



## CORPORATE HSE NEWSLETTER



# 2021

### In This Edition

1. CEO's Message
2. HSE Sharing: Changi Water Reclamation Plant (C22B)
3. HSE Sharing: Improvement to Bedok Canal C2
4. HSL Abroad: Malaysia PETRON Ultra Low Sulfur Automotive Diesel Oil (ULSADO)
5. HSL Abroad: Melaka 2,242 MW CCGT Power Plant
6. HSL Abroad: Construction of Seawall For Patimban Port Package 2, Subang, West Java
7. HSL Abroad: Marine Piling Works for Nickel Bulk Cargo Berth, Kendari South East Sulawesi
8. HSL Abroad: Marine Piling Works for Kijing Container Port, Kijing, West Kalimantan
9. HSL Abroad: Ahlone International Port Terminal – 2
10. HSL Abroad: Long Son Petrochemicals Complex (Package F – Ports)
11. Steadfast Engineering & Construction
12. Mighty Engineering & Construction & A+ Engineering
13. Credits

### CEO's Message



2020 was marked by the Covid-19 pandemic which disrupted economies and lives on scale and ways unprecedented in our human history. Around the world, millions of lives have been lost; many businesses have closed; and many more people have lost their jobs.

In Singapore, the construction industry was badly affected with dormitories on lockdown, the quarantine of work pass holders and escalating safe management requirements. It was challenging having to balance the dynamic government requirements with the uncertainty of business continuity. Fortunately, many of our overseas projects were able to continue. You can read about them in this issue.

I am thankful for our Safety and HR teams for the extraordinary lengths they went to, to show concern for our fellow colleagues during this period; putting in tremendous effort to educate, enforce and encourage those who were anxious, in doubt and cooped up. From as early as February, we sprung into action to prepare our workforce; educating them on Covid-19 and emphasising on the importance of personal hygiene, as well as gearing them with basic hygiene supplies.

The HSL WeCare programme as well as a Care Fund was set up in March in anticipation of the support we would need to take care of our employees. Throughout the next three months, many hours were spent providing guidance and emotional support. Care packs containing food and other basic necessities, books and games were delivered to the dormitories and those who were affected by stay-home notices. In addition, over 400 employees whose livelihoods have been severely impacted by Covid-19 have benefitted from the HSL Care Fund.

Despite the lockdown, our workers spent their time productively. The HSL In-house Training and Sharing (HITS) programme was developed by our management team and other technical subject experts to train and upskill fellow colleagues. Other than attending e-HITS, our workers were also taught to access free on-demand digital learning, achieving a successful penetration rate of 95% across 20 Safety and Productivity-related courses.

I am pleased that we did not let the four months go to waste. We found meaningful ways to improve ourselves physically, mentally and emotionally; this has allowed us to look forward with hope and optimism. Let us continue to look after one another and remain vigilant; practice good hygiene habits so that we can stay safe and healthy together!

– Charles Quek

# HSE Sharing

## Changi Water Reclamation Plant Phase 2 (C22B)

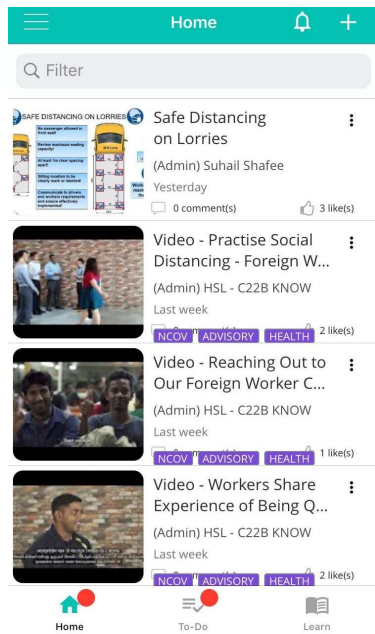
**Owner** : Public Utilities Board (PUB)

**Main Contractor** : HSL Constructor Pte Ltd

**Start Date** : December 2016

**End Date** : January 2022

### Digitalization: KNOW App



Informative videos on COVID-19

KNOW App is currently being utilized by both employees and workers alike at HSL's Changi Water Reclamation Plant Phase 2 project site.

KNOW App provides access to the following:

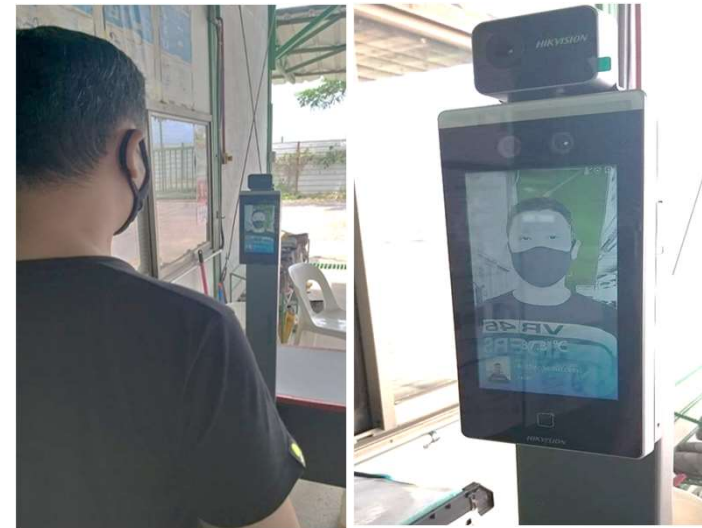
- Safety Observations
- Training
- Forms & Checklists
- Daily Temperature Check
- Permit-to-Work

The app has since evolved during the pandemic providing easier record-keeping and access; system monitoring to ensure national compliance with contact tracing and Safe Management Measures (SMM) implementation.

