

Project of the Year			
Key Criteria	Weightage		
1. Sustainability (SUS)	20%		
a) Green Mark or Green Features for Civil/Infra Project			
b) Facilities Management Best Practices			
Note: If there is no Green Mark rating for Civil/Infrastructure project, please submit the Green Features (Refer to the Sustainability section for detail).			
2. Advanced Manufacturing and Assembly	20%		
a) Adoption of DfMA, lean construction principles, and/or robotics and automation to achieve Productivity and Quality			
b) Effective implementation of DfMA, lean construction principles, and/or robotics and automation			
c) Outcome/s achieved			
3. Integrated Digital Delivery (IDD)	20%		
a) Value Chain/Process Integration			
b) Data Driven Approach			
c) Measurable outcomes from adoption of Innovative Digital Solutions			
4. Workforce Transformation	20%		
Implemented enhanced measures to recruit better quality skilled foreign workers and local workforce that result in project productivity improvement			
Implemented (i) worker/site management systems/technologies that better monitor and deploy skilled foreign workers for project productivity improvement and/or improve site safety and/or (ii) better automation and digitalisation efforts to reduce manpower reliance			
Training and capability development in transformation areas across value chain partners in the project at both rank-and-file level and professional level			
Implemented Built Environment Culture of Appreciation, Respect and Empathy (BE CARE) Charter based on the three pillars <sup>1</sup> to all project personnels, printed out, signed and displayed the Charter <sup>2</sup> and has pledged their commitment to the Charter <sup>3</sup> .			
<sup>1</sup> <a href="https://www1.bca.gov.sg/buildsg/manpower/taskforce-for-architectural-and-engineering-consultants/be-care-charter">https://www1.bca.gov.sg/buildsg/manpower/taskforce-for-architectural-and-engineering-consultants/be-care-charter</a> <sup>2</sup> <a href="https://go.gov.sg/be-care-charter">https://go.gov.sg/be-care-charter</a> <sup>3</sup> <a href="https://form.gov.sg/68b6ff0665cd36be285cfadc">https://form.gov.sg/68b6ff0665cd36be285cfadc</a>			
5. Value Chain Transformation/Collaboration	20%		
a) Initiatives that project owner spearheaded to initiate change and achieve better outcomes.			
b) Initiatives that main contractor spearheaded with its subcontractors/specialists to initiate change and achieve better outcomes.			
6. Key People	Bonus 5%		
Key personnel who drove transformational initiatives within their project that resulted in better outcomes for the project or their firms.			

## PROJECT INFORMATION

	Input	Attachments	Remarks
<b>1. General</b>			
a	Project Title		
b	Category of Nomination: (Commercial/ Mixed Dev/ Residential, etc)		
c	BCA Building Plan (BP) Number		
d	MOM Workplace Number		
e	Project Address		
f	TOP (Temporary Occupation Permit) or CSC (Certificate of Statutory Completion)	Certificate of TOP / CSC	
g	Type of Contract		e.g. Design & Build, Partial Design & Build, Alternate Design, Build only, etc.
h	Form of Contract		e.g. PSSCOC, REDAS, SIA, FIDIC, etc.
i	Total Construction Cost		Refers to the cost of foundation works including piling, structural works, architectural works, M&E works, fixtures & fittings and related external works and facilities. Development charges, consultancy fees and other government charges are to be excluded.
j	Builder's Final Contract Sum		
k	Total Gross Floor Area (GFA)		The Gross Floor Area (GFA) has the same definition as that given in the latest relevant Urban Redevelopment Authority Circular or Handbook on
l	Total Constructed Floor Area (CFA) (m2)		Refers to the total constructed floor area which shall include basement, superstructure, environmental deck, roof, multi-storey carpark and other areas
m	Superstructure CFA (m2)		
n	Substructure CFA (m2)		
o	Number of Units (only for residential project)		
p	Defect Liability Period (DLP) (mths)		
q	Start and End of DLP		
<b>2. Safety and Health Management</b>			
a	Safety Award Received	Award Certificate	
b	SWO (Stop Work Order) by MOM		
c	MOM's Demerit Point		
d	Number of Fatality		
a	Fatal Injury Rate		Case(s) per 100,000 workers
b	Major Injury Rate		Case(s) per 100,000 workers
c	Minor Injury Rate		Case(s) per 100,000 workers
<b>3. Environmental, Green and Gracious Management</b>			
a	BCA Green Mark Certification Rating and GM reference number	Letter of Awards(LOA)	
		Letter of Clearance(LOC)	
b	Environmental Award	Award Certificate	
c	BCA Green and Gracious Builder Certification Rating	GGBS Certificate	
d	SWO (Stop Work Order) by NEA		
<b>4. Complaints and how was it addressed</b>			
a	Before TOP		
	Case 1		Insert summary
	Case 2		Insert summary
	Case 3		Insert summary
	(Please add row if necessary ...)		
b	During DLP		
	Case 1		Insert summary
	Case 2		Insert summary
	Case 3		Insert summary
	(Please add row if necessary ...)		

