The BCA Built Environment Leadership Award was introduced in 2009 to recognise outstanding industry organisations such as developers, consultants (Architectural, Structural and M&E) and builders, which have demonstrated excellence and leadership in shaping a safe, high quality, sustainable, friendly and productive built environment in Singapore. It also aims to serve as a comprehensive roadmap for the building and construction industry to level up and spur these organisations towards higher degree of professionalism with enhanced capabilities and competitiveness.

There are four types of Award

- **Platinum Star, Platinum, Gold Plus and Gold**

The Platinum Star was introduced in 2018. This top award is conferred on organisations that have fulfilled the following criteria:

- Meet all requirements of a Platinum award; and
- Held the Platinum award for at least five years

The Awards will be given out under the following six categories:

1. Developer / Owner
2. Architectural Consultant
3. Structural Consultant
4. M&E Consultant
5. Multi-Disciplinary Consultant
6. Builder
KEY ACHIEVEMENTS (2016-2018)

System

Result
• BCA Awards
  Construction Productivity Awards, Construction Excellence Awards, Building Information Modelling (BIM) Awards, Green Mark Awards, Green & Gracious Builder Award, Design & Engineering Safety Excellence Awards, Built Environment Leadership Award, etc.

• Other Local Awards
  Singapore International Chamber of Commerce (SICC) – Most Scalable Collaboration Award, SCAL Productivity and Innovation Award

• Innovations
  a) Design for Manufacturing & Assembly (DfMA) – successfully developed its very own PPVC solution (patented) and PBU solution, incorporating advanced ultra-high performance ductile concrete.
  b) Integrated Digital Delivery (IDD) – leverages on its in-house developed digital capability to further embrace IDD, including successfully developed an innovative platform enabling ordering of steel rebar and real-time updating on progress of workflow through BIM.
  c) Innovative Construction equipment and methods – piloted many innovative construction equipment and methods in its projects.

• International Awards
  RoSPA Occupational Health and Safety Awards, building SMART (Hong Kong) BIM Award, building SMART International Award, etc.
KEY ACHIEVEMENTS (2015-2018)

System

Result
• BCA Awards
Design and Engineering Safety Excellence Award, Construction Excellence Awards, Green Mark Awards, Construction Productivity Awards, Building Information Modelling (BIM) Awards, etc.

• Other Local Awards
President’s Design Award, SIA Architectural Design Awards, NParks Skyrise Greenery Awards, HDB Awards, etc.

• Innovations
  a) Adoption of deep seated Innovative Building Information technology employing Virtual Design & Construction and delivery of BIM projects allowing seamless and high productivity DfMA continuation from design to construction of projects.
  b) Achieving the tallest steel PPVC Construction in Singapore on the Nanyang Crescent Hall of Residences NTU at the time of completion in 2017. This is a ground breaking technology in the built environment sector that is sustainable and productive on a large scale basis.
  c) Innovative, cost effective and robust transfer structures incorporating redundancy and seismic design in high-rise tall buildings in multiple award winning iconic projects (E.g. The Scotts Tower and the Oasia Downtown Hotel).

• International Awards
FIABCI PRIX d’Excellence Award, Council on Tall Buildings and Urban Habitat (CTBUH) Award, etc.
KEY ACHIEVEMENTS (2016-2018)

System

Result
• BCA Awards
  Design and Engineering Safety Excellence Awards, Construction Excellence Awards, Construction Productivity Awards, Green Mark Awards, etc.

• Other Local Awards
  Singapore Apex Corporate Sustainability Awards, IStructE Singapore Structural Awards, etc.

• Innovations
  a) A new Innovative hybrid steel-concrete system, namely Form-Prefabricated Steel Reinforced Concrete (F-PSRC) columns & Thin Steel-plate Composite (TSC) Beams adopted at JTC Logistics Hub project.
  b) Mass Engineered Timber (MET) Steel composite structure implemented at SMU-X project.
  c) Smart buildings – Operation Centric Smart Control implemented at SMU-X project.

• International Awards
  ACES Awards for Asia’s Most Influential Companies, Singapore Apex Corporate Sustainability Awards, etc.
KEY ACHIEVEMENTS (2014-2018)

System

Result
• BCA Awards
  Construction Excellence Awards, Construction Productivity Awards, Green Mark Awards, Building Information Modelling (BIM) Awards, SGBC-BCA Sustainability Leadership Awards, etc.

• Other Local Awards
  FISAC Fire Safety Design Excellence Award, etc.

