

ภาคผนวก จ  
ผลการตรวจวัดคุณภาพอากาศที่ระบายออกจากปล่องโรงไฟฟ้า

ผลการตรวจวัดคุณภาพอากาศที่ระบายออกจากปล่องโรงไฟฟ้า  
แบบต่อเนื่อง (CEMS)

ตารางที่ จ-1 สรุปผลการตรวจวัดคุณภาพอากาศที่ระบายออกจากปล่องโรงไฟฟ้าแบบต่อเนื่อง (CEMS)  
โรงไฟฟ้าพระนครเหนือ ชุดที่ 1 ระหว่างเดือนมกราคม-มิถุนายน 2566

โรงไฟฟ้าชุดที่ 1	ดัชนีที่ตรวจวัด	มกราคม	กุมภาพันธ์	มีนาคม	เมษายน	พฤษภาคม	มิถุนายน	ค่ามาตรฐาน	ค่าควบคุม
เครื่องที่ 1	Flow (KNm <sup>3</sup> /hr)								
	ค่าต่ำสุด	1,264.04	1,412.95	1,421.43	1,459.03	1,416.91	1,403.24	-	-
	ค่าสูงสุด	1,483.42	1,475.03	1,492.30	1,474.61	1,466.88	1,450.29	-	-
	ค่าเฉลี่ย	1,422.26	1,453.70	1,461.98	1,467.74	1,440.63	1,439.39	-	-
	NOx (ppm)								
	ค่าต่ำสุด	34.40	43.60	42.00	42.80	43.00	40.90	120	96
	ค่าสูงสุด	58.70	48.50	46.30	46.10	46.10	44.20	120	96
	ค่าเฉลี่ย	44.64	45.01	43.92	44.56	44.44	42.30	120	96
	SO <sub>2</sub> (ppm)								
	ค่าต่ำสุด	1.50	1.80	0.60	0.60	2.00	0.60	20	10
	ค่าสูงสุด	2.10	2.20	2.30	0.80	2.20	2.30	20	10
	ค่าเฉลี่ย	1.82	2.04	1.59	0.69	2.15	1.75	20	10
	O <sub>2</sub> (%)								
	ค่าต่ำสุด	13.30	13.30	13.20	13.20	13.10	13.00	-	-
	ค่าสูงสุด	13.90	13.60	13.80	13.50	13.50	13.60	-	-
	ค่าเฉลี่ย	13.64	13.43	13.37	13.29	13.24	13.20	-	-
เครื่องที่ 2	Flow (KNm <sup>3</sup> /hr)								
	ค่าต่ำสุด	1,235.51	1,383.48	1,390.52	1,428.95	1,408.66	1,393.45	-	-
	ค่าสูงสุด	1,457.52	1,445.83	1,464.30	1,444.81	1,457.28	1,440.94	-	-
	ค่าเฉลี่ย	1,393.90	1,424.63	1,432.12	1,437.76	1,431.68	1,430.47	-	-
	NOx (ppm)								
	ค่าต่ำสุด	35.70	38.80	38.60	38.70	36.00	36.40	120	96
	ค่าสูงสุด	58.80	47.20	49.60	42.80	43.80	45.60	120	96
	ค่าเฉลี่ย	46.37	41.74	41.90	40.04	38.12	38.74	120	96
	SO <sub>2</sub> (ppm)								
	ค่าต่ำสุด	0.00	1.00	0.90	1.00	0.90	0.30	20	10
	ค่าสูงสุด	1.20	1.30	1.30	1.10	1.20	1.20	20	10
	ค่าเฉลี่ย	0.88	1.09	1.09	1.05	1.14	0.88	20	10
	O <sub>2</sub> (%)								
	ค่าต่ำสุด	13.30	13.10	13.20	13.20	13.10	13.10	-	-
	ค่าสูงสุด	13.80	13.50	13.90	13.50	13.50	13.60	-	-
	ค่าเฉลี่ย	13.52	13.28	13.45	13.33	13.23	13.27	-	-

หมายเหตุ : - หมายถึง ไม่มีการกำหนดค่ามาตรฐานหรือค่าควบคุม

ตารางที่ จ-2 สรุปผลการตรวจวัดคุณภาพอากาศที่ระบายออกจากปล่องโรงไฟฟ้าแบบต่อเนื่อง (CEMS)  
โรงไฟฟ้าพระนครเหนือ ชุดที่ 2 ระหว่างเดือนมกราคม-มิถุนายน 2566

โรงไฟฟ้าชุดที่ 2	ดัชนีที่ตรวจวัด	มกราคม	กุมภาพันธ์	มีนาคม	เมษายน	พฤษภาคม	มิถุนายน	ค่ามาตรฐาน	ค่าควบคุม
เครื่องที่ 1	Flow (KNm <sup>3</sup> /hr)								
	ค่าต่ำสุด	1,341.83	1,398.82	1,345.42	1,485.95	1,649.87	1,509.34	-	-
	ค่าสูงสุด	1,919.91	1,820.12	1,918.11	1,879.29	1,923.82	1,912.25	-	-
	ค่าเฉลี่ย	1,635.07	1,528.90	1,622.05	1,674.99	1,806.14	1,740.17	-	-
	NOx (ppm)								
	ค่าต่ำสุด	13.70	6.80	5.90	16.00	14.10	14.60	120	70
	ค่าสูงสุด	22.20	23.80	23.30	25.00	21.90	20.20	120	70
	ค่าเฉลี่ย	16.55	16.64	13.83	22.05	18.58	17.34	120	70
	SO <sub>2</sub> (ppm)								
	ค่าต่ำสุด	0.00	0.00	0.00	0.00	0.00	0.00	20	10
	ค่าสูงสุด	0.30	2.00	2.50	1.20	1.40	2.00	20	10
	ค่าเฉลี่ย	0.04	0.79	0.95	0.40	0.10	1.18	20	10
	O <sub>2</sub> (%)								
	ค่าต่ำสุด	12.60	12.70	12.60	12.60	12.60	12.70	-	-
	ค่าสูงสุด	13.20	13.10	13.60	13.00	13.10	13.10	-	-
	ค่าเฉลี่ย	12.99	12.97	12.96	12.90	12.84	12.99	-	-
เครื่องที่ 2	Flow (KNm <sup>3</sup> /hr)								
	ค่าต่ำสุด	1,387.17	1,073.21	969.24	765.93	1,334.81	939.09	-	-
	ค่าสูงสุด	1,964.44	1,911.19	1708.10	1,938.64	1,962.72	1,577.49	-	-
	ค่าเฉลี่ย	1,744.42	1,344.84	1315.71	1,249.22	1,658.03	1,260.32	-	-
	NOx (ppm)								
	ค่าต่ำสุด	6.00	1.50	3.10	6.10	4.80	6.20	120	70
	ค่าสูงสุด	9.40	8.00	8.40	8.10	8.30	10.70	120	70
	ค่าเฉลี่ย	7.31	4.19	5.80	7.64	6.69	7.80	120	70
	SO <sub>2</sub> (ppm)								
	ค่าต่ำสุด	3.40	3.20	2.90	2.60	0.90	0.90	20	10
	ค่าสูงสุด	5.10	7.10	5.90	6.30	4.70	6.00	20	10
	ค่าเฉลี่ย	4.34	4.92	4.63	4.97	2.79	3.80	20	10
	O <sub>2</sub> (%)								
	ค่าต่ำสุด	12.70	12.80	12.70	12.70	12.60	12.70	-	-
	ค่าสูงสุด	13.20	13.20	13.20	13.20	13.10	13.10	-	-
	ค่าเฉลี่ย	13.03	13.07	13.04	12.98	12.90	13.00	-	-

หมายเหตุ : - หมายถึง ไม่มีการกำหนดค่ามาตรฐานหรือค่าควบคุม

ผลการตรวจสอบความถูกต้องของการทำงานระบบ CEMS

โรงไฟฟ้าพระนครเหนือ ชุดที่ 1

## Relative Accuracy Determination for CEMS: North Bangkok Combined Cycle Power Plant Unit 11

<b>Plant:</b>	North Bangkok Combined Cycle Power Plant
<b>Source Identification:</b>	NB-C11
<b>Date:</b>	17 January 2023
<b>Comparison:</b>	Dry Basis Reference Versus Dry Basis Source, 0 °C, 760 mm.Hg

RATA Run No.	Time		Load (MW)	RM flow (10 <sup>3</sup> x Nm <sup>3</sup> /hr)	CEM flow (10 <sup>3</sup> x Nm <sup>3</sup> /hr)	Difference (10 <sup>3</sup> x Nm <sup>3</sup> /hr)
	Start	End				
1	9.00	9.15	226	1,499.16	1,350.62	148.54
2	9.16	9.30	226	1,499.26	1,349.08	150.18
3	9.31	9.45	226	1,501.31	1,352.05	149.26
4	9.46	10.00	226	1,501.35	1,356.89	144.46
5	10.01	10.15	226	1,509.54	1,354.63	154.91
6	10.16	10.30	226	1,509.62	1,353.87	155.75
7	10.31	10.45	226	1,508.00	1,353.33	154.67
8	10.46	11.00	226	1,510.25	1,356.03	154.22
9	11.01	11.15	226	1,508.06	1,355.12	152.94
10	11.16	11.30	226	1,508.17	1,348.67	159.50
11	11.31	11.45	226	1,515.94	1,324.53	191.41
12	11.46	12.00	226	1,515.98	1,320.94	195.04
<b>Average</b>			226	1,507.22	1,347.98	159.24
			<b>Confidence Coefficient:</b>			12.01
			<b>Relative Accuracy (%):</b>			<b>11.36</b>
			<b>Performance Specification (%RA):</b>			20% <sup>*/</sup>

<sup>\*/</sup> 20% of RM value

**Audited by :** Thanita Muenwichit  
Technician

**Approved by :** Buntoon Intim  
Scientist : ๖-065-๓-6223

## Relative Accuracy Determination for CEMS: North Bangkok Combined Cycle Power Plant Unit 11

<b>Plant:</b>	North Bangkok Combined Cycle Power Plant
<b>Source Identification:</b>	NB-C11
<b>Date:</b>	17 January 2023

RATA Run No.	Time		Load (MW)	SO <sub>2</sub> <sup>1/</sup>			NO <sub>x</sub> <sup>1/</sup>			O <sub>2</sub> <sup>2/</sup>		
	Start	End		Instrumental RM	CEMS	Difference	Instrumental RM	CEMS	Difference	Instrumental RM	CEMS	Difference
1	9:01	9:30	226	0.7	1.7	-1.0	53.1	53.5	-0.4	12.9	13.2	-0.3
2	9:31	10:00	226	0.7	1.7	-1.0	53.3	54.0	-0.7	12.9	13.2	-0.3
3	10:01	10:30	226	0.7	1.8	-1.1	54.0	55.2	-1.2	12.9	13.3	-0.4
4	10:31	11:00	226	0.7	1.8	-1.1	54.3	55.6	-1.3	12.9	13.3	-0.4
5	11:01	11:30	226	0.7	1.9	-1.2	54.6	56.2	-1.6	12.9	13.3	-0.4
6	11:31	12:00	226	0.7	1.8	-1.1	54.4	55.7	-1.3	12.9	13.3	-0.4
7	12:01	12:30	226	0.7	2.0	-1.3	54.7	55.7	-1.0	12.9	13.3	-0.4
8	12:31	13:00	226	0.7	1.9	-1.2	54.5	55.9	-1.4	12.9	13.3	-0.4
9	13:01	13:30	226	0.7	2.0	-1.3	54.2	55.6	-1.4	12.9	13.3	-0.4
10	13:31	14:00	226	0.7	2.0	-1.3	54.5	56.3	-1.8	12.9	13.3	-0.4
11	14:01	14:30	226	0.7	2.0	-1.3	54.7	56.4	-1.7	12.9	13.3	-0.4
12	14:31	15:00	226	0.7	2.0	-1.3	54.7	56.6	-1.9	12.9	13.3	-0.4
Average:			226	0.7	1.9	-1.2	54.3	55.6	-1.3	12.9	13.3	-0.4
Confidence Coefficient:				0.1			0.3			-		
Relative Accuracy (%):				6.3			1.3			0.4		
Performance Specification (%RA):				≤ 10% <sup>3/</sup>			≤ 10% <sup>3/</sup>			≤ 1% <sup>4/</sup>		

<sup>1/</sup> comparison on a consistent basis (dry and 7% oxygen)

<sup>2/</sup> comparison on a consistent basis (dry and actual oxygen)

<sup>3/</sup> 10% of emission standard (SO<sub>2</sub> = 20 ppmvd@7% O<sub>2</sub>, NO<sub>x</sub> = 120 ppmvd@7%O<sub>2</sub>)

<sup>4/</sup> 1% of Oxygen (RM value)

<sup>5/</sup> 20% of RM value

**Audited by :** Thanita Muenwichit  
Technician

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Scientist : 3-065-๙-6223



## Relative Accuracy Determination for CEMS: North Bangkok Combined Cycle Power Plant Unit 12

<b>Plant:</b>	North Bangkok Combined Cycle Power Plant
<b>Source Identification:</b>	NB-C12
<b>Date:</b>	19 January 2023
<b>Comparison:</b>	Dry Basis Reference Versus Dry Basis Source, 0 °C, 760 mm.Hg

RATA Run No.	Time		Load (MW)	RM flow (10 <sup>3</sup> x Nm <sup>3</sup> /hr)	CEM flow (10 <sup>3</sup> x Nm <sup>3</sup> /hr)	Difference (10 <sup>3</sup> x Nm <sup>3</sup> /hr)
	Start	End				
1	9.00	9.15	226	1,585.84	1,338.42	247.42
2	9.16	9.30	226	1,585.70	1,337.16	248.54
3	9.31	9.45	226	1,596.25	1,337.36	258.89
4	9.46	10.00	226	1,596.33	1,338.03	258.30
5	10.01	10.15	226	1,583.46	1,340.17	243.29
6	10.16	10.30	226	1,583.48	1,337.27	246.21
7	10.31	10.45	226	1,563.88	1,337.59	226.29
8	10.46	11.00	226	1,569.34	1,337.86	231.48
9	11.01	11.15	226	1,593.09	1,339.45	253.64
10	11.16	11.30	226	1,593.25	1,338.25	255.00
11	11.31	11.45	226	1,575.56	1,340.79	234.77
12	11.46	12.00	226	1,575.52	1,338.10	237.42
<b>Average</b>			226	1,583.48	1,338.37	245.10
			<b>Confidence Coefficient:</b>			7.86
			<b>Relative Accuracy (%):</b>			<b>15.97</b>
			<b>Performance Specification (%RA):</b>			20% <sup>*/</sup>

<sup>\*/</sup> 20% of RM value

**Audited by : Thanita Muenwichit**  
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**Approved by : Buntoon Intim**  
Scientist : ๖-065-๓-6223

## Relative Accuracy Determination for CEMS: North Bangkok Combined Cycle Power Plant Unit 12

<b>Plant:</b>	North Bangkok Combined Cycle Power Plant
<b>Source Identification:</b>	NB-C12
<b>Date:</b>	19 January 2023

RATA Run No.	Time		Load (MW)	SO <sub>2</sub> <sup>1/</sup>			NO <sub>x</sub> <sup>1/</sup>			O <sub>2</sub> <sup>2/</sup>		
	Start	End		Instrumental RM	CEMS	Difference	Instrumental RM	CEMS	Difference	Instrumental RM	CEMS	Difference
1	9:01	9:30	226	0.3	0.9	-0.6	39.8	37.6	2.2	12.9	13.1	-0.2
2	9:31	10:00	226	0.4	0.9	-0.5	39.8	38.4	1.4	12.9	13.1	-0.2
3	10:01	10:30	226	0.6	0.9	-0.3	40.1	38.0	2.1	12.9	13.1	-0.2
4	10:31	11:00	226	0.7	0.9	-0.2	40.1	37.8	2.3	12.9	13.1	-0.2
5	11:01	11:30	226	0.8	1.0	-0.2	39.8	37.4	2.4	12.9	13.1	-0.2
6	11:31	12:00	226	0.8	0.9	-0.1	39.9	37.8	2.1	13.0	13.2	-0.2
7	12:01	12:30	226	0.8	0.9	-0.1	40.3	38.1	2.2	12.9	13.1	-0.2
8	12:31	13:00	226	0.9	0.9	0.0	39.6	37.8	1.8	13.0	13.2	-0.2
9	13:01	13:30	226	0.9	0.9	0.0	39.3	37.5	1.8	13.0	13.2	-0.2
10	13:31	14:00	226	0.9	0.9	0.0	39.5	37.9	1.6	13.0	13.2	-0.2
11	14:01	14:30	226	0.8	0.9	-0.1	39.3	37.8	1.5	13.0	13.2	-0.2
12	14:31	15:00	226	0.8	0.9	-0.1	39.1	37.8	1.3	13.0	13.3	-0.3
Average:			226	0.7	0.9	-0.2	39.7	37.8	1.9	13.0	13.2	-0.2
Confidence Coefficient:				0.1			0.2			-		
Relative Accuracy (%):				1.5			1.8			0.2		
Performance Specification (%RA):				≤ 10% <sup>3/</sup>			≤ 10% <sup>3/</sup>			≤ 1% <sup>4/</sup>		

<sup>1/</sup> comparison on a consistent basis (dry and 7% oxygen)

<sup>2/</sup> comparison on a consistent basis (dry and actual oxygen)

<sup>3/</sup> 10% of emission standard (SO<sub>2</sub> = 20 ppmvd@7% O<sub>2</sub>, NO<sub>x</sub> = 120 ppmvd@7%O<sub>2</sub>)

<sup>4/</sup> 1% of Oxygen (RM value)

<sup>5/</sup> 20% of RM value

**Audited by :** Thanita Muenwchit  
Technician

**Approved by :** Buntoon Intim  
Scientist : 7-065-9-6223

โรงไฟฟ้าพระนครเหนือ ชุดที่ 2

## Relative Accuracy Determination for CEMS : North Bangkok Combined Cycle Power Plant Unit 21

<b>Plant:</b>	North Bangkok Combined Cycle Power Plant
<b>Source Identification:</b>	NB-C21
<b>Date:</b>	24 January 2023
<b>Comparison:</b>	Dry Basis Reference Versus Dry Basis Source, 25 °C, 760 mm.Hg