Media Materials	
1	Minimum two hi-resolution digital photographs with at least one photograph showing the project in its environment.
2	Other supporting visuals and digital content (e.g. videos, interviews, renderings etc.) that best represent your entry which can be used for pre/post award publicity. It can cover project initiatives, firms' transformation initiatives, or people in action.
3	Hi-resolution company logos of all project parties listed under "Project Team Endorsement"

## 1. SUSTAINABILITY

This section aims to assess project's Sustainability outcomes. Describe your efforts and provide supporting documents (if required) to the following:

Note:

For building projects, please provide input for 1.1 - 2.6 (row 8-24).

For civil/infrastructure projects, pls provide input for item 1.1 - 2.5 (row 29-44)

Buildings Projects (residential, commercial/mixed development, industrial, institutional buildings)		
		Inputs
<b>1</b>	<b>Green Mark / Green Features</b>	
1.1	What was the Green Mark Award Rating attained for project? Please attach the Letter of Awards.	
1.2	Green Mark Reference Number (GMxxxx/xx/xxxx)	
1.3	Has the project completed green mark verification? If yes, pls attach the Letter of Clearance (LOC)	
1.4	What are the top 3 most transformational green features/initiatives for the project? The write-up should describe the impact of the green features/initiatives/technology & innovation on project sustainability outcomes and attach photos if applicable.	
<b>2</b>	<b>Facilities Management Best Practices</b>	
2.1	Elaborate on the use of Common Data Environment (CDE) platforms for FM and structured data standard setup to facilitate data sharing and effective cross-disciplinary collaboration and coordination.	
2.2	What are the use cases implemented using CDE platform for FM? (e.g. Energy Optimisation, Health & Comfort, Space Optimisation etc)	
2.3	Did your project attain the Green Mark 2021 - Maintainability badge? If yes, to provide GM reference number and skip qn 2.4.	
2.4	What are Design for Maintainability strategies deployed in the project with respect to the following areas?	
	1. Collaboration - involvement of FM during design and construction stage meetings	
	2. Access – Access to entire façade by BMU, gondola or MEWP to facilitate cleaning, repair and replacement, and inspectino of entire facade.	
	3. Access – Adequate access space for chiller plant equipment (i.e. chiller, pump, cooling tower) requiring frequent maintenance. Note: Please refer to Code for Environmental Sustainability of Buildings, NRB06-1,-2,-3 for the access space requirements.	
	4. Materials – Optimal selection of durable material (i.e. water absorption not exceeding 0.5%) for outdoor weather-exposed fixed furniture.	
	5. Technology – Implementation of smart FM solution (e.g. predictive maintenance) with outcome-based maintenance contract to improve maintenance efficiency (labour efficient and cost effective)	

