

**BEFORE THE NATIONAL GREEN TRIBUNAL
SOUTHERN ZONE, CHENNAI**

ORIGINAL APPLICATION No. 112 OF 2023

IN THE MATTER OF:

M. Narasimha Rao
R/o.Suryapet District.

....

Applicant

Versus

Member Secretary
Telangana State Pollution Control Board
Telangana and Ors

....

Respondent(s)

REPORT OF THE TELANGANA STATE POLLUTION CONTROL BOARD (R1 & R2)

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Place: Hyderabad.

Date: 05-12-2023.

T. Jankar

Counsel for Respondents 1 & 2

REPORT DATED 22-11-2023 OF TELANGANA STATE POLLUTION CONTROL BOARD (R1 & R2) IN OA No. 112 OF 2023 FILED BY SRI M NARSIMHARAO, GUDIMALKAPURAM VILLAGE, CHINTALAPALEM MANDAL, SURYAPET DISTRICT AGAINST M/S ANJANI PORTLAND CEMENT LTD., (PLANT), SYRYAPET.

It is to submit that, Sri M Narsimharao, Gudimalkapuram (V), Chintalapalem (M), Suryapet District has submitted a grievance to the Hon'ble NGT through mail dated 12.12.2022 stating that the Respondent industry (M/s Anjani Portland Cement Ltd. (Plant), Sy.No. 226, Chinthalapalem (V&M), Suryapet District) is using Hazardous Waste chemicals in their factory thereby causing ground water pollution and air pollution in the area including polluting the forest and River Krishna. The Principal Bench of the Hon'ble NGT, New delhi has been registered the case as OA No. 197 of 2023 (PB).

Subsequently, the application was transferred to Southern Zone bench, Chennai and OA No.197 of 2023 (PB) is renumbered as OA No.112 of 2023 (SZ).

Earlier, the Respondent Board has filed a report dated on 01.11.2023 before the Hon'ble NGT, Chennai submitting the analysis reports of monthly samples collected from the River Krishna at Pulichintala Reservoir under National Water Monitoring Program (NWMP), which is downstream to the industry, analysis report of the sample collected from inlet and outlet of the STP, stack & Ambient Air Quality Monitoring analysis reports and analysis reports of the ground water samples.

The Hon'ble NGT (SZ), Chennai vide order dated 03.11.2023 directed the Respondent Board to file an additional report regarding the connectivity to Online Continuous Emission Monitoring System (OCEMS) and violations if any and status on continuous functioning of OCEMS system.

In this regard, the following is submitted: -

1. M/s Anjani Portland Cement Ltd. (Plant) is located at Sy.No. 226, Chinthalapalem (V&M), Suryapet District.

2. The industry has installed Online Continuous Emission Monitoring System (OCEMS) to the following stacks:

S.No.	Description of the stacks	Parameters Monitored	Observations
i.	Stack attached to the Raw Mill and Kiln of Line - II	PM, SO ₂ and NO _x	PM: Maximum value is 26.56 mg/Nm ³ SO ₂ : Maximum value is 79.42 mg/Nm ³ NO _x : Maximum value is 279.55 mg/Nm ³ (Annexure - 1)
ii.	Stack attached to the Cooler discharge of Line - II	PM	PM: Maximum value is 16.39 mg/Nm ³ (Annexure - 2)
iii.	Stack attached to the Coal Mill of Line - II	PM	PM: Maximum value is 24.38 mg/Nm ³ (Annexure - 3)
iv.	Stack attached to the Cement Mill - 1 of Line - I	PM	PM: Maximum value is 19.24 mg/Nm ³ (Annexure - 4)
v.	Stack attached to the Cement Mill - 3 of Line - II	PM	PM: Maximum value is 26.4 mg/Nm ³ (Annexure - 5)
vi.	Stack attached to the Coal Mill of Line - I	PM	PM: Maximum value is 15.48 mg/Nm ³ (Annexure - 6)
vii.	Stack attached to the Cooler discharge of Line - I	PM	PM: Maximum value is 13.05 mg/Nm ³ (Annexure - 7)
viii.	Stack attached to the Raw Mill of Line - I	PM	PM: Maximum value is 13.8 mg/Nm ³