RATA Run No.	Time		Load (MW)	RM flow (10 <sup>3</sup> x Nm <sup>3</sup> /hr)	CEM flow (10 <sup>3</sup> x Nm <sup>3</sup> /hr)	Difference (10 <sup>3</sup> x Nm <sup>3</sup> /hr)
	Start	End				
1	9.00	9.15	420	1,798.79	1,753.14	45.65
2	9.16	9.30	420	1,798.79	1,747.05	51.74
3	9.31	9.45	420	1,797.58	1,750.93	46.65
4	9.46	10.00	420	1,797.53	1,747.43	50.10
5	10.01	10.15	420	1,796.43	1,745.07	51.36
6	10.16	10.30	420	1,796.39	1,754.37	42.02
7	10.31	10.45	420	1,796.05	1,750.72	45.33
8	10.46	11.00	420	1,799.60	1,751.90	47.70
9	11.01	11.15	420	1,785.95	1,753.82	32.13
10	11.16	11.30	420	1,786.03	1,752.48	33.55
11	11.31	11.45	420	1,792.31	1,752.45	39.86
12	11.46	12.00	420	1,792.34	1,750.95	41.39
<b>Average</b>			420	1,794.82	1,750.86	43.96
			<b>Confidence Coefficient:</b>			4.72
			<b>Relative Accuracy (%):</b>			<b>2.71</b>
			<b>Performance Specification (%RA):</b>			20% <sup>*/</sup>

<sup>\*/</sup> 20% of RM value

**Audited by :** Thanita Muenwichit  
Technician

**Approved by :** Buntoon Intim  
Scientist : ๖-065-๑-6223

Relative Accuracy Determination for CEMS: Norht Bangkok Power Plant #Combined Cycle Plant Unit 21

Plant:	Norht Bangkok Power Plant
Source Identification:	NB-C21
Date:	24 January 2023

RATA Run No.	Time		Load (MW)	SO <sub>2</sub> <sup>1/</sup>			NO <sub>x</sub> <sup>1/</sup>			CO <sup>1/</sup>			O <sub>2</sub> <sup>2/</sup>		
	Start	End		Instrumental RM	CEMS	Difference	Instrumental RM	CEMS	Difference	Instrumental RM	CEMS	Difference	Instrumental RM	CEMS	Difference
				(ppmvd@7% O <sub>2</sub> )			(ppmvd@7% O <sub>2</sub> )			(ppmvd@7% O <sub>2</sub> )			(% dry)		
1	8:01	8:30	420	0.4	0.0	0.4	9.4	8.6	0.8	0.6	0.4	0.2	12.4	12.6	-0.2
2	8:31	9:00	420	0.4	0.0	0.4	9.5	8.4	1.1	0.7	0.5	0.2	12.5	12.6	-0.1
3	9:01	9:30	420	0.4	0.0	0.4	9.6	8.5	1.1	0.7	0.5	0.2	12.5	12.6	-0.1
4	9:31	10:00	420	0.4	0.0	0.4	9.6	8.6	1.0	0.7	0.5	0.2	12.5	12.6	-0.1
5	10:01	10:30	420	0.4	0.0	0.4	9.5	8.6	0.9	0.6	0.4	0.2	12.5	12.6	-0.1
6	10:31	11:00	420	0.4	0.0	0.4	9.3	8.8	0.5	0.6	0.3	0.3	12.5	12.6	-0.1
7	11:01	11:30	420	0.4	0.0	0.4	9.2	9.1	0.1	0.5	0.3	0.2	12.5	12.6	-0.1
8	11:31	12:00	420	0.4	0.0	0.4	9.2	9.1	0.1	0.5	0.2	0.3	12.5	12.6	-0.1
9	12:01	12:30	420	0.4	0.0	0.4	9.2	9.4	-0.2	0.5	0.2	0.3	12.5	12.6	-0.1
10	12:31	13:00	420	0.4	0.0	0.4	9.1	9.4	-0.3	0.5	0.2	0.3	12.5	12.6	-0.1
11	13:01	13:30	420	0.4	0.0	0.4	9.1	9.6	-0.5	0.5	0.2	0.3	12.5	12.6	-0.1
12	13:31	14:00	420	0.4	0.0	0.4	9.0	9.7	-0.7	0.5	0.2	0.3	12.5	12.5	0.0
Average:			420	0.4	0.0	0.4	9.3	9.0	0.3	0.6	0.3	0.3	12.5	12.6	-0.1
Confidence Coefficient:				0.0			0.4			0.0			-		
Relative Accuracy (%):				2.0			0.6			0.0			0.1		
Performance Specification (%RA):				≤ 10% <sup>3/</sup>			≤ 10% <sup>3/</sup>			≤ 5% <sup>4/</sup>			≤ 1% <sup>5/</sup>		

<sup>1/</sup> comparison on a consistant basis (dry and 7% oxygen)  
<sup>2/</sup> comparison on a consistant basis (dry and actual oxygen)  
<sup>3/</sup> 10% of emission standard (SO<sub>2</sub> = 20 ppmvd@7% O<sub>2</sub>, NO<sub>x</sub> = 120 ppmvd@7%O<sub>2</sub>)  
<sup>4/</sup> 5% of emission standard (CO = 690 ppmvd@7%O<sub>2</sub>)  
<sup>5/</sup> 1% of Oxygen (RM value)

Audited by : Thanita Muenwichit  
Technician

Approved by : Buntoon Intim  
Scientist : ๓-065-๐-6223

## Relative Accuracy Determination for CEMS : North Bangkok Combined Cycle Power Plant Unit 22

<b>Plant:</b>	North Bangkok Combined Cycle Power Plant
<b>Source Identification:</b>	NB-C22
<b>Date:</b>	9 May 2023
<b>Comparison:</b>	Dry Basis Reference Versus Dry Basis Source, 25 °C, 760 mm.Hg

RATA Run No.	Time		Load (MW)	RM flow (10 <sup>3</sup> x Nm <sup>3</sup> /hr)	CEM flow (10 <sup>3</sup> x Nm <sup>3</sup> /hr)	Difference (10 <sup>3</sup> x Nm <sup>3</sup> /hr)
	Start	End				
1	13.30	13.45	417	1,767.15	1,786.71	-19.56
2	13.46	14.00	417	1,767.20	1,786.69	-19.49
3	14.01	14.15	417	1,770.56	1,786.74	-16.18
4	14.16	14.30	417	1,770.61	1,779.18	-8.57
5	14.31	14.45	417	1,761.99	1,774.38	-12.39
6	14.46	15.00	417	1,761.95	1,777.53	-15.58
7	15.01	15.15	417	1,770.40	1,770.47	-0.07
8	15.16	15.30	417	1,767.85	1,762.50	5.35
9	15.31	15.45	417	1,764.36	1,768.49	-4.13
10	15.46	16.00	417	1,764.36	1,760.91	3.45
11	16.01	16.15	417	1,772.12	1,767.15	4.97
12	16.16	16.30	417	1,772.11	1,774.93	-2.82
Average			417	1,767.56	1,774.64	-7.09
			Confidence Coefficient:			6.93
			Relative Accuracy (%):			<b>0.79</b>
			Performance Specification (%RA):			20% <sup>*/</sup>

<sup>\*/</sup> 20% of RM value

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Relative Accuracy Determination for CEMS: Norht Bangkok Power Plant #Combined Cycle Plant Unit 22

Plant:	Norht Bangkok Power Plant
Source Identification:	NB-C22
Date:	9 May 2023

RATA Run No.	Time		Load (MW)	SO <sub>2</sub> <sup>1/</sup>			NO <sub>x</sub> <sup>1/</sup>			CO <sup>1/</sup>			O <sub>2</sub> <sup>2/</sup>		
	Start	End		Instrumental RM	CEMS	Difference	Instrumental RM	CEMS	Difference	Instrumental RM	CEMS	Difference	Instrumental RM	CEMS	Difference
				(ppmvd@7% O <sub>2</sub> )			(ppmvd@7% O <sub>2</sub> )			(ppmvd@7% O <sub>2</sub> )			(% dry)		
1	08:01	08:30	417	0.4	0.7	-0.3	6.6	7.3	-0.7	0.7	0.3	0.4	12.3	12.5	-0.2
2	08:31	09:00	417	0.4	0.6	-0.2	6.6	6.9	-0.3	0.6	0.1	0.5	12.3	12.5	-0.2
3	09:01	09:30	417	0.4	0.8	-0.4	6.4	7.3	-0.9	0.8	0.3	0.5	12.3	12.5	-0.2
4	09:31	10:00	417	0.4	0.7	-0.3	6.4	6.6	-0.2	0.8	0.1	0.7	12.3	12.5	-0.2
5	10:01	10:30	417	0.4	0.8	-0.4	6.4	7.4	-1.0	0.8	0.2	0.6	12.3	12.5	-0.2
6	10:31	11:00	417	0.4	0.8	-0.4	6.4	7.3	-0.9	0.8	0.2	0.6	12.3	12.5	-0.2
7	11:01	11:30	417	0.4	0.7	-0.3	6.4	6.8	-0.4	0.8	0.2	0.6	12.3	12.5	-0.2
8	11:31	12:00	417	0.5	0.7	-0.2	6.3	6.4	-0.1	0.9	0.2	0.7	12.3	12.5	-0.2
9	12:01	12:30	417	0.4	0.7	-0.3	6.4	6.6	-0.2	0.8	0.2	0.6	12.2	12.5	-0.3
10	12:31	13:00	417	0.4	0.8	-0.4	6.3	7.2	-0.9	1.0	0.3	0.7	12.2	12.5	-0.3
11	13:01	13:30	417	0.4	0.8	-0.4	6.3	6.6	-0.3	1.0	0.2	0.8	12.2	12.5	-0.3
12	13:31	14:00	417	0.4	0.8	-0.4	6.3	6.2	0.1	1.0	0.2	0.8	12.2	12.5	-0.3
Average:			417	0.4	0.7	-0.3	6.4	6.9	-0.5	0.8	0.2	0.6	12.3	12.5	-0.2
Confidence Coefficient:				0.0			0.2			0.1			-		
Relative Accuracy (%):				1.9			0.6			0.1			0.2		
Performance Specification (%RA):				≤ 10% <sup>3/</sup>			≤ 10% <sup>3/</sup>			≤ 5% <sup>4/</sup>			≤ 1% <sup>5/</sup>		

<sup>1/</sup> comparison on a consistant basis (dry and 7% oxygen)  
<sup>2/</sup> comparison on a consistant basis (dry and actual oxygen)  
<sup>3/</sup> 10% of emission standard (SO<sub>2</sub> = 20 ppmvd@7% O<sub>2</sub>, NO<sub>x</sub> = 120 ppmvd@7%O<sub>2</sub>)  
<sup>4/</sup> 5% of emission standard (CO = 690 ppmvd@7%O<sub>2</sub>)  
<sup>5/</sup> 1% of Oxygen (RM value)

Audited by : Thanita Muenwichit  
Technician

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Scientist : ๓-065-๘-6223

ผลการตรวจวัดคุณภาพอากาศจากปล่องแบบครั้งคราว (Stack Sampling)



Emission Test Results and Relative Standard Deviation (% RSD)

Parameter	Result	
	Sample 1	
	Train A	Train B
Plant	NB-C11	
Sampling Date	19 มกราคม 2566	
Sampling Time	15:30	17:35
Fuel	Natural Gas	
Load (MW)	225	
Stack Temperature (°C)	115	
Oxygen (%)	13.2	
Carbon dioxide (%)	4.4	
Sample Name	C11-1A	C11-1B
Moisture (%)	9.19	9.10
Flue Gas Velocity (m/s)	26.35	26.34
Fuel Gas Flow Rate (m <sup>3</sup> /hr) <sup>1/</sup>	2,197,794	2,199,541
Total Suspended Particulate Concentration(mg/dscm) <sup>2/</sup>	0.91	0.94
Emission Rate (g/s)	0.31	0.32
Average Concentration (mg/dscm) <sup>2/</sup>	0.93	
RSD (%) <sup>3/</sup>	1.84	
RSD Criteria (%) <sup>4/</sup>	25.00	
Valid/Invalid	Valid	

Remark:

<sup>1/</sup> at Standard Pressure Actual O<sub>2</sub>, 760 mmHg, 25°C, and dry basis

<sup>2/</sup> at 7% O<sub>2</sub>, Standard Pressure 760 mmHg, 25°C, and dry basis

<sup>3/</sup> % RSD defined as

$$RSD = 100\% \times \frac{|(C_a - C_b)|}{(C_a + C_b)}$$

<sup>4/</sup> Acceptance limit for persion of paired train is :

- RSD < 10 % ; Concentrations is > 10 mg/dscm
- RSD < 25 % ; Concentrations is ≤1 mg/dscm
- Concentrations between 1 mg/dscm and 10 mg/dscm the allowable RSD decreases linearly from 25% to 10%  
or Determined Using Equation :  $26.67 - (1.67 \times C_{avg})$

Emission Test Results and Relative Standard Deviation (%RSD)

Parameter	Result	
	Sample 1	
	Train A	Train B
Plant	NB-C12	
Sampling Date	17 มกราคม 2566	
Sampling Time	16.50	18.55
Fuel	Natural Gas	
Load (MW)	227	
Stack Temperature (°C)	112	
Oxygen (%)	13.2	
Carbon dioxide (%)	4.4	
Sample Name	C12-1A	C12-1B
Moisture (%)	9.21	9.22
Flue Gas Velocity (m/s)	26.96	26.96
Fuel Gas Flow Rate (m <sup>3</sup> /hr) <sup>1/</sup>	2,265,548	2,265,160
Total Suspended Particulate Concentration(mg/dscm) <sup>2/</sup>	0.99	0.95
Emission Rate (g/s)	0.35	0.33
Average Concentration (mg/dscm) <sup>2/</sup>	0.97	
RSD (%) <sup>3/</sup>	2.18	
RSD Criteria (%) <sup>4/</sup>	25.00	
Valid/Invalid	Valid	

Remark:

<sup>1/</sup> at Standard Pressure Actual O<sub>2</sub>, 760 mmHg, 25°C, and dry basis

<sup>2/</sup> at 7% O<sub>2</sub>, Standard Pressure 760 mmHg, 25°C, and dry basis

<sup>3/</sup> % RSD defined as

$$RSD = 100\% \times \frac{|(C_a - C_b)|}{(C_a + C_b)}$$

<sup>4/</sup> Acceptance limit for persion of paired train is :

- RSD < 10 % ; Concentrations is > 10 mg/dscm
- RSD < 25 % ; Concentrations is ≤1 mg/dscm
- Concentrations between 1 mg/dscm and 10 mg/dscm the allowable RSD decreases linearly from 25% to 10%  
or Determined Using Equation :  $26.67 - (1.67 \times C_{avg})$

Emission Test Results and Relative Standard Deviation (% RSD)

Parameter	Result	
	Sample 1	
	Train A	Train B
Plant	NB-C21	
Sampling Date	25 มกราคม 2566	
Sampling Time	15:55	18:00
Fuel	Natural Gas	
Load (MW)	427	
Stack Temperature (°C)	91	
Oxygen (%)	12.9	
Carbon dioxide (%)	4.7	
Sample Name	C21-1A	C21-1B
Moisture (%)	9.61	9.58
Flue Gas Velocity (m/s)	18.30	18.30
Fuel Gas Flow Rate (m <sup>3</sup> /hr) <sup>1/</sup>	2,028,173	2,028,800
Total Suspended Particulate Concentration(mg/dscm) <sup>2/</sup>	1.08	1.05
Emission Rate (g/s)	0.35	0.34
Average Concentration (mg/dscm) <sup>2/</sup>	1.07	
RSD (%) <sup>3/</sup>	1.55	
RSD Criteria (%) <sup>4/</sup>	24.89	
Valid/Invalid	Valid	

Remark:

<sup>1/</sup> at Standard Pressure Actual O<sub>2</sub>, 760 mmHg, 25°C, and dry basis

<sup>2/</sup> at 7% O<sub>2</sub>, Standard Pressure 760 mmHg, 25°C, and dry basis

<sup>3/</sup> % RSD defined as

$$RSD = 100\% \times \frac{|(C_a - C_b)|}{(C_a + C_b)}$$

<sup>4/</sup> Acceptance limit for persion of paired train is :

- RSD < 10 % ; Concentrations is > 10 mg/dscm
- RSD < 25 % ; Concentrations is ≤1 mg/dscm
- Concentrations between 1 mg/dscm and 10 mg/dscm the allowable RSD decreases linearly from 25% to 10%  
or Determined Using Equation :  $26.67 - (1.67 \times C_{avg})$

Emission Test Results and Relative Standard Deviation (%RSD)

Parameter	Result	
	Sample 1	
	Train A	Train B
Plant	NB-C22	
Sampled Date	10 พฤษภาคม 2566	
Sampled Time	12:20	14:55
Fuel	Natural Gas	
Load (MW)	418	
Stack Temperature (°C)	93	
Oxygen (%)	12.5	
Carbon dioxide (%)	4.7	
Sample Name	C22-1A	C22-1B
Moisture (%)	10.56	10.75
Flue Gas Velocity (m/s)	18.28	18.29
Fuel Gas Flow Rate (m <sup>3</sup> /hr) <sup>1/</sup>	2,169,683	2,165,730
Total Suspended Particulate Concentration(mg/dscm) <sup>2/</sup>	1.46	1.33
Emission Rate (g/s)	0.53	0.48
Average Concentration (mg/dscm) <sup>2/</sup>	1.40	
RSD (%) <sup>3/</sup>	4.70	
RSD Criteria (%) <sup>4/</sup>	24.34	
Valid/Invalid	Valid	

Remark:

<sup>1/</sup> at Standard Pressure Actual O<sub>2</sub>, 760 mmHg, 25°C, and dry basis

<sup>2/</sup> at 7% O<sub>2</sub>, Standard Pressure 760 mmHg, 25°C, and dry basis

<sup>3/</sup> % RSD defined as

$$RSD = 100\% \times \frac{|(C_a - C_b)|}{(C_a + C_b)}$$

<sup>4/</sup> Acceptance limit for persion of paired train is :

- RSD < 10 % ; Concentrations is > 10 mg/dscm
- RSD < 25 % ; Concentrations is ≤1 mg/dscm
- Concentrations between 1 mg/dscm and 10 mg/dscm the allowable RSD decreases linearly from 25% to 10%  
or Determined Using Equation :  $26.67 - (1.67 \times C_{avg})$

Station:	EGAT_MOBILE_CEMS	
Date:	19/01/2023 11:17 - 19/01/2023 13:20	
Location :	North Bangkok Power Plant	
Unit :	NB-C11	
Fuel :	Natural Gas	Sample 1
Load :	225	MW.
% O <sub>2</sub> (avg) :	13.11	%.
NO <sub>x</sub> (avg) :	44.92	ppm ,@ 7% O <sub>2</sub> ,dry basis .
SO <sub>2</sub> (avg) :	0.38	ppm ,@ 7% O <sub>2</sub> ,dry basis .
CO <sub>(avg)</sub> :	0.00	ppm ,@ 7% O <sub>2</sub> ,dry basis .
Report Type :	Mean	
Time Base :	1 Min	

