

Organisations Category

Contractor in New Works

Merit Award

Build King Civil Engineering Limited



Contract No.: ED/2022/01 Infrastructure Works for Developments at Kwun Tong Action Area

The project team promotes sustainable construction by:

- Adopting cost saving design and use sustainable building material for the construction of new footbridge according the Wai Yip Street.
- Deploy low noise equipment for the demolition and reconfiguration of the Kwun Tong Dangerous Goods Vehicle Queuing Area and Vehicular Ferry Pier.
- Maintains greening and reduces visual impact at Wai Yip Street by providing onsite tree nursery and covered walkway with artworks.



Sustainable Best Practice 1

GGBS is a by-product from the steel-making industry. Adding GGBS as additive can improve the durability and strength of concrete and reduce the carbon footprint.

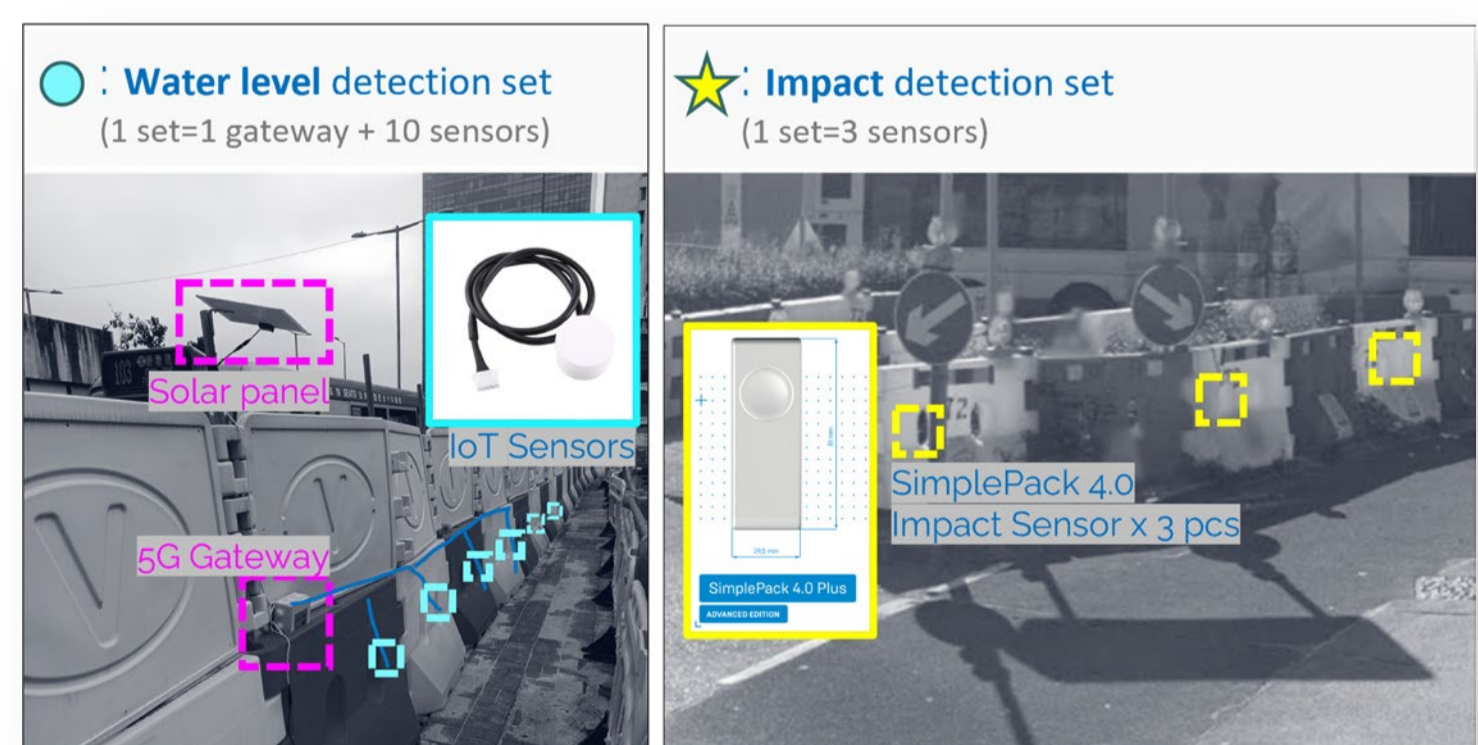
The project reduced 160 ton carbon footprint by adopting GGBS Concrete with "CIC Green Product Gold Certificate" for the construction of footbridge according Wai Yip Street.

Sustainable Best Practice 2

The project invented AI system to track the water level of water filled barrier and identify damaged barriers.

The AI system can help the project team to replenish the barrier at the earliest and take immediate response any traffic accident nearby the site.

The AI system also promote working safety by reducing patrol checks on water filled barriers especially at isolated site area.



Sustainable Best Practice 3

The project erect temporary office for the Kwun Tong Vehicular Ferry Pier using Modular Construction Method (MiC).

As minimum on site fabrication is needed, the MiC office significantly improved working safety onsite and speed up the construction period over 50%. It also reduced the needs of adopting noisy equipment and related environmental nuisance to the public.