			(Annexure – 8)
ix.	Stack attached to the Horizontal Rotary kiln of Line - I	PM, SO ₂ and NO _x	PM: Maximum value is 22.11 mg/Nm ³ . SO ₂ : Maximum value is 59.85 mg/Nm ³ . NO _x : Maximum value is 354.98 mg/Nm ³ . (Annexure – 9)
x.	Stack attached to the Cement Mill - 2 of Line - II	PM	Not operated during the period.
Note: ➤ PM stands for Particulate Matter and prescribed standard is 30.0 mg/Nm ³ . ➤ SO ₂ stands for Sulfur Dioxide and prescribed standard is 100.0 mg/Nm ³ . ➤ NO _x stands for Nitrogen Oxides and prescribed standard is 800.0 mg/Nm ³ . ➤ The data is obtained from the TSPCB server (Real Time Data Acquisition And Monitoring) for the last 30 days.			

3. The industry has also installed Continuous Ambient Air Quality Monitoring Stations (CAAQMS) at following locations:

S.No.	Description of the Continuous Ambient Air Quality Monitoring Stations (CAAQMS)	Parameters Monitored	Observations
i.	Continuous Ambient Air Quality Monitoring Station (CAAQMS) -1 at top of the Unit Head Office.	PM _{2.5} , PM ₁₀ , SO ₂ and NO _x	PM _{2.5} : Maximum value is 34.36 ug/m ³ . PM ₁₀ : Maximum value is 52.06 ug/m ³ . SO ₂ : Maximum value is 41.65 ug/m ³ . NO _x : Maximum value is 58.68 ug/m ³ .

			(Annexure – 10)
ii.	Continuous Ambient Air Quality Monitoring Station (CAAQMS) -2 at top of B-type quarters in colony.	PM2.5, PM10, SO2 and NOx	PM2.5: Maximum value is 30.09 ug/m ³ . PM10: Maximum value is 52.83 ug/m ³ . SO2: Maximum value is 49.52 ug/m ³ . NOx: Maximum value is 54.06 ug/m ³ . (Annexure – 11)

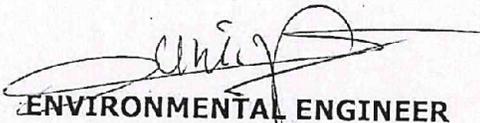
Note:

- PM2.5 stands for Particulate Matter of 2.5 µg size and prescribed standard is 60.0 ug/m³.
- PM10 stands for Particulate Matter of 10.0 µg size and prescribed standard is 100.0 ug/m³.
- SO2 stands for Sulfur Dioxide and prescribed standard is 80.0 µg/m³.
- NOx stands for Nitrogen Oxides and prescribed standard is 80.0 µg/m³.
- The data is obtained from the TSPCB server (Real Time Data Acquisition And Monitoring) for the last 30 days.

In view of the above, it is kindly submitted that the Respondent industry installed Online Continuous Emission Monitoring System (OCEMS) to stacks mentioned as above and also installed Continuous Ambient Air Quality Monitoring Stations (CAAQMS) 2 Nos. As per the data obtained from the TSPCB server (Real Time Data Acquisition And Monitoring), the values are meeting the Board's prescribed standards.

Place: Nalgonda.

Date: 22-11-2023


ENVIRONMENTAL ENGINEER
 ENVIRONMENTAL ENGINEER
 T.S. Pollution Control Board,
 Regional Office, Nalgonda.



