



ADITYA ENVIRONMENTAL SERVICES PVT. LTD.

Testing Laboratory is certified by **ISO 9001:2015 & ISO 45001:2018**

Recognized by **MoEFCC** as “**Environmental Laboratory**” valid up to 24.04.2025.

Laboratory: P-1, MIDC Mohopada, Rasayani, Dist. Raigad, 410222, E-mail: pglab@aespl.co.in

Tel: 9112844844, CIN: U74999MH2001PTC132091 UDYAM-MH-19-0029787

Monitoring Period: October 2024

Purpose:

The objective of the monitoring is to understand the Ambient Air quality, Ambient Noise quality, Ground water quality at Navi Mumbai International Airport site and nearby villages.

Location of site: Navi Mumbai International Airport, At Ulwe, Panvel Taluka, Raigad District, Maharashtra.

Scope:

The scope of work includes:

Assessment of the present status of following components of environment:

- Ambient Air monitoring at 9 locations
- Ambient Noise monitoring at 10 locations
- Ground water monitoring at 5 locations





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Analysis Data:

• Ambient Air monitoring

Monitoring Dates & Duration	:	14 th October 2024 to 16 th October 2024; 24 hourly monitoring.
Analysis Dates	:	16 th October 2024 to 23 rd October 2024
Locations covered (AAQ 9 Locations)	:	Owale, Pargaon, Ulwe node, NMIA Project site, Kille Gavthan, L&T site Office, Diwale Koliwada, Jui & Panvel.
Parameters covered for AAQ.	:	12 Parameters as per National Ambient Air Quality Standards (NAAQS)2009.

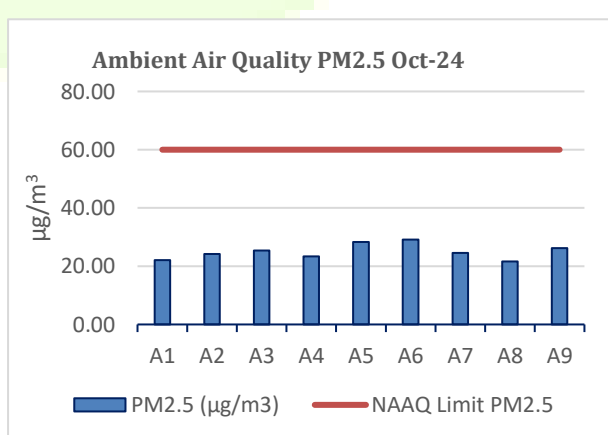
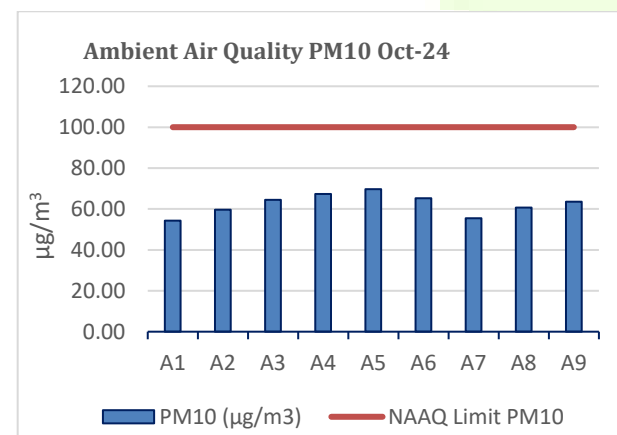
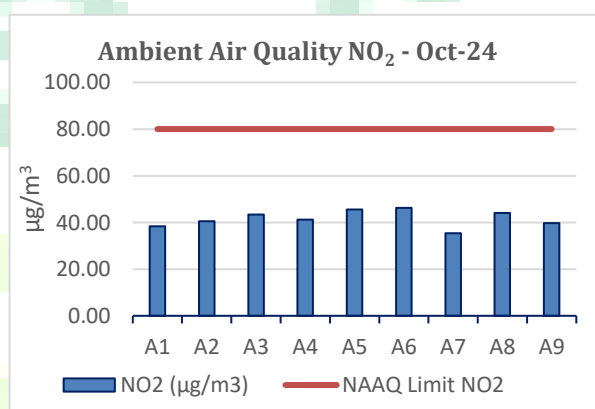
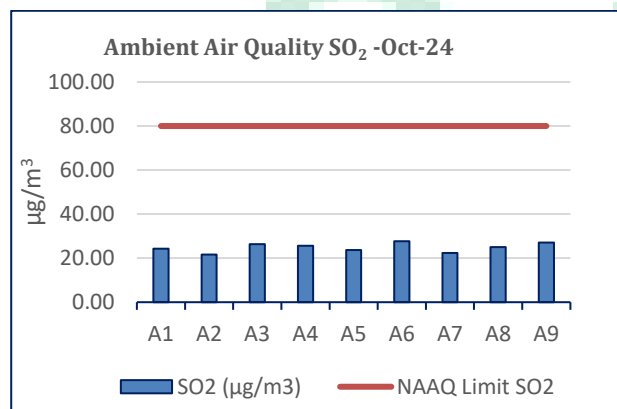
Analysis values except SO₂, NO₂, PM₁₀, PM_{2.5}, O₃, NH₃ and CO at all 9 locations are found below detection levels (BDL).