Training is being conducted by individual subcontractors and submitted via KNOW App for evidence of safety awareness training conducted. The constant refresher courses serve as daily reminders to uphold our safety standards and instill a strong safety culture.

### Safe Management Measures

As part of our endless effort to implement COVID-19 SMM, project management team sees the need to advance with digitalizing the temperature screening process by implementing non-contact infrared scanners. This will minimise the risk of community spread if contact between the screening officer (using a handheld temperature scanner) and an infected person occurs.



The device identifies the personnel and reads his temperature

### Digitalization: Feedback System

A unique innovation brought to reality by HSL's own CEO, a touch screen feedback system for our workforce to raise any site safety concerns pertaining to the work environment. The data will be retrieved on a daily basis for respective area in-charge to share with their team and act accordingly to resolve any alarming feedback.



Feedback System



“  
 It’s loyalty when duty calls,  
 It’s courage when disaster falls,  
 It’s patience when the hours are long,  
 It’s togetherness that kept us strong”  
 In times of Covid19,  
 heroes have prevailed  
 to make HSL greater. ”



Food distribution at the various dormitories housing our workers during the lockdown

## HSE Sharing Improvement to Bedok Canal C2

*Owner* : Public Utilities Board (PUB)

*Main Contractor* : HSL Constructor Pte Ltd

*Start Date* : November 2015

*End Date* : September 2021



### Successes:

- Met project safe Man-Hours projection
- Maintained and cultivated a safe working environment for all

### Challenges:

- When there is a heavy downpour, the canal will be flooded causing our works to be delayed
- Public feedback regarding noise & dust generated from our work site, which is unable to be eradicated completely

## Safe Management Measures



All workers reporting to work are required to sign in and scan their NRIC/Work passes



Dedicated toilets for each contractor



No workers are to cross the barrier headed towards the office; all communications are to be made via phone calls



Demarcation of work areas are colour-coded

# HSL Abroad

## Malaysia PETRON Ultra Low Sulfur Automotive Diesel Oil (ULSADO)



**Owner** : Petron Malaysia Refining & Marketing Berhad

**Main Contractor** : Daelim Malaysia Sdn Bhd

**Start Date** : 10 February 2019

**End Date** : 10 June 2020

ULSADO Project is the first project for HSL Malaysia done in an operating life refinery plant. This project was the key to HSL Malaysia's first entry into the country's rapidly developing oil and gas sector.

The challenge put forth for the team is to write and clear the Two Safety Exams - Safety Induction Training (SIT) and Site Safety Mature Person (SSMP) as part of Owner's Safety Program to enter the project site. The Project Management team put in great effort to train the foreign and local workers and familiarize them with the refinery standards, including translating the materials to multiple languages, leading to the workforce's success in acing the exams.



Overall view of project site inside the life refinery plant

HSL ULSADO Project team managed to complete 92.5% of its contractual obligations ahead of time. Unfortunately, our progress were hampered due to the Movement Control Order (MCO) imposed by the Malaysian government on 18 March 2020 to curb the spread of the COVID-19 pandemic, whereby no construction works are allowed to continue. Below are some pictures of the safe management measures we took for pandemic control:

## Safe Management Measures



Disinfection of Office Area



Daily Temperature Taking



Covid-19 Awareness Campaign



1 meter social distancing

The project was safely and successfully completed in June last year thanks to tremendous effort from the team. We would like to extend our heartiest congratulations to the ULSADO project team!

# HSL Abroad

## Melaka 2,242 MW CCGT Power Plant



*Owner* : Jacobs /EDRA

*Main Contractor* : Hyundai Engineering Malaysia

*Start Date* : January 2018

*End Date* : Ongoing

Scope of works is to build a discharge water channel, intake pump station, box culvert and dredging activity. The goal of this project is to ensure that the new additional facilities are completely safe and pose no threat to public health after they are operational.

Onshore and Offshore packages for Intake and Discharge system include Temporary Jetty, Fabrication Laydown, Intake and Outfall Culvert, Intake Pump System and Discharge Stilling Basin.