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Date & Time	NO	NO2	NOx	SO2	CO	O2	CO2
	ppm	ppm	ppm	ppm	ppm	%	%
19/01/2023 11:17	22.01	3.27	25.27	0.19	0.00	13.08	4.43
19/01/2023 11:18	21.98	3.27	25.25	0.20	0.00	13.09	4.43
19/01/2023 11:19	21.95	3.20	25.15	0.22	0.00	13.10	4.43
19/01/2023 11:20	21.94	3.21	25.15	0.19	0.00	13.10	4.42
19/01/2023 11:21	22.01	3.22	25.23	0.18	0.00	13.10	4.43
19/01/2023 11:22	22.07	3.13	25.20	0.21	0.00	13.11	4.42
19/01/2023 11:23	22.01	3.17	25.18	0.19	0.00	13.11	4.42
19/01/2023 11:24	21.97	3.29	25.25	0.20	0.00	13.11	4.43
19/01/2023 11:25	21.92	3.26	25.18	0.19	0.00	13.09	4.43
19/01/2023 11:26	21.87	3.33	25.20	0.22	0.00	13.08	4.43
19/01/2023 11:27	21.84	3.18	25.02	0.20	0.00	13.09	4.42
19/01/2023 11:28	21.99	3.19	25.18	0.21	0.00	13.09	4.43
19/01/2023 11:29	21.87	3.22	25.10	0.22	0.00	13.09	4.43
19/01/2023 11:30	21.70	3.22	24.93	0.22	0.00	13.10	4.42
19/01/2023 11:31	21.89	3.28	25.17	0.24	0.00	13.10	4.42
19/01/2023 11:32	21.95	3.30	25.24	0.22	0.00	13.10	4.42
19/01/2023 11:33	21.76	3.33	25.09	0.18	0.00	13.11	4.42
19/01/2023 11:34	21.93	3.20	25.14	0.17	0.00	13.11	4.42
19/01/2023 11:35	21.99	3.20	25.18	0.18	0.00	13.11	4.42
19/01/2023 11:36	22.14	3.08	25.22	0.17	0.00	13.11	4.42
19/01/2023 11:37	21.81	3.18	24.99	0.20	0.00	13.12	4.41
19/01/2023 11:38	21.85	3.17	25.03	0.17	0.00	13.10	4.42
19/01/2023 11:39	22.03	3.19	25.22	0.20	0.00	13.11	4.42
19/01/2023 11:40	22.00	3.20	25.20	0.19	0.00	13.11	4.42
19/01/2023 11:41	22.05	3.30	25.34	0.21	0.00	13.11	4.41
19/01/2023 11:42	22.07	3.22	25.29	0.20	0.00	13.11	4.42
19/01/2023 11:43	22.10	3.10	25.20	0.20	0.00	13.11	4.41
19/01/2023 11:44	21.85	3.26	25.11	0.22	0.00	13.10	4.42
19/01/2023 11:45	22.03	3.25	25.28	0.20	0.00	13.10	4.42
19/01/2023 11:46	21.94	3.26	25.20	0.20	0.00	13.12	4.42
19/01/2023 11:47	21.89	3.22	25.12	0.21	0.00	13.12	4.41
19/01/2023 11:48	21.97	3.32	25.29	0.20	0.00	13.11	4.41
19/01/2023 11:49	21.93	3.23	25.16	0.22	0.00	13.11	4.41
19/01/2023 11:50	22.00	3.35	25.34	0.18	0.00	13.11	4.41
19/01/2023 11:51	22.04	3.38	25.42	0.24	0.00	13.10	4.42
19/01/2023 11:52	22.00	3.31	25.31	0.21	0.00	13.12	4.41
19/01/2023 11:53	21.96	3.28	25.24	0.21	0.00	13.11	4.42
19/01/2023 11:54	21.92	3.21	25.14	0.21	0.00	13.11	4.43
19/01/2023 11:55	21.80	3.33	25.13	0.22	0.00	13.10	4.42
19/01/2023 11:56	21.82	3.30	25.11	0.21	0.00	13.11	4.43
19/01/2023 11:57	21.97	3.23	25.20	0.19	0.00	13.09	4.43
19/01/2023 11:58	22.15	3.18	25.32	0.21	0.00	13.12	4.42
19/01/2023 11:59	22.02	3.09	25.12	0.22	0.00	13.12	4.41
19/01/2023 12:00	22.12	3.25	25.38	0.20	0.00	13.12	4.41
19/01/2023 12:01	22.05	3.21	25.26	0.20	0.00	13.10	4.41
19/01/2023 12:02	22.14	3.21	25.35	0.17	0.00	13.11	4.41
19/01/2023 12:03	21.89	3.35	25.24	0.18	0.00	13.10	4.41
19/01/2023 12:04	21.94	3.22	25.16	0.19	0.00	13.09	4.42
19/01/2023 12:05	21.93	3.14	25.07	0.19	0.00	13.09	4.42
19/01/2023 12:06	21.98	3.24	25.22	0.23	0.00	13.08	4.43
19/01/2023 12:07	22.00	3.20	25.20	0.21	0.00	13.09	4.43
19/01/2023 12:08	21.90	3.31	25.21	0.19	0.00	13.09	4.42
19/01/2023 12:09	21.85	3.29	25.14	0.22	0.00	13.09	4.42
19/01/2023 12:10	21.92	3.25	25.18	0.20	0.00	13.08	4.42
19/01/2023 12:11	21.93	3.39	25.32	0.20	0.00	13.07	4.43
19/01/2023 12:12	22.05	3.15	25.20	0.21	0.00	13.08	4.43
19/01/2023 12:13	21.99	3.28	25.27	0.21	0.00	13.08	4.42
19/01/2023 12:14	21.93	3.27	25.21	0.21	0.00	13.09	4.42
19/01/2023 12:15	21.80	3.27	25.08	0.21	0.00	13.09	4.42
19/01/2023 12:16	21.81	3.26	25.07	0.20	0.00	13.10	4.42
19/01/2023 12:17	21.83	3.38	25.21	0.21	0.00	13.10	4.42
19/01/2023 12:18	21.97	3.24	25.21	0.19	0.00	13.11	4.42
19/01/2023 12:19	21.92	3.26	25.18	0.22	0.00	13.10	4.42
19/01/2023 12:20	22.07	3.22	25.28	0.21	0.00	13.13	4.41
19/01/2023 12:21	22.01	3.18	25.19	0.18	0.00	13.13	4.41
19/01/2023 12:22	22.01	3.21	25.22	0.20	0.00	13.11	4.41
19/01/2023 12:23	21.89	3.17	25.06	0.26	0.00	13.09	4.42
19/01/2023 12:24	22.00	3.22	25.22	0.23	0.00	13.08	4.42
19/01/2023 12:25	21.95	3.20	25.16	0.21	0.00	13.07	4.43
19/01/2023 12:26	21.83	3.36	25.19	0.22	0.00	13.07	4.43
19/01/2023 12:27	21.94	3.20	25.14	0.21	0.00	13.10	4.42
19/01/2023 12:28	21.91	3.18	25.09	0.22	0.00	13.11	4.41
19/01/2023 12:29	21.75	3.25	24.99	0.21	0.00	13.12	4.41
19/01/2023 12:30	21.85	3.18	25.03	0.22	0.00	13.11	4.41
19/01/2023 12:31	21.81	3.25	25.06	0.22	0.00	13.12	4.41

Date & Time	NO	NO2	NOx	SO2	CO	O2	CO2
	ppm	ppm	ppm	ppm	ppm	%	%
19/01/2023 12:32	21.74	3.24	24.98	0.19	0.00	13.12	4.41
19/01/2023 12:33	21.91	3.20	25.12	0.20	0.00	13.13	4.40
19/01/2023 12:34	21.75	3.26	25.00	0.23	0.00	13.11	4.41
19/01/2023 12:35	21.83	3.17	25.00	0.22	0.00	13.10	4.41
19/01/2023 12:36	21.93	3.16	25.09	0.24	0.00	13.10	4.41
19/01/2023 12:37	22.01	3.22	25.23	0.19	0.00	13.12	4.40
19/01/2023 12:38	21.97	3.20	25.17	0.21	0.00	13.12	4.40
19/01/2023 12:39	21.94	3.24	25.17	0.21	0.00	13.13	4.40
19/01/2023 12:40	21.90	3.22	25.11	0.22	0.00	13.13	4.40
19/01/2023 12:41	21.92	3.12	25.04	0.21	0.00	13.13	4.40
19/01/2023 12:42	21.88	3.17	25.04	0.21	0.00	13.13	4.40
19/01/2023 12:43	21.95	3.15	25.10	0.21	0.00	13.13	4.40
19/01/2023 12:44	21.87	3.28	25.15	0.23	0.00	13.13	4.40
19/01/2023 12:45	21.79	3.21	24.99	0.24	0.00	13.13	4.40
19/01/2023 12:46	21.92	3.16	25.08	0.24	0.00	13.13	4.41
19/01/2023 12:47	21.91	3.35	25.26	0.20	0.00	13.12	4.40
19/01/2023 12:48	21.90	3.29	25.19	0.24	0.00	13.12	4.41
19/01/2023 12:49	21.85	3.30	25.15	0.26	0.00	13.11	4.41
19/01/2023 12:50	21.90	3.24	25.14	0.23	0.00	13.11	4.41
19/01/2023 12:51	21.92	3.27	25.19	0.19	0.00	13.12	4.40
19/01/2023 12:52	21.84	3.19	25.03	0.24	0.00	13.11	4.40
19/01/2023 12:53	21.79	3.34	25.13	0.24	0.00	13.11	4.41
19/01/2023 12:54	21.74	3.31	25.05	0.22	0.00	13.11	4.41
19/01/2023 12:55	21.81	3.22	25.03	0.23	0.00	13.11	4.42
19/01/2023 12:56	21.81	3.30	25.11	0.23	0.00	13.11	4.41
19/01/2023 12:57	21.85	3.20	25.05	0.22	0.00	13.11	4.41
19/01/2023 12:58	21.84	3.18	25.03	0.23	0.00	13.11	4.40
19/01/2023 12:59	21.94	3.17	25.11	0.19	0.00	13.11	4.41
19/01/2023 13:00	21.99	3.24	25.23	0.18	0.00	13.12	4.40
19/01/2023 13:01	21.87	3.33	25.20	0.21	0.00	13.13	4.40
19/01/2023 13:02	21.94	3.30	25.25	0.23	0.00	13.15	4.40
19/01/2023 13:03	21.67	3.38	25.05	0.20	0.00	13.15	4.39
19/01/2023 13:04	21.82	3.28	25.11	0.22	0.00	13.14	4.39
19/01/2023 13:05	21.98	3.18	25.16	0.20	0.00	13.14	4.40
19/01/2023 13:06	21.99	3.25	25.24	0.25	0.00	13.15	4.40
19/01/2023 13:07	22.01	3.13	25.14	0.25	0.00	13.14	4.40
19/01/2023 13:08	22.07	3.27	25.34	0.26	0.00	13.14	4.39
19/01/2023 13:09	22.13	3.24	25.36	0.24	0.00	13.13	4.39
19/01/2023 13:10	22.08	3.33	25.41	0.22	0.00	13.14	4.39
19/01/2023 13:11	21.93	3.26	25.19	0.21	0.00	13.12	4.39
19/01/2023 13:12	22.02	3.24	25.27	0.23	0.00	13.12	4.41
19/01/2023 13:13	22.08	3.26	25.34	0.22	0.00	13.14	4.41
19/01/2023 13:14	21.96	3.30	25.26	0.23	0.00	13.14	4.40
19/01/2023 13:15	21.83	3.35	25.19	0.21	0.00	13.13	4.39
19/01/2023 13:16	21.97	3.18	25.14	0.24	0.00	13.14	4.39
19/01/2023 13:17	21.95	3.20	25.15	0.22	0.00	13.14	4.39
19/01/2023 13:18	21.83	3.24	25.07	0.21	0.00	13.14	4.39
19/01/2023 13:19	21.93	3.31	25.24	0.23	0.00	13.14	4.40
19/01/2023 13:20	21.87	3.24	25.11	0.23	0.00	13.14	4.40
Minimum	21.67	3.08	24.93	0.17	0.00	13.07	4.39
MinDate	19/01/2023 13:03	19/01/2023 11:36	19/01/2023 11:30	19/01/2023 11:34	19/01/2023 11:17	19/01/2023 12:11	19/01/2023 13:03
Maximum	22.15	3.39	25.42	0.26	0.00	13.15	4.43
MaxDate	19/01/2023 11:58	19/01/2023 12:11	19/01/2023 11:51	19/01/2023 12:23	19/01/2023 11:17	19/01/2023 13:02	19/01/2023 11:17
Avg	21.93	3.24	25.17	0.21	0.00	13.11	4.41
Num	124	124	124	124	124	124	124
Data[%]	100	100	100	100	100	100	100
STD	0.10	0.06	0.10	0.02	0.00	0.02	0.01

Station:	EGAT_MOBILE_CEMS	
Date:	19/01/2023 15:30 - 19/01/2023 17:35	
Location :	North Bangkok Power Plant	
Unit :	NB-C11	
Fuel :	Natural Gas	Sample 2
Load :	225	MW.
% O <sub>2</sub> (avg) :	13.15	%.
NO <sub>x</sub> (avg) :	44.97	ppm ,@ 7% O <sub>2</sub> ,dry basis .
SO <sub>2</sub> (avg) :	0.38	ppm ,@ 7% O <sub>2</sub> ,dry basis .
CO <sub>(avg)</sub> :	0.00	ppm ,@ 7% O <sub>2</sub> ,dry basis .
Report Type :	Mean	
Time Base :	1 Min	

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Date & Time	NO	NO2	NOx	SO2	CO	O2	CO2
	ppm	ppm	ppm	ppm	ppm	%	%
19/01/2023 15:30	21.96	3.17	25.13	0.20	0.00	13.16	4.41
19/01/2023 15:31	21.93	3.11	25.03	0.23	0.00	13.16	4.41
19/01/2023 15:32	21.87	3.19	25.05	0.22	0.00	13.15	4.41
19/01/2023 15:33	21.83	3.27	25.09	0.20	0.00	13.17	4.40
19/01/2023 15:34	21.80	3.18	24.98	0.21	0.00	13.15	4.40
19/01/2023 15:35	22.01	3.27	25.28	0.21	0.00	13.15	4.41
19/01/2023 15:36	22.03	3.20	25.23	0.22	0.00	13.15	4.41
19/01/2023 15:37	22.02	3.18	25.21	0.23	0.00	13.14	4.41
19/01/2023 15:38	21.95	3.19	25.15	0.21	0.00	13.15	4.41
19/01/2023 15:39	21.99	3.14	25.13	0.24	0.00	13.15	4.40
19/01/2023 15:40	22.07	3.05	25.12	0.26	0.00	13.15	4.41
19/01/2023 15:41	22.00	3.20	25.19	0.22	0.00	13.16	4.40
19/01/2023 15:42	21.99	3.20	25.18	0.20	0.00	13.16	4.41
19/01/2023 15:43	21.96	3.19	25.16	0.24	0.00	13.16	4.41
19/01/2023 15:44	21.90	3.30	25.20	0.24	0.00	13.16	4.40
19/01/2023 15:45	21.94	3.22	25.16	0.21	0.00	13.17	4.40
19/01/2023 15:46	21.79	3.33	25.12	0.23	0.00	13.17	4.40
19/01/2023 15:47	21.87	3.20	25.08	0.21	0.00	13.15	4.41
19/01/2023 15:48	21.94	3.24	25.18	0.17	0.00	13.15	4.41
19/01/2023 15:49	21.97	3.16	25.13	0.24	0.00	13.15	4.41
19/01/2023 15:50	21.89	3.28	25.16	0.19	0.00	13.14	4.41
19/01/2023 15:51	21.94	3.20	25.14	0.24	0.00	13.15	4.40
19/01/2023 15:52	21.96	3.25	25.21	0.22	0.00	13.15	4.41
19/01/2023 15:53	21.96	3.22	25.18	0.24	0.00	13.15	4.41
19/01/2023 15:54	21.93	3.21	25.14	0.24	0.00	13.15	4.41
19/01/2023 15:55	21.91	3.22	25.13	0.23	0.00	13.16	4.41
19/01/2023 15:56	21.80	3.18	24.98	0.21	0.00	13.16	4.41
19/01/2023 15:57	21.72	3.12	24.84	0.25	0.00	13.16	4.40
19/01/2023 15:58	21.81	3.12	24.93	0.25	0.00	13.16	4.41
19/01/2023 15:59	21.89	3.17	25.06	0.22	0.00	13.16	4.41
19/01/2023 16:00	21.73	3.24	24.97	0.21	0.00	13.16	4.40
19/01/2023 16:01	21.83	3.18	25.01	0.18	0.00	13.15	4.40
19/01/2023 16:02	21.93	3.05	24.99	0.19	0.00	13.15	4.41
19/01/2023 16:03	22.01	3.13	25.15	0.17	0.00	13.15	4.41
19/01/2023 16:04	22.11	3.22	25.33	0.19	0.00	13.16	4.41
19/01/2023 16:05	22.12	3.20	25.32	0.21	0.00	13.16	4.41
19/01/2023 16:06	21.93	3.30	25.23	0.23	0.00	13.16	4.40
19/01/2023 16:07	21.96	3.24	25.20	0.24	0.00	13.16	4.40
19/01/2023 16:08	22.00	3.24	25.24	0.20	0.00	13.15	4.41
19/01/2023 16:09	22.05	3.16	25.21	0.21	0.00	13.16	4.41
19/01/2023 16:10	22.01	3.14	25.15	0.22	0.00	13.15	4.40
19/01/2023 16:11	22.06	3.23	25.29	0.21	0.00	13.15	4.41
19/01/2023 16:12	22.08	3.09	25.17	0.20	0.00	13.16	4.40
19/01/2023 16:13	21.99	3.14	25.12	0.21	0.00	13.17	4.41
19/01/2023 16:14	21.97	3.12	25.09	0.19	0.00	13.17	4.40
19/01/2023 16:15	22.02	3.23	25.25	0.21	0.00	13.17	4.41
19/01/2023 16:16	21.99	3.18	25.17	0.23	0.00	13.17	4.41
19/01/2023 16:17	21.79	3.21	25.00	0.23	0.00	13.17	4.40
19/01/2023 16:18	21.85	3.17	25.02	0.19	0.00	13.16	4.40
19/01/2023 16:19	21.91	3.24	25.16	0.21	0.00	13.16	4.41
19/01/2023 16:20	21.86	3.23	25.09	0.21	0.00	13.16	4.40
19/01/2023 16:21	21.78	3.25	25.03	0.20	0.00	13.16	4.40
19/01/2023 16:22	21.93	3.19	25.12	0.19	0.00	13.15	4.41
19/01/2023 16:23	21.92	3.27	25.19	0.20	0.00	13.15	4.41
19/01/2023 16:24	22.01	3.13	25.14	0.21	0.00	13.15	4.41
19/01/2023 16:25	21.92	3.19	25.11	0.21	0.00	13.16	4.41
19/01/2023 16:26	21.89	3.16	25.05	0.21	0.00	13.15	4.40
19/01/2023 16:27	21.87	3.21	25.07	0.19	0.00	13.16	4.40
19/01/2023 16:28	21.91	3.16	25.07	0.21	0.00	13.16	4.41
19/01/2023 16:29	21.97	3.15	25.12	0.21	0.00	13.17	4.41
19/01/2023 16:30	21.90	3.26	25.16	0.22	0.00	13.16	4.41
19/01/2023 16:31	21.96	3.22	25.18	0.20	0.00	13.16	4.41
19/01/2023 16:32	21.98	3.16	25.14	0.21	0.00	13.15	4.41
19/01/2023 16:33	22.08	3.12	25.19	0.23	0.00	13.14	4.41
19/01/2023 16:34	21.97	3.24	25.20	0.22	0.00	13.15	4.41
19/01/2023 16:35	22.00	3.21	25.22	0.21	0.00	13.14	4.41
19/01/2023 16:36	21.95	3.25	25.21	0.20	0.00	13.14	4.41
19/01/2023 16:37	21.95	3.16	25.11	0.18	0.00	13.15	4.41
19/01/2023 16:38	21.96	3.22	25.18	0.20	0.00	13.17	4.40
19/01/2023 16:39	22.01	3.15	25.16	0.22	0.00	13.16	4.40
19/01/2023 16:40	21.90	3.23	25.14	0.23	0.00	13.17	4.40
19/01/2023 16:41	21.81	3.17	24.98	0.21	0.00	13.16	4.40
19/01/2023 16:42	21.88	3.16	25.04	0.20	0.00	13.17	4.40
19/01/2023 16:43	21.87	3.18	25.05	0.20	0.00	13.16	4.40
19/01/2023 16:44	21.91	3.11	25.03	0.21	0.00	13.16	4.40
19/01/2023 16:45	21.84	3.17	25.02	0.22	0.00	13.15	4.41
19/01/2023 16:46	21.90	3.14	25.04	0.24	0.00	13.14	4.41
19/01/2023 16:47	21.93	3.30	25.23	0.23	0.00	13.15	4.41
19/01/2023 16:48	21.91	3.28	25.19	0.21	0.00	13.15	4.41
19/01/2023 16:49	21.87	3.20	25.07	0.20	0.00	13.15	4.41
19/01/2023 16:50	21.84	3.16	24.99	0.20	0.00	13.15	4.41
19/01/2023 16:51	21.97	3.19	25.17	0.20	0.00	13.15	4.41
19/01/2023 16:52	21.97	3.25	25.22	0.21	0.00	13.14	4.41
19/01/2023 16:53	21.97	3.10	25.07	0.21	0.00	13.14	4.41
19/01/2023 16:54	22.01	3.27	25.28	0.22	0.00	13.14	4.41
19/01/2023 16:55	21.92	3.31	25.23	0.23	0.00	13.14	4.41
19/01/2023 16:56	22.00	3.17	25.18	0.22	0.00	13.13	4.41
19/01/2023 16:57	21.92	3.24	25.16	0.22	0.00	13.12	4.41
19/01/2023 16:58	21.85	3.21	25.06	0.22	0.00	13.13	4.40