Sr. No.	Parameter	Result	Limits as per NAAQS 2009	Unit
1.	Benzo(a) pyrene as B(a)P	< 0.5	1.0 ***	ng/m ³
2.	Lead as Pb	< 0.5	1.0 *	µg/m ³
3.	Nickel as Ni	< 5.0	20 ***	ng/m ³
4.	Arsenic as As	< 5.0	6.0 ***	ng/m ³
5.	Benzene[C ₆ H ₆]	< 0.2	5.0 ***	µg/m ³

[*] 24 hourly monitoring values; [**] 1 hourly monitoring values; [***] annually monitoring values.

Conformity Statement: The monitoring undertaken indicates that Ambient Air Quality Values for monitored parameters are within the levels stipulated under National Ambient Air Quality Standards (NAAQS)2009 for all 9 locations.

Analysis Data for SO₂, NO₂, PM₁₀, PM_{2.5} and CO





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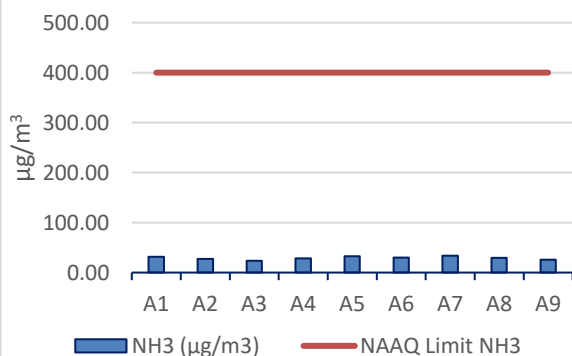
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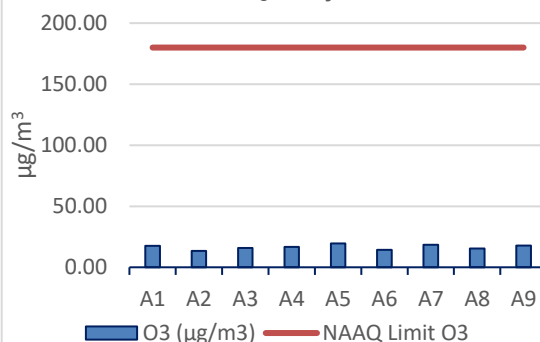
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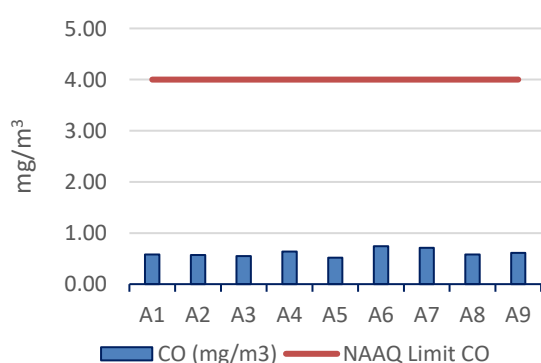
Ambient Air NH₃ - October-24



