

BUSINESS REVIEW 2020



ECAS Consultants Pte Ltd

Message from the Managing Director



2020 was a challenging year for the construction industry and many other sectors. With COVID-19 wrecking havoc to Singapore's economy, our site staff had to stop work during the circuit breaker, while our office staff had

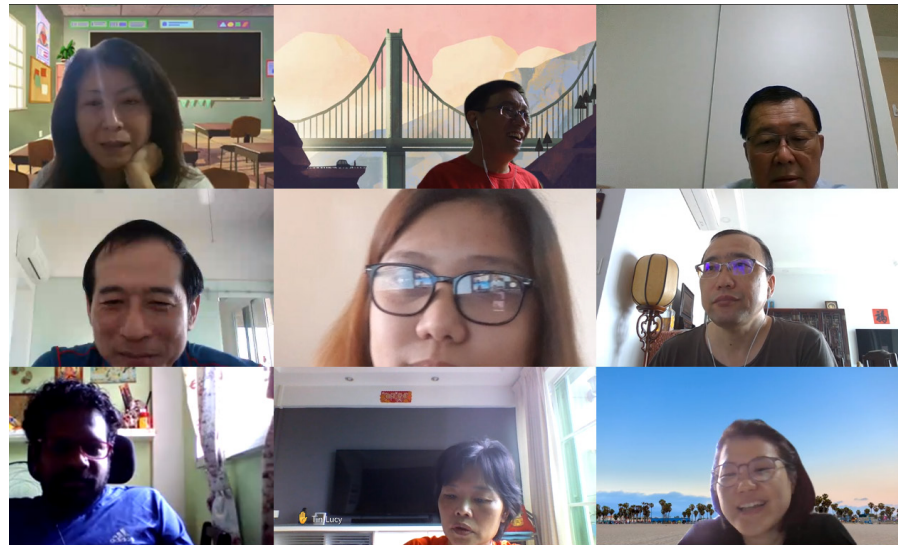
to work from home.

We tapped onto our Business Continuity Plan and work continued to be carried at the backend. Due to safe management measures being implemented at worksites, we could not resume full operations after the circuit breaker. Our operations resumed in different phases. Our project deliveries were affected but there was an industrywide understanding due to the repercussions brought on by COVID-19.

With the everchanging business landscape, we will continue to adapt to the changes and challenges in the construction industry and economy. We also hope to continue inspiring future generations of engineers to make a difference in our community through various industry partnerships.

We look forward to a fruitful 2021 and we hope you will continue to partner us in our journey.

Kind regards,
Chan Ewe Jin
Managing Director



Microsoft Teams meeting during the circuit breaker.

Working Around COVID-19

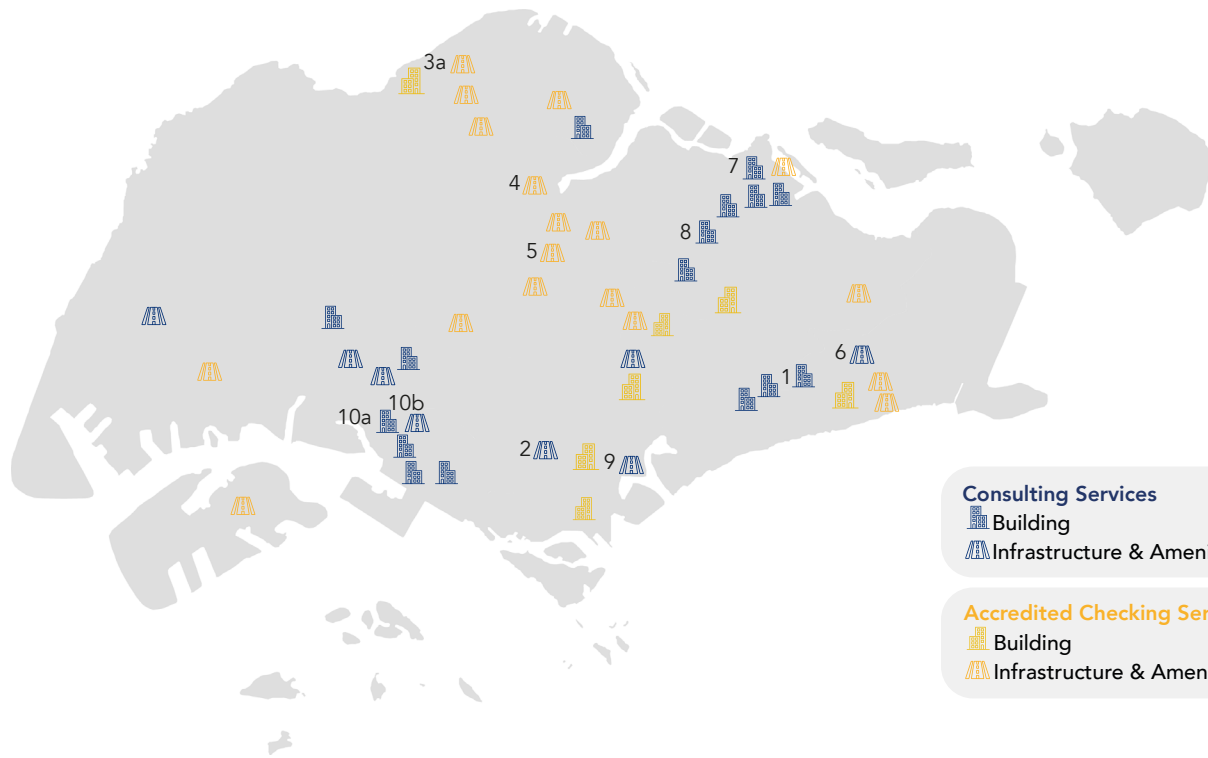
When Singapore entered the circuit breaker on 7 April 2020, our operations underwent a 180-degree change.

