ANNEX C: FACTSHEET ON PROJECT OF THE YEAR AND COMPANY OF THE YEAR AWARD

I. BCA's Project of the Year Award

II. BCA's Company of the Year Award

III. Link to video showcase of this year's Company of the Year and Project of the Year award winners: https://go.gov.sg/bca-awards-2025-videos

I. BCA'S PROJECT OF THE YEAR AWARD

The Project of the Year Award (formerly known as BCA Built Environment Transformation Award) recognises building projects and civil / infrastructure projects that have demonstrated strong commitment and effort to transform. The award seeks to encourage project parties to work collaboratively, drive changes, and attain impactful outcomes in their project. There are six award categories, namely **Mixed-use** Buildings, **Commercial** Buildings, **Industrial** Buildings, **Institutional** Buildings, **Infrastructure** Projects, and **Residential** buildings.

More details can be found on our BCA website: https://go.gov.sg/bca-poy

2 This year's winners are:

i. Mixed-use Buildings

- Punggol Digital District

ii. Commercial Buildings

- Mandai Rainforest Resort by Banyan Tree
- Keppel South Central

iii. Industrial Buildings

- 36 Tuas Road

iv. Institutional Buildings

- New CMPB

v. Infrastructure Projects

- Bayshore Station

No winners were awarded for the Residential Buildings category this year.

i. Mixed-use Buildings

Project Name

Punggol Digital District

Project Team	
Developer	JTC Corporation
Builder	Woh Hup (Pte) Ltd
Architect	WOHA Architects Pte Ltd
Civil & Structural	KTP Consultants Pte Ltd
Mechanical & Electrical	Beca Carter Hollings & Ferner Pte Ltd
Quantity Surveyor	AECOM Cost Consulting and Project Management (Singapore) Pte Ltd

Project Description

Areas where the project has gone beyond conventional practices:

1. **Advanced Manufacturing and Assembly (AMA)** –
    - Adoption of Mass Engineered Timber (MET) – This resulted in up to 40% savings in time/productivity compared to Reinforced Concrete design.
    - Adoption of multiple productive Mechanical Electrical & Plumbing (MEP) practices – all of which achieved >25% productivity improvement at the trade level.

2. **Digitalisation** –
    - Establishment of a full Building Information Modelling (BIM) approach – use of digital mock-ups and VR simulations, progress tracking using drone-based photogrammetry and 360-degree site inspections. Increased digital integration in fabrication and safety with QR-coded precast tracking and facial recognition site access.
    - The team was able to process monthly payment claims in up to 29% less time. 60% more BIM-based drawings were produced, site progress reporting was17% more productive, and the team achieved over 21% productivity gains in coordination, documentation, and claims (equivalent to 75 man-days saved across teams).

3. **Value Chain Transformation** –
    - Pioneered the adoption of the Public Sector Standard Conditions of Contract (PSSCOC) Option Module for Collaborative Contracting.

- First mega project to adopt virtual Temporary Occupation Permit (TOP).

ii. Commercial Buildings

a) Mandai Rainforest Resort by Banyan Tree

Project Name

Mandai Rainforest Resort by Banyan Tree

Project Team	
Developer	Mandai Wildlife Group
Builder	Lum Chang Building Contractors Pte Ltd
Architect	WOW Architects Pte Ltd
Civil & Structural	Ramboll Pte Ltd
Mechanical & Electrical	Arup Singapore Pte Ltd

Quantity Surveyor	Asia Infrastructure Solutions Singapore Pte Ltd

Project Description

Areas where the project has gone beyond conventional practices:

1. **AMA**
    - Extensive off-site fabrication of various structural, architectural and MEP elements, such as spiral staircases, elevated walkways, and wellness-pods. These elements were designed and coordinated in 3D BIM, then constructed at the factory, disassembled and reassembled on-site to shorten the build time and minimise disruptions to surrounding environment.
    - Salvaged tree barks and branches from the site were repurposed as moulds for off-form precast concrete walls, allowing the façade to capture natural textures. By integrating the texture directly during casting, separate architectural finishing works were eliminated, accelerating the façade construction cycle by 50%.

2. **Digitalisation** –
    - Lum Chang developed a 6D BIM, which included asset information models that were handed over to the client (Mandai Wildlife Group).
    - There was also the implementation of BIM-to-Field workflows, monitoring and progress tracking with the use of drones, and the use of Autodesk BIM 360 Docs for structured exchange of models between consultants, contractors and subcontractors.