Date & Time	NO	NO2	NOx	SO2	CO	O2	CO2
	ppm	ppm	ppm	ppm	ppm	%	%
19/01/2023 16:59	21.81	3.20	25.01	0.19	0.00	13.12	4.41
19/01/2023 17:00	21.85	3.24	25.08	0.20	0.00	13.13	4.41
19/01/2023 17:01	21.71	3.29	24.99	0.23	0.00	13.14	4.41
19/01/2023 17:02	21.85	3.33	25.17	0.20	0.00	13.14	4.41
19/01/2023 17:03	21.87	3.06	24.93	0.20	0.00	13.14	4.40
19/01/2023 17:04	21.81	3.26	25.07	0.22	0.00	13.14	4.41
19/01/2023 17:05	21.89	3.17	25.06	0.22	0.00	13.14	4.41
19/01/2023 17:06	21.83	3.10	24.92	0.24	0.00	13.14	4.41
19/01/2023 17:07	21.86	3.15	25.01	0.22	0.00	13.14	4.41
19/01/2023 17:08	21.83	3.16	24.99	0.21	0.00	13.12	4.41
19/01/2023 17:09	21.82	3.24	25.05	0.21	0.00	13.12	4.42
19/01/2023 17:10	21.81	3.15	24.96	0.19	0.30	13.12	4.42
19/01/2023 17:11	21.80	3.13	24.93	0.21	0.02	13.12	4.41
19/01/2023 17:12	21.75	3.16	24.91	0.21	0.00	13.13	4.41
19/01/2023 17:13	21.70	3.18	24.88	0.19	0.00	13.12	4.42
19/01/2023 17:14	21.83	3.12	24.95	0.19	0.00	13.14	4.42
19/01/2023 17:15	21.76	3.24	25.00	0.19	0.00	13.14	4.42
19/01/2023 17:16	21.79	3.18	24.96	0.21	0.00	13.13	4.42
19/01/2023 17:17	21.81	3.10	24.90	0.18	0.00	13.13	4.42
19/01/2023 17:18	21.87	3.11	24.98	0.19	0.00	13.12	4.42
19/01/2023 17:19	21.81	3.19	25.01	0.20	0.00	13.12	4.42
19/01/2023 17:20	21.66	3.20	24.86	0.21	0.00	13.12	4.41
19/01/2023 17:21	21.71	3.13	24.85	0.22	0.00	13.12	4.42
19/01/2023 17:22	21.71	3.15	24.86	0.20	0.00	13.12	4.42
19/01/2023 17:23	21.69	3.33	25.02	0.25	0.00	13.13	4.41
19/01/2023 17:24	21.74	3.25	24.99	0.21	0.00	13.14	4.41
19/01/2023 17:25	21.77	3.16	24.93	0.17	0.00	13.14	4.41
19/01/2023 17:26	21.66	3.20	24.86	0.19	0.00	13.14	4.41
19/01/2023 17:27	21.64	3.20	24.85	0.22	0.00	13.14	4.41
19/01/2023 17:28	21.63	3.21	24.85	0.21	0.00	13.15	4.40
19/01/2023 17:29	21.77	3.08	24.85	0.24	0.00	13.13	4.41
19/01/2023 17:30	21.77	3.19	24.97	0.21	0.00	13.14	4.41
19/01/2023 17:31	21.66	3.26	24.92	0.24	0.00	13.14	4.42
19/01/2023 17:32	21.76	3.24	25.00	0.24	0.00	13.12	4.42
19/01/2023 17:33	21.82	3.30	25.12	0.20	0.00	13.13	4.42
19/01/2023 17:34	21.80	3.21	25.01	0.24	0.00	13.12	4.41
19/01/2023 17:35	21.84	3.33	25.17	0.22	0.00	13.14	4.41
Minimum	21.63	3.05	24.84	0.17	0.00	13.12	4.40
MinDate	19/01/2023 17:28	19/01/2023 15:40	19/01/2023 15:57	19/01/2023 15:48	19/01/2023 15:30	19/01/2023 16:57	19/01/2023 15:33
Maximum	22.12	3.33	25.33	0.26	0.30	13.17	4.42
MaxDate	19/01/2023 16:05	19/01/2023 15:46	19/01/2023 16:04	19/01/2023 15:40	19/01/2023 17:10	19/01/2023 15:33	19/01/2023 17:09
Avg	21.89	3.20	25.08	0.21	0.00	13.15	4.41
Num	126	126	126	126	126	126	126
Data[%]	100	100	100	100	100	100	100
STD	0.11	0.06	0.12	0.02	0.03	0.01	0.01

Station:	EGAT_MOBILE_CEMS	
Date:	17/01/2023 12:55 - 17/01/2023 14:45	
Location :	North Bangkok Power Plant	
Unit :	NB-C12	
Fuel :	Natural Gas	Sample 1
Load :	226	MW.
% O <sub>2</sub> (avg) :	13.13	%.
NO <sub>x</sub> (avg) :	57.44	ppm ,@ 7% O <sub>2</sub> ,dry basis .
SO <sub>2</sub> (avg) :	0.69	ppm ,@ 7% O <sub>2</sub> ,dry basis .
CO <sub>(avg)</sub> :	0.00	ppm ,@ 7% O <sub>2</sub> ,dry basis .
Report Type :	Mean	
Time Base :	1 Min	

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Date & Time	NO	NO2	NOx	SO2	CO	O2	CO2
	ppm	ppm	ppm	ppm	ppm	%	%
17/01/2023 12:55	28.22	3.86	32.07	0.39	0.00	13.11	4.44
17/01/2023 12:56	28.36	3.90	32.26	0.39	0.00	13.10	4.45
17/01/2023 12:57	28.36	3.86	32.22	0.38	0.00	13.10	4.45
17/01/2023 12:58	28.40	3.84	32.25	0.36	0.00	13.10	4.45
17/01/2023 12:59	28.27	3.86	32.13	0.37	0.00	13.10	4.45
17/01/2023 13:00	28.32	3.82	32.14	0.39	0.00	13.11	4.45
17/01/2023 13:01	28.37	3.80	32.17	0.40	0.00	13.10	4.44
17/01/2023 13:02	28.36	3.80	32.15	0.37	0.00	13.10	4.45
17/01/2023 13:03	28.42	3.75	32.17	0.39	0.00	13.10	4.45
17/01/2023 13:04	28.37	3.77	32.14	0.38	0.00	13.11	4.45
17/01/2023 13:05	28.38	3.86	32.24	0.39	0.00	13.11	4.45
17/01/2023 13:06	28.35	3.78	32.13	0.38	0.00	13.11	4.45
17/01/2023 13:07	28.30	3.77	32.07	0.38	0.00	13.11	4.44
17/01/2023 13:08	28.23	3.85	32.08	0.38	0.00	13.11	4.45
17/01/2023 13:09	28.33	3.77	32.10	0.38	0.00	13.10	4.45
17/01/2023 13:10	28.31	3.92	32.22	0.39	0.00	13.10	4.45
17/01/2023 13:11	28.32	3.89	32.21	0.42	0.00	13.10	4.45
17/01/2023 13:12	28.32	3.89	32.21	0.40	0.00	13.10	4.45
17/01/2023 13:13	28.30	4.01	32.30	0.36	0.00	13.10	4.45
17/01/2023 13:14	28.38	3.83	32.20	0.37	0.00	13.10	4.45
17/01/2023 13:15	28.43	3.80	32.23	0.38	0.00	13.10	4.45
17/01/2023 13:16	28.30	3.85	32.15	0.40	0.00	13.10	4.45
17/01/2023 13:17	28.26	3.81	32.07	0.38	0.00	13.11	4.45
17/01/2023 13:18	28.25	3.82	32.07	0.39	0.00	13.11	4.44
17/01/2023 13:19	28.17	3.92	32.09	0.38	0.00	13.11	4.45
17/01/2023 13:20	28.26	3.92	32.19	0.37	0.00	13.11	4.45
17/01/2023 13:21	28.19	3.98	32.18	0.39	0.00	13.12	4.44
17/01/2023 13:22	28.15	3.84	31.99	0.36	0.00	13.11	4.44
17/01/2023 13:23	28.23	3.88	32.11	0.38	0.00	13.10	4.45
17/01/2023 13:24	28.16	3.86	32.01	0.41	0.00	13.10	4.44
17/01/2023 13:25	28.05	3.85	31.90	0.38	0.00	13.10	4.45
17/01/2023 13:26	28.12	3.77	31.88	0.38	0.00	13.09	4.45
17/01/2023 13:27	28.14	3.83	31.97	0.37	0.00	13.10	4.45
17/01/2023 13:28	28.13	3.85	31.99	0.40	0.00	13.11	4.45
17/01/2023 13:29	28.11	3.82	31.93	0.37	0.00	13.10	4.44
17/01/2023 13:30	28.15	3.82	31.97	0.39	0.00	13.11	4.44
17/01/2023 13:31	28.08	3.91	31.99	0.41	0.00	13.10	4.45
17/01/2023 13:32	28.06	3.94	32.00	0.36	0.00	13.11	4.44
17/01/2023 13:33	28.21	3.87	32.08	0.41	0.00	13.11	4.44
17/01/2023 13:34	28.13	3.82	31.94	0.42	0.00	13.12	4.44
17/01/2023 13:35	28.18	3.90	32.08	0.40	0.00	13.11	4.44
17/01/2023 13:36	28.25	3.82	32.07	0.39	0.00	13.10	4.44
17/01/2023 13:37	28.21	3.82	32.03	0.36	0.00	13.11	4.44
17/01/2023 13:38	28.21	3.76	31.98	0.40	0.00	13.11	4.44
17/01/2023 13:39	28.24	3.84	32.07	0.37	0.00	13.11	4.44
17/01/2023 13:40	28.22	3.83	32.05	0.42	0.00	13.10	4.44
17/01/2023 13:41	28.25	3.85	32.10	0.40	0.00	13.12	4.44
17/01/2023 13:42	28.24	3.78	32.02	0.36	0.00	13.11	4.44
17/01/2023 13:43	28.28	3.78	32.07	0.39	0.00	13.12	4.44
17/01/2023 13:44	28.16	3.95	32.11	0.40	0.00	13.10	4.45
17/01/2023 13:45	28.32	4.04	32.36	0.36	0.00	13.11	4.44
17/01/2023 13:46	28.28	3.79	32.07	0.36	0.00	13.10	4.44
17/01/2023 13:47	28.33	3.80	32.13	0.38	0.00	13.11	4.44
17/01/2023 13:48	28.28	3.94	32.22	0.39	0.00	13.11	4.44
17/01/2023 13:49	28.34	3.90	32.24	0.41	0.00	13.10	4.44
17/01/2023 13:50	28.55	3.73	32.28	0.40	0.00	13.11	4.44
17/01/2023 13:51	28.50	3.82	32.32	0.40	0.00	13.12	4.44
17/01/2023 13:52	28.37	3.98	32.35	0.41	0.00	13.12	4.43
17/01/2023 13:53	28.26	3.96	32.22	0.36	0.00	13.13	4.43
17/01/2023 13:54	28.31	3.81	32.13	0.36	0.00	13.12	4.44
17/01/2023 13:55	28.28	3.94	32.22	0.39	0.00	13.12	4.44
17/01/2023 13:56	28.34	3.87	32.21	0.35	0.00	13.12	4.43
17/01/2023 13:57	28.30	3.83	32.13	0.36	0.00	13.13	4.43
17/01/2023 13:58	28.30	3.82	32.11	0.41	0.00	13.13	4.43
17/01/2023 13:59	28.29	3.73	32.02	0.41	0.00	13.14	4.43
17/01/2023 14:00	28.32	3.78	32.09	0.41	0.00	13.13	4.43
17/01/2023 14:01	28.32	3.87	32.19	0.41	0.00	13.14	4.43
17/01/2023 14:02	28.29	3.85	32.14	0.41	0.00	13.14	4.43
17/01/2023 14:03	28.24	3.83	32.07	0.41	0.00	13.14	4.43
17/01/2023 14:04	28.09	3.86	31.94	0.36	0.00	13.13	4.43
17/01/2023 14:05	28.23	3.83	32.06	0.36	0.00	13.14	4.44
17/01/2023 14:06	28.23	3.90	32.13	0.36	0.00	13.13	4.44
17/01/2023 14:07	28.25	3.94	32.19	0.36	0.00	13.13	4.44
17/01/2023 14:08	28.22	3.88	32.11	0.39	0.00	13.13	4.44
17/01/2023 14:09	28.27	3.82	32.08	0.38	0.00	13.14	4.44
17/01/2023 14:10	28.36	3.68	32.05	0.41	0.00	13.14	4.44
17/01/2023 14:11	28.22	3.85	32.08	0.39	0.00	13.13	4.44
17/01/2023 14:12	28.24	3.75	32.00	0.36	0.00	13.14	4.44
17/01/2023 14:13	28.24	3.79	32.03	0.36	0.00	13.14	4.43
17/01/2023 14:14	28.30	3.78	32.08	0.44	0.00	13.14	4.43
17/01/2023 14:15	28.31	3.80	32.11	0.40	0.00	13.15	4.43
17/01/2023 14:16	28.26	3.89	32.14	0.38	0.00	13.15	4.43
17/01/2023 14:17	28.34	3.75	32.09	0.39	0.00	13.16	4.43
17/01/2023 14:18	28.28	3.78	32.06	0.39	0.00	13.16	4.43
17/01/2023 14:19	28.21	3.86	32.07	0.37	0.00	13.15	4.43
17/01/2023 14:20	28.27	3.92	32.19	0.41	0.00	13.15	4.43
17/01/2023 14:21	28.18	3.89	32.07	0.40	0.00	13.16	4.43
17/01/2023 14:22	28.27	3.75	32.02	0.37	0.00	13.15	4.43
17/01/2023 14:23	28.27	3.83	32.10	0.38	0.00	13.14	4.43

