



## 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:** January 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
- Ambient Noise monitoring at 10 locations
- Ground water monitoring at 4 locations





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### Analysis Data:

#### Ambient Air monitoring

|                                     |                                                                                                                  |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------|
| Monitoring Dates & Duration         | : 13 <sup>th</sup> January 25 to 15 <sup>th</sup> January 25; 24 hourly monitoring.                              |
| Analysis Dates                      | : 14 <sup>th</sup> January 25 to 22 <sup>nd</sup> January 25                                                     |
| Locations covered (AAQ 9 Locations) | : Owale, Pargaon, Ulwe node, NMIA Project office, 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 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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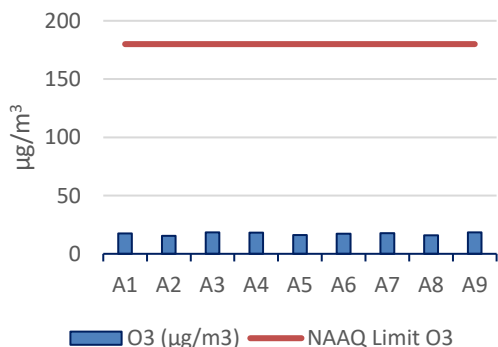
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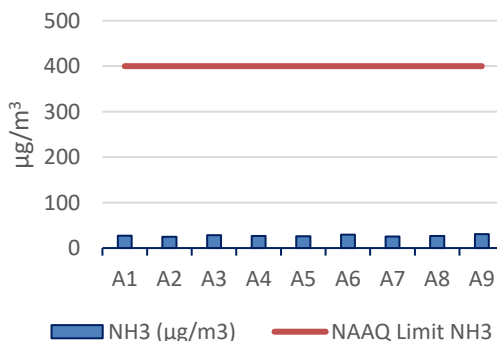
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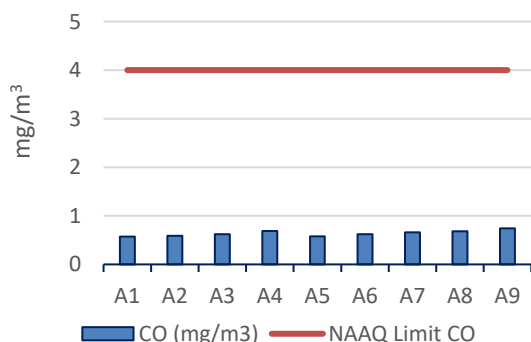
**Ambient Air Quality O<sub>3</sub> - Jan 25**



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



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



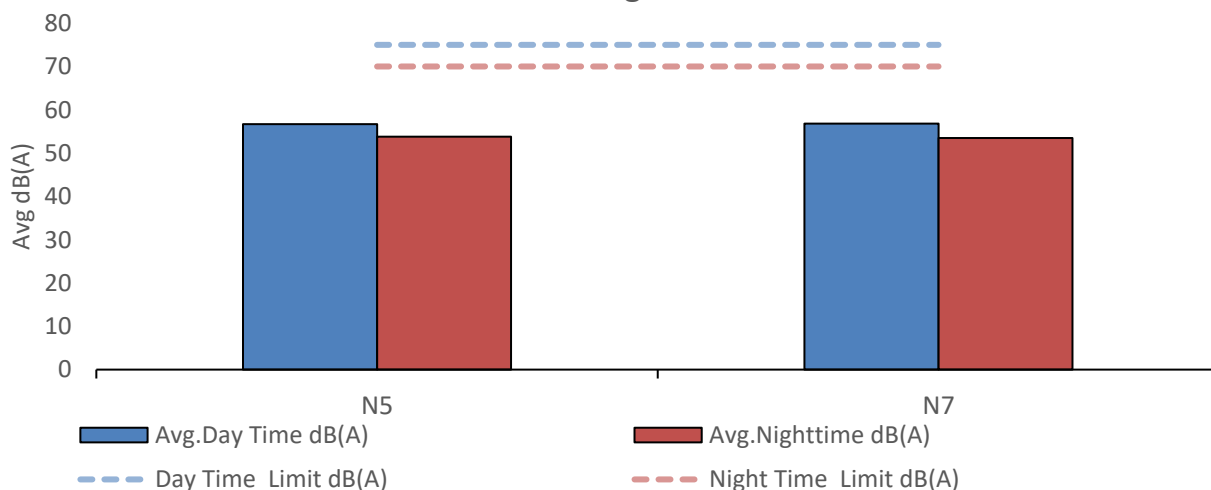
| Location Code | Name of the Location |
|---------------|----------------------|
| A1            | Owale                |
| A2            | Pargaon              |
| A3            | Ulwe Node            |
| A4            | NMIA Project Site    |
| A5            | Kille Gavthan        |
| A6         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

### • Ambient Noise

|                                         |   |                                                                                                                             |
|-----------------------------------------|---|-----------------------------------------------------------------------------------------------------------------------------|
| <b>Monitoring Dates &amp; Duration</b>  | : | 13 <sup>th</sup> January 25 to 15 <sup>th</sup> January 25; 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-Jan-25**





