Guideline for BIM Modelling Computer

Purpose

The purpose of this guideline is to provide a reference hardware specification for BIM modelling computer to facilitate Works Departments (WDs) to specify contract computer facilities under works contracts or to facilitate daily office use for the purpose of BIM application.

Reference specification

2.   The BIM modelling computer shall comply with the following general specification.

	Component	General Specification
(i)	Processor	Multi-core CPU with performance benchmark score[1] ranging from 12,000 to 18,000 depending on modelling details and complexity of the projects
(ii)	Memory	32GB to 64GB depending on modelling details and complexity of the projects Expandable to 64GB if 32GB RAM is used
(iii)	Boot Drive	SSD bootable disk
(iv)	Video Card	Video performance benchmark score[2] ranging from 5,000 to 11,000 depending on modelling details and complexity of the projects At least 4 GB DDR5 GPU Memory At least two Display Ports
(v)	Green Factor	Comply with Energy Star, or obtained an Energy Label under the Energy Efficiency Labelling Scheme of EMSD Product components should comply with RoHS
(vi)	LCD Monitor	21 inches or larger and use of 4K monitor depending on operation need

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[1] High End CPU score - https://www.cpubenchmark.net/high_end_cpus.html
[2] High End Video card score - https://www.videocardbenchmark.net/high_end_gpus.html

Remarks

3.   The above guideline is considered optimal for most of the present-day BIM modelling work. However, depending upon complexity and details of the specific projects or BIM models and requirements of specific BIM software, departmental IT Committee may give necessary support to any deviation from above, if considered necessary.

Enquiry

4.   For enquiry about this guideline, please contact AS(IT), DEVB(WB).

Reviewed and Updated in:
May 2020