

**DESIGN AND ENGINEERING
SAFETY AWARDS 2021**

**BUILDING AND CONSTRUCTION
AUTHORITY**

BCA DESIGN AND ENGINEERING SAFETY AWARDS 2021

THE AWARDS

THE BCA DESIGN & ENGINEERING SAFETY AWARDS 2021 give recognition to the Qualified Person for Structural Works [QP(ST)], QP(ST)'s firm and the project team for ingenious design processes and solutions in overcoming project challenges to ensure safety in design, construction and maintenance of building and civil engineering projects locally and overseas.

The Awards aim to:-

- a) inculcate a strong safety culture among building professionals in developing our built environment
- b) give recognition to QP(ST)s and their firms for engineering achievements
- c) provide an avenue through which competition for work excellence can be enhanced.

CATEGORY OF AWARDS

The Awards will be given out for the following categories:

- **Residential**
- **Commercial**
- **Institutional and Industrial**
- **Civil Engineering**
- **Small Scale Projects (Project cost ≤ \$30 million)**
- **Overseas**

ELIGIBILITY

In order to be considered for the Awards, nominated projects must meet the following eligibility criteria:

- Local projects must have been completed and have obtained **TOP or CSC between 1st Jan 2018 and 31st Dec 2020**. For Overseas category, the project must be completed for operation or have obtained the TOP / CSC equivalent in the country between **1st Jan 2018 and 31st Dec 2020**.
- Projects that had been submitted for nomination previously will not be eligible.

NOMINATION

BCA is now inviting nominations for the 2021 Awards. Nominations shall be submitted using the prescribed forms. Each nomination shall be proposed by the Qualified Person for Structural Works [QP(ST)] or the professional engineering consultancy firm. Please refer to the Nomination Form for DESA 2021 for more information and details on the submission.

ASSESSMENT CRITERIA (NON-OVERSEAS CATEGORY)

The assessment criteria for nomination under all categories, except Overseas category, are shown in the table below.

Nomination will be judged by an Assessment Committee which comprises representatives from both public and private sectors of the building and construction industry.

Safety-related incidents, e.g. fatality, accidents that occurred during the project would be taken into consideration during the evaluation process for the award. Similarly, awards given for safety e.g. LTA safety, Design for Safety (wshe) awards etc would also be taken into consideration during the evaluation process for the award.

BUILDING and CIVIL ENGINEERING PROJECTS		
A	<i>Design</i>	70%
	<u>1) Structural Design processes and solutions that emphasize safety</u> Ingenious design processes and solutions to meet challenges posed by the unique nature of the project:	
	i) elegant choice of advanced structural system, robust design concept, and/or materials to address the challenges and risks;	20%
	ii) excellent adoption of innovative design solutions that benefit the project to address challenges and/or to improve safety;	10%
	iii) design solutions that can be constructed safely while achieving buildability and economy; and	10%
	iv) synergistic collaboration between structural engineer, architect, builder and other design professionals (peer review, specialists input) to enhance safety.	10%
	<u>2) Quality approach in design</u> i) comprehensive design analysis and checks; and unique specification to achieve the design intent ii) special design provisions and verification tests to enhance structural safety and serviceability	10%
	<u>3) Design for safe inspection and maintenance</u> i) well integrated design features for safe periodic inspection of structural elements and maintenance after completion	10%
B	<i>Construction</i>	30%
	<u>1) Construction quality and safety</u> Commitment to high standards of site management and building safety beyond statutory duties:	
	i) review and evaluation of erection methods, construction sequence and temporary works to enhance safety during construction;	10%
	ii) supervision, inspection regime, QA/QC plan, testing and monitoring programme	10%
	<u>2) Public Safety</u> Minimise impact of construction activities on the immediate neighbourhood:	
	i) Provision of effective construction methodology, structural systems and comprehensive monitoring to minimise impact on adjacent buildings	10%

ASSESSMENT CRITERIA (OVERSEAS CATEGORY)

The assessment criteria for nomination under Overseas Category are shown in the table below.

Nomination will be judged by an Assessment Committee which comprises representatives from both public and private sectors of the building and construction industry.

Safety-related incidents, e.g. fatality, accidents that occurred during the project would be taken into consideration during the evaluation process for the award. Similarly, awards given for safety e.g. LTA safety, Design for Safety (wshc) awards etc would also be taken into consideration during the evaluation process for the award.

