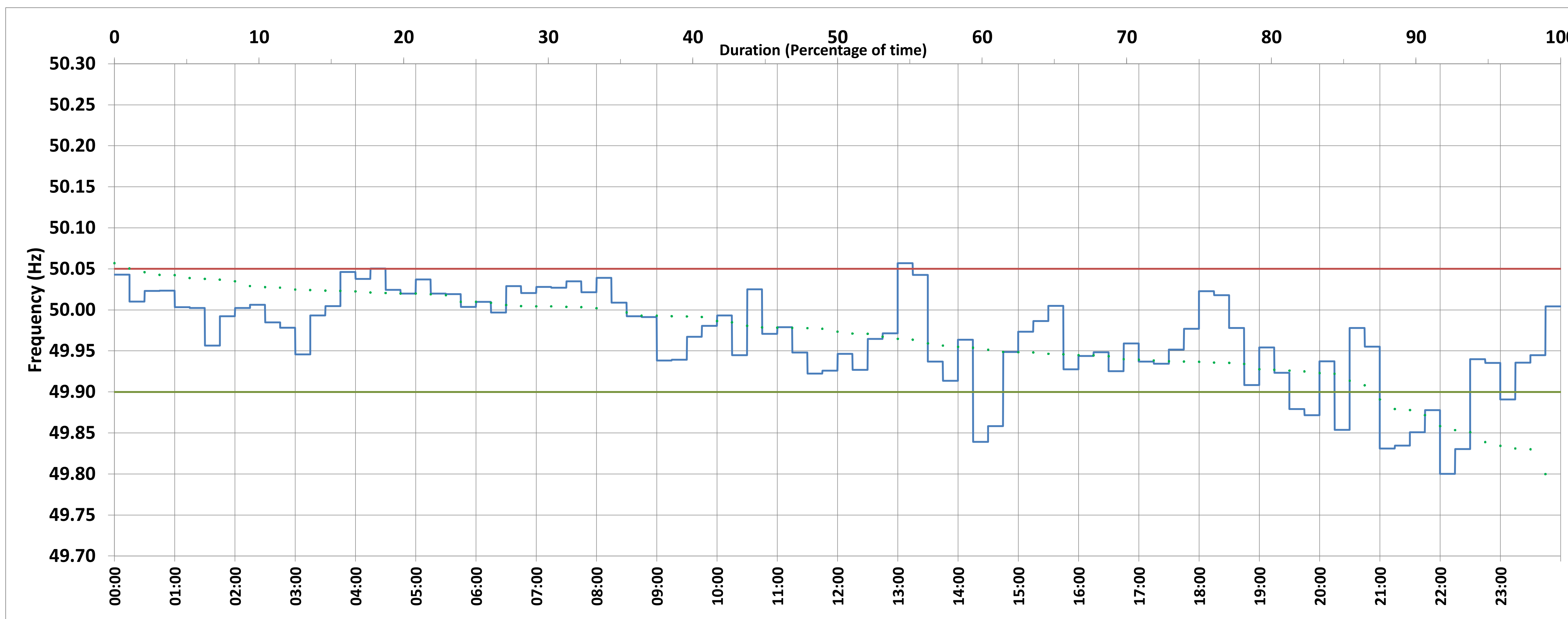
Average time freq per excursion remains	
below 49.97	0:19:32
above 50.03	0:08:52

Source : BALLIA:Frequency 5 Min. (288 samples)

POWER SYSTEM OPERATION CORPORATION LIMITED

NATIONAL LOAD DESPATCH CENTRE, NEW DELHI

15 Min. Average Frequency profile for 07-Jun-2018 (Thursday)



<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	<49.95	49.95-50.05	49.90-49.95
0.00	12.50	46.88	0.00	12.50	52.08	35.42	0.00	85.42	100.00	43.75	2.08	35.42	9.38	2.08	0.00	38.5	59.4	26.0

Average Frequency : 49.966	Frequency Variation Index : 0.044	Standard Deviation : 0.058	Mileage: 3.0	FDI: 14.6
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Instantaneous Frequency		
Max	50.110	13:02:50
Min	49.699	22:12:30

15 minute Average Frequency		
Max	50.057	13:15:00
Min	49.800	22:15:00

No. of excursions	
above 50.03 Hz	6
below 49.97 Hz	9
above 50.00 Hz	9
below 50.00 Hz	8