Real Time Data Acquisition And Monitoring

Site Name: Anjani Portland Cement Ltd

Report: Real Time Report

From Date: 2023-10-23 10:30 To Date: 2023-11-22 10:15

Description	KILN2 RABH-RAW MILL- NOx(mg/Nm3)	KILN2 RABH-RAW MILL- PM(mg/Nm3)	KILN2 RABH-RAW MILL- SO2(mg/Nm3)
Prescribed Standards	0.0 - 800.0	0.0 - 30.0	0.0 - 100.0
Maximum Data	279.55	26.56	79.42
Minimum Data	0.0	0.41	0.0
Geometric Mean	179.4	14.08	49.54
Median	272.29	18.96	72.12
Standard Deviation	130.06	10.14	33.76
Maximum Value At Time	2023-11-10 10:00:00	2023-11-13 21:15:00	2023-10-30 02:15:00
Minimum Value At Time	2023-10-28 08:00:00	2023-11-15 10:15:00	2023-10-28 10:00:00
Valid Data Points	2827	2827	2827
Total Data Points	2880	2880	2880
Data Availability %	98.16%	98.16%	98.16%

Sl No.	Time	KILN2 RABH-RAW MILL- NOx(mg/Nm3)	KILN2 RABH-RAW MILL- PM(mg/Nm3)	KILN2 RABH-RAW MILL- SO2(mg/Nm3)
1	2023-10-23 10:30:00	277.37	24.13	76.64
2	2023-10-23 10:45:00	276.58	17.92	73.00
3	2023-10-23 11:00:00	275.22	18.91	71.31
4	2023-10-23 11:15:00	273.50	21.17	69.69
5	2023-10-23 11:30:00	270.29	22.89	70.91
6	2023-10-23 11:45:00	270.97	15.77	70.73
7	2023-10-23 12:00:00	272.39	18.20	72.45
8	2023-10-23 12:15:00	271.16	19.22	71.76
9	2023-10-23 12:30:00	272.78	20.76	70.77
10	2023-10-23 12:45:00	272.28	22.86	72.36
11	2023-10-23 13:00:00	271.14	23.74	73.09
12	2023-10-23 13:15:00	275.00	25.28	72.54
13	2023-10-23 13:30:00	272.77	25.43	71.92

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Real Time Data Acquisition And Monitoring

Site Name: Anjani Portland Cement Ltd

Report: Real Time Report

From Date: 2023-10-23 10:45 To Date: 2023-11-22 10:30

Description	COOLER 2 ESP-PM(mg/Nm3)
Prescribed Standards	0.0 - 30.0
Maximum Data	16.29
Minimum Data	0.14
Geometric Mean	10.18
Median	15.01
Standard Deviation	7.27
Maximum Value At Time	2023-11-14 15:30:00
Minimum Value At Time	2023-10-28 14:15:00
Valid Data Points	2827
Total Data Points	2880
Data Availability %	98.16%

SI No.	Time	COOLER 2 ESP-PM(mg/Nm3)
1	2023-10-23 10:45:00	15.98
2	2023-10-23 11:00:00	15.96
3	2023-10-23 11:15:00	14.92
4	2023-10-23 11:30:00	14.94
5	2023-10-23 11:45:00	15.22
6	2023-10-23 12:00:00	16.09
7	2023-10-23 12:15:00	15.97
8	2023-10-23 12:30:00	15.42
9	2023-10-23 12:45:00	14.74
10	2023-10-23 13:00:00	14.99
11	2023-10-23 13:15:00	15.70
12	2023-10-23 13:30:00	16.13
13	2023-10-23 13:45:00	15.90
14	2023-10-23 14:00:00	14.91
15	2023-10-23 14:15:00	14.86
16	2023-10-23 14:30:00	15.15
17	2023-10-23 14:45:00	16.05
18	2023-10-23 15:00:00	15.93
19	2023-10-23 15:15:00	15.60
20	2023-10-23 15:30:00	14.89
21	2023-10-23 15:45:00	14.99
22	2023-10-23 16:00:00	15.45
23	2023-10-23 16:15:00	16.10
24	2023-10-23 16:30:00	15.99
25	2023-10-23 16:45:00	15.14
26	2023-10-23 17:00:00	14.81
27	2023-10-23 17:15:00	15.04

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Real Time Data Acquisition And Monitoring