Civil and Infrastructure Projects		
		Inputs
<b>1</b>	<b>Green Features</b>	
<b>1.1</b>	<b>Sustainable Construction - Decarbonisation of Construction Processes</b>	
1.1	<u>Sustainable Construction - Decarbonisation of Construction Processes</u> - Provision of renewable energy source for construction - Electrification/ Use of low carbon technologies and solutions - Low carbon concrete/ alternative construction materials/ recycled materials/ sustainable products with at least SGBP 2 ticks or equivalent	
1.2	<u>Energy</u> - Demonstrate energy savings of the project compared to a code compliance facility or industry norm - Provision of renewable energy source for operational use - Provision of energy monitoring system/dashboard for majoy energy uses	
1.3	<u>Landscape, ecology and land efficiency</u> - Demonstrate the optimisation of land use through exploring alternative design layout - Environmental Risk Analysis - include relevant impact such as, but not limited to, soil contamination, air pollution, noise health effects, and ecology impacts, including endangered species, geological hazards, and water pollution	
1.4	<u>Innovation</u> - Other environment-friendly features not mentioned in the criteria above. These could vary widely for different types of infrastructure projects. To quantify and justify the positive environmental impacts and how it contributes to wider environmental impact.	
<b>2</b>	<b>Facilities Management Best Practices</b>	
2.1	What are the SMART FM solutions in the project that improves energy optimisation and/or health and comfort?	
2.2	Did your project attain the Green Mark 2021 - Maintainability badge? If yes, to provide GM reference number and skip qn 2.3.	
2.3	What are Design for Maintainability strategies deployed in the project with respect to the following areas?	
	1. Collaboration - involvement of FM during design and construction stage meetings	
	2. Access – Access to entire façade by BMU, gondola or MEWP to facilitate cleaning, repair and replacement, and inspection of entire facade.	
	3. Access – Adequate access space for chiller plant equipment (i.e. chiller, pump, cooling tower) requiring frequent maintenance. Note: Please refer to Code for Environmental Sustainability of Buildings, NRB06-1, -2, -3 for the access space requirements.	
	4. Materials – Optimal selection of durable material (i.e. water absorption not exceeding 0.5%) for outdoor weather-exposed fixed furniture.	

## 2. ADVANCED MANUFACTURING AND ASSEMBLY

This section aims to assess Advanced Manufacturing and Assembly initiatives for the design and construction of the project. Describe your efforts and provide supporting documents (if required) to the following:

		Inputs (all highlighted initiatives must be accompanied by corresponding outcomes – quantifiable where possible)
<b>1</b>	<b>Design for Manufacturing and Assembly (DfMA)</b>	
i.	Describe initiative/s adopted for DfMA, and if each was adopted beyond regulatory and contractual requirements. Highlight the initiatives that are innovative.	
ii.	Elaborate on what was done to ensure effective implementation of initiative/s, including how challenges (if any) were addressed. Highlight innovation/process re-engineering made to enable effective implementation.	
iii.	Provide corresponding outcome/s (e.g. savings (cost, time, manpower), safety, reduced/averted rework, etc) for all highlighted initiatives. Outcomes should be quantified as much as possible.	
<b>2</b>	<b>Lean Construction Principles</b>	
i.	Describe initiative/s adopted for lean construction, and if each was adopted beyond regulatory and contractual requirements. Highlight the initiatives that are innovative.	
ii.	Elaborate on what was done to ensure effective implementation of initiative/s, including how challenges (if any) were addressed. Highlight innovation/process re-engineering made to enable effective implementation.	
iii.	Provide corresponding outcome/s (e.g. savings (cost, time, manpower), safety, reduced/averted rework, etc) for all highlighted initiatives. Outcomes should be quantified as much as possible.	
<b>3</b>	<b>Robotics and Automation</b>	
i.	Describe initiative/s adopted for robotics and automation, and if each was adopted beyond regulatory and contractual requirements. Highlight the initiatives that are innovative.	
ii.	Elaborate on what was done to ensure effective implementation of initiative/s, including how challenges (if any) were addressed. Highlight innovation/process re-engineering made to enable effective implementation.	
iii.	Provide corresponding outcome/s (e.g. savings (cost, time, manpower), safety, reduced/averted rework, etc) for all highlighted initiatives. Outcomes should be quantified as much as possible.	
<b>4</b>	<b>Site productivity</b>	
i.	Submit complete set of productivity figures, including on and off-site unique worker count (based on ePSS format)	

### 3. INTEGRATED DIGITAL DELIVERY

This section aims to assess use of Integrated Digital Delivery (IDD) to drive Integrated Planning and Design (IPD\*) and deliver better project outcomes. Describe your efforts and provide supporting documents (if required) to the following:

		Inputs (all highlighted initiatives must reflect corresponding outcomes – quantifiable where possible)
<b>1</b>	<b>Adoption of IDD to enable data-driven decision-making</b>	
i.	Describe initiative/s adopted to enable data-driven decision-making, and if each was adopted beyond regulatory and contractual requirements. Highlight the initiatives that are innovative.	
ii.	Elaborate on what was done to ensure effective implementation of digital solutions, including how challenges (if any) were addressed. Highlight innovation/process re-engineering made to enable effective implementation and achieve productivity outcomes.	
iii.	Provide corresponding outcome/s (e.g. savings (cost, time, manpower), safety, reduced/averted rework, etc) for all highlighted initiatives. Outcomes should be quantified as much as possible.	
<b>2</b>	<b>Adoption of IDD to enable value chain/ process integration</b>	
i.	Describe initiative/s adopted to enable value chain/ process integration, and if each was adopted beyond regulatory and contractual requirements. Highlight the initiatives that are innovative.	
ii.	Elaborate on what was done to ensure effective implementation of initiative/s, including how challenges (if any) were addressed. Highlight innovation/process re-engineering made to enable effective implementation and achieve productivity outcomes.	
iii.	Provide corresponding outcome/s (e.g. savings (cost, time, manpower), safety, reduced/averted rework, etc) for all highlighted initiatives. Outcomes should be quantified as much as possible.	
<b>3</b>	<b>Adoption of IDD to enable productivity improvement</b>	
i.	Describe initiative/s adopted to enable productivity improvement, and if each was adopted beyond regulatory and contractual requirements. Highlight the initiatives that are innovative.	
ii.	Elaborate on what was done to ensure effective implementation of initiative/s, including how challenges (if any) were addressed. Highlight innovation/process re-engineering made to enable effective implementation and achieve productivity outcomes.	
iii.	Provide corresponding outcome/s (e.g. savings (cost, time, manpower), safety, reduced/averted rework, etc) for all highlighted initiatives. Outcomes should be quantified as much as possible.	

References
<p>1 <b>IPD Media Release 2022*</b>: <a href="https://www1.bca.gov.sg/about-us/news-and-publications/media-releases/2022/09/06/built-environment-industry-transformation-map-to-facilitate-integration-and-collaborative-breakthrough-across-the-entire-value-chain">https://www1.bca.gov.sg/about-us/news-and-publications/media-releases/2022/09/06/built-environment-industry-transformation-map-to-facilitate-integration-and-collaborative-breakthrough-across-the-entire-value-chain</a></p> <p>2 <b>IDD Technical Guide</b>: <a href="https://www1.bca.gov.sg/docs/default-source/docs-corp-buildsg/integrated-digital-delivery-(idd)/industry_leaders_quick_start_guide_idd.pdf">https://www1.bca.gov.sg/docs/default-source/docs-corp-buildsg/integrated-digital-delivery-(idd)/industry_leaders_quick_start_guide_idd.pdf</a></p> <p>3 <b>PIP IDD FAQ Annex 2</b>: <a href="https://www1.bca.gov.sg/docs/default-source/docs-corp-buildsg/buildsg-transformation-fund/pip-faqs.pdf?sfvrsn=b84b8845_2">https://www1.bca.gov.sg/docs/default-source/docs-corp-buildsg/buildsg-transformation-fund/pip-faqs.pdf?sfvrsn=b84b8845_2</a></p> <p>4 <b>CDE Use cases</b>: <a href="https://safe.menlosecurity.com/https://www1-bca-gov-sg-admin.cwp.sg/docs/default-source/idd/idd-essential-use-cases.pdf?sfvrsn=d0d1b485_2">https://safe.menlosecurity.com/https://www1-bca-gov-sg-admin.cwp.sg/docs/default-source/idd/idd-essential-use-cases.pdf?sfvrsn=d0d1b485_2</a></p>

#### 4. WORKFORCE TRANSFORMATION

This section aims to assess manpower initiatives that the client/ main contractor/ consultant spearheaded to initiate change and achieve better project performances which has improved the workforce and HR practices across all project personnel. The write-up should describe your efforts, highlight outcomes and project personnels' capability building, e.g. faster project delivery, higher standard/quality. We strongly encourage the applicants to quantify the enhancement/outcomes/achievement in the following four areas:

		Inputs
1	Implemented enhanced measures to recruit better quality skilled foreign workers and local workforce that result in project productivity improvement	
2	Implemented (i) worker/site management systems/technologies that better monitor and deploy skilled foreign workers for project productivity improvement and/or improve site safety and/or (ii) better automation and digitalisation efforts to reduce manpower reliance	
3	Training and capability development in transformation areas across value chain partners in the project at both rank-and-file level and professional level	
4	Highlight significant good outcome and practices arising from the Implementation of Built Environment Culture of Appreciation, Respect and Empathy (BE CARE) Charter based on the three pillars <sup>1</sup> to all project personnels, printed out, signed and displayed the Charter <sup>2</sup> and has pledged their commitment to the Charter <sup>3</sup> .  <sup>1</sup> <a href="https://www1.bca.gov.sg/buildsg/manpower/taskforce-for-architectural-and-engineering-consultants/be-care-charter">https://www1.bca.gov.sg/buildsg/manpower/taskforce-for-architectural-and-engineering-consultants/be-care-charter</a> <sup>2</sup> <a href="https://go.gov.sg/be-care-charter">https://go.gov.sg/be-care-charter</a> <sup>3</sup> <a href="https://form.gov.sg/68b6ff0665cd36be285cfadc">https://form.gov.sg/68b6ff0665cd36be285cfadc</a>	please provide supporting documents e.g. photos, scanned copies of documents, etc