Date & Time	NO	NO2	NOx	SO2	CO	O2	CO2
	ppm	ppm	ppm	ppm	ppm	%	%
17/01/2023 14:24	28.28	3.71	31.99	0.42	0.00	13.15	4.43
17/01/2023 14:25	28.19	3.78	31.97	0.39	0.00	13.16	4.43
17/01/2023 14:26	28.22	3.80	32.02	0.38	0.00	13.15	4.43
17/01/2023 14:27	28.23	4.08	32.31	0.40	0.00	13.16	4.43
17/01/2023 14:28	28.35	3.88	32.23	0.43	0.00	13.15	4.44
17/01/2023 14:29	28.25	3.98	32.23	0.40	0.00	13.16	4.43
17/01/2023 14:30	28.35	3.74	32.09	0.38	0.00	13.17	4.43
17/01/2023 14:31	28.21	3.86	32.07	0.34	0.00	13.18	4.43
17/01/2023 14:32	28.20	3.88	32.08	0.37	0.00	13.17	4.43
17/01/2023 14:33	28.37	3.73	32.10	0.40	0.00	13.17	4.43
17/01/2023 14:34	28.42	3.77	32.20	0.35	0.00	13.16	4.43
17/01/2023 14:35	28.52	3.78	32.30	0.39	0.00	13.16	4.43
17/01/2023 14:36	28.39	3.96	32.36	0.39	0.00	13.15	4.43
17/01/2023 14:37	28.35	3.83	32.18	0.42	0.00	13.17	4.43
17/01/2023 14:38	28.36	3.76	32.12	0.40	0.00	13.17	4.43
17/01/2023 14:39	28.31	3.86	32.17	0.38	0.00	13.18	4.43
17/01/2023 14:40	28.29	3.80	32.10	0.35	0.00	13.17	4.43
17/01/2023 14:41	28.37	3.90	32.28	0.34	0.00	13.17	4.43
17/01/2023 14:42	28.30	3.97	32.27	0.35	0.00	13.17	4.43
17/01/2023 14:43	28.30	3.92	32.22	0.40	0.00	13.16	4.43
17/01/2023 14:44	28.30	3.86	32.15	0.39	0.00	13.16	4.43
17/01/2023 14:45	28.35	3.81	32.16	0.39	0.00	13.16	4.43
Minimum	28.05	3.68	31.88	0.34	0.00	13.09	4.43
MinDate	17/01/2023 13:25	17/01/2023 14:10	17/01/2023 13:26	17/01/2023 14:31	17/01/2023 12:55	17/01/2023 13:26	17/01/2023 13:52
Maximum	28.55	4.08	32.36	0.44	0.00	13.18	4.45
MaxDate	17/01/2023 13:50	17/01/2023 14:27	17/01/2023 13:45	17/01/2023 14:14	17/01/2023 12:55	17/01/2023 14:31	17/01/2023 12:56
Avg	28.28	3.85	32.12	0.39	0.00	13.13	4.44
Num	111	111	111	111	111	111	111
Data[%]	100	100	100	100	100	100	100
STD	0.09	0.07	0.10	0.02	0.00	0.02	0.01

Station:	EGAT_MOBILE_CEMS	
Date:	17/01/2023 16:50 - 17/01/2023 18:55	
Location :	North Bangkok Power Plant	
Unit :	NB-C12	
Fuel :	Natural Gas	Sample 2
Load :	227	MW.
% O <sub>2</sub> (avg) :	13.18	%.
NO <sub>x</sub> (avg) :	58.89	ppm ,@ 7% O <sub>2</sub> ,dry basis .
SO <sub>2</sub> (avg) :	0.64	ppm ,@ 7% O <sub>2</sub> ,dry basis .
CO <sub>(avg)</sub> :	0.00	ppm ,@ 7% O <sub>2</sub> ,dry basis .
Report Type :	Mean	
Time Base :	1 Min	

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Date & Time	NO	NO2	NOx	SO2	CO	O2	CO2
	ppm	ppm	ppm	ppm	ppm	%	%
17/01/2023 16:50	28.92	3.81	32.73	0.38	0.00	13.19	4.40
17/01/2023 16:51	28.86	3.94	32.80	0.39	0.00	13.21	4.40
17/01/2023 16:52	28.80	3.90	32.69	0.38	0.00	13.20	4.40
17/01/2023 16:53	28.91	3.78	32.69	0.36	0.00	13.20	4.40
17/01/2023 16:54	28.88	3.82	32.71	0.35	0.00	13.21	4.40
17/01/2023 16:55	28.71	3.94	32.65	0.38	0.00	13.20	4.40
17/01/2023 16:56	28.90	3.88	32.78	0.41	0.00	13.21	4.40
17/01/2023 16:57	28.87	3.78	32.65	0.34	0.00	13.21	4.40
17/01/2023 16:58	28.96	3.91	32.87	0.36	0.00	13.21	4.40
17/01/2023 16:59	28.92	3.87	32.78	0.35	0.00	13.20	4.40
17/01/2023 17:00	28.98	3.91	32.89	0.38	0.00	13.20	4.41
17/01/2023 17:01	28.96	3.95	32.92	0.37	0.00	13.20	4.41
17/01/2023 17:02	28.88	3.94	32.83	0.35	0.00	13.18	4.41
17/01/2023 17:03	28.92	3.88	32.80	0.39	0.00	13.18	4.41
17/01/2023 17:04	28.92	3.94	32.85	0.39	0.00	13.18	4.41
17/01/2023 17:05	28.99	3.84	32.83	0.34	0.00	13.19	4.40
17/01/2023 17:06	28.93	3.96	32.89	0.37	0.00	13.20	4.40
17/01/2023 17:07	28.83	4.06	32.89	0.35	0.00	13.19	4.41
17/01/2023 17:08	29.00	3.86	32.86	0.35	0.00	13.19	4.41
17/01/2023 17:09	28.96	3.91	32.87	0.36	0.00	13.20	4.41
17/01/2023 17:10	28.94	3.91	32.86	0.36	0.00	13.20	4.40
17/01/2023 17:11	28.96	3.79	32.75	0.35	0.00	13.20	4.41
17/01/2023 17:12	28.87	4.04	32.91	0.37	0.00	13.19	4.41
17/01/2023 17:13	28.96	3.95	32.91	0.37	0.00	13.18	4.41
17/01/2023 17:14	28.98	3.86	32.85	0.38	0.00	13.19	4.41
17/01/2023 17:15	28.91	3.90	32.81	0.38	0.00	13.18	4.41
17/01/2023 17:16	28.96	4.06	33.02	0.35	0.00	13.18	4.41
17/01/2023 17:17	28.96	3.95	32.91	0.37	0.00	13.20	4.41
17/01/2023 17:18	28.98	3.88	32.86	0.37	0.00	13.20	4.41
17/01/2023 17:19	28.95	3.92	32.86	0.36	0.00	13.21	4.41
17/01/2023 17:20	28.93	3.87	32.81	0.40	0.00	13.20	4.41
17/01/2023 17:21	29.13	3.70	32.83	0.38	0.00	13.20	4.41
17/01/2023 17:22	28.96	3.90	32.86	0.38	0.00	13.20	4.41
17/01/2023 17:23	29.00	3.75	32.75	0.34	0.00	13.20	4.41
17/01/2023 17:24	28.96	3.80	32.75	0.37	0.00	13.20	4.41
17/01/2023 17:25	28.86	3.86	32.72	0.35	0.00	13.18	4.42
17/01/2023 17:26	29.04	3.80	32.84	0.35	0.00	13.19	4.42
17/01/2023 17:27	28.93	3.77	32.70	0.40	0.00	13.19	4.42
17/01/2023 17:28	28.81	3.84	32.65	0.37	0.00	13.20	4.41
17/01/2023 17:29	28.80	3.98	32.78	0.36	0.00	13.20	4.42
17/01/2023 17:30	28.88	3.91	32.79	0.36	0.00	13.20	4.42
17/01/2023 17:31	28.98	3.91	32.89	0.35	0.00	13.20	4.42
17/01/2023 17:32	28.88	3.98	32.86	0.35	0.00	13.20	4.42
17/01/2023 17:33	28.96	3.90	32.85	0.36	0.00	13.20	4.42
17/01/2023 17:34	28.83	3.95	32.78	0.35	0.00	13.20	4.42
17/01/2023 17:35	28.89	3.83	32.72	0.33	0.00	13.19	4.42
17/01/2023 17:36	29.02	3.93	32.95	0.34	0.00	13.18	4.43
17/01/2023 17:37	29.01	3.77	32.77	0.36	0.00	13.19	4.42
17/01/2023 17:38	29.10	3.71	32.81	0.36	0.00	13.19	4.42
17/01/2023 17:39	28.85	3.95	32.80	0.36	0.00	13.20	4.42
17/01/2023 17:40	28.84	3.90	32.74	0.37	0.00	13.20	4.43
17/01/2023 17:41	28.85	4.10	32.95	0.33	0.00	13.20	4.43
17/01/2023 17:42	28.92	3.94	32.86	0.37	0.00	13.20	4.43
17/01/2023 17:43	28.91	3.96	32.88	0.37	0.00	13.20	4.43
17/01/2023 17:44	28.96	3.86	32.82	0.35	0.00	13.19	4.43
17/01/2023 17:45	28.99	3.96	32.94	0.36	0.00	13.19	4.43
17/01/2023 17:46	28.85	3.99	32.85	0.36	0.00	13.18	4.43
17/01/2023 17:47	28.83	3.92	32.75	0.34	0.00	13.17	4.43
17/01/2023 17:48	28.86	3.80	32.66	0.34	0.00	13.17	4.43
17/01/2023 17:49	28.90	3.82	32.72	0.37	0.00	13.17	4.43
17/01/2023 17:50	28.86	3.91	32.77	0.34	0.00	13.17	4.43
17/01/2023 17:51	28.83	3.99	32.82	0.36	0.00	13.18	4.43
17/01/2023 17:52	28.87	3.94	32.81	0.35	0.00	13.17	4.43
17/01/2023 17:53	28.96	3.82	32.78	0.36	0.00	13.17	4.43
17/01/2023 17:54	28.89	3.82	32.72	0.38	0.00	13.18	4.43
17/01/2023 17:55	28.80	3.95	32.74	0.33	0.00	13.17	4.43
17/01/2023 17:56	28.91	3.91	32.81	0.37	0.00	13.17	4.43
17/01/2023 17:57	28.96	3.93	32.89	0.33	0.00	13.17	4.43
17/01/2023 17:58	28.89	3.88	32.77	0.40	0.00	13.17	4.43
17/01/2023 17:59	28.84	3.83	32.66	0.35	0.00	13.17	4.43
17/01/2023 18:00	28.80	3.84	32.64	0.35	0.00	13.16	4.43
17/01/2023 18:01	28.82	3.94	32.76	0.34	0.00	13.17	4.43
17/01/2023 18:02	28.72	3.99	32.70	0.35	0.00	13.17	4.43
17/01/2023 18:03	28.67	3.93	32.59	0.33	0.00	13.18	4.43
17/01/2023 18:04	28.69	3.96	32.65	0.37	0.00	13.18	4.42
17/01/2023 18:05	28.61	4.04	32.65	0.40	0.00	13.19	4.42
17/01/2023 18:06	28.73	3.83	32.55	0.38	0.00	13.19	4.42
17/01/2023 18:07	28.77	3.82	32.59	0.33	0.00	13.19	4.42
17/01/2023 18:08	28.74	3.88	32.62	0.32	0.00	13.18	4.43
17/01/2023 18:09	28.69	3.94	32.63	0.41	0.00	13.18	4.42
17/01/2023 18:10	28.67	3.91	32.58	0.40	0.00	13.17	4.42
17/01/2023 18:11	28.64	3.93	32.57	0.36	0.00	13.17	4.43
17/01/2023 18:12	28.76	3.92	32.69	0.36	0.00	13.17	4.43
17/01/2023 18:13	28.63	4.13	32.75	0.35	0.00	13.18	4.43
17/01/2023 18:14	28.61	4.16	32.77	0.36	0.00	13.19	4.43
17/01/2023 18:15	28.73	3.92	32.65	0.37	0.00	13.18	4.42
17/01/2023 18:16	28.72	3.93	32.64	0.36	0.00	13.17	4.43
17/01/2023 18:17	28.65	3.96	32.60	0.33	0.00	13.18	4.43
17/01/2023 18:18	28.70	3.84	32.54	0.33	0.00	13.19	4.43

Date & Time	NO	NO2	NOx	SO2	CO	O2	CO2
	ppm	ppm	ppm	ppm	ppm	%	%
17/01/2023 18:19	28.69	3.83	32.52	0.33	0.00	13.18	4.43
17/01/2023 18:20	28.77	3.94	32.71	0.35	0.00	13.17	4.43
17/01/2023 18:21	28.68	4.11	32.80	0.34	0.00	13.17	4.43
17/01/2023 18:22	28.70	3.95	32.65	0.36	0.00	13.17	4.43
17/01/2023 18:23	28.71	3.80	32.51	0.34	0.00	13.17	4.43
17/01/2023 18:24	28.76	3.83	32.58	0.35	0.00	13.17	4.43
17/01/2023 18:25	28.75	3.96	32.71	0.35	0.00	13.17	4.44
17/01/2023 18:26	28.73	3.97	32.70	0.34	0.00	13.17	4.44
17/01/2023 18:27	28.84	3.86	32.70	0.36	0.00	13.17	4.44
17/01/2023 18:28	28.86	3.84	32.71	0.35	0.00	13.16	4.44
17/01/2023 18:29	28.68	4.07	32.75	0.34	0.00	13.17	4.44
17/01/2023 18:30	28.68	3.89	32.57	0.35	0.00	13.17	4.44
17/01/2023 18:31	28.62	3.92	32.54	0.34	0.00	13.16	4.44
17/01/2023 18:32	28.71	3.87	32.58	0.37	0.00	13.15	4.44
17/01/2023 18:33	28.78	3.84	32.63	0.35	0.00	13.14	4.45
17/01/2023 18:34	28.85	3.75	32.60	0.28	0.00	13.14	4.45
17/01/2023 18:35	28.71	3.83	32.54	0.34	0.00	13.14	4.44
17/01/2023 18:36	28.65	3.86	32.51	0.35	0.00	13.14	4.44
17/01/2023 18:37	28.62	3.89	32.51	0.35	0.00	13.15	4.44
17/01/2023 18:38	28.63	3.93	32.56	0.36	0.00	13.15	4.45
17/01/2023 18:39	28.55	3.97	32.52	0.34	0.00	13.15	4.45
17/01/2023 18:40	28.69	3.82	32.51	0.32	0.00	13.15	4.45
17/01/2023 18:41	28.62	3.87	32.49	0.33	0.00	13.14	4.45
17/01/2023 18:42	28.72	3.86	32.58	0.36	0.00	13.14	4.45
17/01/2023 18:43	28.72	3.76	32.48	0.37	0.00	13.14	4.45
17/01/2023 18:44	28.62	3.85	32.48	0.35	0.00	13.14	4.45
17/01/2023 18:45	28.62	3.94	32.56	0.35	0.00	13.14	4.45
17/01/2023 18:46	28.68	3.88	32.56	0.34	0.00	13.14	4.45
17/01/2023 18:47	28.60	3.97	32.58	0.35	0.00	13.14	4.45
17/01/2023 18:48	28.59	3.86	32.46	0.36	0.00	13.14	4.45
17/01/2023 18:49	28.62	3.96	32.58	0.34	0.00	13.14	4.45
17/01/2023 18:50	28.57	3.99	32.56	0.36	0.00	13.14	4.45
17/01/2023 18:51	28.64	3.98	32.62	0.38	0.00	13.14	4.45
17/01/2023 18:52	28.68	3.88	32.56	0.35	0.00	13.14	4.45
17/01/2023 18:53	28.79	3.87	32.66	0.39	0.00	13.14	4.45
17/01/2023 18:54	28.73	3.89	32.62	0.36	0.00	13.14	4.45
17/01/2023 18:55	28.74	3.81	32.55	0.38	0.00	13.14	4.45
Minimum	28.55	3.70	32.46	0.28	0.00	13.14	4.40
MinDate	17/01/2023 18:39	17/01/2023 17:21	17/01/2023 18:48	17/01/2023 18:34	17/01/2023 16:50	17/01/2023 18:33	17/01/2023 16:50
Maximum	29.13	4.16	33.02	0.41	0.00	13.21	4.45
MaxDate	17/01/2023 17:21	17/01/2023 18:14	17/01/2023 17:16	17/01/2023 16:56	17/01/2023 16:50	17/01/2023 16:51	17/01/2023 18:33
Avg	28.82	3.90	32.72	0.36	0.00	13.18	4.43
Num	126	126	126	126	126	126	126
Data[%]	100	100	100	100	100	100	100
STD	0.13	0.08	0.13	0.02	0.00	0.02	0.02



Station:	EGAT_MOBILE_CEMS	
Date:	25/01/2023 12:30 - 25/01/2023 14:40	
Location :	North Bangkok Power Plant	
Unit :	NB-C21	
Fuel :	Natural Gas	Sample 1
Load :	427	MW.
% O <sub>2</sub> (avg) :	12.85	%.
NO <sub>x</sub> (avg) :	6.89	ppm ,@ 7% O <sub>2</sub> ,dry basis .
SO <sub>2</sub> (avg) :	0.02	ppm ,@ 7% O <sub>2</sub> ,dry basis .
CO <sub>(avg)</sub> :	0.00	ppm ,@ 7% O <sub>2</sub> ,dry basis .
Report Type :	Mean	
Time Base :	1 Min	