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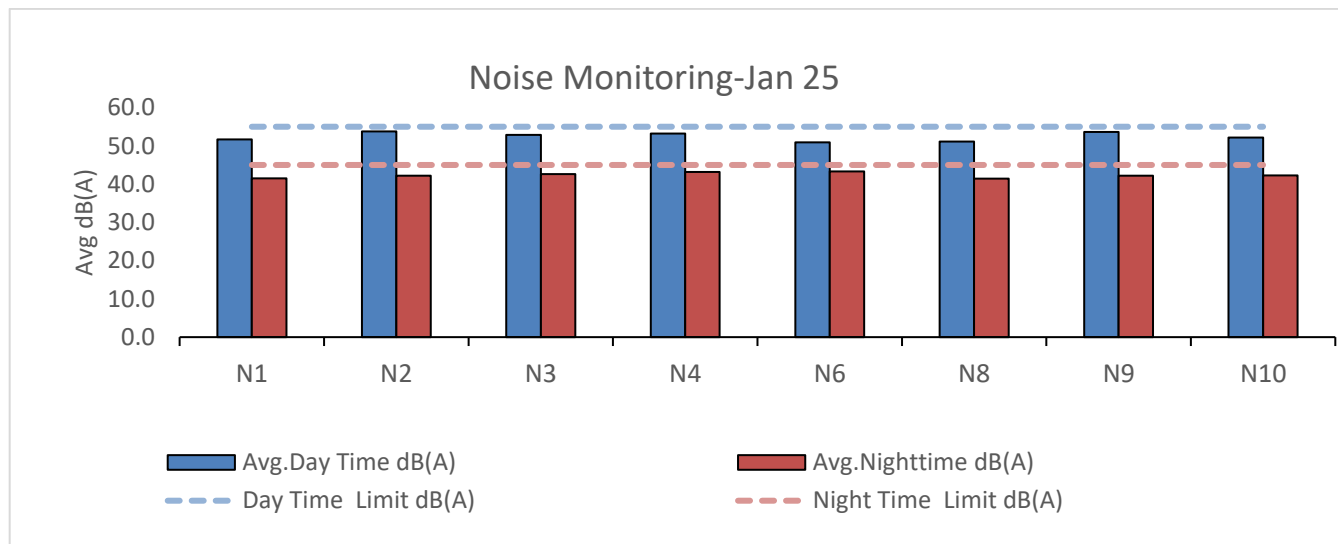
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### Residential Noise



| Location Code    | Name of the Location | Noise Levels dB (A) |         |         |           |
|------------------|----------------------|---------------------|---------|---------|-----------|
|                  |                      | L-day               | L-night | Leq Day | Leq Night |
| Industrial Zone  |                      |                     |         |         |           |
| N5               | NMIA Project Site    | 56.7                | 53.8    | 56.83   | 53.70     |
| N7               | L&T Site Office      | 56.8                | 53.5    | 56.83   | 53.57     |
| Residential Zone |                      |                     |         |         |           |
| N1               | Owale                | 51.7                | 41.5    | 52.50   | 41.87     |
| N2               | Pargaon              | 53.8                | 42.2    | 54.26   | 42.45     |
| N3               | Ulwe Node            | 52.9                | 42.6    | 54.57   | 42.25     |
| N4               | Karanjade            | 53.2                | 43.2    | 53.95   | 43.71     |
| N6               | Kille Gavthan        | 50.9                | 43.3    | 54.42   | 43.39     |
| N8               | Diwale Koliwada      | 51.1                | 41.4    | 53.86   | 42.49     |
| N9               | Jui                  | 53.6                | 42.2    | 57.42   | 42.24     |
| N10              | Panvel               | 52.2                | 42.3    | 53.57   | 42.03     |

| 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

|                                            |   |                                                                                                         |
|--------------------------------------------|---|---------------------------------------------------------------------------------------------------------|
| <b>Monitoring Dates</b>                    | : | 13 <sup>th</sup> January 25 Grab sampling.                                                              |
| <b>Analysis Dates</b>                      | : | 13 <sup>th</sup> January 25 to 21 <sup>st</sup> January 25                                              |
| <b>Locations covered.</b><br>(5 Locations) | : | Dug well water at Kombadbhuje, Owale, Dapoli & Chinchpada.                                              |
| <b>Parameters covered</b>                  | : | 59 Parameters as per IS 10500:2012 RA:2018 Drinking water Specification (Except Radioactive materials). |

| Sampling Code | Name of the Location                              |
|---------------|---------------------------------------------------|
| GW - I        | Open well at Kombadbhuje (Depth of water 21 Feet) |
| GW - II       | Open well at Owale (Depth of water 5.0 Feet)      |
| GW - III      | Open well at Dapoli (Depth of water 7.0 Feet)     |
| GW- IV        | Open well at Chinchpada (Depth of water 9.0 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.

*Reshmi*

**Reshma S. Patil.**  
(Authorized Signatory)



*Himani*

**Himani P. Joshi.**  
(Report Reviewed By)

-End of Report-