## 5. VALUE CHAIN TRANSFORMATION

This section aims to assess project team's achievements in working collaboratively to drive changes and deliver impactful outcomes to project, firms, and people involved in the project.

		Inputs
1	Initiatives that project owner initiated to drive improvement and achieve better outcomes	e.g. - Adoption of new systems or processes that sharpened project delivery capabilities - Adoption of fair practices that encourage and incentivise innovation, which resulted in faster project delivery. (e.g. Collaborative Contracting, Early Contractor Involvement) - Encouraging team participation in new initiatives such as CX
2	Initiatives that main contractor initiated with its subcontractors /specialists to drive improvement and achieve better outcomes, e.g. LEAN	e.g. - Adoption of new system or process that sharpened project delivery capability, such as LEAN - Adoption of progressive contracting and/ or fair practices that encourage and incentivise innovation, e.g. Early Sub-contractor/Specialist Involvement - Development of long term partnership beyond current project - Capability building of value chain

## 6. TRANSFORMATION CHAMPIONS

Applicants may earn **an additional 5 points** by providing information about key personnel who drove transformational initiatives within their project that resulted in better outcomes for the project or their firms. These transformational initiatives are not limited to those already mentioned in your submission and may include softer initiatives, improvements to working environment and culture etc.

Up to **three** individuals (from different firms) may be nominated in this section.

Please highlight the individuals who have helped to make transformation a reality in your project.	
<b>i. Profile Picture</b>	Add a photo
<b>ii. Their Expertise and Interests</b>	Share a brief overview of their relevant background, personal insights, motivations, convictions that propelled these transformation goals
<b>iii. Their Impact</b>	Detail their role and specifically how their actions directly contributed to the project/company's transformation
<b>iv. Contact</b>	Email address

**Note:**

1. BCA may request that selected nominees join in the project presentations (for finalists) for further interviews.
2. This submission is not indicative of a media feature. BCA will contact the applicant further if selected for profiling.



## PROJECT TEAM ENDORSEMENT

### Declaration:

We have read and understood the eligibility requirements and wish to nominate the following project for Projects of the Year.

We declare that:

1. all information provided here is true and accurate to the best of our knowledge.
2. the project does not have any safety-related fatalities and is currently not involved in any legal dispute pertaining to any complaint on defects in the project.

We understand BCA reserves the right to defer judgement on the project should any legal dispute arises during the assessment process.

Project name (In English and Chinese)	
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Developer / Client		
Signature and official stamp	Name	
	Designation	
	Firm's name	
	Firm's address	
	Tel nos	
	Email	

Builder / Main Contractor		
Signature and official stamp	Name	
	Designation	
	Firm's name	
	Firm's address	
	Tel nos	
	Email	

Project Manager (Firm)		
Signature and official stamp	Name	
	Designation	
	Firm's name	
	Firm's address	
	Tel nos	
	Email	

Architect		
Signature and official stamp	Name	
	Designation	
	Firm's name	
	Firm's address	
	Tel nos	
	Email	

Civil & Structural Consultant		
Signature and official stamp	Name	
	Designation	
	Firm's name	
	Firm's address	
	Tel nos	
	Email	

Mechanical & Electrical Consultant		
Signature and official stamp	Name	
	Designation	
	Firm's name	
	Firm's address	
	Tel nos	
	Email	

Quantity Surveying Consultant		
Signature and official stamp	Name	
	Designation	
	Firm's name	
	Firm's address	
	Tel nos	
	Email	

Key Specialist (if any)		
Signature and official stamp	Name	
	Designation	
	Firm's name	
	Firm's address	
	Tel nos	
	Email	

### NOTE:

The endorsement of the nomination should be from the top management.

For key specialists, do list critical ones that were involved (particularly IDD, DFMA, Sustainability).

For projects selected for video filming, minimally all the firms in this page should be represented.