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Date & Time	NO	NO2	NOx	SO2	CO	O2	CO2
	ppm	ppm	ppm	ppm	ppm	%	%
25/01/2023 12:30	3.28	0.69	3.97	0.01	0.00	12.85	4.72
25/01/2023 12:31	3.31	0.71	4.02	0.01	0.00	12.85	4.73
25/01/2023 12:32	3.31	0.70	4.01	0.00	0.00	12.85	4.72
25/01/2023 12:33	3.30	0.70	4.00	0.00	0.00	12.85	4.71
25/01/2023 12:34	3.31	0.69	4.00	0.01	0.00	12.84	4.73
25/01/2023 12:35	3.29	0.72	4.01	0.03	0.00	12.84	4.74
25/01/2023 12:36	3.29	0.69	3.99	0.00	0.00	12.84	4.73
25/01/2023 12:37	3.29	0.70	3.99	0.00	0.00	12.85	4.72
25/01/2023 12:38	3.29	0.71	4.01	0.00	0.00	12.85	4.72
25/01/2023 12:39	3.29	0.69	3.98	0.01	0.00	12.86	4.72
25/01/2023 12:40	3.29	0.68	3.97	0.01	0.00	12.86	4.72
25/01/2023 12:41	3.28	0.73	4.01	0.00	0.00	12.87	4.72
25/01/2023 12:42	3.30	0.74	4.04	0.00	0.00	12.86	4.71
25/01/2023 12:43	3.27	0.72	3.99	0.00	0.00	12.86	4.71
25/01/2023 12:44	3.27	0.72	3.98	0.01	0.00	12.85	4.71
25/01/2023 12:45	3.28	0.67	3.95	0.00	0.00	12.85	4.71
25/01/2023 12:46	3.24	0.69	3.94	0.03	0.00	12.84	4.72
25/01/2023 12:47	3.28	0.72	4.01	0.00	0.00	12.84	4.71
25/01/2023 12:48	3.28	0.69	3.97	0.00	0.00	12.84	4.71
25/01/2023 12:49	3.27	0.69	3.96	0.00	0.00	12.84	4.71
25/01/2023 12:50	3.28	0.66	3.95	0.02	0.00	12.84	4.72
25/01/2023 12:51	3.27	0.70	3.97	0.04	0.00	12.85	4.72
25/01/2023 12:52	3.30	0.71	4.01	0.02	0.00	12.86	4.71
25/01/2023 12:53	3.31	0.74	4.05	0.00	0.00	12.86	4.71
25/01/2023 12:54	3.32	0.69	4.00	0.00	0.00	12.87	4.71
25/01/2023 12:55	3.30	0.72	4.02	0.02	0.00	12.87	4.72
25/01/2023 12:56	3.30	0.71	4.00	0.01	0.00	12.87	4.71
25/01/2023 12:57	3.30	0.71	4.01	0.01	0.00	12.85	4.71
25/01/2023 12:58	3.34	0.69	4.04	0.01	0.00	12.85	4.70
25/01/2023 12:59	3.28	0.69	3.97	0.00	0.00	12.85	4.70
25/01/2023 13:00	3.30	0.69	3.99	0.00	0.00	12.85	4.70
25/01/2023 13:01	3.29	0.70	3.99	0.01	0.00	12.86	4.69
25/01/2023 13:02	3.29	0.71	3.99	0.00	0.00	12.86	4.69
25/01/2023 13:03	3.29	0.71	4.00	0.01	0.00	12.86	4.71
25/01/2023 13:04	3.28	0.71	3.99	0.00	0.00	12.87	4.72
25/01/2023 13:05	3.27	0.71	3.98	0.02	0.00	12.87	4.70
25/01/2023 13:06	3.26	0.70	3.96	0.01	0.00	12.87	4.70
25/01/2023 13:07	3.24	0.72	3.96	0.03	0.00	12.86	4.70
25/01/2023 13:08	3.26	0.70	3.96	0.01	0.00	12.86	4.71
25/01/2023 13:09	3.26	0.72	3.98	0.01	0.00	12.87	4.71
25/01/2023 13:10	3.26	0.70	3.96	0.03	0.00	12.87	4.71
25/01/2023 13:11	3.27	0.71	3.98	0.01	0.00	12.87	4.71
25/01/2023 13:12	3.27	0.70	3.97	0.02	0.00	12.87	4.70
25/01/2023 13:13	3.26	0.72	3.98	0.02	0.00	12.87	4.71
25/01/2023 13:14	3.27	0.73	4.00	0.01	0.00	12.88	4.72
25/01/2023 13:15	3.31	0.71	4.02	0.01	0.00	12.88	4.74
25/01/2023 13:16	3.26	0.72	3.98	0.02	0.00	12.88	4.72
25/01/2023 13:17	3.27	0.68	3.94	0.01	0.00	12.88	4.72
25/01/2023 13:18	3.25	0.73	3.98	0.02	0.00	12.88	4.71
25/01/2023 13:19	3.26	0.72	3.99	0.01	0.00	12.88	4.72
25/01/2023 13:20	3.28	0.69	3.97	0.01	0.00	12.88	4.73
25/01/2023 13:21	3.27	0.69	3.96	0.00	0.00	12.88	4.72
25/01/2023 13:22	3.27	0.71	3.98	0.01	0.00	12.88	4.72
25/01/2023 13:23	3.28	0.70	3.98	0.00	0.00	12.87	4.72
25/01/2023 13:24	3.26	0.72	3.97	0.02	0.00	12.87	4.72
25/01/2023 13:25	3.30	0.71	4.00	0.01	0.00	12.87	4.72
25/01/2023 13:26	3.29	0.72	4.01	0.01	0.00	12.87	4.72
25/01/2023 13:27	3.26	0.73	3.99	0.00	0.00	12.87	4.71
25/01/2023 13:28	3.28	0.72	4.00	0.03	0.00	12.87	4.71
25/01/2023 13:29	3.31	0.68	3.98	0.02	0.00	12.87	4.71
25/01/2023 13:30	3.31	0.70	4.01	0.04	0.00	12.87	4.72
25/01/2023 13:31	3.27	0.74	4.01	0.01	0.00	12.87	4.71
25/01/2023 13:32	3.27	0.72	3.99	0.01	0.00	12.87	4.70
25/01/2023 13:33	3.27	0.71	3.98	0.04	0.00	12.86	4.71
25/01/2023 13:34	3.27	0.69	3.97	0.02	0.00	12.86	4.71
25/01/2023 13:35	3.27	0.71	3.97	0.00	0.00	12.86	4.71
25/01/2023 13:36	3.29	0.71	4.00	0.02	0.00	12.87	4.71
25/01/2023 13:37	3.28	0.71	3.98	0.00	0.00	12.87	4.71
25/01/2023 13:38	3.27	0.69	3.96	0.02	0.00	12.86	4.70
25/01/2023 13:39	3.28	0.71	3.99	0.01	0.00	12.87	4.71
25/01/2023 13:40	3.27	0.72	3.99	0.00	0.00	12.86	4.72
25/01/2023 13:41	3.27	0.68	3.96	0.03	0.00	12.87	4.71
25/01/2023 13:42	3.28	0.68	3.97	0.04	0.00	12.87	4.72
25/01/2023 13:43	3.28	0.69	3.97	0.01	0.00	12.87	4.72
25/01/2023 13:44	3.28	0.70	3.98	0.02	0.00	12.85	4.72
25/01/2023 13:45	3.29	0.69	3.98	0.02	0.00	12.84	4.72
25/01/2023 13:46	3.29	0.72	4.01	0.00	0.00	12.85	4.72
25/01/2023 13:47	3.26	0.73	3.99	0.02	0.00	12.85	4.71
25/01/2023 13:48	3.28	0.69	3.97	0.03	0.00	12.84	4.71
25/01/2023 13:49	3.28	0.68	3.95	0.01	0.00	12.85	4.71
25/01/2023 13:50	3.30	0.68	3.99	0.02	0.00	12.85	4.71
25/01/2023 13:51	3.29	0.73	4.02	0.01	0.00	12.85	4.72
25/01/2023 13:52	3.29	0.70	4.00	0.01	0.00	12.85	4.72
25/01/2023 13:53	3.26	0.70	3.96	0.01	0.00	12.85	4.72
25/01/2023 13:54	3.28	0.68	3.96	0.01	0.00	12.85	4.72
25/01/2023 13:55	3.28	0.70	3.98	0.01	0.00	12.85	4.71
25/01/2023 13:56	3.29	0.77	4.06	0.02	0.00	12.85	4.72
25/01/2023 13:57	3.29	0.71	4.00	0.01	0.00	12.85	4.72
25/01/2023 13:58	3.27	0.70	3.97	0.01	0.00	12.85	4.72

Date & Time	NO	NO2	NOx	SO2	CO	O2	CO2
	ppm	ppm	ppm	ppm	ppm	%	%
25/01/2023 13:59	3.27	0.69	3.96	0.01	0.00	12.85	4.72
25/01/2023 14:00	3.27	0.71	3.98	0.00	0.00	12.86	4.72
25/01/2023 14:01	3.26	0.75	4.01	0.02	0.00	12.85	4.73
25/01/2023 14:02	3.26	0.71	3.96	0.04	0.00	12.85	4.73
25/01/2023 14:03	3.30	0.70	3.99	0.01	0.00	12.85	4.72
25/01/2023 14:04	3.30	0.69	4.00	0.02	0.00	12.85	4.71
25/01/2023 14:05	3.29	0.71	4.00	0.00	0.00	12.84	4.72
25/01/2023 14:06	3.28	0.73	4.01	0.00	0.00	12.84	4.73
25/01/2023 14:07	3.30	0.69	3.99	0.02	0.00	12.83	4.74
25/01/2023 14:08	3.29	0.70	3.99	0.00	0.00	12.83	4.73
25/01/2023 14:09	3.28	0.71	3.99	0.04	0.00	12.83	4.72
25/01/2023 14:10	3.27	0.70	3.97	0.00	0.00	12.83	4.72
25/01/2023 14:11	3.28	0.72	4.00	0.01	0.00	12.83	4.73
25/01/2023 14:12	3.28	0.73	4.01	0.02	0.00	12.84	4.72
25/01/2023 14:13	3.29	0.70	3.99	0.00	0.00	12.83	4.72
25/01/2023 14:14	3.28	0.69	3.97	0.01	0.00	12.83	4.72
25/01/2023 14:15	3.27	0.73	3.99	0.01	0.00	12.84	4.71
25/01/2023 14:16	3.27	0.72	3.99	0.01	0.00	12.83	4.72
25/01/2023 14:17	3.28	0.71	4.00	0.00	0.00	12.82	4.72
25/01/2023 14:18	3.28	0.71	3.99	0.01	0.00	12.83	4.72
25/01/2023 14:19	3.26	0.72	3.98	0.01	0.00	12.83	4.73
25/01/2023 14:20	3.27	0.72	3.99	0.00	0.00	12.83	4.73
25/01/2023 14:21	3.27	0.72	3.99	0.01	0.00	12.83	4.74
25/01/2023 14:22	3.32	0.71	4.03	0.02	0.00	12.83	4.74
25/01/2023 14:23	3.31	0.71	4.02	0.02	0.00	12.83	4.73
25/01/2023 14:24	3.29	0.73	4.02	0.01	0.00	12.83	4.73
25/01/2023 14:25	3.29	0.69	3.98	0.01	0.00	12.83	4.72
25/01/2023 14:26	3.29	0.70	3.99	0.00	0.00	12.83	4.73
25/01/2023 14:27	3.27	0.72	3.99	0.02	0.00	12.83	4.73
25/01/2023 14:28	3.29	0.71	4.00	0.00	0.00	12.83	4.72
25/01/2023 14:29	3.29	0.70	3.99	0.00	0.00	12.83	4.72
25/01/2023 14:30	3.27	0.69	3.96	0.01	0.00	12.83	4.71
25/01/2023 14:31	3.27	0.71	3.98	0.02	0.00	12.83	4.71
25/01/2023 14:32	3.27	0.70	3.97	0.01	0.00	12.83	4.72
25/01/2023 14:33	3.27	0.69	3.96	0.02	0.00	12.84	4.73
25/01/2023 14:34	3.27	0.72	3.99	0.04	0.00	12.84	4.73
25/01/2023 14:35	3.29	0.70	3.99	0.02	0.00	12.84	4.72
25/01/2023 14:36	3.30	0.70	3.99	0.00	0.00	12.83	4.72
25/01/2023 14:37	3.29	0.71	4.00	0.01	0.00	12.83	4.72
25/01/2023 14:38	3.30	0.69	3.99	0.01	0.00	12.84	4.72
25/01/2023 14:39	3.29	0.73	4.02	0.02	0.00	12.83	4.72
25/01/2023 14:40	3.28	0.73	4.01	0.01	0.00	12.83	4.71
Minimum	3.24	0.66	3.94	0.00	0.00	12.82	4.69
MinDate	25/01/2023 12:46	25/01/2023 12:50	25/01/2023 12:46	25/01/2023 12:32	25/01/2023 12:30	25/01/2023 14:17	25/01/2023 13:01
Maximum	3.34	0.77	4.06	0.04	0.00	12.88	4.74
MaxDate	25/01/2023 12:58	25/01/2023 13:56	25/01/2023 13:56	25/01/2023 12:51	25/01/2023 12:30	25/01/2023 13:14	25/01/2023 12:35
Avg	3.28	0.71	3.99	0.01	0.00	12.85	4.72
Num	131	131	131	131	131	131	131
Data[%]	100	100	100	100	100	100	100
STD	0.02	0.02	0.02	0.01	0.00	0.02	0.01

Station:	EGAT_MOBILE_CEMS	
Date:	25/01/2023 15:55 - 25/01/2023 18:00	
Location :	North Bangkok Power Plant	
Unit :	NB-C21	
Fuel :	Natural Gas	Sample 2
Load :	427	MW.
% O <sub>2</sub> (avg) :	12.85	%.
NO <sub>x</sub> (avg) :	6.90	ppm ,@ 7% O <sub>2</sub> ,dry basis .
SO <sub>2</sub> (avg) :	0.01	ppm ,@ 7% O <sub>2</sub> ,dry basis .
CO <sub>(avg)</sub> :	0.00	ppm ,@ 7% O <sub>2</sub> ,dry basis .
Report Type :	Mean	
Time Base :	1 Min	

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Date & Time	NO	NO2	NOx	SO2	CO	O2	CO2
	ppm	ppm	ppm	ppm	ppm	%	%
25/01/2023 15:55	3.29	0.70	3.99	0.02	0.00	12.84	4.73
25/01/2023 15:56	3.30	0.67	3.97	0.01	0.00	12.84	4.73
25/01/2023 15:57	3.25	0.70	3.96	0.02	0.00	12.85	4.72
25/01/2023 15:58	3.29	0.70	3.99	0.01	0.00	12.86	4.72
25/01/2023 15:59	3.27	0.73	4.00	0.01	0.00	12.85	4.72
25/01/2023 16:00	3.30	0.69	3.99	0.01	0.00	12.85	4.72
25/01/2023 16:01	3.29	0.70	3.99	0.03	0.00	12.83	4.73
25/01/2023 16:02	3.27	0.70	3.97	0.01	0.00	12.84	4.73
25/01/2023 16:03	3.30	0.70	4.00	0.02	0.00	12.84	4.72
25/01/2023 16:04	3.28	0.70	3.97	0.01	0.00	12.85	4.72
25/01/2023 16:05	3.28	0.70	3.98	0.01	0.00	12.85	4.72
25/01/2023 16:06	3.28	0.69	3.97	0.02	0.00	12.85	4.73
25/01/2023 16:07	3.26	0.71	3.97	0.02	0.00	12.84	4.74
25/01/2023 16:08	3.27	0.70	3.97	0.01	0.00	12.85	4.74
25/01/2023 16:09	3.28	0.71	3.99	0.00	0.00	12.86	4.73
25/01/2023 16:10	3.29	0.71	4.01	0.01	0.00	12.85	4.73
25/01/2023 16:11	3.31	0.67	3.99	0.01	0.00	12.84	4.73
25/01/2023 16:12	3.30	0.70	4.00	0.01	0.00	12.84	4.72
25/01/2023 16:13	3.28	0.72	4.00	0.00	0.00	12.84	4.71
25/01/2023 16:14	3.28	0.69	3.98	0.00	0.00	12.84	4.72
25/01/2023 16:15	3.27	0.71	3.98	0.00	0.00	12.84	4.71
25/01/2023 16:16	3.30	0.67	3.97	0.01	0.00	12.85	4.71
25/01/2023 16:17	3.29	0.69	3.99	0.02	0.00	12.85	4.71
25/01/2023 16:18	3.29	0.69	3.98	0.01	0.00	12.85	4.72
25/01/2023 16:19	3.31	0.68	3.99	0.01	0.00	12.86	4.72
25/01/2023 16:20	3.31	0.70	4.01	0.01	0.00	12.85	4.72
25/01/2023 16:21	3.32	0.69	4.01	0.00	0.00	12.85	4.72
25/01/2023 16:22	3.30	0.76	4.06	0.00	0.00	12.84	4.72
25/01/2023 16:23	3.29	0.71	4.00	0.01	0.00	12.84	4.72
25/01/2023 16:24	3.30	0.70	4.00	0.00	0.00	12.84	4.72
25/01/2023 16:25	3.29	0.71	4.00	0.00	0.00	12.84	4.71
25/01/2023 16:26	3.29	0.72	4.02	0.00	0.00	12.85	4.71
25/01/2023 16:27	3.30	0.70	4.00	0.01	0.00	12.86	4.71
25/01/2023 16:28	3.30	0.69	3.99	0.00	0.00	12.86	4.70
25/01/2023 16:29	3.27	0.75	4.01	0.00	0.00	12.86	4.70
25/01/2023 16:30	3.30	0.69	3.99	0.01	0.00	12.86	4.70
25/01/2023 16:31	3.29	0.70	3.99	0.00	0.00	12.86	4.71
25/01/2023 16:32	3.29	0.70	3.99	0.01	0.00	12.86	4.70
25/01/2023 16:33	3.27	0.71	3.98	0.01	0.00	12.86	4.71
25/01/2023 16:34	3.27	0.73	4.00	0.02	0.00	12.85	4.71
25/01/2023 16:35	3.28	0.70	3.98	0.00	0.00	12.85	4.71
25/01/2023 16:36	3.26	0.74	4.01	0.00	0.00	12.85	4.72
25/01/2023 16:37	3.28	0.70	3.98	0.01	0.00	12.86	4.72
25/01/2023 16:38	3.28	0.72	3.99	0.01	0.00	12.86	4.71
25/01/2023 16:39	3.27	0.70	3.98	0.00	0.00	12.86	4.71
25/01/2023 16:40	3.28	0.69	3.97	0.01	0.00	12.86	4.71
25/01/2023 16:41	3.28	0.70	3.98	0.00	0.00	12.86	4.71
25/01/2023 16:42	3.29	0.73	4.01	0.00	0.00	12.86	4.72
25/01/2023 16:43	3.30	0.68	3.99	0.00	0.00	12.86	4.72
25/01/2023 16:44	3.29	0.71	4.00	0.01	0.00	12.85	4.71
25/01/2023 16:45	3.30	0.72	4.02	0.00	0.00	12.85	4.73
25/01/2023 16:46	3.31	0.71	4.02	0.01	0.00	12.84	4.71
25/01/2023 16:47	3.30	0.71	4.00	0.01	0.00	12.85	4.71
25/01/2023 16:48	3.27	0.73	4.00	0.01	0.00	12.86	4.71
25/01/2023 16:49	3.27	0.71	3.98	0.01	0.00	12.86	4.71
25/01/2023 16:50	3.27	0.70	3.97	0.01	0.00	12.86	4.71
25/01/2023 16:51	3.25	0.72	3.97	0.01	0.00	12.85	4.70
25/01/2023 16:52	3.27	0.72	3.99	0.01	0.00	12.84	4.71
25/01/2023 16:53	3.27	0.71	3.98	0.02	0.00	12.85	4.72
25/01/2023 16:54	3.29	0.70	3.99	0.00	0.00	12.85	4.72
25/01/2023 16:55	3.30	0.71	4.01	0.00	0.00	12.84	4.71
25/01/2023 16:56	3.31	0.69	3.99	0.00	0.00	12.83	4.71
25/01/2023 16:57	3.30	0.70	4.00	0.01	0.00	12.83	4.70
25/01/2023 16:58	3.31	0.70	4.01	0.00	0.00	12.84	4.70
25/01/2023 16:59	3.27	0.72	3.99	0.03	0.00	12.83	4.71
25/01/2023 17:00	3.26	0.72	3.97	0.00	0.00	12.83	4.72
25/01/2023 17:01	3.28	0.72	4.00	0.01	0.00	12.86	4.71
25/01/2023 17:02	3.34	0.67	4.01	0.00	0.00	12.86	4.70
25/01/2023 17:03	3.31	0.69	4.00	0.00	0.00	12.86	4.70
25/01/2023 17:04	3.29	0.70	3.99	0.01	0.00	12.85	4.69
25/01/2023 17:05	3.28	0.71	4.00	0.00	0.00	12.85	4.71
25/01/2023 17:06	3.28	0.69	3.97	0.01	0.00	12.85	4.72
25/01/2023 17:07	3.27	0.70	3.97	0.04	0.00	12.84	4.71
25/01/2023 17:08	3.27	0.72	3.99	0.01	0.00	12.84	4.71
25/01/2023 17:09	3.29	0.71	4.00	0.01	0.00	12.84	4.71
25/01/2023 17:10	3.30	0.71	4.00	0.01	0.00	12.84	4.70
25/01/2023 17:11	3.28	0.73	4.01	0.01	0.00	12.83	4.71
25/01/2023 17:12	3.30	0.69	3.99	0.01	0.00	12.84	4.71
25/01/2023 17:13	3.30	0.71	4.01	0.00	0.00	12.84	4.70
25/01/2023 17:14	3.28	0.74	4.02	0.00	0.00	12.84	4.71
25/01/2023 17:15	3.28	0.71	3.99	0.00	0.00	12.84	4.71
25/01/2023 17:16	3.28	0.73	4.01	0.01	0.00	12.84	4.70
25/01/2023 17:17	3.30	0.72	4.02	0.01	0.00	12.85	4.70
25/01/2023 17:18	3.31	0.70	4.00	0.01	0.00	12.85	4.70
25/01/2023 17:19	3.29	0.70	4.00	0.01	0.00	12.84	4.69
25/01/2023 17:20	3.27	0.71	3.98	0.02	0.00	12.84	4.69
25/01/2023 17:21	3.28	0.69	3.97	0.00	0.00	12.84	4.70
25/01/2023 17:22	3.28	0.73	4.01	0.01	0.00	12.85	4.71
25/01/2023 17:23	3.28	0.73	4.02	0.02	0.00	12.85	4.70

