



BCA AWARDS
2020

Recognising Excellence in the Built Environment

GREEN AND GRACIOUS BUILDER AWARD



GREEN AND GRACIOUS BUILDER AWARD

ORGANISATION

GS Engineering & Construction Corp.

Hwa Seng Builder Pte Ltd

Hyundai Engineering & Construction Co. Ltd

Kajima Overseas Asia (Singapore) Pte. Ltd.

Lum Chang Building Contractors Pte Ltd.

Penta-Ocean Construction Company Limited

Woh Hup (Private) Limited

Nishimatsu Construction Co Ltd

Takenaka Corporation

CATEGORY

Star Champion

Star Champion

Star Champion

Star Champion

Star Champion

Star Champion

Star Champion

Star

Star

GREEN AND GRACIOUS BUILDER STAR CHAMPION AWARD



The **BCA Green and Gracious Builder Star Champion Award** was introduced to recognise builders which have demonstrated exemplary green and gracious performance in their projects and consistently achieved the highest tier rating (i.e. Star Category). The pinnacle award also aims to encourage the whole construction value chain to embrace a green and gracious culture.



GS ENGINEERING & CONSTRUCTION CORP.

GREEN AND GRACIOUS BUILDER AWARD – STAR CHAMPION



Globally, environmental issues concerning climate change, resource depletion and pollution have posed great challenges to all sectors of businesses. GS E&C has set a 'Sustainable Global Company' as its Vision and has worked out, implement sustainability management strategies through its Sustainability Management Committee and Sustainability Management with the aim of "the Pursuit of Growth through the Creation of Sustainable Values with its Stakeholders."

In Singapore, GS E&C has adopted many innovative advanced construction methodologies to construct efficiently and to reduce the disturbance of stakeholders. In addition, they have further enhanced the efficacy of GS E&C's environment-friendly practices while improving the working conditions and safe environment of their workers and employees.

As part of GS E&C's continual efforts in improving the already good practices, they commit to paying better attention to effective communications with their clients, employees and other stakeholders.

HWA SENG BUILDER PTE LTD

GREEN AND GRACIOUS BUILDER AWRD – STAR CHAMPION



HSB's efforts in GGBS include setting strict KPIs, organizing annual campaigns, embarking in new innovative technologies, improve work methods to eliminate dust and noise, prioritizing GGBS contractors as their partners, focusing on their workforce's wellbeing, believing in CSR and promote the use of green products. By evaluating the effectiveness of their implementation, they ensure their KPIs are met and set the seal on continual improvement in the following year.

With the strong top management support, HSB stands out from the rest with the ability to forecast, develop and present new innovative ideas yearly. In 2019, HSB developed an interactive and fun EHS Guidebook App that combines learning and play altogether. Topics on environment awareness and graciousness are both covered in detailed visual aids. HSB also uses BIM to design and construct its projects to reduce abortive work, minimizing wastage and protecting the environment. Their regular CSR engagements provide manpower to social enterprises to distribute meals and ration packs to the needy.

In all, HSB is building a healthy, safe and harmonized work environment for its employees. Ensuring a clean and comfortable dormitory for their workers, they also monitor and update their health conditions with an in-house mobile application. These data allow them to assign their work tasks effectively and the In-house Corporate Trainer can plan for relevant environment conservation and health awareness training.

HSB believes happier employees will improve productivity that provides them better job satisfaction and achieving job retention.

HYUNDAI ENGINEERING & CONSTRUCTION CO. LTD

GREEN AND GRACIOUS BUILDER AWARD – STAR CHAMPION



Hyundai Engineering & Construction Co., Ltd has always pursued sustainability through innovative eco-friendly technology and responsible business operation. Through the certification of ISO 9001, ISO 14001, ISO 50001, ISO 45001, ASME NA and KOSHA 18001, Hyundai E&C have established and operated an advanced safety, health, and environmental management system, and pursue safety, health, and environmental management through minimization of risk and efficient management.

Hyundai E&C is always constantly developing new technologies to reduce environmental impacts and produce sustainable energy. They are implementing on-site environmental management systems in conjunction with IT systems to treat waste and reduce greenhouse gas emission. By strengthening communication with interested parties and analyzing on-site environmental data, Hyundai E&C commit to taking the lead in achieving eco-friendly construction sites.

In addition to their environmental policy and management system, they are committed to the following:

- Establish an advanced management system and improve the environment continuously.
- Promote their Green and Gracious initiatives through communicating their policies and necessary information to all interested parties such as employees, vendors, neighbors or the public.
- Lead in green growth with low carbon through various environmental conservation activities.
- Select sub-contractors and suppliers who are environmental partners.

KAJIMA OVERSEAS ASIA (SINGAPORE) PTE. LTD.

GREEN AND GRACIOUS BUILDER AWRD – STAR CHAMPION



KAJIMA OVERSEAS ASIA (SINGAPORE) PTE LTD

Kajima embarked on the Green and Gracious journey since 2013. They support a precautionary approach to environmental challenges and undertake initiatives to promote greater environmental responsibility. They encourage the development and diffusion of environmentally friendly technologies for all their projects.

