

BCA

BIM Awards

- Project Category

2017



BUILDING AND CONSTRUCTION AUTHORITY

THE AWARDS

The **BCA Building Information Modelling (BIM) Awards – Project Category** recognise the contribution of project teams in their Building Information Modelling (BIM) and Virtual Design and Construction (VDC) projects implementation during design stage, construction stage, and facility management stage. The awards aim to:

- i. Encourage project teams to adopt a more collaborative design and construction process by leveraging on the BIM technologies and VDC processes to meet project goals;
- ii. Recognise project teams for their outstanding examples of BIM/VDC use in enhancing productivity.

Winning projects will either receive a Platinum, a Gold^{Plus} or a Gold Award. The Awards are not competitive but standard based. An Award will only be conferred if a suitable entry is received. Several Awards may also be conferred in each category.

A Gold Award will be awarded to a project that has adopted good BIM design, VDC process and construction practices that follows Singapore BIM Guides. A Platinum Award will only be conferred to a project that has displayed exemplary use of BIM/VDC during design, construction, or FM stage.

ASSESSMENT

Projects submitted for nomination will be assessed by an Assessment Panel appointed by the Building and Construction Authority.

The projects will be assessed based on the following criteria:

- i. Key BIM/VDC objectives identified for the project. The extent of the objective achieved to date.
- ii. The extent of BIM/VDC application used in the project.
- iii. The extent of each project modelled in BIM and the quality of the BIM/VDC Model/Data used in the project.
- iv. It is important to demonstrate the quantification and self-verification over the extent of BIM/VDC technology and approach applied in the process Management, in terms of 4D, 5D or above usage.
- v. The extent of project members (Developers, Consultants, Builders, Fabricators and Specialists) involved and the quality of collaboration among different project members with the use of BIM technologies and Virtual Design and Construction (VDC) approach.
- vi. Project complexity, in terms of building types, sizes and collaboration aspects.
- vii. Innovative process re-engineering introduced in the project and innovative way of using BIM technology and VDC processes to overcome obstacles faced.
- viii. The outputs and outcomes on the benefit of using BIM/VDC and areas of transformation that the industry should undergo to improve its productivity.

The decision of the Assessment Panel shall be final. The discretion of the Assessment Panel to confer or withhold an award is absolute. No appeal regarding the Assessment Panel's decisions will be entertained by the Panel or BCA.

ELIGIBILITY

All local projects are eligible for nomination. Projects that are under construction of superstructure or just completed construction by the time of nomination will stand a better chance to demonstrate the extent of BIM/VDC collaboration beyond design.

Each entry must seek permission from the project owners/clients and notify all other project team member involved in the BIM/VDC implementation.

Awards are given to the winning project teams. Organisations which are eligible for the awards are:

- Client
- Any member of the project team

Each project can only be submitted once.

SUBMISSION PROCEDURE

Entries for the awards must be submitted using the prescribed nomination form.

The procedure for entry comprises two stages:

Stage 1:

The proposing firm makes a nomination using the prescribed form. Other materials which **MUST** be included in the submission are:

1. A project write-up in twelve-page length in print and digital format (PDF). Please refer to the attached guide for the write-up.
2. Project BIM execution plan – to be included in the project write-up as appendix A.
3. Write up about BIM Manager and BIM Coordinator (if any) – to be included in the project write-up as appendix B.
4. Other relevant material (if any) – to be included in the project write-up as other appendices.
5. BIM/VDC models to be submitted in non-editable format (e.g. DWF, NWC, imodel or IFC).
6. Not more than 20 digital render images to be submitted in digital format (in high resolution JPG).
7. Two numbers of A1 size, 200dpi jpeg softcopies and hardcopies printed on 170gsm PP(synthetic) paper with gloss lamination and mounted on A1 size, 5mm thick foam board for presentation, with BIM/VDC project's key summary features.

The nomination form, project write-up, BIM models, and render images must reach the secretariat of the Assessment Panel **NOT LATER THAN 26 June 2016, 3.00pm.**

Special Notes

- Each project needs only one Nomination Form which could be submitted by any team member who is directly involved in the project.
- Please submit the nomination form along with the attached checklist.
- An incomplete submission will not be accepted.