Site Name: Anjani Portland Cement Ltd

Report: Real Time Report

From Date: 2023-10-23 10:45 To Date: 2023-11-22 10:30

Description	COAL MILL 2-PM(mg/Nm3)
Prescribed Standards	0.0 - 30.0
Maximum Data	24.38
Minimum Data	0.24
Geometric Mean	13.27
Median	18.8
Standard Deviation	9.91
Maximum Value At Time	2023-10-27 16:00:00
Minimum Value At Time	2023-11-17 11:15:00
Valid Data Points	2827
Total Data Points	2880
Data Availability %	98.16%

SI No.	Time	COAL MILL 2-PM(mg/Nm3)
1	2023-10-23 10:45:00	20.85
2	2023-10-23 11:00:00	21.21
3	2023-10-23 11:15:00	21.60
4	2023-10-23 11:30:00	22.12
5	2023-10-23 11:45:00	18.84
6	2023-10-23 12:00:00	16.50
7	2023-10-23 12:15:00	16.55
8	2023-10-23 12:30:00	18.02
9	2023-10-23 12:45:00	18.43
10	2023-10-23 13:00:00	18.48
11	2023-10-23 13:15:00	18.72
12	2023-10-23 13:30:00	20.06
13	2023-10-23 13:45:00	20.97
14	2023-10-23 14:00:00	21.34
15	2023-10-23 14:15:00	20.82
16	2023-10-23 14:30:00	21.62
17	2023-10-23 14:45:00	22.16
18	2023-10-23 15:00:00	22.93
19	2023-10-23 15:15:00	22.63
20	2023-10-23 15:30:00	22.99
21	2023-10-23 15:45:00	23.42
22	2023-10-23 16:00:00	23.71
23	2023-10-23 16:15:00	23.91
24	2023-10-23 16:30:00	24.14
25	2023-10-23 16:45:00	24.07
26	2023-10-23 17:00:00	24.26
27	2023-10-23 17:15:00	24.05

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Real Time Data Acquisition And Monitoring

Site Name: Anjani Portland Cement Ltd

Report: Real Time Report

From Date: 2023-10-23 10:45 To Date: 2023-11-22 10:30

Description	CEMENT MILL 1-PM(mg/Nm3)
Prescribed Standards	0.0 - 30.0
Maximum Data	19.24
Minimum Data	0.0
Geometric Mean	13.28
Median	15.67
Standard Deviation	6.09
Maximum Value At Time	2023-10-30 02:00:00
Minimum Value At Time	2023-10-23 10:45:00
Valid Data Points	2787
Total Data Points	2880
Data Availability %	96.77%

SI No.	Time	CEMENT MILL 1-PM(mg/Nm3)
1	2023-10-23 10:45:00	0.00
2	2023-10-23 11:00:00	0.00
3	2023-10-23 11:15:00	0.00
4	2023-10-23 11:30:00	0.00
5	2023-10-23 11:45:00	0.00
6	2023-10-23 12:00:00	0.00
7	2023-10-23 12:15:00	0.00
8	2023-10-23 12:30:00	0.00
9	2023-10-23 12:45:00	9.34
10	2023-10-23 13:00:00	16.91
11	2023-10-23 13:15:00	15.95
12	2023-10-23 13:30:00	15.73
13	2023-10-23 13:45:00	17.71
14	2023-10-23 14:00:00	14.89
15	2023-10-23 14:15:00	16.15
16	2023-10-23 14:30:00	17.11
17	2023-10-23 14:45:00	14.47
18	2023-10-23 15:00:00	16.34
19	2023-10-23 15:15:00	16.51
20	2023-10-23 15:30:00	15.57
21	2023-10-23 15:45:00	17.52
22	2023-10-23 16:00:00	14.93
23	2023-10-23 16:15:00	15.81
24	2023-10-23 16:30:00	18.05
25	2023-10-23 16:45:00	14.49
26	2023-10-23 17:00:00	16.59
27	2023-10-23 17:15:00	16.10

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Real Time Data Acquisition And Monitoring

