



## 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](mailto:pglab@aespl.co.in)

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

**Monitoring Period:** February 2025

### 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 and DG Stack Monitoring at 1 Location
- Ambient Noise monitoring at 10 locations and DG Noise Monitoring at 1 Location
- Ground water monitoring at 5 locations





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### Analysis Data:

#### • Ambient Air monitoring

<b>Monitoring Dates &amp; Duration</b>	: 10 <sup>th</sup> February 25 to 13 <sup>th</sup> February 25; 24 hourly monitoring.
<b>Analysis Dates</b>	: 11 <sup>th</sup> February 25 to 19 <sup>th</sup> February 25
<b>Locations covered</b> (AAQ 9 Locations)	: Owale, Pargaon, Ulwe node, NMIA Project site, Kille Gavthan, L&T site Office, Diwale Koliwada, Jui & Panvel.
<b>Parameters covered for AAQ.</b>	: 12 Parameters as per National Ambient Air Quality Standards (NAAQS) 2009.

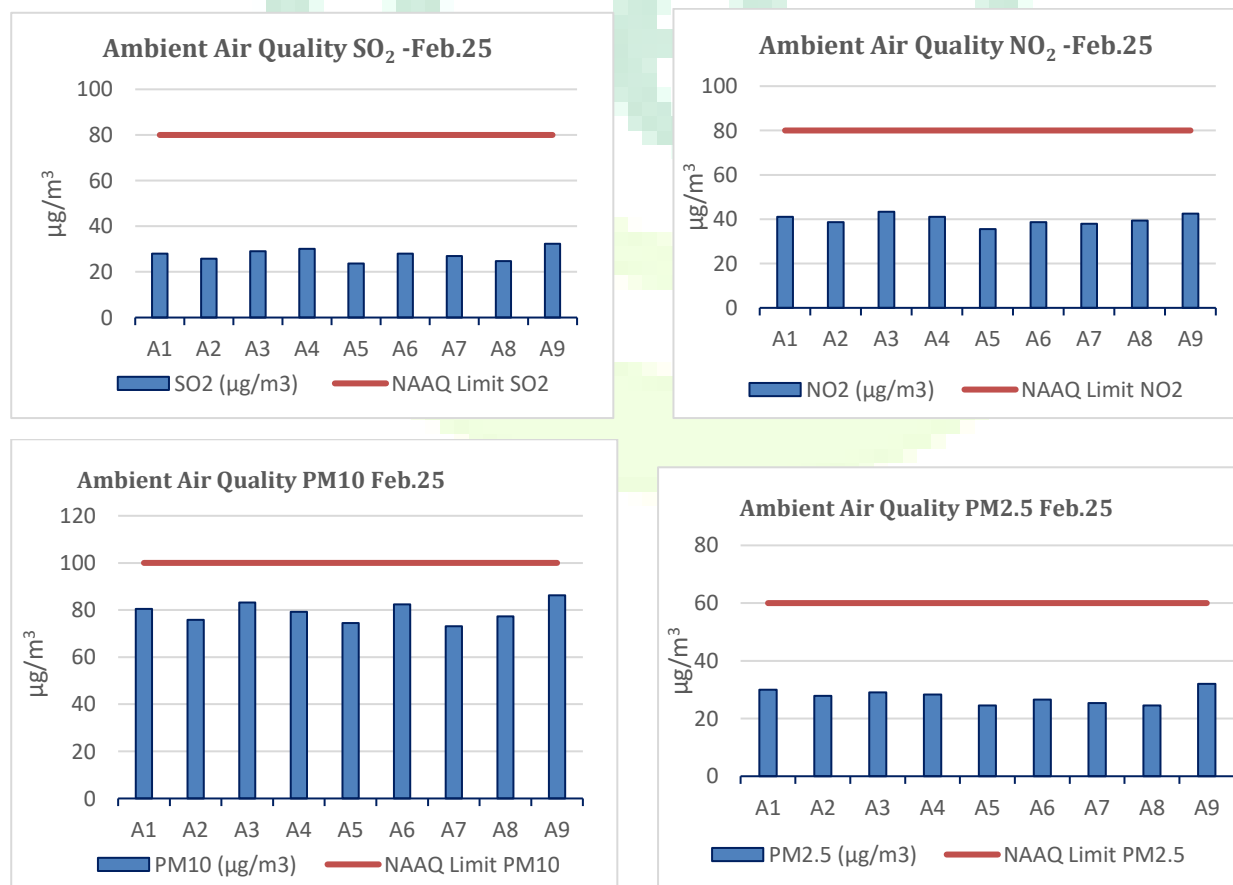
Analysis values except SO<sub>2</sub>, NO<sub>2</sub>, PM<sub>10</sub>, PM<sub>2.5</sub>, O<sub>3</sub>, NH<sub>3</sub> and CO at all 9 locations are found below detection levels (BDL).