Before the circuit breaker, office staff were working using the split-team arrangement. Staff also ramped up the use of tools such as Microsoft Teams to conduct online meetings in the office and from home during the circuit breaker. Microsoft Teams came in handy as it facilitated team meetings and discussions internally and with external parties.

Some site staff stopped work completely for eight weeks, as some of the work was classified as non-essential. Even staff performing essential works on projects had to adhere to many new safe management measures. The circuit breaker stalled the delivery for projects because many site workers were confined to their dormitories. There were outbreaks across several dormitories and it was crucial to contain the spread of COVID-19.

The circuit breaker ended on 1 June 2020. Most of the office staff continued to work from home, unless they needed to access documents that were stored on the server or had to refer to hardcopy documents. Acrylic dividers had been installed at the office, where possible, to minimise the transmission of droplets between workstations. Site staff resumed work gradually and had to undergo swab tests fortnightly.

Number of Projects Completed in 2020: 44



BEDOK GREEN SECONDARY SCHOOL

Upgrading of Bedok Green Secondary School's roof using MET (mass engineered timber)

ORCHARD BOULEVARD STATION

QP Supervision services for the construction and completion of Orchard Boulevard Station including civil, structural, architectural, M&E works, together with underpass and new pedestrian overhead bridge across Grange Road

WOODLANDS NORTH STATION

Accredited checking services for Woodlands North station (contract 2102AC)

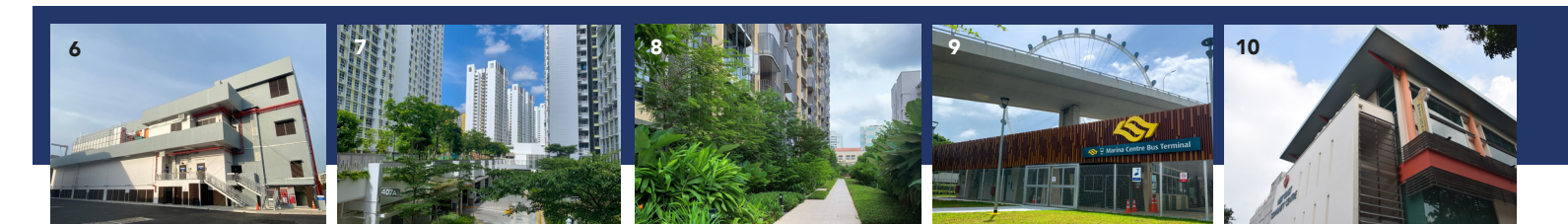
SPRINGLEAF STATION

Accredited checking services for Springleaf station and associated tunnels

MAYFLOWER STATION

Accredited checking services for Mayflower station (contract T2311)

Contracts 2102AC & 2103AC: Accredited checking services for Woodlands North (T202), Woodlands (T203), Woodlands South (T205), Springleaf (T208), Upper Thomson (T212), Caldecott (T213), Mt Pleasant (T215) and Stevens (T216) stations, associated tunnels around certain stations, tunnels between Woodlands station and Woodlands Ave 12, including crossover and reception tunnels to Mandai Depot for TEL
 Contract T2311: Accredited checking services for Lentor (T209), Mayflower (T210) and Bright Hill (T211) stations, including associated tunnels around Lentor station
The above are various works carried out for 11 TEL stations.