Site Name: Anjani Portland Cement Ltd

Report: Real Time Report

From Date: 2023-10-23 11:00 To Date: 2023-11-22 10:45

Description	CEMENT MILL 3-PM(mg/Nm3)
Prescribed Standards	0.0 - 30.0
Maximum Data	26.4
Minimum Data	0.0
Geometric Mean	11.61
Median	16.02
Standard Deviation	9.74
Maximum Value At Time	2023-11-07 17:15:00
Minimum Value At Time	2023-11-18 09:30:00
Valid Data Points	2827
Total Data Points	2880
Data Availability %	98.16%

SI No.	Time	CEMENT MILL 3-PM(mg/Nm3)
1	2023-10-23 11:00:00	0.23
2	2023-10-23 11:15:00	0.23
3	2023-10-23 11:30:00	0.22
4	2023-10-23 11:45:00	0.23
5	2023-10-23 12:00:00	0.23
6	2023-10-23 12:15:00	0.23
7	2023-10-23 12:30:00	0.21
8	2023-10-23 12:45:00	0.23
9	2023-10-23 13:00:00	0.23
10	2023-10-23 13:15:00	0.23
11	2023-10-23 13:30:00	0.24
12	2023-10-23 13:45:00	0.25
13	2023-10-23 14:00:00	0.23
14	2023-10-23 14:15:00	0.24
15	2023-10-23 14:30:00	0.25
16	2023-10-23 14:45:00	0.24
17	2023-10-23 15:00:00	0.24
18	2023-10-23 15:15:00	0.23
19	2023-10-23 15:30:00	0.25
20	2023-10-23 15:45:00	0.24
21	2023-10-23 16:00:00	0.25
22	2023-10-23 16:15:00	0.23
23	2023-10-23 16:30:00	0.24
24	2023-10-23 16:45:00	0.25
25	2023-10-23 17:00:00	0.24
26	2023-10-23 17:15:00	0.25
27	2023-10-23 17:30:00	0.26

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Real Time Data Acquisition And Monitoring

Site Name: Anjani Portland Cement Ltd

Report: Real Time Report

From Date: 2023-10-23 11:00 To Date: 2023-11-22 10:45

Description	COAL MILL 1-PM(mg/Nm3)
Prescribed Standards	0.0 - 30.0
Maximum Data	15.48
Minimum Data	0.19
Geometric Mean	12.28
Median	14.84
Standard Deviation	5.58
Maximum Value At Time	2023-10-28 12:15:00
Minimum Value At Time	2023-11-10 09:15:00
Valid Data Points	2787
Total Data Points	2880
Data Availability %	96.77%

SI No.	Time	COAL MILL 1-PM(mg/Nm3)
1	2023-10-23 11:00:00	15.34
2	2023-10-23 11:15:00	15.35
3	2023-10-23 11:30:00	15.39
4	2023-10-23 11:45:00	14.90
5	2023-10-23 12:00:00	14.80
6	2023-10-23 12:15:00	14.75
7	2023-10-23 12:30:00	14.74
8	2023-10-23 12:45:00	14.77
9	2023-10-23 13:00:00	14.77
10	2023-10-23 13:15:00	15.08
11	2023-10-23 13:30:00	15.04
12	2023-10-23 13:45:00	15.01
13	2023-10-23 14:00:00	15.11
14	2023-10-23 14:15:00	15.11
15	2023-10-23 14:30:00	15.34
16	2023-10-23 14:45:00	15.31
17	2023-10-23 15:00:00	15.46
18	2023-10-23 15:15:00	15.37
19	2023-10-23 15:30:00	15.39
20	2023-10-23 15:45:00	15.08
21	2023-10-23 16:00:00	14.73
22	2023-10-23 16:15:00	14.74
23	2023-10-23 16:30:00	14.68
24	2023-10-23 16:45:00	14.83
25	2023-10-23 17:00:00	14.78
26	2023-10-23 17:15:00	15.02
27	2023-10-23 17:30:00	15.12

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Real Time Data Acquisition And Monitoring