SUBMISSION PROCEDURE (Con't)

Stage 2:

Shortlisted potential winning projects will be notified by email and shall make a 15 minutes' presentation to the Assessment Panel on the 18-August-2017, at BCA Academy, L9 Boardroom / T9-M1. The Assessment Panel will interview the project team to clarify the project write-up as well as other details and aspects related to the BIM project.

Submission:

1. One min. 20 pages, A4 size layout power point presentation slides by 14-August-2017

The Assessment Panel will have at its discretion the right to reject any entry which has incomplete documentation or which fails to comply with the above requirements at any stage of the competition.

Releasing of results and awards presentation

1. Results shall be released in the first week of September.
2. Project team to identify the necessary representative to receive the award from the Guest of Honour during the Singapore Construction Productivity Week (SCPW) Opening Ceremony dated 24 October 2017. Details shall be informed by email.

TERMS AND CONDITIONS

The Intellectual Property (IP) of all submissions will belong to the author. The BCA reserves the right to use any material submitted in connection with the entries in any way deemed fit, without payment of fees or royalties, and regardless of the results of the Award. This includes, but is not limited to, the publication and/or exhibition of photographs, materials and/or names.

Award recipients are required to share information on their successful projects with the construction industry. This sharing of information may take the form of presentations, seminars, exhibitions and/or the hosting of company visits.

The Assessment Panel reserves the right to defer judgment on any shortlisted project if at any time during the assessment process, any development or incident arises concerning any party linked to the project, which is likely to result in adverse publicity to the Awards, the BCA and/or the construction industry. The duration of any such deferment shall be at the sole discretion of the Assessment Panel.

The BCA reserves the right to withdraw or withhold any award, if in the opinion of the BCA, the conferment of such award might result in any adverse publicity to the Awards, the BCA and/or the construction industry, because of any development or incident concerning any party linked to the recommended award winning project. The duration and extent of any such withdrawal or withholding shall be at the sole discretion of the BCA.

ANNOUNCEMENT OF RESULTS

All enquiries concerning entries for the BCA BIM AWARDS – PROJECT CATEGORY 2017 should be addressed to:

The Secretariat
BCA BIM Awards – Project Category
Centre for Construction IT (CCIT)
BCA Academy
200 Braddell Road
Singapore 579700
Attention:
Mr PONG Woon Wei
Email: Pong_Woon_Wei@bca.gov.sg
Tel: 6730 4526

Frequently Asked Questions (FAQ)

Do I have to submit with entire project team?

No. But in order to demonstrate design and construction collaboration with the use of BIM technology and VDC approach, you may want to invite some of your key project team member to join the award submission.

Can I submit more than one project for the BCA BIM Awards – Project Category?

Yes. The BCA BIM Awards – Project Category doesn't have any limitation on the number of projects submitted by one firm.

Note: Each project can only be submitted once.

Who must sign the Nomination Form?

The eligible members of the project team who involved in implementing BIM/VDC in the nominated project and want to receive the BCA BIM Awards – Project Category certificate.

How will I know my submission has been received?

Once your submission has been received, the BCA BIM awards secretariat will send an acknowledgement e-mail.

CHECKLIST FOR SUBMISSION

BIM Awards – Project Category 2017

Project Name: _____

Please check by ticking:

- The following printed documents are enclosed:

- This form
- Nomination Form, Project Team and Declaration, duly completed and signed
- Project write up with all the required appendices
- Two numbers of A1 size, portrait format, hardcopies, with min. resolution at 200dpi jpeg printed on 170gsm PP(synthetic) paper with gloss lamination and mounted on A1 size, 5mm thick foam board for presentation, with BIM/VDC project's key summary features for SCPW publicity

- A copy of DVD-ROM with the following contents is enclosed:

- Softcopy of the completed Forms (Nomination form including the Project Team, Declaration duly completed and signed) in PDF format
- Project write-up with all the required appendices in PDF format
- BIM Models in non-editable format (e.g. DWF, NWC, imodel or IFC)
- A separate folder with not more than 20 digital render images (in JPG format with min. 200dpi) to be used for publicity
- Softcopies of the two numbers of A1 size, portrait format, with min. resolution at 200dpi

