

## **NEW EDITION OF TECHNICAL GUIDELINE FOR LAND TRAFFIC NOISE IMPACT ASSESSMENT**

**Reference:** NEA/EP/PDD/05-00075

**Date:** 1 March 2023

### **CIRCULAR TO PROFESSIONAL INSTITUTIONS**

#### Who should know

Developers, Architects, Engineers

Dear Sir/Madam,

#### **Notification of New Edition of Technical Guideline for Land Traffic Noise Impact Assessment (2023 Edition)**

We would like to notify all Qualified Persons (QPs) that the new edition of the Technical Guideline for Land Traffic Noise Impact Assessment 2023 Edition has been released.

2. The Technical Guideline for Land Traffic Noise Impact Assessment (NIA) was introduced in July 2016 to provide general reference for acoustic consultants and QPs to prepare land traffic NIA for designated projects.
3. A review on the methodology and assessment process was conducted from May 2021 to Dec 2022 via consultations with the building industry, professional bodies, acoustic specialists, and relevant government agencies.
4. The copy of the Technical Guideline for Land Traffic Noise Impact Assessment 2023 Edition can be downloaded from NEA website at <https://www.nea.gov.sg/our-services/development-control>. Please refer to Annex A for the summary list of key updates in the technical guideline.

5. For further enquiries, please contact NEA Hotline at 1800-2255 632 or reach us electronically via the Online Feedback Form at <http://www.nea.gov.sg/corporate-functions/feedback> or mobile application (my ENV). We would appreciate it if you could disseminate the content of this circular to your members.

Thank you.

Sincerely



Koh Joon Hong  
Director  
**DEVELOPMENT CONTROL AND LICENSING DIVISION**

cc:

The President  
Singapore Institute of Architects (SIA)

The President  
Association of Consulting Engineers Singapore (ACES)

The President  
The Institution of Engineers Singapore (IES)

The President  
The Singapore Contractors Association Ltd (SCAL)

The President  
Real Estate Developers' Association of Singapore (REDAS)

## ANNEX A

Paragraph	Remarks
<u>Part 1, Para 4 and 5</u> <u>Part 2, Para 37 and 38</u>	<ol style="list-style-type: none"> <li>1. Provides further clarity on the road category and classification; and</li> <li>2. A footnote is added to provide some examples of noise sensitive developments.</li> </ol>
<u>Part 1, Para 13</u> <u>Part 2, Para 46</u>	Update of standard for baseline noise measurements and on the frequency of calibration.
<u>Part 1, Para 16</u> <u>Part 2, Para 50 and 51</u>	Provides further guidance in conducting baseline noise measurements.
<u>Part 1, Para 19</u>	Provides guidance on baseline noise measurements related to minor roads.
<u>Part 1, Para 21</u> <u>Part 2, Para 59</u>	<p>Provides further guidance related to 3D noise modelling software in:</p> <ol style="list-style-type: none"> <li>1. Conducting noise prediction; and</li> <li>2. Preparing noise prediction report.</li> </ol>
<u>Part 1, Para 22</u> <u>Part 2, Para 60</u>	Provides further guidance in preparing noise prediction report from 3D noise modelling software.
<u>Part 1, Para 23</u> <u>Part 2, Para 61</u>	<p>Provides further guidance related to modelling and measured data in:</p> <ol style="list-style-type: none"> <li>1. Conducting noise prediction; and</li> <li>2. Preparing noise prediction report.</li> </ol>
<u>Part 1, Para 24</u> <u>Part 2, Para 64</u>	<p>Footnotes are added to:</p> <ol style="list-style-type: none"> <li>1. Provide some examples of façade; and</li> <li>2. Provide some guidance to justify predicted indoor noise levels.</li> </ol>

<u>Part 1, Para 29a and 29b</u>	Provides guidance on noise mitigating measures.
<u>Part 1, Para 30</u> <u>Part 2, Para 71</u>	Provides guidance in conducting: <ol style="list-style-type: none"> <li>1. Indoor noise measurements (Part 1); and</li> <li>2. Facade and/or indoor noise measurements (Part 2).</li> </ol>
<u>Part 1, Para 31</u> <u>Part 2, Para 72</u>	Update of standard for indoor noise measurements and on the frequency of calibration.
<u>Part 1, Para 34</u> <u>Part 2, Para 75</u>	Provides guidance on reverberation time for indoor noise measurements.
<u>Part 1, Para 36</u> <u>Part 2, Para 58</u>	<ol style="list-style-type: none"> <li>1. Provides guidance on future traffic noise sources (Part 1); and</li> <li>2. Provides guidance on future traffic noise sources and comparisons to existing transport infrastructure/reports (Part 2).</li> </ol>
<u>Part 2, Para 62</u>	Provides guidance on future affected residential and noise sensitive developments to be included in the noise prediction study