Site Name: Anjani Portland Cement Ltd

Report: Real Time Report

From Date: 2023-10-23 11:00 To Date: 2023-11-22 10:45

Description	COOLER 1 ESP-PM(mg/Nm3)
Prescribed Standards	0.0 - 30.0
Maximum Data	13.05
Minimum Data	0.0
Geometric Mean	9.09
Median	11.92
Standard Deviation	5.03
Maximum Value At Time	2023-11-05 04:15:00
Minimum Value At Time	2023-10-23 22:45:00
Valid Data Points	2787
Total Data Points	2880
Data Availability %	96.77%

SI No.	Time	COOLER 1 ESP-PM(mg/Nm3)
1	2023-10-23 11:00:00	12.42
2	2023-10-23 11:15:00	12.16
3	2023-10-23 11:30:00	12.16
4	2023-10-23 11:45:00	12.46
5	2023-10-23 12:00:00	12.14
6	2023-10-23 12:15:00	12.31
7	2023-10-23 12:30:00	12.14
8	2023-10-23 12:45:00	11.96
9	2023-10-23 13:00:00	12.38
10	2023-10-23 13:15:00	12.31
11	2023-10-23 13:30:00	12.31
12	2023-10-23 13:45:00	12.35
13	2023-10-23 14:00:00	12.40
14	2023-10-23 14:15:00	12.54
15	2023-10-23 14:30:00	12.21
16	2023-10-23 14:45:00	12.09
17	2023-10-23 15:00:00	11.96
18	2023-10-23 15:15:00	12.46
19	2023-10-23 15:30:00	11.86
20	2023-10-23 15:45:00	12.18
21	2023-10-23 16:00:00	12.21
22	2023-10-23 16:15:00	12.02
23	2023-10-23 16:30:00	12.26
24	2023-10-23 16:45:00	12.26
25	2023-10-23 17:00:00	12.13
26	2023-10-23 17:15:00	12.12
27	2023-10-23 17:30:00	12.28



Real Time Data Acquisition And Monitoring

Site Name: Anjani Portland Cement Ltd

Report: Real Time Report

From Date: 2023-10-23 11:00 To Date: 2023-11-22 10:45

Description	Raw Mill 1-PM(mg/Nm3)
Prescribed Standards	0.0 - 30.0
Maximum Data	13.8
Minimum Data	0.0
Geometric Mean	1.48
Median	0.0
Standard Deviation	3.6
Maximum Value At Time	2023-11-13 03:00:00
Minimum Value At Time	2023-10-23 11:00:00
Valid Data Points	2856
Total Data Points	2880
Data Availability %	99.17%

SI No.	Time	Raw Mill 1-PM(mg/Nm3)
1	2023-10-23 11:00:00	0.00
2	2023-10-23 11:15:00	0.00
3	2023-10-23 11:30:00	0.00
4	2023-10-23 11:45:00	0.00
5	2023-10-23 12:00:00	0.00
6	2023-10-23 12:15:00	0.00
7	2023-10-23 12:30:00	0.00
8	2023-10-23 12:45:00	0.00
9	2023-10-23 13:00:00	0.00
10	2023-10-23 13:15:00	0.00
11	2023-10-23 13:30:00	0.00
12	2023-10-23 13:45:00	0.00
13	2023-10-23 14:00:00	0.00
14	2023-10-23 14:15:00	0.00
15	2023-10-23 14:30:00	0.00
16	2023-10-23 14:45:00	0.00
17	2023-10-23 15:00:00	0.00
18	2023-10-23 15:15:00	0.00
19	2023-10-23 15:30:00	0.00
20	2023-10-23 15:45:00	0.00
21	2023-10-23 16:00:00	0.00
22	2023-10-23 16:15:00	0.00
23	2023-10-23 16:30:00	0.00
24	2023-10-23 16:45:00	0.00
25	2023-10-23 17:00:00	0.00
26	2023-10-23 17:15:00	0.00