3. **Manpower Transformation** –

- Provided comprehensive training and mentorship programme for migrant workers, training for subcontractors.
- Implemented mindful business practices, such as providing feedback channels for open communication, using virtual meetings and digital tools for more efficient meetings.

b) Keppel South Central

Project Name Keppel South Central 	
Project Team	
Developer	Keppel Ltd.
Builder	Obayashi Singapore Private Limited

Architect	Architects 61 Pte Ltd in collaboration with NBBJ Architecture PLLC
Civil & Structural	Meinhardt (Singapore) Pte Ltd
Mechanical & Electrical	Alpha Consulting Engineering Pte Ltd
Quantity Surveyor	AECOM Cost Consulting and Project Management (Singapore) Pte Ltd

Project Description

Areas where the project has gone beyond conventional practices:

1. **Sustainability** –
    - The building obtained Green Mark (GM) Platinum Super Low Energy (SLE) with the Health & Wellbeing (HW) and Resilience (RE) badges – They set up innovative chillers for enhanced system efficiency and achieved a high green plot ratio of 9.68.
    - Under the Facilities Management (FM) section they also obtained Intelligence (IN) and Maintainability (Mt) badges – The team engaged the FM team early during design meetings to plan for more efficient FM and to design for Robotics & Automation

2. **AMA** –
    - Value engineering to convert from Reinforced Concrete structure to a steel composite structure, which is lighter and resulted in amore optimised foundation system.
    - The use of permanent steel formwork for column joints reduced floor cycle from 7 days to 5.5 days.

- Extensive adoption of plant, vertical and horizontal prefabricated MEP modules helped to achieve up to 89% manhours reduction in Mechanical & Electrical trade productivities.

3. Digitalisation –

- The team adopted Integrated Digital Delivery (IDD) across the whole ecosystem from design to construction FM as well as FM, for enhanced collaboration, coordination and productivity.
    - Utilisation of digital platforms, such as Autodesk Construction Cloud, Novade, DroneDeploy, to integrate through all stages of project lifecycle from design, fabrication, construction, and FM operations.
    - Adoption of digital solutions and tools to improve collaboration and productivity, fabrication and installation quality, shorten decision making process.
    - Up to 60% reduction in time spent during design stage due to digitalisation of collaboration and design confirmation.

iii. Industrial

Project Name

36 Tuas Road

Project Team	
Developer	Perpetual (Asia) Limited (in its capacity of trustee as Boustead Real Estate)
Design and Build	Precise Development Pte Ltd
Architectural QP	ID Architects Pte Ltd
Design Architect + C&S Consultant	Thymn Pte Ltd

Project Description

Areas where the project has gone beyond conventional practices:

1. **Sustainability** –

   - The building achieved GM Platinum SLE certification, attaining HW, RE, and Whole Life Carbon (CN) badges. This was made possible through the adoption of 5-tick unitary air-conditioning systemsand the use of SGBP 4-tick low carbon concrete for more than 80% of applicable superstructure.
   - Under FM, the project also attained the IN and Mt badges, made possible through close collaboration with the FM team during construction and the adoption of advanced FM solutions, including automated fault reporting, digital handover, and data-rich asset modelling.

2. **AMA** –

   - The team executed on-site unrolling of metal roof panels, eliminating the need for lapping joints. This not only enhanced waterproofing performance but also improved panel handling productivity by 30%, and reduced transportation costs.
   - Metal staircases were adopted for external staircase, reducing on-site welding and alignment work. The metal staircases were designed using advanced 3D modelling to detect clashes early and ensure precise coordination with other trades. This enabled accurate dimensions, high-quality off-site prefabrication, and streamlined installation (minimised on-site welding, shortened the assembly timeline, and achieved cost savings by limiting mobile crane use to just one day).

iv. Institutional

Project Name New CMPB 	
Project Team	
Developer	Ministry of Defence/ Defence Science and Technology Agency
Builder	Tiong Seng Contractors Pte Ltd
Architect	DP Architects Pte Ltd
Civil & Structural	Meinhardt (Singapore) Pte Ltd
Mechanical & Electrical	Meinhardt (Singapore) Pte Ltd
Quantity Surveyor	AECOM Cost Consulting and Project Management (Singapore) Pte Ltd
Project Description	