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

[\*] 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 SO<sub>2</sub>, NO<sub>2</sub>, PM<sub>10</sub>, PM<sub>2.5</sub> and CO





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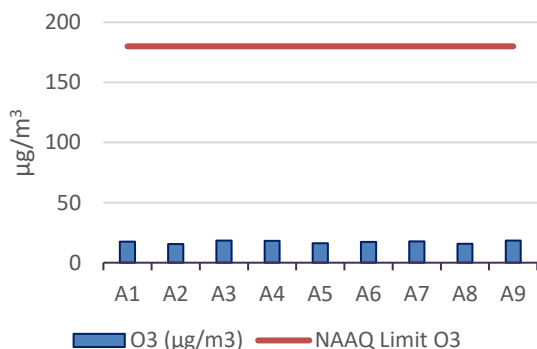
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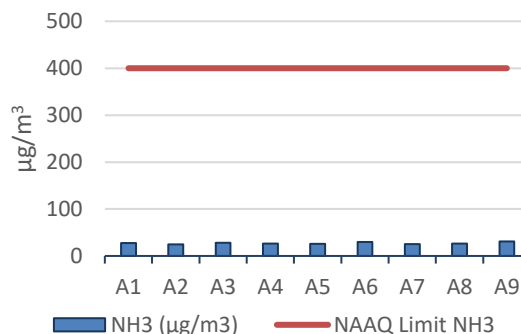
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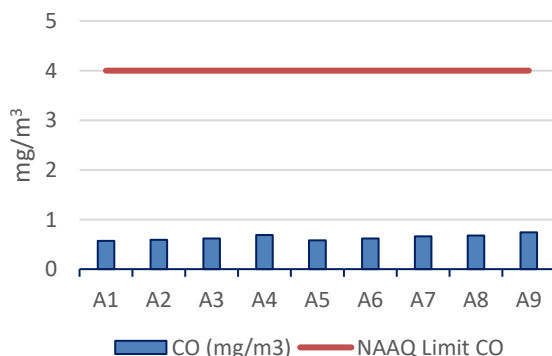
**Ambient Air Quality O<sub>3</sub> - Feb 25**



**Ambient Air NH<sub>3</sub> - Feb 25**



**Ambient Air Quality CO - Feb.25**



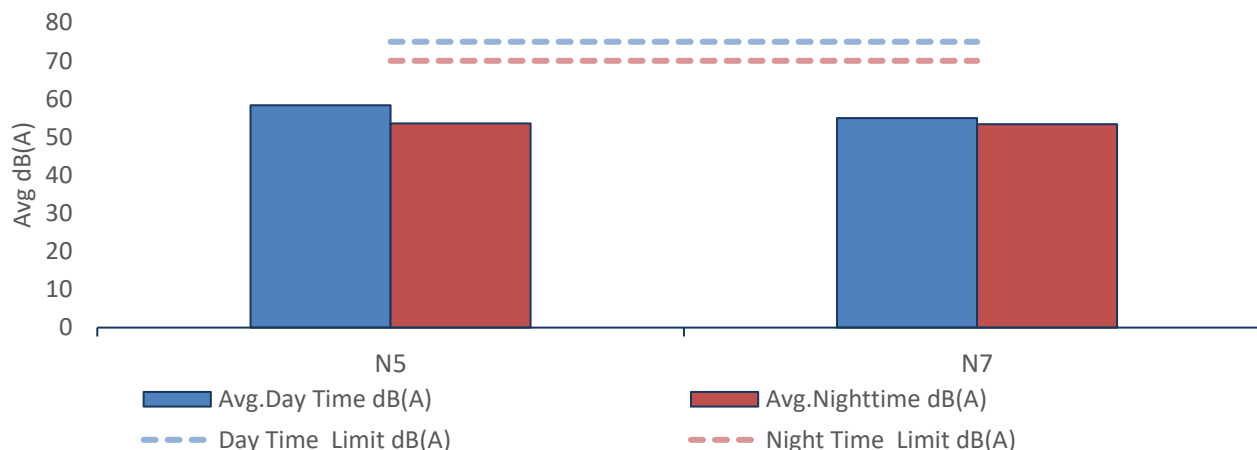
Location Code	Name of the Location
A1	Owale
A2	Pargaon
A3	Ulwe Node
A4	NMIA Project Site
A5	Kille Gavthan
A6	L&T project office
A7	Diwale Koliwada
A8	Panvel
A9	Jui

### • Ambient Noise

<b>Monitoring Dates &amp; Duration</b>	:	12 <sup>th</sup> August 24 to 16 <sup>th</sup> August 24; 24 hourly monitoring.
<b>Locations covered (10 Locations)</b>	:	Owale, Pargaon, Ulwe node, NMIA Project site, Kille Gavthan, L&T Project Office, Diwale Koli Wada, Jui, Panvel & Karanjade.