Real Time Data Acquisition And Monitoring

Site Name: Anjani Portland Cement Ltd

Report: Real Time Report

From Date: 2023-10-23 11:00 To Date: 2023-11-22 10:45

Description	KILN 1 RABH-NOx(mg/Nm3)	KILN 1 RABH-PM(mg/Nm3)	KILN 1 RABH-SO2(mg/Nm3)
Prescribed Standards	0.0 - 800.0	0.0 - 30.0	0.0 - 100.0
Maximum Data	354.98	22.11	59.85
Minimum Data	0.0	0.0	0.0
Geometric Mean	278.64	15.86	31.32
Median	346.96	19.18	39.07
Standard Deviation	138.73	7.95	15.92
Maximum Value At Time	2023-11-13 12:45:00	2023-10-26 05:00:00	2023-11-10 15:45:00
Minimum Value At Time	2023-10-27 22:45:00	2023-10-27 22:45:00	2023-10-27 22:45:00
Valid Data Points	2787	2787	2787
Total Data Points	2880	2880	2880
Data Availability %	96.77%	96.77%	96.77%

Sl No.	Time	KILN 1 RABH-NOx(mg/Nm3)	KILN 1 RABH-PM(mg/Nm3)	KILN 1 RABH-SO2(mg/Nm3)
1	2023-10-23 11:00:00	348.72	21.99	38.97
2	2023-10-23 11:15:00	348.88	21.90	39.64
3	2023-10-23 11:30:00	350.44	18.57	39.44
4	2023-10-23 11:45:00	349.86	16.71	39.77
5	2023-10-23 12:00:00	349.53	16.91	39.56
6	2023-10-23 12:15:00	349.86	16.86	39.73
7	2023-10-23 12:30:00	349.68	16.89	40.63
8	2023-10-23 12:45:00	344.41	17.31	40.87
9	2023-10-23 13:00:00	344.62	17.74	40.95
10	2023-10-23 13:15:00	344.38	17.61	40.73
11	2023-10-23 13:30:00	344.60	17.93	40.75
12	2023-10-23 13:45:00	344.30	17.83	41.19
13	2023-10-23 14:00:00	346.11	17.63	41.81
14	2023-10-23 14:15:00	346.43	18.21	41.75
15	2023-10-23 14:30:00	345.70	18.44	41.89
16	2023-10-23 14:45:00	346.65	18.56	41.94
17	2023-10-23 15:00:00	346.95	18.79	41.01
18	2023-10-23 15:15:00	346.99	18.51	37.67
19	2023-10-23 15:30:00	348.31	19.40	38.07
20	2023-10-23 15:45:00	348.35	19.57	37.93
21	2023-10-23 16:00:00	348.06	19.70	37.78
22	2023-10-23 16:15:00	348.03	19.91	37.69
23	2023-10-23 16:30:00	348.19	19.74	38.23
24	2023-10-23 16:45:00	349.54	19.81	38.93
25	2023-10-23 17:00:00	350.16	20.61	38.86
26	2023-10-23 17:15:00	350.03	20.22	38.91
27	2023-10-23 17:30:00	349.67	20.22	38.52



Real Time Data Acquisition And Monitoring

Site Name: Anjani Portland Cement Ltd

Report: Average Report

From Date: 21-11-2023T11:14:48Z To Date: 22-11-2023T11:22:07Z

Description	AAQMS 1-NOx(ug/m3)	AAQMS 1-PM2.5(ug/m3)	AAQMS 1-PM10(ug/m3)	AAQMS 1-SO2(ug/m3)
Prescribed Standards	0.0 - 80.0	0.0 - 60.0	0.0 - 100.0	0.0 - 80.0
Maximum Data	58.68	34.36	52.06	41.65
Minimum Data	0.0	15.2	15.67	3.99
Geometric Mean	35.74	26.16	43.53	11.62
Median	36.17	26.08	43.44	11.43
Standard Deviation	3.79	2.95	2.88	3.27
Maximum Value At Time	2023-10-25 12:00:00	2023-10-26 10:45:00	2023-11-02 13:45:00	2023-10-25 12:00:00
Minimum Value At Time	2023-11-17 17:00:00	2023-11-17 19:00:00	2023-11-17 19:00:00	2023-11-17 17:00:00
Valid Data Points	2866	2866	2866	2866
Total Data Points	2880	2880	2880	2880
Data Availability %	99.51%	99.51%	99.51%	99.51%