• Innovations
  a) Kinetic Wireless Switch – battery free and eliminates wiring and conduits for lighting switches
  b) Lab Demand Control Ventilation (DCV) – vary the air change according to the chemical level in the laboratory.
  c) BIM-centric HVAC ETTV & SpHA Sprinkler full hydraulic systems – perform M&E designs and calculations in accordance to Singapore’s Code of Practices.

• International Awards
  ASEAN Energy awards, Asia Green Building Awards, MIPIM Asia Award, CTBUH Best Tall Building Award, etc.
KEY ACHIEVEMENTS (2016-2018)

System

Result
• BCA Awards
  Quality Excellence Awards, Construction Excellence Awards, Green Mark Award, Construction Productivity Awards, Green Mark Awards, Green & Gracious Builder Awards – Star, BIM Awards, etc.
• Other Local Awards
  SCAL Productivity and Innovation Awards, MOM Dormitory Award, etc.
• Innovations
  a) Defect Inspection and Rectification Management (DIRM) - adopted for unit inspection, during the Defects Liability Period (DLP) and post DLP phase. It is a cloud based solution where all key stakeholders on the project could access information, lodge defects and check the status of the defects real-time.
  b) Lean Construction Management (LCM) - use of Lean PlanDo tool from Lean Station. It is currently being implemented at several projects i.e. JTC Furniture Hub (JTCFH), Yio Chu Kang EC, Anchorvale EC and Nexus International School (NISS). It eliminated process wastes in the building construction project and brought about positive changes to productivity.
  c) Creative application of Virtual Design and Construction (VDC) - the VDC framework consists of Integrated Concurrent Engineering (ICE), Project Production Management (PPM), Building Information Modelling (BIM) and Metrics.
• International Awards
  RoSPA Occupational Health & Safety Awards.
KEY ACHIEVEMENTS (2016-2018)

System

Result

• BCA Awards
  Design and Engineering Safety Excellence Awards, Construction Excellence Awards, Construction Productivity Awards, Universal Design Mark Awards, Green Mark Awards, etc..

• Other Local Awards
  HDB Design Awards, HDB Engineering Awards, HDB Innovative Engineering Awards, LEAF Awards, SILA Awards, MND Minister Award (Team), etc.

• Innovations
  a) Housing Configurator – the use of computational BIM to carry out manual process and design work.
  b) Interactive Immersive Virtual Reality System (IVRS) – bringing Virtual Reality to the next stage.
  c) Digital Facilities Management - integration of BIM and SMART FM technologies.

• International Awards
  BCI Asia Top 10 Architects, Malaysia Landscape Architecture Awards, etc.
KEY ACHIEVEMENTS (2016-2018)

System

Result
• BCA Awards
  Construction Excellence Awards, Construction Productivity Awards, Green Mark Awards, BCA BIM Award, etc.
• Other Local Awards
  URA Architectural Heritage Award, ACES Design Excellence Awards, LEAF Award, FuturARC Green Leadership Award, etc.
• Innovations
  a) Leveraging on DfMA for higher quality and productivity – designed MEP modules.
  b) Energy efficient ACMV systems – Dual function air-con ducts, jet slots diffusers, free cooling from heat pumps, etc.
  c) Enhanced Safety and user friendly designs – Smart nurse call system for healthcare facilities, smart carpark system integrated with interactive carpark kiosks, etc.
• International Awards
  Building Better Healthcare Award (UK).
<table>
<thead>
<tr>
<th>NAME OF FIRM</th>
<th>CATEGORY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tiong Seng Contractors (Private) Limited</td>
<td>Builder</td>
</tr>
<tr>
<td>NAME OF FIRM</td>
<td>CATEGORY</td>
</tr>
<tr>
<td>------------------------------------------</td>
<td>--------------------------------------------------------------------------</td>
</tr>
<tr>
<td>KTP Consultants Pte Ltd</td>
<td>Structural Consultant</td>
</tr>
<tr>
<td>Meinhardt (Singapore) Pte Ltd</td>
<td>Multi-Disciplinary (Structural and M&amp;E Consultants)</td>
</tr>
<tr>
<td>Squire Mech Private Limited</td>
<td>M&amp;E Consultant</td>
</tr>
<tr>
<td>Straits Construction Singapore Pte Ltd</td>
<td>Builder</td>
</tr>
<tr>
<td>Surbana Jurong Consultants Pte Ltd</td>
<td>Multi-Disciplinary (Architectural, Structural and M&amp;E Consultants)</td>
</tr>
<tr>
<td>WSP Consultancy Pte. Ltd.</td>
<td>Multi-Disciplinary (Architectural, Structural and M&amp;E Consultants)</td>
</tr>
</tbody>
</table>