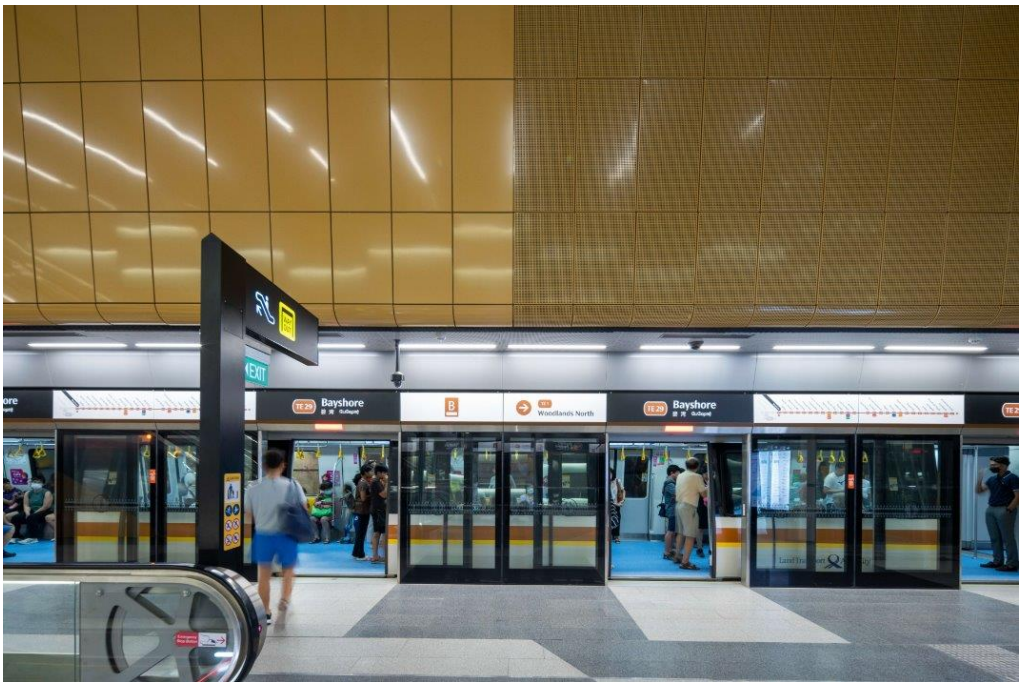
Areas where the project has gone beyond conventional practices:

1. **Sustainability** –
    - In developing CMPB, the team tapped Computational Fluid Dynamics simulations to help determine optimal building placements to allow seasonal winds to flow through between buildings to ventilate and cool the place. Green roofs and green facades and solar shading elements were strategically implemented into building structures to further cut down heat coming onto buildings.
    - High efficiency Mechanical & Electrical (M&E) systems paired with automated monitoring and control in Building Management System were also deployed, which track consumption and optimise building energy efficiency and performance.
    - These efforts allowed the project to achieve significant savings in energy and water consumption, and attain the BCA Green Mark Platinum Super Low Energy certification:
        i. Total energy savings of 7.2GWh/year (equivalent to consumption of 1,650 4-room HDB apartments)
        ii. Total water savings of 24,750m3/yr (equivalent to consumption of 135 4-room HDB apartments)
        iii. Total carbon emission reduction of 2,970 tons/yr (equivalent to planting 119,000 new trees)

2. **Innovation & Productivity** –
    - Use of Building Information Modelling (BIM) and Integrated Digital Delivery (IDD) tools to conceptualise, design and build digitally before actual physical construction, eliminating errors and reducing waste of resources for unnecessary reworks
        i. E.g. for first-of-its-kind suspended complex steel structure, reduced manpower requirements by close to 30% and saved cost by up to 20%
    - Virtual Reality simulations to augment decision-making process
    - Robots to install glass façade / perform LiDAR scanning
    - One of the first projects under the institutional category to adopt BCA's Virtual Temporary Occupation Permit (TOP) inspection, resulting in more

	than 30% savings in man-effort compared to traditional physical inspections.

v. Infrastructure

Project Name	
Bayshore Station  	
Project Team	
Developer	Land Transport Authority
Builder	T310 Woh Hup-STEC JV
Architect	SAA Architects Pte Ltd
Civil & Structural	Arup Singapore Pte Ltd
Mechanical & Electrical	WSP Consultancy Pte Ltd
Project Description Areas where the project has gone beyond conventional practices:	

1. **AMA** –
    - Site excavated soil was reused for station backfilling works, which reduced the number of trips required by earth moving trucks.
    - Extensive adoption of precast components (walls, slabs, staircases) which is uncommon for MRT projects. The adoption of precast components led to a 30% reduction in manpower as compared to casting in-situ.