Date & Time	NO	NO2	NOx	SO2	CO	O2	CO2
	ppm	ppm	ppm	ppm	ppm	%	%
25/01/2023 17:24	3.28	0.73	4.00	0.01	0.00	12.85	4.69
25/01/2023 17:25	3.27	0.72	3.99	0.01	0.00	12.85	4.70
25/01/2023 17:26	3.27	0.74	4.01	0.00	0.00	12.86	4.71
25/01/2023 17:27	3.29	0.73	4.02	0.00	0.00	12.87	4.71
25/01/2023 17:28	3.29	0.69	3.99	0.00	0.00	12.88	4.70
25/01/2023 17:29	3.29	0.74	4.03	0.02	0.00	12.87	4.70
25/01/2023 17:30	3.29	0.71	4.00	0.00	0.00	12.87	4.69
25/01/2023 17:31	3.26	0.73	3.99	0.02	0.00	12.86	4.70
25/01/2023 17:32	3.24	0.75	3.99	0.00	0.00	12.85	4.71
25/01/2023 17:33	3.25	0.73	3.99	0.00	0.00	12.85	4.71
25/01/2023 17:34	3.28	0.70	3.97	0.00	0.00	12.86	4.70
25/01/2023 17:35	3.27	0.71	3.98	0.01	0.00	12.87	4.71
25/01/2023 17:36	3.27	0.72	3.98	0.00	0.00	12.86	4.71
25/01/2023 17:37	3.26	0.71	3.98	0.01	0.00	12.87	4.71
25/01/2023 17:38	3.26	0.71	3.96	0.01	0.00	12.87	4.70
25/01/2023 17:39	3.26	0.71	3.97	0.00	0.00	12.87	4.70
25/01/2023 17:40	3.29	0.68	3.97	0.01	0.00	12.87	4.70
25/01/2023 17:41	3.30	0.69	3.99	0.00	0.00	12.87	4.71
25/01/2023 17:42	3.28	0.71	3.99	0.01	0.00	12.86	4.71
25/01/2023 17:43	3.27	0.71	3.99	0.00	0.00	12.85	4.70
25/01/2023 17:44	3.30	0.71	4.02	0.00	0.00	12.85	4.70
25/01/2023 17:45	3.28	0.77	4.05	0.00	0.00	12.85	4.72
25/01/2023 17:46	3.30	0.72	4.02	0.01	0.00	12.85	4.71
25/01/2023 17:47	3.27	0.75	4.02	0.01	0.00	12.85	4.73
25/01/2023 17:48	3.28	0.73	4.01	0.01	0.00	12.85	4.72
25/01/2023 17:49	3.29	0.72	4.01	0.02	0.00	12.86	4.72
25/01/2023 17:50	3.29	0.73	4.02	0.01	0.00	12.85	4.72
25/01/2023 17:51	3.30	0.72	4.02	0.00	0.00	12.85	4.70
25/01/2023 17:52	3.30	0.71	4.01	0.00	0.00	12.85	4.72
25/01/2023 17:53	3.29	0.72	4.00	0.01	0.00	12.85	4.71
25/01/2023 17:54	3.29	0.70	3.99	0.01	0.00	12.85	4.70
25/01/2023 17:55	3.30	0.71	4.01	0.01	0.00	12.85	4.71
25/01/2023 17:56	3.29	0.73	4.02	0.01	0.00	12.85	4.70
25/01/2023 17:57	3.29	0.71	4.00	0.00	0.00	12.85	4.69
25/01/2023 17:58	3.28	0.72	4.00	0.02	0.00	12.85	4.69
25/01/2023 17:59	3.28	0.71	3.99	0.02	0.00	12.85	4.69
25/01/2023 18:00	3.28	0.70	3.98	0.01	0.00	12.85	4.71
Minimum	3.24	0.67	3.96	0.00	0.00	12.83	4.69
MinDate	25/01/2023 17:32	25/01/2023 15:56	25/01/2023 15:57	25/01/2023 16:09	25/01/2023 15:55	25/01/2023 16:01	25/01/2023 17:04
Maximum	3.34	0.77	4.06	0.04	0.00	12.88	4.74
MaxDate	25/01/2023 17:02	25/01/2023 17:45	25/01/2023 16:22	25/01/2023 17:07	25/01/2023 15:55	25/01/2023 17:28	25/01/2023 16:07
Avg	3.28	0.71	3.99	0.01	0.00	12.85	4.71
Num	126	126	126	126	126	126	126
Data[%]	100	100	100	100	100	100	100
STD	0.02	0.02	0.02	0.01	0.00	0.01	0.01

**Station:** EGAT\_MOBILE\_CEMS  
**Date:** 10/05/2023 12:20 - 10/05/2023 14:55  
**Location :** North Bangkok Power Plant  
**Unit :** NB-C22  
**Fuel :** Natural Gas                      Sample 1  
**Load :** 418                      MW.  
**% O<sub>2</sub>(avg) :** 12.48                      %.  
**NO<sub>x</sub>(avg) :** 6.42                      ppm ,@ 7% O<sub>2</sub>,dry basis .  
**SO<sub>2</sub>(avg) :** 0.36                      ppm ,@ 7% O<sub>2</sub>,dry basis .  
**CO<sub>(avg)</sub> :** 0.55                      ppm ,@ 7% O<sub>2</sub>,dry basis .  
**Report Type :** Mean  
**Time Base :** 1 Min

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Date & Time	NO ppm	NO2 ppm	NOx ppm	SO2 ppm	CO ppm	O2 %	CO2 %
10/05/2023 12:20	3.24	0.68	3.92	0.24	0.00	12.48	4.74
10/05/2023 12:21	3.23	0.67	3.91	0.21	0.00	12.49	4.74
10/05/2023 12:22	3.23	0.68	3.91	0.25	0.00	12.50	4.74
10/05/2023 12:23	3.22	0.68	3.91	0.22	0.00	12.50	4.74
10/05/2023 12:24	3.22	0.68	3.90	0.23	0.01	12.50	4.74
10/05/2023 12:25	3.23	0.68	3.91	0.22	0.53	12.49	4.74
10/05/2023 12:26	3.24	0.67	3.91	0.22	1.00	12.50	4.74
10/05/2023 12:27	3.26	0.67	3.93	0.20	1.24	12.49	4.74
10/05/2023 12:28	3.26	0.68	3.94	0.20	1.31	12.48	4.74
10/05/2023 12:29	3.26	0.68	3.94	0.22	1.08	12.47	4.74
10/05/2023 12:30	3.27	0.68	3.95	0.25	1.07	12.47	4.74
10/05/2023 12:31	3.25	0.67	3.92	0.23	0.82	12.48	4.74
10/05/2023 12:32	3.26	0.68	3.94	0.22	0.71	12.48	4.74
10/05/2023 12:33	3.27	0.68	3.95	0.21	0.94	12.50	4.74
10/05/2023 12:34	3.27	0.67	3.94	0.19	0.96	12.50	4.74
10/05/2023 12:35	3.27	0.68	3.96	0.20	1.00	12.50	4.74
10/05/2023 12:36	3.26	0.68	3.94	0.21	1.06	12.49	4.74
10/05/2023 12:37	3.27	0.67	3.94	0.19	1.06	12.48	4.74
10/05/2023 12:38	3.25	0.67	3.93	0.22	0.87	12.49	4.74
10/05/2023 12:39	3.25	0.69	3.94	0.18	1.07	12.49	4.74
10/05/2023 12:40	3.24	0.68	3.92	0.23	1.02	12.49	4.73
10/05/2023 12:41	3.27	0.67	3.93	0.22	0.94	12.49	4.74
10/05/2023 12:42	3.26	0.69	3.95	0.22	1.10	12.48	4.74
10/05/2023 12:43	3.26	0.69	3.96	0.21	0.97	12.48	4.74
10/05/2023 12:44	3.27	0.69	3.96	0.20	0.82	12.48	4.74
10/05/2023 12:45	3.26	0.68	3.94	0.23	0.99	12.48	4.74
10/05/2023 12:46	3.27	0.67	3.94	0.20	1.27	12.49	4.74
10/05/2023 12:47	3.25	0.68	3.93	0.22	1.01	12.49	4.74
10/05/2023 12:48	3.24	0.68	3.92	0.22	0.90	12.49	4.74
10/05/2023 12:49	3.24	0.66	3.90	0.21	0.85	12.49	4.73
10/05/2023 12:50	3.24	0.69	3.92	0.22	0.77	12.49	4.73
10/05/2023 12:51	3.24	0.68	3.92	0.21	0.79	12.49	4.74
10/05/2023 12:52	3.24	0.68	3.92	0.20	0.99	12.49	4.74
10/05/2023 12:53	3.25	0.69	3.94	0.23	1.28	12.49	4.74
10/05/2023 12:54	3.25	0.68	3.93	0.22	1.26	12.49	4.74
10/05/2023 12:55	3.26	0.67	3.93	0.19	1.03	12.49	4.74
10/05/2023 12:56	3.24	0.68	3.92	0.23	0.90	12.49	4.73
10/05/2023 12:57	3.23	0.68	3.92	0.24	0.74	12.49	4.73
10/05/2023 12:58	3.24	0.68	3.92	0.21	0.66	12.49	4.73
10/05/2023 12:59	3.23	0.68	3.91	0.21	0.74	12.50	4.74
10/05/2023 13:00	3.24	0.67	3.92	0.22	0.81	12.49	4.74
10/05/2023 13:01	3.24	0.67	3.91	0.22	0.80	12.49	4.74
10/05/2023 13:02	3.24	0.69	3.93	0.21	0.89	12.49	4.74
10/05/2023 13:03	3.24	0.67	3.91	0.22	0.80	12.49	4.73
10/05/2023 13:04	3.24	0.68	3.92	0.22	0.70	12.49	4.73
10/05/2023 13:05	3.23	0.66	3.90	0.22	0.54	12.48	4.74
10/05/2023 13:06	3.24	0.66	3.90	0.19	0.33	12.49	4.74
10/05/2023 13:07	3.24	0.69	3.92	0.22	0.30	12.49	4.73
10/05/2023 13:08	3.24	0.68	3.92	0.21	0.31	12.49	4.73
10/05/2023 13:09	3.24	0.69	3.93	0.22	0.32	12.49	4.74
10/05/2023 13:10	3.25	0.67	3.91	0.17	0.33	12.49	4.74
10/05/2023 13:11	3.24	0.68	3.92	0.19	0.40	12.49	4.74
10/05/2023 13:12	3.26	0.67	3.93	0.24	0.47	12.49	4.74
10/05/2023 13:13	3.27	0.67	3.94	0.23	0.49	12.50	4.73
10/05/2023 13:14	3.24	0.68	3.92	0.19	0.49	12.48	4.73
10/05/2023 13:15	3.21	0.69	3.90	0.23	0.62	12.47	4.74
10/05/2023 13:16	3.20	0.67	3.87	0.21	0.62	12.47	4.74
10/05/2023 13:17	3.21	0.68	3.89	0.22	0.74	12.47	4.75
10/05/2023 13:18	3.19	0.68	3.87	0.21	0.54	12.47	4.75
10/05/2023 13:19	3.19	0.67	3.86	0.23	0.62	12.47	4.75
10/05/2023 13:20	3.18	0.67	3.85	0.20	0.68	12.47	4.75
10/05/2023 13:21	3.19	0.68	3.87	0.22	0.84	12.47	4.75
10/05/2023 13:22	3.19	0.67	3.86	0.24	0.77	12.47	4.75
10/05/2023 13:23	3.19	0.68	3.87	0.25	0.43	12.47	4.75
10/05/2023 13:24	3.18	0.68	3.86	0.21	0.44	12.47	4.75
10/05/2023 13:25	3.19	0.67	3.85	0.25	0.34	12.46	4.75
10/05/2023 13:26	3.19	0.69	3.88	0.23	0.27	12.46	4.74
10/05/2023 13:27	3.20	0.66	3.86	0.23	0.28	12.46	4.75
10/05/2023 13:28	3.20	0.68	3.88	0.22	0.27	12.46	4.75
10/05/2023 13:29	3.19	0.68	3.87	0.21	0.32	12.45	4.75
10/05/2023 13:30	3.19	0.67	3.85	0.26	0.41	12.47	4.75
10/05/2023 13:31	3.20	0.67	3.87	0.25	0.44	12.46	4.75
10/05/2023 13:32	3.18	0.68	3.87	0.23	0.38	12.46	4.75
10/05/2023 13:33	3.19	0.67	3.86	0.25	0.32	12.47	4.75
10/05/2023 13:34	3.18	0.68	3.86	0.22	0.22	12.47	4.75
10/05/2023 13:35	3.20	0.67	3.87	0.26	0.14	12.47	4.75
10/05/2023 13:36	3.20	0.68	3.87	0.24	0.12	12.46	4.75
10/05/2023 13:37	3.20	0.66	3.86	0.20	0.14	12.45	4.75
10/05/2023 13:38	3.19	0.68	3.88	0.22	0.12	12.45	4.75
10/05/2023 13:39	3.19	0.67	3.86	0.20	0.14	12.46	4.75
10/05/2023 13:40	3.21	0.67	3.88	0.22	0.09	12.45	4.75
10/05/2023 13:41	3.20	0.68	3.89	0.19	0.08	12.45	4.75
10/05/2023 13:42	3.21	0.69	3.90	0.22	0.00	12.46	4.75
10/05/2023 13:43	3.21	0.68	3.89	0.21	0.00	12.45	4.75
10/05/2023 13:44	3.21	0.68	3.89	0.23	0.00	12.46	4.75
10/05/2023 13:45	3.20	0.67	3.87	0.23	0.00	12.46	4.75
10/05/2023 13:46	3.21	0.68	3.89	0.24	0.00	12.47	4.75
10/05/2023 13:47	3.20	0.68	3.88	0.21	0.00	12.47	4.75
10/05/2023 13:48	3.21	0.68	3.88	0.22	0.00	12.46	4.75