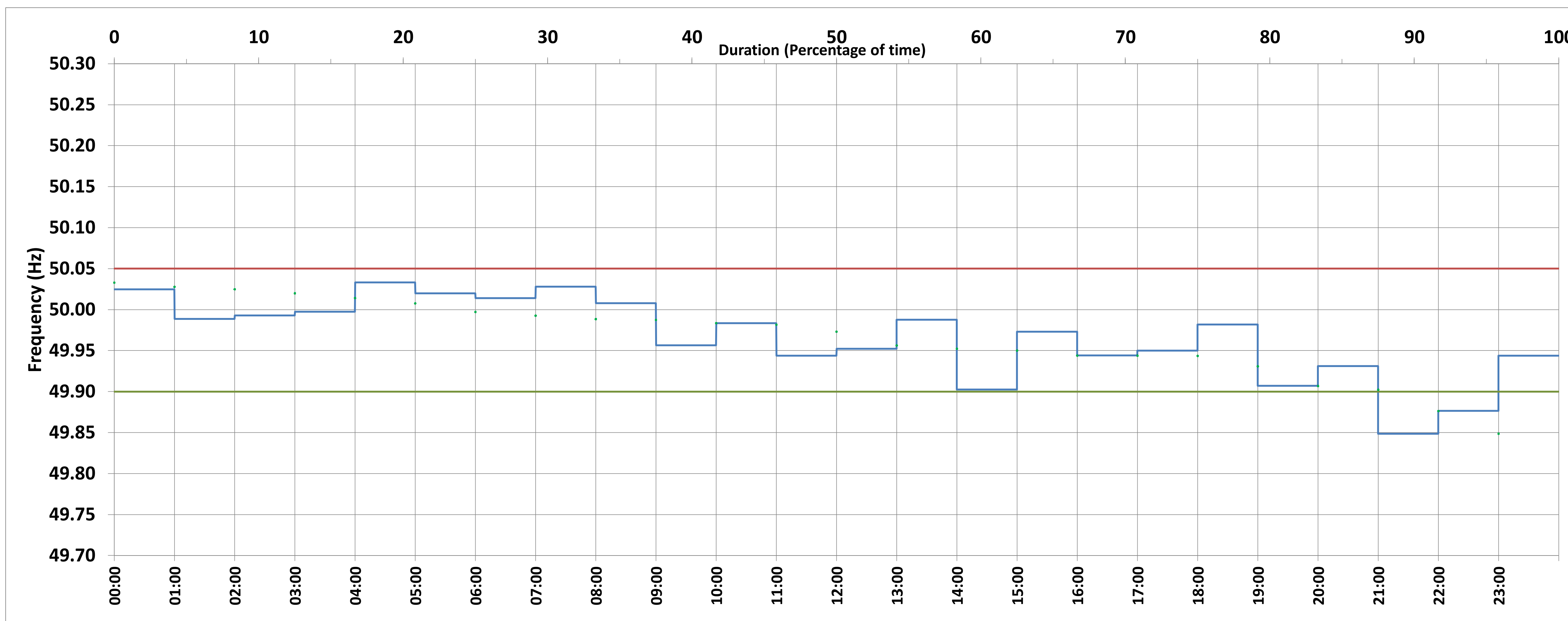
Average time freq per excursion remains	
below 49.97	1:15:00
above 50.03	0:22:30

Source : BALLIA:Frequency 15 Min. (96 samples)

POWER SYSTEM OPERATION CORPORATION LIMITED

NATIONAL LOAD DESPATCH CENTRE, NEW DELHI

Hourly Average Frequency profile for 07-Jun-2018 (Thursday)



<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	<49.95	49.95-50.05	49.90-49.95
0.00	8.33	45.83	0.00	8.33	66.67	25.00	0.00	91.67	100.00	50.00	0.00	25.00	4.17	0.00	0.00	33.3	66.7	25.0

Average Frequency : 49.966	Frequency Variation Index : 0.034	Standard Deviation : 0.048	Mileage: 0.8	FDI: 8.3
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Instantaneous Frequency		
Max	50.110	13:02:50
Min	49.699	22:12:30

An Hour Average Frequency		
Max	50.033	5:00:00
Min	49.849	22:00:00

No. of excursions	
above 50.03 Hz	1
below 49.97 Hz	5
above 50.00 Hz	2
below 50.00 Hz	2

Average time freq per excursion remains	
below 49.97	2:12:00
above 50.03	1:00:00

Source : BALLIA:Frequency 60 Min. (24 samples)