	BUILDING and CIVIL ENGINEERING PROJECTS	
A	<i>Design</i>	100%
	<u>1) Structural Design processes and solutions that emphasize safety</u> Ingenious design processes and solutions to meet challenges posed by the unique nature of the project: <ul style="list-style-type: none"> i) elegant choice of advanced structural system, robust design concept, and/or materials to address the challenges and risks; 25% ii) excellent adoption of innovative design solutions that benefit the project to address challenges and/or to improve safety; 15% iii) design solutions that can be constructed safely while achieving buildability and economy; and 15% iv) synergistic collaboration between structural engineer, architect, builder and other design professionals (peer review, specialists input) to enhance safety. 10% v) any special design input specific to the country. 5% 	
	<u>2) Quality approach in design</u> <ul style="list-style-type: none"> i) comprehensive design analysis and checks; and unique specification to achieve the design intent ii) special design provisions and verification tests to enhance structural safety and serviceability 	20%
	<u>3) Design for safe inspection and maintenance</u> <ul style="list-style-type: none"> i) well integrated design features for safe periodic inspection of structural elements and maintenance after completion 	10%

PRESENTATION TO ASSESSMENT COMMITTEE

Only shortlisted nominees will be required to put up a presentation to the Assessment Committee on their nominated projects. The presentation will likely be held in **Mar/Apr 2021** and it can be in Microsoft Powerpoint, multi-media and /or video presentation highlighting the distinctive features of the project and addressing the evaluation criteria. The presentation shall not be more than 15 minutes and will be followed by a question and answer session.

ANNOUNCEMENT OF AWARDS

The Awards will only be conferred to projects that have achieved the highest standards of design and engineering for safety. Merit award may be presented to projects which have achieved a high degree of commendation but not sufficient to win the BCA Design & Engineering Safety Award.

Winners of the BCA Design & Engineering Safety Awards will receive a specially-designed plaque. In addition, the project parties who had contributed to ensuring safety in design, construction and maintenance of the award winning project will be presented with a Certificate each. The winning projects will receive the Award from the Guest-of-Honour at the BCA Awards Night.

BCA will notify all nominees of the results which will also be released to the press. All enquiries concerning entries for the BCA Design & Engineering Safety Awards shall be officially written to the following address:

The Secretary
BCA Design & Engineering Safety Awards 2021
Building and Construction Authority
52 Jurong Gateway Road #12-01
Singapore 608550

Attention: Er Ng Kay Beng
Email address: ng_kay_beng@bca.gov.sg
Tel : 6804 4622 Fax : 6334 2561

TERMS AND CONDITIONS

Nominees shall agree to abide by the following terms and conditions governing the Awards:

1. All materials submitted in connection with the entries shall become the property of Building and Construction Authority (the BCA).
2. Award recipients are expected 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.
3. Materials (including but not limited to photographs) might be submitted in connection with or subsequent to the entries or at any time after the conferment of the awards. BCA reserves the right to use the abovementioned material in any way it deems fit, without payment of fees or royalties, and regardless of the results of the award. This includes, but is not limited to, the presentation, publication and/or exhibition of photographs, materials and/or names.
4. Applicants shall fully indemnify BCA and hold it harmless, against any claim, liability, responsibility or damages which may result from BCA's use of the materials submitted by the entrants in connection with or subsequent to the entries or at any time after the conferment of the awards.
5. The Assessment Committee reserves the right to defer judgment if at any time during the assessment process, any development or incident arise concerning any party linked to the applicant or project, which is likely to result in negative publicity to the award, BCA, the construction industry and/or other awards or schemes administered by BCA. The duration of any such deferment shall be at the sole discretion of the Assessment Committee.
6. 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 negative publicity to the award, BCA, the construction industry and/or other awards or schemes administered by BCA. Where there is more than one applicant for the award per project, BCA may withdraw or withhold the award in respect of one or more applicants notwithstanding that the other applicant(s) are conferred the award. The duration and extent of any such withdrawal or withholding shall be at the sole discretion of the BCA.

REQUIREMENTS OF ENTRY

Nominations must be made on the Nomination Form which should be submitted by **19 Feb 2021** to:

The Secretary
BCA Design & Engineering Safety Awards 2021
Building and Construction Authority
52 Jurong Gateway Road #12-01
Singapore 608550