TAMPINES SUBSTATION

Professional Engineering services for addition and alteration works to a 3-storey 66kV substation along Tampines Link (NDB172)

PUNGGOL NORTHSHORE PUBLIC HOUSING

QP Supervision services for 12 blocks of public housing and one 3-storey commercial building, 2 levels of carpark, e-deck, community facilities and precinct pavilions along Punggol Way, Northshore Walk, Northshore Drive and Northshore Link

HUNDRED PALMS RESIDENCES

Active, Beautiful, Clean (ABC) Waters project at Hundred Palms Residences, comprising of 9 blocks of residential units, swimming pool and ancillary facilities

MARINA CENTRE BUS TERMINAL

Professional Engineering services for the Design & Build of Marina Centre Bus Terminal, including bus parking area, staff offices & facilities, motorcycle parking area, sewers and manholes

WEST COAST COMMUNITY CLUB

Professional Engineering services for addition and alteration works to existing 3-storey West Coast Community Club, including link bridge and pedestrian overhead bridge

Upcoming Completion of Orchard (TE14) Station



An artist's impression of the Orchard Boulevard exit of Orchard station (TE14).



A close to completion shot of the Paterson Road exit of Orchard station (TE14).

The construction of Orchard station (TE14), like many construction projects, was delayed due to circumstances surrounding COVID-19.

ECAS Consultants was appointed to provide QP Supervision services for Orchard station.

QP Supervision services for Orchard station include an interchange Station, cripple siding (an extra track that is used to facilitate withdrawal or storage of trains that are not part of revenue service), bored tunnels, five entrances, underpass under Orchard Boulevard, a paid-to-paid platform link to the existing North-South Line) NSL station with a deep underpass created by a mini tunnel boring machine, and a mined tunnel under the existing station.

Orchard station (TE14) is part of the 32-station TEL and will serve as an interchange station with the station code: NS22/TE14. It is currently home to Orchard station (NS22).

The TEL will span 43km, starting from Woodlands North in the north and ending at Sungei Bedok in the east. ECAS Consultants is also involved in the provision of QP Supervision services for works carried out at Bayshore, Bedok South and Sungei Bedok stations. We were awarded the QPS Safety Award in 2020 for the work carried out for T310 at Bayshore station (see page 4).

In addition to these two stations that are along Singapore's central shopping district, ECAS Consultants is also involved in the provision of accredited checking and other works for 11 other stations along TEL (see page 2).

Business Excellence: Singapore Quality Class Certification

In 2017, ECAS Consultants was awarded the Singapore Quality Class certification by the then-SPRING Singapore. This certification is awarded to companies that have attained robust business fundamentals and meet good business performance standards.

During 2020's final instalment of the certification, ECAS underwent a gruelling assessment by the panel from Enterprise Singapore. We were assessed on key components such as leadership, strategy, process, customers, people, knowledge and results. We were successful in renewing our Singapore Quality Class certification

The assessment highlighted areas where we performed well in and also aspects where we can improve on. We will take stock of the feedback and continue to deliver better outcomes.

We look forward to continuing our journey towards excellence with all employees and various stakeholders.



Singapore Quality Class trophy



EXCELLENCE COMMITMENT ASSURANCE SAFETY

Awards Received in 2020



ECAS was awarded the Construction Excellence Merit Award for the work carried out at Yishun N4C19 (Meadow Spring @ Yishun) as a Structural Consultant (Supervision). The award recognises projects that have demonstrated high standards of construction excellence.

Assessments are made towards construction excellence of projects based on four key considerations — Project Management, Productivity, Quality and Innovation — that contributed to improved project performance.



ECAS was awarded the QPS Safety Award by the Singapore Land Transport Authority at the 22nd Health and Environmental Award Convention for the work carried out for Contract T310. The annual convention recognises contractors for their successful promotion of Workplace Safety and Healthy initiatives at the worksite.

About ECAS Consultants Pte Ltd

ECAS Consultants Pte Ltd is a leading multidisciplinary engineering firm offering design consultancy, accredited checking, construction supervision, and inspection services to clients of the public and private sector for a range of projects in Singapore.

The company is ISO 9001 certified for Quality, ISO 14001 certified for Environment protection, and OHSAS 18001 certified and bizSAFE STAR for Safety in the workplace. ECAS counts on Professional Engineers and more than 200 employees to support our clients in their projects.

Capabilities

Road and Bridge Engineering | Rail Engineering | Building Engineering | Tunnel Engineering | Infrastructure Engineering | Geotechnical Engineering | Structural Engineering | Environmental Engineering | Mechanical Engineering | Traffic Planning

Services

Design Consulting Services | Construction supervision | Assessment and investigation | Design Review | Design for Safety Building Information Modelling (BIM) | Steel and Rebar Detailing | Project Management

Industries

Real Estate | Industrial | Utilities | Transportation | Infrastructure | Institutional