Ambient Air Quality O₃ - Oct-24



Ambient Air Quality CO - Oct-24



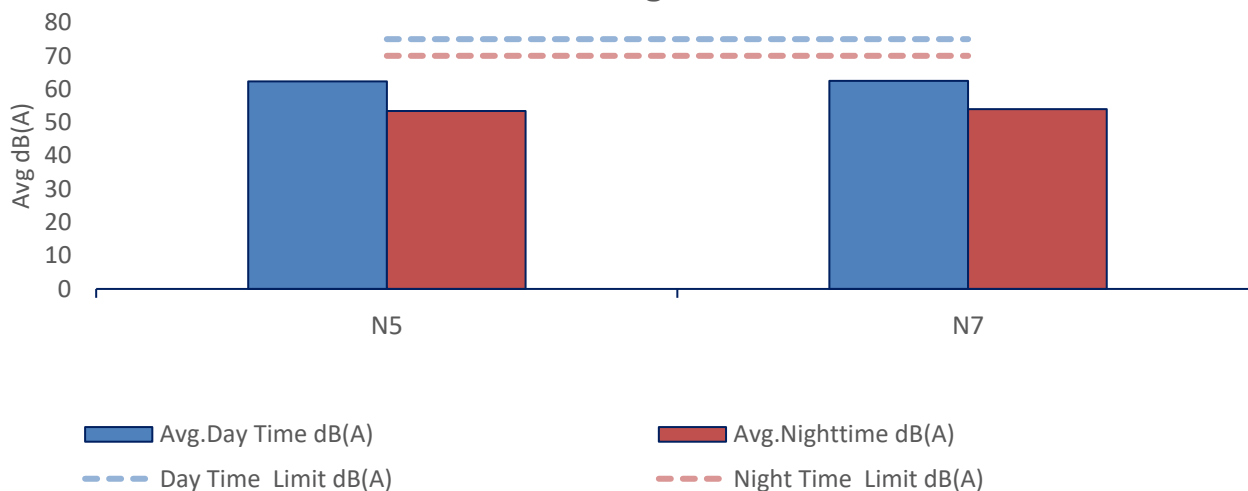
Location Code	Name of the Location
A1	Owale
A2	Pargaon
A3	Ulwe Node
A4	NMIA Project Site
A5	Kille Gavthan
A6	L&T project office
A7	Diwale Koliwada
A8	Panvel
A9	Jui

• Ambient Noise

Monitoring Dates & Duration	:	14 th October 2024 to 16 th October 2024; 24 hourly monitoring.
Locations covered (10 Locations)	:	Owale, Pargaon, Ulwe node, NMIA Project site, Kille Gavthan, L&T Project Office, Diwale Koli Wada, Jui, Panvel & Karanjade.