Sl No.	Time	AAQMS 1-NOx(ug/m3)	AAQMS 1-PM2.5(ug/m3)	AAQMS 1-PM10(ug/m3)	AAQMS 1-SO2(ug/m3)
1	2023-10-23 11:15:00	36.26	23.70	48.87	11.33
2	2023-10-23 11:30:00	35.87	26.48	40.92	11.53
3	2023-10-23 11:45:00	36.14	27.17	38.93	11.31
4	2023-10-23 12:00:00	37.51	27.19	38.92	11.14
5	2023-10-23 12:15:00	37.66	27.19	38.93	11.35
6	2023-10-23 12:30:00	37.62	27.57	43.06	11.32
7	2023-10-23 12:45:00	37.74	27.65	44.11	11.39
8	2023-10-23 13:00:00	38.03	27.67	44.10	11.44
9	2023-10-23 13:15:00	38.16	27.68	44.11	11.34
10	2023-10-23 13:30:00	38.25	30.05	45.98	11.26
11	2023-10-23 13:45:00	38.09	30.65	46.44	11.33
12	2023-10-23 14:00:00	35.76	30.67	46.45	11.39
13	2023-10-23 14:15:00	34.94	30.65	46.42	11.57
14	2023-10-23 14:30:00	35.03	31.73	48.21	11.44
15	2023-10-23 14:45:00	35.13	32.00	48.70	11.13



Real Time Data Acquisition And Monitoring

Site Name: Anjani Portland Cement Ltd

Report: Average Report

From Date: 21-11-2023T11:14:48Z To Date: 22-11-2023T11:28:09Z

Description	AAQMS 2-NOx(ug/m3)	AAQMS 2-PM2.5(ug/m3)	AAQMS 2-PM10(ug/m3)	AAQMS 2-SO2(ug/m3)
Prescribed Standards	0.0 - 80.0	0.0 - 60.0	0.0 - 100.0	0.0 - 80.0
Maximum Data	54.06	30.09	52.83	49.52
Minimum Data	3.35	0.0	0.0	11.1
Geometric Mean	52.2	22.68	40.93	43.16
Median	52.24	22.66	42.04	42.19
Standard Deviation	1.2	2.67	8.32	2.71
Maximum Value At Time	2023-11-19 23:00:00	2023-11-13 06:45:00	2023-11-07 07:30:00	2023-11-20 02:45:00
Minimum Value At Time	2023-11-11 09:30:00	2023-11-11 09:00:00	2023-11-09 10:45:00	2023-11-11 09:15:00
Valid Data Points	2856	2856	2856	2856
Total Data Points	2880	2880	2880	2880
Data Availability %	99.17%	99.17%	99.17%	99.17%

Sl No.	Time	AAQMS 2-NOx(ug/m3)	AAQMS 2-PM2.5(ug/m3)	AAQMS 2-PM10(ug/m3)	AAQMS 2-SO2(ug/m3)
1	2023-10-23 11:15:00	52.11	24.27	41.96	41.85
2	2023-10-23 11:30:00	51.55	23.55	41.16	40.50
3	2023-10-23 11:45:00	51.74	22.72	36.05	40.45
4	2023-10-23 12:00:00	51.43	22.74	36.02	40.61
5	2023-10-23 12:15:00	51.62	22.74	36.01	40.67
6	2023-10-23 12:30:00	51.45	22.75	36.53	40.39
7	2023-10-23 12:45:00	52.35	22.88	39.56	41.28
8	2023-10-23 13:00:00	51.69	24.76	39.54	41.40
9	2023-10-23 13:15:00	52.06	24.74	39.57	41.02
10	2023-10-23 13:30:00	52.14	24.74	40.98	41.07
11	2023-10-23 13:45:00	51.95	24.74	50.42	41.54
12	2023-10-23 14:00:00	52.08	24.78	50.44	41.70
13	2023-10-23 14:15:00	52.22	23.56	50.41	42.52
14	2023-10-23 14:30:00	52.34	23.12	49.65	42.31
15	2023-10-23 14:45:00	52.45	23.11	44.66	42.40