2. **Value Chain Transformation** –
    - Involved consultants and subcontractors early to provide specialised inputs on design at the tender stage to reduce rework and develop a more complete design.
    - Recognised the individuals and teams who exemplified the importance of safety to boost morale and further ingrain a culture of safety.

II. BCA'S COMPANY OF THE YEAR AWARD

The Company of the Year Award recognises companies which have demonstrated the greatest commitment and efforts to transform. This award seeks to spur companies to go beyond project-level initiatives and achieve business and workforce transformation at the enterprise level.

Winners are selected based on the following criteria:

- Business Transformation
- Workforce Transformation

More details can be found on our BCA website: https://go.gov.sg/bca-coy

2 This year's winners are:

i. Small/Mid Firms

- Kimly Construction

ii. Large Firms

- Kajima Asia Overseas (Singapore)

Kimly Construction

Kimly Construction Pte Ltd is a home-grown contractor, founded in 1965 and incorporated in 1975. Kimly started out by carrying out Alteration & Addition (A&A) works managed by the Singapore Public Works Department (PWD) in the 1970s and quickly built a reputation for good quality works. In the 1990s, Kimly was at the forefront of undertaking Design & Build (D&B) projects adopted by private developers and government agencies.

Today, Kimly is one of the most progressive builders in Singapore. It constantly invests in the latest innovations and the best talents to ensure every project is delivered successfully. Kimly continues to build upon its track record by constantly striving to ensure high standards of

quality and safety. Kimly works closely with its clients and partners to build strong lasting relationships.

Kimly has actively and intentionally moved towards becoming a future-ready construction company. This has been done through the adoption of advanced technologies and continuous improvement of its construction and management capabilities. They have made it a priority to build a digital ecosystem that improves the operational efficiency of their staff while strengthening collaboration across all project teams. As part of their digital strategy, Kimly has integrated BIM across multiple dimensions, from 2D to 8D, which transforms how they plan, coordinate and execute projects.

Besides being recognised as one of ST's Best Employer 2025, Kimly was also awarded the Tripartite Alliance Award 2023 for Fair and Progressive Employment Practices. Kimly values its employees and provides a clear structured career path for its staff – besides customised skill development roadmaps for all levels of the organisation, Kimly also supports its staff to mentor other talents in the ecosystem via the Singapore Contractors Association Limited (SCAL) Young Leaders Programme and through collaboration with other tertiary institutions. As a forward-looking organisation, Kimly recognises that the business is not just about fulfilling the orders of today but also about developing the future construction workforce.

Kajima Overseas Asia (Singapore)

Kajima Overseas Asia (Singapore) (KOAS) is a Grade A1 contractor and has been involved in several iconic projects,such as UE Square, Marina Bay Financial Centre, Resort World Sentosa. Since 2020, KOAS has focused heavily on utilising digitalisation and advanced technology in their projects, such as THE GEAR, The Woodleigh Residences & the Woodleigh Mall and MOHH's Integrated Care Hub. As a member of Kajima Corporation, KOAS is part of an established worldwide network and is supported by the Kajima Technical and Research Institute.

Besides implementing Integrated Digital Delivery in their construction projects, KOAS has also adopted a Common Data Environment within the organisation to consolidate processes and assets including document management, site progress and safety, project scheduling and BIM models. Through these efforts, they developed a robust and accurate knowledge bank to be more accurate and efficient across project teams.

Together with THE GEAR, KOAS tests and pilots new solutions, such as AI software to improve the efficiency in their company and during construction. One example is the use of AI and Robotic Process Automation to automate repetitive tasks in areas, such as finance and administration, human resources, project management and document management. On site, they have adopted tools like AI-enabled Video Surveillance Systems and AI-powered image processors to transform site photos and videos into comprehensive 3D digital twins.

KOAS recognises that besides investing in technology, there is a need to invest in their people. They have set up strong employee development programmes for all levels within their organisation – from interns, to graduates, and up to the leadership level. They also conduct in–house training on a regular basis for all staff to keep up to date on new ways of working. KOAS also taps on their global network to hold a Yearly Japan Exchange Programme to facilitate knowledge transfer.