Industrial Noise

Noise Monitoring-Oct. -24





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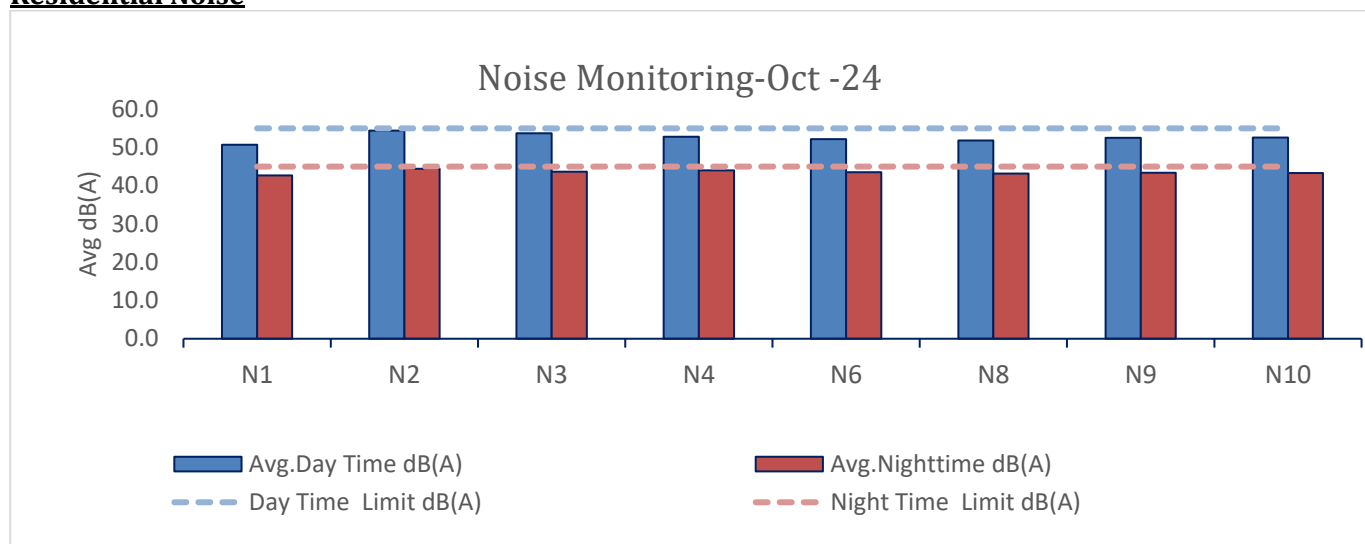
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Residential Noise



Location Code	Name of the Location	Noise Levels dB (A)			
		L-day	L-night	Leq Day	Leq Night
Industrial Zone					
N5	NMIA Project Site	62.3	53.4	63.1	53.7
N7	L&T Site Office	62.5	54.1	64.3	54.4
Residential Zone					
N1	Owale	50.7	42.7	52.7	42.4
N2	Pargaon	54.4	44.4	54.5	44.9
N3	Ulwe Node	53.7	43.7	53.9	44.2
N4	Karanjade	52.8	44.0	53.6	44.2
N6	Kille Gavthan	52.2	43.5	52.3	44.3
N8	Diwale Koliwada	51.8	43.2	52.3	42.5
N9	Jui	52.5	43.4	54.4	43.2
N10	Panvel	52.6	43.3	53.5	43.5

Sr. No.	Sources	Noise Levels dB (A)	
		Leq Day	Leq Night
	limits as per EPA Standard		
1.	Rural/Residential Zone (R)	55.0	45.0
2.	Commercial Zone (C)	65.0	55.0
3.	Industrial Zone (I)	75.0	70.0
4.	Silence Zone (S)	50.0	40.0

Conformity Statement: Noise Levels at all the locations were found within the stipulated limits as per EPA Standard for Industrial and Residential Areas.



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• Ground water

Monitoring Dates	:	14 th October 2024 & 17 th October 2024 Grab sampling.
Analysis Dates	:	14 th October 2024 to 22 nd October 2024
Locations covered. (5 Locations)	:	Dug well water at Jui, Pargoan, Ulwe, Kille Gavthan & Panvel.
Parameters covered	:	59 Parameters as per IS 10500:2012 RA:2018 Drinking water Specification (Except Radioactive materials).

Sampling Code	Name of the Location
GW1	Dug Well-Kille Gavthan (Depth of water 3.0 Feet)
GW2	Dug Well-Ulwe (Depth of water 0.5 Feet)
GW3	Dug Well- Pargoan (Depth of water 2.0 Feet)
GW4	Dug Well-Jui (Depth of water 1.5 Feet)
GW5	Dug Well- Panvel (Depth of water 0.5 Feet)

Conformity Statement: All Dug well water samples are **Pass** as per IS 10500:RA:2018 w. r. t. Chemical analysis & **Fail** for Microbiological analysis.

AES



Reshmi

Reshma S. Patil.
(Authorized Signatory)

Himani

Himani P. Joshi.
(Report Reviewed By)

-End of Report-