Date & Time	NO	NO2	NOx	SO2	CO	O2	CO2
	ppm	ppm	ppm	ppm	ppm	%	%
10/05/2023 13:49	3.20	0.67	3.87	0.23	0.00	12.47	4.74
10/05/2023 13:50	3.21	0.68	3.89	0.20	0.00	12.45	4.75
10/05/2023 13:51	3.21	0.68	3.89	0.19	0.00	12.46	4.75
10/05/2023 13:52	3.20	0.69	3.89	0.25	0.00	12.46	4.75
10/05/2023 13:53	3.20	0.67	3.87	0.24	0.00	12.45	4.74
10/05/2023 13:54	3.18	0.68	3.86	0.24	0.00	12.46	4.75
10/05/2023 13:55	3.18	0.67	3.85	0.22	0.00	12.46	4.74
10/05/2023 13:56	3.17	0.67	3.84	0.19	0.00	12.47	4.74
10/05/2023 13:57	3.17	0.67	3.84	0.23	0.00	12.48	4.75
10/05/2023 13:58	3.17	0.67	3.84	0.22	0.00	12.47	4.75
10/05/2023 13:59	3.18	0.66	3.84	0.21	0.00	12.47	4.75
10/05/2023 14:00	3.20	0.68	3.88	0.22	0.00	12.47	4.75
10/05/2023 14:01	3.20	0.67	3.87	0.21	0.00	12.46	4.75
10/05/2023 14:02	3.23	0.67	3.90	0.25	0.00	12.46	4.74
10/05/2023 14:03	3.21	0.68	3.89	0.22	0.00	12.46	4.75
10/05/2023 14:04	3.20	0.67	3.87	0.22	0.00	12.46	4.75
10/05/2023 14:05	3.19	0.67	3.86	0.21	0.00	12.46	4.74
10/05/2023 14:06	3.18	0.67	3.85	0.24	0.00	12.47	4.74
10/05/2023 14:07	3.17	0.68	3.85	0.23	0.00	12.49	4.74
10/05/2023 14:08	3.18	0.68	3.86	0.21	0.00	12.48	4.74
10/05/2023 14:09	3.19	0.67	3.86	0.22	0.00	12.48	4.74
10/05/2023 14:10	3.19	0.66	3.86	0.23	0.00	12.48	4.75
10/05/2023 14:11	3.17	0.66	3.83	0.24	0.00	12.47	4.75
10/05/2023 14:12	3.19	0.68	3.86	0.21	0.00	12.46	4.75
10/05/2023 14:13	3.17	0.70	3.87	0.23	0.00	12.46	4.75
10/05/2023 14:14	3.15	0.69	3.84	0.25	0.00	12.46	4.75
10/05/2023 14:15	3.18	0.69	3.87	0.25	0.00	12.47	4.74
10/05/2023 14:16	3.21	0.67	3.88	0.24	0.00	12.47	4.74
10/05/2023 14:17	3.19	0.67	3.86	0.24	0.00	12.48	4.74
10/05/2023 14:18	3.18	0.68	3.85	0.23	0.00	12.49	4.74
10/05/2023 14:19	3.21	0.67	3.87	0.22	0.00	12.48	4.74
10/05/2023 14:20	3.20	0.67	3.88	0.25	0.01	12.47	4.74
10/05/2023 14:21	3.20	0.67	3.86	0.21	0.00	12.47	4.75
10/05/2023 14:22	3.22	0.66	3.88	0.23	0.00	12.47	4.75
10/05/2023 14:23	3.21	0.67	3.89	0.24	0.00	12.46	4.75
10/05/2023 14:24	3.21	0.70	3.90	0.21	0.00	12.46	4.75
10/05/2023 14:25	3.22	0.67	3.89	0.21	0.00	12.46	4.75
10/05/2023 14:26	3.23	0.68	3.91	0.20	0.00	12.46	4.75
10/05/2023 14:27	3.21	0.68	3.89	0.21	0.00	12.46	4.75
10/05/2023 14:28	3.19	0.69	3.88	0.22	0.00	12.46	4.75
10/05/2023 14:29	3.20	0.67	3.87	0.25	0.07	12.47	4.75
10/05/2023 14:30	3.19	0.68	3.87	0.22	0.08	12.47	4.75
10/05/2023 14:31	3.17	0.68	3.85	0.22	0.00	12.47	4.74
10/05/2023 14:32	3.18	0.67	3.86	0.24	0.00	12.47	4.74
10/05/2023 14:33	3.18	0.66	3.84	0.21	0.00	12.47	4.74
10/05/2023 14:34	3.18	0.67	3.86	0.23	0.00	12.47	4.74
10/05/2023 14:35	3.18	0.68	3.87	0.24	0.00	12.47	4.75
10/05/2023 14:36	3.19	0.67	3.86	0.21	0.00	12.47	4.74
10/05/2023 14:37	3.20	0.66	3.87	0.21	0.01	12.46	4.74
10/05/2023 14:38	3.22	0.67	3.89	0.22	0.00	12.47	4.74
10/05/2023 14:39	3.20	0.69	3.88	0.17	0.01	12.47	4.75
10/05/2023 14:40	3.18	0.67	3.86	0.20	0.01	12.47	4.75
10/05/2023 14:41	3.19	0.67	3.86	0.21	0.00	12.48	4.74
10/05/2023 14:42	3.20	0.65	3.85	0.21	0.00	12.49	4.74
10/05/2023 14:43	3.21	0.67	3.89	0.22	0.00	12.49	4.73
10/05/2023 14:44	3.19	0.67	3.86	0.22	0.00	12.49	4.73
10/05/2023 14:45	3.19	0.68	3.87	0.24	0.00	12.49	4.74
10/05/2023 14:46	3.20	0.68	3.88	0.20	0.00	12.48	4.74
10/05/2023 14:47	3.17	0.68	3.85	0.20	0.00	12.47	4.75
10/05/2023 14:48	3.19	0.66	3.85	0.22	0.00	12.48	4.74
10/05/2023 14:49	3.21	0.67	3.88	0.25	0.01	12.47	4.74
10/05/2023 14:50	3.23	0.67	3.90	0.24	0.00	12.48	4.74
10/05/2023 14:51	3.23	0.67	3.89	0.21	0.00	12.49	4.73
10/05/2023 14:52	3.23	0.66	3.89	0.21	0.00	12.48	4.74
10/05/2023 14:53	3.21	0.69	3.90	0.21	0.00	12.47	4.74
10/05/2023 14:54	3.20	0.68	3.87	0.22	0.00	12.48	4.74
10/05/2023 14:55	3.23	0.68	3.91	0.20	0.00	12.49	4.74
Minimum	3.15	0.65	3.83	0.17	0.00	12.45	4.73
MinDate	10/05/2023 14:14	10/05/2023 14:42	10/05/2023 14:11	10/05/2023 13:10	10/05/2023 12:20	10/05/2023 13:29	10/05/2023 12:40
Maximum	3.27	0.70	3.96	0.26	1.31	12.50	4.75
MaxDate	10/05/2023 12:30	10/05/2023 14:13	10/05/2023 12:35	10/05/2023 13:30	10/05/2023 12:28	10/05/2023 12:22	10/05/2023 13:17
Avg	3.21	0.68	3.89	0.22	0.34	12.48	4.74
Num	156	156	156	156	156	156	156
Data[%]	100	100	100	100	100	100	100
STD	0.03	0.01	0.03	0.02	0.41	0.01	0.01

**Station:** EGAT\_MOBILE\_CEMS  
**Date:** 10/05/2023 16:05 - 10/05/2023 18:10  
**Location :** North Bangkok Power Plant  
**Unit :** NB-C22  
**Fuel :** Natural Gas                      Sample 2  
**Load :** 418                      MW.  
**% O<sub>2</sub>(avg) :** 12.45                      %.  
**NO<sub>x</sub>(avg) :** 6.20                      ppm ,@ 7% O<sub>2</sub>,dry basis .  
**SO<sub>2</sub>(avg) :** 0.36                      ppm ,@ 7% O<sub>2</sub>,dry basis .  
**CO<sub>(avg)</sub> :** 0.35                      ppm ,@ 7% O<sub>2</sub>,dry basis .  
**Report Type :** Mean  
**Time Base :** 1 Min

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Date & Time	NO	NO2	NOx	SO2	CO	O2	CO2
	ppm	ppm	ppm	ppm	ppm	%	%
10/05/2023 16:05	3.16	0.65	3.81	0.23	0.37	12.48	4.74
10/05/2023 16:06	3.16	0.67	3.84	0.23	0.32	12.48	4.74
10/05/2023 16:07	3.17	0.65	3.82	0.23	0.21	12.47	4.74
10/05/2023 16:08	3.16	0.66	3.82	0.20	0.15	12.46	4.74
10/05/2023 16:09	3.16	0.66	3.83	0.23	0.36	12.46	4.74
10/05/2023 16:10	3.18	0.66	3.84	0.22	0.35	12.46	4.74
10/05/2023 16:11	3.17	0.66	3.83	0.24	0.28	12.47	4.74
10/05/2023 16:12	3.16	0.66	3.82	0.23	0.26	12.48	4.74
10/05/2023 16:13	3.14	0.67	3.81	0.24	0.26	12.48	4.74
10/05/2023 16:14	3.15	0.66	3.81	0.25	0.26	12.48	4.74
10/05/2023 16:15	3.15	0.65	3.80	0.23	0.30	12.48	4.74
10/05/2023 16:16	3.15	0.66	3.82	0.23	0.34	12.47	4.74
10/05/2023 16:17	3.15	0.67	3.82	0.23	0.35	12.47	4.74
10/05/2023 16:18	3.16	0.66	3.82	0.25	0.34	12.47	4.74
10/05/2023 16:19	3.18	0.65	3.83	0.25	0.25	12.47	4.74
10/05/2023 16:20	3.18	0.66	3.84	0.24	0.18	12.47	4.74
10/05/2023 16:21	3.17	0.66	3.83	0.22	0.14	12.46	4.74
10/05/2023 16:22	3.18	0.67	3.85	0.25	0.15	12.48	4.74
10/05/2023 16:23	3.16	0.68	3.84	0.21	0.21	12.49	4.74
10/05/2023 16:24	3.16	0.67	3.83	0.26	0.24	12.48	4.74
10/05/2023 16:25	3.16	0.66	3.82	0.21	0.23	12.48	4.74
10/05/2023 16:26	3.16	0.67	3.84	0.20	0.29	12.48	4.74
10/05/2023 16:27	3.17	0.65	3.83	0.23	0.31	12.48	4.74
10/05/2023 16:28	3.17	0.65	3.82	0.20	0.35	12.47	4.74
10/05/2023 16:29	3.18	0.64	3.82	0.21	0.41	12.47	4.74
10/05/2023 16:30	3.18	0.68	3.85	0.20	0.42	12.46	4.74
10/05/2023 16:31	3.18	0.66	3.84	0.25	0.41	12.46	4.74
10/05/2023 16:32	3.18	0.66	3.84	0.22	0.32	12.46	4.74
10/05/2023 16:33	3.16	0.67	3.82	0.22	0.24	12.46	4.74
10/05/2023 16:34	3.14	0.66	3.81	0.23	0.27	12.46	4.74
10/05/2023 16:35	3.14	0.66	3.80	0.23	0.31	12.47	4.74
10/05/2023 16:36	3.14	0.66	3.80	0.22	0.30	12.47	4.74
10/05/2023 16:37	3.15	0.66	3.81	0.22	0.34	12.46	4.74
10/05/2023 16:38	3.15	0.66	3.81	0.22	0.35	12.47	4.74
10/05/2023 16:39	3.15	0.66	3.81	0.25	0.32	12.46	4.75
10/05/2023 16:40	3.15	0.66	3.81	0.21	0.36	12.46	4.75
10/05/2023 16:41	3.13	0.65	3.79	0.22	0.36	12.45	4.75
10/05/2023 16:42	3.13	0.66	3.79	0.22	0.37	12.45	4.75
10/05/2023 16:43	3.13	0.66	3.80	0.21	0.42	12.45	4.75
10/05/2023 16:44	3.12	0.66	3.78	0.24	0.37	12.45	4.75
10/05/2023 16:45	3.13	0.66	3.78	0.26	0.29	12.46	4.75
10/05/2023 16:46	3.11	0.64	3.76	0.23	0.22	12.45	4.75
10/05/2023 16:47	3.10	0.66	3.76	0.21	0.21	12.46	4.75
10/05/2023 16:48	3.11	0.64	3.76	0.22	0.19	12.46	4.75
10/05/2023 16:49	3.10	0.65	3.75	0.22	0.21	12.46	4.75
10/05/2023 16:50	3.09	0.66	3.74	0.22	0.20	12.45	4.75
10/05/2023 16:51	3.10	0.64	3.74	0.24	0.25	12.45	4.76
10/05/2023 16:52	3.09	0.65	3.74	0.21	0.26	12.44	4.76
10/05/2023 16:53	3.10	0.65	3.75	0.21	0.28	12.44	4.75
10/05/2023 16:54	3.09	0.65	3.74	0.20	0.27	12.43	4.76
10/05/2023 16:55	3.10	0.65	3.75	0.20	0.28	12.43	4.76
10/05/2023 16:56	3.08	0.64	3.72	0.23	0.24	12.44	4.76
10/05/2023 16:57	3.09	0.65	3.74	0.24	0.22	12.44	4.76
10/05/2023 16:58	3.11	0.64	3.76	0.24	0.29	12.44	4.76
10/05/2023 16:59	3.11	0.65	3.77	0.22	0.30	12.43	4.76
10/05/2023 17:00	3.12	0.66	3.77	0.19	0.31	12.43	4.76
10/05/2023 17:01	3.12	0.65	3.77	0.21	0.29	12.43	4.76
10/05/2023 17:02	3.12	0.65	3.77	0.22	0.16	12.43	4.76
10/05/2023 17:03	3.11	0.66	3.77	0.23	0.10	12.43	4.76
10/05/2023 17:04	3.10	0.64	3.75	0.22	0.10	12.43	4.76
10/05/2023 17:05	3.10	0.65	3.75	0.23	0.08	12.43	4.76
10/05/2023 17:06	3.10	0.65	3.75	0.22	0.07	12.43	4.76
10/05/2023 17:07	3.12	0.64	3.76	0.22	0.10	12.43	4.76
10/05/2023 17:08	3.11	0.65	3.76	0.19	0.13	12.44	4.76
10/05/2023 17:09	3.10	0.67	3.77	0.23	0.14	12.45	4.76
10/05/2023 17:10	3.12	0.66	3.78	0.23	0.18	12.44	4.76
10/05/2023 17:11	3.11	0.66	3.77	0.18	0.22	12.43	4.76
10/05/2023 17:12	3.11	0.65	3.77	0.20	0.21	12.43	4.77
10/05/2023 17:13	3.11	0.65	3.76	0.20	0.26	12.43	4.76
10/05/2023 17:14	3.12	0.65	3.76	0.22	0.19	12.43	4.76
10/05/2023 17:15	3.10	0.66	3.77	0.25	0.07	12.43	4.76
10/05/2023 17:16	3.09	0.64	3.74	0.21	0.04	12.42	4.76
10/05/2023 17:17	3.10	0.66	3.77	0.23	0.02	12.43	4.76
10/05/2023 17:18	3.10	0.66	3.76	0.23	0.07	12.43	4.76
10/05/2023 17:19	3.10	0.65	3.75	0.21	0.10	12.43	4.76
10/05/2023 17:20	3.10	0.64	3.74	0.18	0.13	12.43	4.76
10/05/2023 17:21	3.10	0.65	3.75	0.21	0.17	12.43	4.76
10/05/2023 17:22	3.08	0.66	3.74	0.18	0.19	12.43	4.76
10/05/2023 17:23	3.10	0.64	3.74	0.18	0.19	12.43	4.76
10/05/2023 17:24	3.09	0.65	3.74	0.21	0.20	12.43	4.76
10/05/2023 17:25	3.11	0.65	3.75	0.19	0.28	12.43	4.76
10/05/2023 17:26	3.11	0.65	3.76	0.21	0.28	12.43	4.76
10/05/2023 17:27	3.10	0.66	3.77	0.24	0.20	12.41	4.76
10/05/2023 17:28	3.12	0.65	3.76	0.22	0.15	12.42	4.76
10/05/2023 17:29	3.10	0.65	3.75	0.21	0.11	12.43	4.76
10/05/2023 17:30	3.11	0.65	3.76	0.23	0.12	12.43	4.76
10/05/2023 17:31	3.10	0.66	3.76	0.26	0.15	12.44	4.76
10/05/2023 17:32	3.09	0.65	3.75	0.21	0.15	12.44	4.76
10/05/2023 17:33	3.10	0.66	3.76	0.22	0.16	12.44	4.76

Date & Time	NO	NO2	NOx	SO2	CO	O2	CO2
	ppm	ppm	ppm	ppm	ppm	%	%
10/05/2023 17:34	3.10	0.66	3.75	0.24	0.18	12.43	4.76
10/05/2023 17:35	3.11	0.65	3.76	0.22	0.22	12.44	4.77
10/05/2023 17:36	3.11	0.65	3.77	0.20	0.23	12.43	4.76
10/05/2023 17:37	3.12	0.66	3.77	0.23	0.29	12.43	4.76
10/05/2023 17:38	3.11	0.65	3.76	0.19	0.29	12.43	4.76
10/05/2023 17:39	3.12	0.63	3.75	0.21	0.34	12.42	4.77
10/05/2023 17:40	3.10	0.63	3.74	0.23	0.33	12.43	4.76
10/05/2023 17:41	3.10	0.65	3.75	0.21	0.21	12.43	4.76
10/05/2023 17:42	3.09	0.66	3.74	0.23	0.15	12.43	4.76
10/05/2023 17:43	3.09	0.65	3.73	0.22	0.10	12.43	4.76
10/05/2023 17:44	3.09	0.65	3.74	0.20	0.19	12.44	4.76
10/05/2023 17:45	3.09	0.66	3.74	0.21	0.15	12.44	4.76
10/05/2023 17:46	3.08	0.66	3.75	0.20	0.16	12.45	4.76
10/05/2023 17:47	3.09	0.66	3.76	0.21	0.20	12.43	4.76
10/05/2023 17:48	3.09	0.65	3.74	0.25	0.27	12.43	4.76
10/05/2023 17:49	3.09	0.66	3.75	0.21	0.24	12.43	4.76
10/05/2023 17:50	3.07	0.63	3.71	0.21	0.28	12.43	4.76
10/05/2023 17:51	3.11	0.63	3.73	0.21	0.32	12.43	4.76
10/05/2023 17:52	3.09	0.65	3.73	0.24	0.31	12.43	4.76
10/05/2023 17:53	3.09	0.64	3.73	0.25	0.24	12.43	4.77
10/05/2023 17:54	3.11	0.65	3.76	0.24	0.13	12.44	4.76
10/05/2023 17:55	3.10	0.65	3.75	0.22	0.02	12.43	4.76
10/05/2023 17:56	3.10	0.66	3.76	0.21	0.07	12.44	4.76
10/05/2023 17:57	3.09	0.65	3.74	0.22	0.09	12.44	4.76
10/05/2023 17:58	3.10	0.65	3.75	0.19	0.04	12.44	4.76
10/05/2023 17:59	3.09	0.65	3.74	0.21	0.07	12.45	4.76
10/05/2023 18:00	3.11	0.64	3.75	0.22	0.07	12.44	4.76
10/05/2023 18:01	3.10	0.65	3.75	0.20	0.09	12.42	4.76
10/05/2023 18:02	3.11	0.65	3.76	0.23	0.13	12.42	4.76
10/05/2023 18:03	3.10	0.65	3.75	0.18	0.13	12.42	4.76
10/05/2023 18:04	3.12	0.64	3.76	0.20	0.06	12.43	4.76
10/05/2023 18:05	3.10	0.65	3.75	0.23	0.02	12.44	4.76
10/05/2023 18:06	3.09	0.65	3.74	0.22	0.00	12.44	4.76
10/05/2023 18:07	3.09	0.65	3.75	0.25	0.00	12.45	4.76
10/05/2023 18:08	3.09	0.65	3.74	0.20	0.00	12.45	4.76
10/05/2023 18:09	3.09	0.64	3.73	0.21	0.00	12.45	4.76
10/05/2023 18:10	3.09	0.65	3.75	0.21	0.00	12.45	4.76
Minimum	3.07	0.63	3.71	0.18	0.00	12.41	4.74
MinDate	10/05/2023 17:50	10/05/2023 17:39	10/05/2023 17:50	10/05/2023 17:11	10/05/2023 18:06	10/05/2023 17:27	10/05/2023 16:05
Maximum	3.18	0.68	3.85	0.26	0.42	12.49	4.77
MaxDate	10/05/2023 16:10	10/05/2023 16:23	10/05/2023 16:22	10/05/2023 16:24	10/05/2023 16:30	10/05/2023 16:23	10/05/2023 17:12
Avg	3.12	0.65	3.77	0.22	0.21	12.45	4.75
Num	126	126	126	126	126	126	126
Data[%]	100	100	100	100	100	100	100
STD	0.03	0.01	0.03	0.02	0.11	0.02	0.01