To maintain their Green and Gracious standards, they create sustainable next-generation construction systems by using technologies, e.g. the adopting of self-release lifting gear imported from Japan to aid in safe hoisting of rebar cages, and also the Tatakata-ACE Wireless method for the erection of structural steel, that allow ease in the adjustment of column verticality and level without the need for conventional scaffolding surround the column, these enhance environmental-friendly practices, productivity, safety and reduce on-site construction activities. This helps them to manage wastes better, reduce energy consumption, mitigate noise and vibration, reduce air and water pollution and thus reduces inconveniences to the public.

Further to strengthen their initiatives and commitments, they shared their good practices to their stakeholders and promoted regular awareness training for the workforce. They motivate their stakeholders to participate and strive together in the green and gracious movement in the built environment sector.

LUM CHANG BUILDING CONTRACTORS PTE LTD.

GREEN AND GRACIOUS BUILDER AWARD – STAR CHAMPION



Lum Chang Building Contractors Pte Ltd adopted the BCA's Green & Gracious Builder Award criteria since 2014 as part of their continual improvement to their safety, health, environmental and innovative performance. The criteria are supplemented and integrated into their existing Quality, Safety, Health and Environmental Management System so as to be practiced consistently in the organization as well as to apply to their partners and stakeholders.

The main objective of adopting BCA's Green & Gracious Builder Award Criteria is to ensure sustainable environmental-friendly and gracious practices including the application of innovative technologies and operations during the construction phase of their projects.

Moreover, they are committed to promoting their Green and Gracious initiatives through training and awareness; use of natural resources, especially energy and water efficiently; reduce the quantity of waste so as to minimize air, water and land pollution; prevent and prepare for any emergency that could impact the environment and the public; selecting and assessing their subcontractors and suppliers who are their GGBS partners; proper planning and execution of work activities with the consideration of public safety; and establishing Workforce Management System to provide welfare and career progression for employees.

PENTA-OCEAN CONSTRUCTION COMPANY LIMITED

GREEN AND GRACIOUS BUILDER AWARD – STAR CHAMPION



Penta-Ocean Construction Co., Ltd., one of Japan's leading construction companies, established a Singapore Branch in 1965 and has been part of Singapore's growth and development through the years since her independence. The company utilizes its expertise and technologies in extremely challenging construction environments to build many large scale marine, civil and building projects in Japan, Singapore and around the world.

As part of their corporate social responsibility to the environment and society, BCA's Green and Gracious Builder principles are incorporated into their Integrated Management System. Their Management is committed to implementing high standards of SHE by raising Safety, Health and Environmental consciousness of their employees and subcontractors, promoting their Green and Gracious initiatives as well as a continuous improvement based on the evolving needs of the society. Penta-Ocean organizes an annual "SHE Week" to promote further their initiatives, contests to encourage SHE/GGBS innovations from the project team and subcontractors and sharing sessions with their Business Partners to garner feedback and improvements. Their recent CSR activities include "Clean & Green" at Woodlands Waterfront Park, "Beach Cleaning Day" at Changi Beach and Gratitude Packs to NCID and TTSH to show their appreciation to the hospital's "Frontline Heroes".

WOH HUP (PRIVATE) LIMITED

GREEN AND GRACIOUS BUILDER AWARD – STAR CHAMPION



Since 2010, Woh Hup Private Limited has attained GGBS STAR rating and continuously improve green and gracious efforts on sites.

Firstly, they have training, campaigns, sharing sessions to create awareness on topics such as waste management, recycling, resource conservation, safety, anti-littering, dengue prevention, calorie intake to staff and workers. Secondly, all sites have a green noticeboard with a site utilization plan, a green checklist, and recycling posters. Furthermore, GGBS banners and environmental-related banners are displayed on-site to promote GGBS among staff, workers, visitors and the public. Thirdly, they have a dedicated Sustainability Team to conduct GGBS internal audits for all sites to continuously make and recommend improvements. Fourthly, for all LTA projects with a relatively longer construction period, solar photovoltaic systems are installed to harvest a substantial amount of renewable energy to minimize electricity consumption. They have also included GGBS or GGBS (SMC) as one of the considerations during the selection of subcontractors and in the Letter of Award to subcontractors, they also encourage them (if they are not yet certified) to be certified. Lastly, they continuously look for new innovative products and construction technologies to be used on-site for staff and workers' safety, to increase productivity and reduce their environmental impact.

GREEN AND GRACIOUS BUILDER AWARD

The **Green and Gracious Builder Award (GGBA)** was introduced to recognize progressive builders who adopt environmentally friendly practices and minimize the effects of construction for people living close to the worksite. This award also recognizes the conscious effort of builders in implementing gracious practices that helped to develop a more positive image of the industry.

The GGBA 2020 will be given to the STAR category.

NISHIMATSU CONSTRUCTION CO LTD

GREEN AND GRACIOUS BUILDER AWARD – STAR



- Use of solar panel installed on site office roof top generate energy for site use
- Extensive use of greenery and fruit-bearing plants on site and cultivated a fruit garden
- Installation of chiller to reduce temperature for workers working in underground tunnel
- Use of biometric attendance and radio-frequency identification RFID for personnel accountability
- Provision of temporary slip road supplementing revised tree cutting plan that minimize tree cutting, and to locate further away from residents

TAKENAKA CORPORATION

GREEN AND GRACIOUS BUILDER AWARD – STAR



- Use of remote login system for attendance-taking
- Use of offsite pre-fabricated elements to improve productivity and reduce dis-amenities on site
- Use of BIM on all projects

Organiser



An Initiative Under