### Industrial Noise

**Noise Monitoring-Feb-25**





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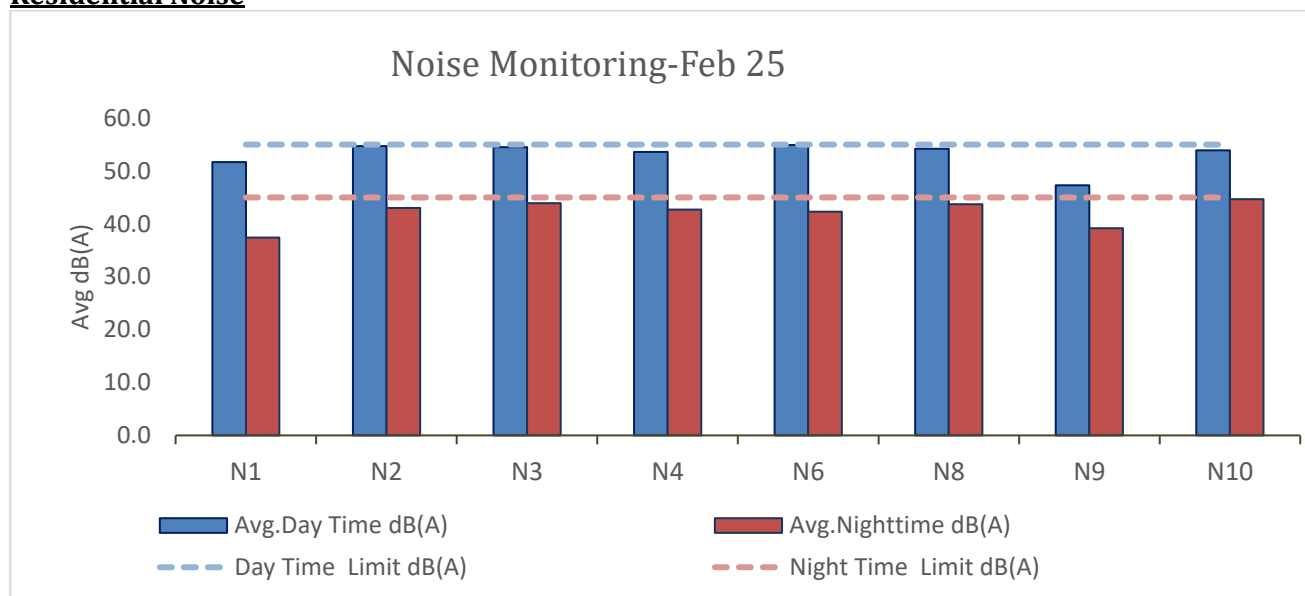
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### Residential Noise



Location Code	Name of the Location	Noise Levels dB (A)			
		L-day	L-night	Leq Day	Leq Night
Industrial Zone					
N5	NMIA Project Site	58.3	53.6	58.27	53.69
N7	L&T Site Office	55.0	53.4	55.15	53.41
Residential Zone					
N1	Owale	51.7	37.4	57.02	37.89
N2	Pargaon	54.7	43.0	55.76	43.43
N3	Ulwe Node	54.5	43.9	54.20	44.67
N4	Karanjade	53.6	42.7	54.03	42.94
N6	Kille Gavthan	54.9	42.3	53.99	43.45
N8	Diwale Koliwada	54.2	43.7	54.55	44.11
N9	Jui	47.3	39.2	53.26	40.55
N10	Panvel	53.9	44.7	54.14	44.92

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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### • DG Stack & Noise monitoring:

Monitoring Dates & Duration	:	11 <sup>th</sup> February 25
Analysis Dates	:	12 <sup>th</sup> February 25 to 17 <sup>th</sup> February 25
Locations covered (DG 1 location)	:	DG stack monitoring at NMIA Project Site.
Parameters covered for DG	:	Particulate Matter (mg/Nm <sup>3</sup> ), Sulphur (Kg/day), CO (ppm) for DG stack monitoring.

### Conformity Statement:

DG stack monitoring results are found to be well within the limits as per MPCB standards.

DG Noise Quality value at NMIA Project Site for insertion loss is within consent limit.

DG set Sound Pressure Level measured at 0.5m from the enclosure & Limit for Insertion loss of 25dBA.

### • Ground water

Monitoring Dates	:	10 <sup>th</sup> February 25 & 12 <sup>th</sup> February 25 Grab sampling.
Analysis Dates	:	11 <sup>th</sup> February 25 to 17 <sup>th</sup> February 25
Locations covered.(5 Locations)	:	Dug well water at Jui, Pargoan, Ulwe, Kille Gavthan & Panvel.
Parameters covered	:	59 Parameters as per IS 10500:2012 Drinking water Specification (Except Radioactive materials).

Sampling Code	Name of the Location
GW1	Dug Well-Kille Gavthan (Depth of water 15 Feet)
GW2	Dug Well-Ulwe (Depth of water 1.0 Feet)
GW3	Dug Well- Pargoan (Depth of water 2.5 Feet)
GW4	Dug Well-Jui (Depth of water 12 Feet)
GW5	Dug Well- Panvel (Depth of water 2.0 Feet)

**Conformity Statement:** All Dug well water samples are **Pass** as per IS 10500:2012 w. r. t. Chemical analysis & **Fail** for Microbiological analysis.

*Reshmi*

Reshma S. Patil.  
(Authorized Signatory)



*Himani*

Himani P. Joshi.  
(Report Reviewed By)

-End of Report-