NOMINATION FORM

This set of Nomination Form is to be completed and returned not later than **26 June 2017, 3.00pm** to:

The Secretariat
BCA BIM Awards – Project Category
Centre for Construction IT (CCIT)
BCA Academy
Level 10 Academic Tower
200 Braddell Road
Singapore 579700
Attention:
Mr. Pong Woon Wei

1. Project Name	_____
2. Project Location and Address	_____
3. Date of Tender Award	_____
4. Project Status (please tick one)	<input type="checkbox"/> Under Construction of Superstructure <input type="checkbox"/> Construction Completed <input type="checkbox"/> Others (please specify): _____
5. Gross Floor Area* (GFA), m ²	_____
6. Total Length and Width**, m (For civil engineering project only)	_____
7. Contract Type (please tick one)	<input type="checkbox"/> Design, Bid & Build <input type="checkbox"/> Design & Build <input type="checkbox"/> Others (please specify): _____
8. Contact Person#	_____
9. Contact Number	(O) _____ (HP) _____
10. Email Address	_____

Note:

* Gross Floor Area (GFA) refers to areas as defined by URA.

** Total length and width refers to the total length and width constructed for civil engineering projects such as roads, tunnels, bridges etc.

This person should be involved in the project and is familiar with the details in this submission. He/She shall be the liaison person for this project.

DECLARATION

We have read and understood the Nomination Form and we wish to enter the above project for the BCA BIM Awards – Project Category 2017. We declare that the information provided in the Nomination Form is correct to the best of our knowledge. We also declare that the building / civil engineering works were carried out in accordance to the design as shown in the model submitted.

Client's Firm			
Signature and official stamp	Name :		
	Designation :		
	Company Name :		
	Company Address :		
	Tel No:	Fax No:	Email Address:

Signature and official stamp	Name :		
	Designation :		
	Company Name :		
	Company Address :		
	Tel No:	Fax No:	Email Address:

Signature and official stamp	Name :		
	Designation :		
	Company Name :		
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	Company Address :		
	Tel No:	Fax No:	Email Address:

Signature and official stamp	Name :		
	Designation :		
	Company Name :		
	Company Address :		
	Tel No:	Fax No:	Email Address:

Signature and official stamp	Name :		
	Designation :		
	Company Name :		
	Company Address :		
	Tel No:	Fax No:	Email Address:

GUIDELINES FOR THE PROJECT WRITE-UP

A 12 pages summarized write-up of the project MUST be submitted using the guidelines below:

I. Project Description

This section defines project information, core collaboration with the client, the BIM/VDC team, BIM/VDC project goals, and overall communication plan throughout the project's different stages.

Entries are required to articulate clearly how BIM/VDC objectives and goals are achieved, or being exceeded with quantification and self-verification. Entries shall also include BIM/VDC applications (BIM/VDC uses excluding modelling and submission) implemented in this project.

II. BIM/VDC Process Management, Collaboration Plan and Execution

This section describes the collaborative work process and management approach adopted by the client, the design consultants, fabricators, contractors and specialists to achieve the BIM/VDC project goals. They should be quantified, monitored, achieved and self-verified.

III. Innovative Process and Products

This section describes a detailed explanation of an innovative BIM/VDC-based work flow to address a specific issue and/or inefficiency essential to the realisation of the project goals. Entries shall include the use of innovative technology/products that allowed the project to achieve the project goals and yet was cost effective. Examples of innovative products include, but are not limited to: mobile apps, "add-ons/plugin-ins", cloud-based tools, augmented reality, etc.

IV. Outputs and Outcomes

This section records productivity gains from each key team member for this project through the use of BIM/VDC and how these were quantified, monitored, achieved or exceeded the typical results with self-verification. Entries may also include areas of transformation that the project has undergone to improve its productivity.

Appendix A. Project BIM Execution Plan

Appendix B. Profile of BIM/VDC Manager and BIM/VDC Coordinator

Other appendices (if any)