

AVA Register for Government Project Project Description

Return From (Department/bureau/authority) Architectural Services Department

Return For 4th Quarter of 2022

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| <p>1. Project Name (in English & Chinese)</p> | <p>Expansion of Hong Kong Science Museum and Hong Kong Museum of History 科學館及歷史博物館擴建工程</p> |
| <p>2. Project Reference</p> | <p>AVR/G/167</p> |
| <p>3. Outline of Project Details <i>(attach location plan)</i></p> <p><i>Please include key development parameters e.g. site area, total GFA, building height, lot frontage for waterfront sites etc. relevant to the project and the relevant criteria for AVA set out in para. 4.</i></p> | <p>The Air Ventilation Assessment (AVA) Study is prepared on behalf of the Leisure and Cultural Services Department (LCSD) to seek the permission of the Town Planning Board for proposed minor relaxation of building height and site coverage restrictions for the Expansion of Hong Kong Science Museum and Hong Kong Museum of History – located in Tsim Sha Tsui, bounded by Chatham Road South, Granville Road, Science Museum Road and Cheong Wan Road (“the Subject Site”) to examine the air ventilation performance of its building design quantitatively and formulate effective and practicable measures enhancing the air ventilation as part of the continuous design improvement process.</p> <p>The Site falls within an area zoned “Other Specified Uses” (“OU”) annotated “Museums” (“OU(Museum)”) and the area shown as ‘Road’ on the Approved Tsim Sha Tsui Outline Zoning Plan (“OZP”) No. S/K1/28 gazetted on 13.12.2013. It is noted that this site is subject to a maximum building height restriction of 30mPD, a maximum site coverage of 60% and a minimum building setback of 7m from the site boundary along Chatham Road South to ensure the availability of land for open space provision and to facilitate air ventilation respectively.</p> |

The proposed development includes the existing Hong Kong Science Museum (HKScM) and Hong Kong Museum of History (HKMH) and the proposed expansion consisting of two parts, i.e. Annex 1 with site area of about 1,860m² and Annex 2A & 2B with site area of about 7,981m². The total GFA increase from the expansion is about 33,280m².



Figure 1- Overview of the Project Area and its Surroundings

4. Select the following category(ries) which would be applicable to the major government project :

(Please tick ALL relevant categories)

- Planning studies for new development areas.
- Comprehensive land use restructuring schemes, including schemes that involve agglomeration of sites together with closure and building over of existing streets.
- Area-wide plot ratio and height control reviews.
- Developments on sites over 2 hectares and with an overall plot ratio of 5 or above.
- Development proposals with total Gross Floor Area exceeding 100,000 square metres.
- Developments with podium coverage extending over one hectare.
- Developments above public transport terminus.
- Buildings with height exceeding 15 metres within a public open space or breezeway designated on layout plans / outline development plans / outline zoning plans or proposed by planning studies.
- Developments on waterfront sites with lot frontage exceeding 100 metres in length.
- Extensive elevated structures of at least 3.5 metres wide, which abut or partially cover a pedestrian corridor along the entire length of a street block that has / allows development at plot ratio 5 or above on both sides; or which covers 30% of a public open space.
- Others, please specify

Section 16 Planning Application

| 5. Relevant factors which have been taken into account in assessing the need for AVA | | | |
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| <i>Factors</i> | <i>Y</i> | <i>N</i> | <i>Brief remarks</i> |
| Are there existing / planned outdoor sensitive receivers located in the vicinity of the project site falling within the assessment area? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Are there known or reasonable assumptions of the development parameters available at the time to conduct the AVA? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Site Coverage and Building Height Restriction was stipulated in the OZP. |
| Are alternative designs or alternative locations feasible if the AVA to be conducted reveals major problem areas? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Alternative Design can be proposed if there are major problem areas. |
| Are there other overriding factors that would prevail over air ventilation considerations in the determination of the project design? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Site parameters including limited site area and its shape constraint the building design. |
| Will the desirable project design for better air ventilation compromise other important objectives for the benefits of the public? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Better design in terms of air ventilation may reduce expansion area of the project. Exhibition and gallery spaces serving public may be also reduced. |
| Has the public raised concern on air ventilation in the neighbourhood area of the project? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Public comments were received during S16 application on the circular building (Annex 2B) forming a wall effect to TST's inner area. The AVA report results showed that there is no adverse impact on the air ventilation to the neighbourhood in general. |

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| Is the project already in advanced stage to incorporate AVA? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | AVA was carried out at early design stage. |
| Any other factors not listed above? (please specify) | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 6. Is AVA required? | | | |
| AVA is required for the project | <i>Go to Section 7</i> | | |
| AVA should be conducted later | <i>Go to Section 8</i> | | |
| AVA to be waived | <i>Go to Section 9</i> | | |
| 7. AVA is required for the project <i>Yes</i> | | | |
| <i>(The AVA report, 3 hard copies and an electronic copy in Acrobat format, is be submitted for record after completion)</i> | | | |
| (a) AVA Consultants (if any) | AECOM Asia Company Limited | | |
| (b) Time (start / finish) | Q1/2021-Q1/2023 | | |
| (c) Assessment tool used (CFD or/and wind tunnel) | CFD | | |
| (d) Any design changes made to the project resulting from the AVA? | Nil | | |
| (e) Any major problems encountered in the AVA process? | Nil | | |
| (f) Any suggested improvement to the AVA process? | Nil | | |
| 8. AVA should be conducted later <i>not applicable</i> | | | |
| (a) What is the current stage of the project? | | | |
| (b) When should AVA be conducted? | | | |

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| (c) Which Policy Bureau agrees to conduct AVA later? | DB THB Others _____ |
| 9. AVA to be waived <i>not applicable</i> | |
| (a) Give justifications for waiving the requirement | |
| (b) Have qualitative design guidelines / measures been adopted and design changes been made to improve air ventilation of the project? | |
| (c) Which Policy Bureau agrees to waive AVA? | DB THB Others _____ |
| 10. Contact | |
| (a) Name | [REDACTED] |
| (b) Designation | [REDACTED] |
| (c) Tel. | [REDACTED] |
| (d) E-mail | [REDACTED] |