## Safety Awards & Campaigns Highlights



HSE Achievement 1 Million Man-hours without LTI



Award for The Best Sub-Contractor Safety Compliances at Melaka CCGT



Monthly Best Worker awards conducted by Hyundai and HSL



HSE Campaign Event – Use Body Harness When Working at Height

### Emergency Response Team Drill (Onshore)



Planning stage with main con Hyundai



OSC briefed the ERT Leader and mobilized the rescue strategy



First Aid Treatment by Paramedics



Designated assembly point area



Debriefing and drill termination



Postmortem debrief

### Emergency Response Team Drill (Offshore)



Incident: person spotted falling into the sea



Rescue boat with First Aider arrived on scene and perform the rescue



Debriefing Session



Postmortem debrief

# HSL Abroad

## Construction of Seawall For Patimban Port Package 2, Subang, West Java



**Owner** : Directorate General of Sea Transport (DGST)

**Main Contractor** : Toyo-Adhi-Wakachiku JV

**Start Date** : 1 May 2019

**End Date** : 30 June 2021

With a high volume of works involved to construct the 5 km seawall, HSL has to maintain its position as one of the best marine contractors in the region to deliver the project successfully and safely. With the COVID-19 situation spiraling in Indonesia, working hand in hand with our client takes centerstage, to ensure that our team are well taken care of and they can solely focus on their work and safety on site. With the right mindset and attitude, nothing is impossible as we are currently more than halfway in our progress milestone. "Together, we can", and in pure Indonesia spirit, "Bersama Kita Bisa".



# HSL Abroad

## Marine Piling Works for Nickel Bulk Cargo Berth, Kendari South East Sulawesi



**Owner** : PT Virtue Dragon Nickel Industry

**Main Contractor** : PT China Harbor Indonesia

**Start Date** : 21 July 2019

**End Date** : 25 September 2020



The Kendari Project is yet another challenging piling project where our piling barge SGP6 has to pile 60-70m single length concrete spun pile with utmost safety in mind. Helmed by a mixture of our Chinese and local crews, the language barrier was the biggest challenge towards delivering the project successfully.

A series of initiatives such as ice-breakers, team bonding as well as deployment of translators ensured that the communication gap is bridged. Effective communication amongst the crew was possible for these high-risk operations.

Right communication brings close connection and these ingredients brought the favorable outcome of a safe completion back in Sep 2020.

# HSL Abroad

## Marine Piling Works for Kijing Container Port, Kijing, West Kalimantan

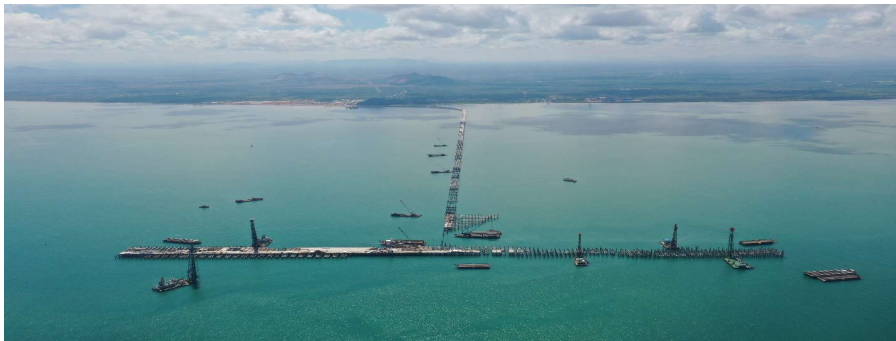


**Owner** : PT Pelabuhan Indonesia II (Pelindo)

**Main Contractor** : PT Wijaya Karya

**Start Date** : 21 July 2019

**End Date** : 15 January 2021



Kijing Port is slated to be one of the largest ports in Indonesia upon its completion, with its Phase 1 construction covering a container terminal on the sea side with an area of 1000 m x 100 m and a trestle connection of 3.5 km long.

Carefully coordinated lifting works are important to ensure the piles can be hoisted safely day in and day out. To ensure "No Harm to Others", adherence to HSL Life Saving Rule #04 "Do Not Walk Under A Suspended Load" is key.

Staying true to the commitment on safety, the team in Kijing is continuing to deliver the project safely and successfully. The know-how on the safe way to execute mega marine piling projects will be the backbone for HSL's participation in similar projects for many years to come.

# HSL Abroad

## Ahlon International Port Terminal - 2



**Owner** : Adani Yangon International Terminal Company Limited

**Client** : ITD Cementation India Limited

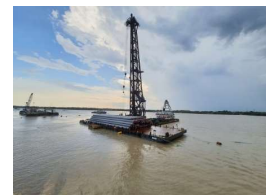
**AI's scope of work** : Installation of 495 nos. of PHC Piles

**Work Duration** : 5 Months

**Project Status** : Ongoing

Under current COVID-19 situation, Asia Infrastructure (AI) team succeeded in bringing the team via charter flight into Yangon for a timely project execution.

Piling Barge SGP 3 Team commenced the first pile on 4 November 2020. Challenges faced in the Yangon River include swift current speed of around 6 knots, around 4.5m ~ 6.5m in the tidal difference and limited mooring area due to adjacent port operations for cargo ships. SGP 3 managed to overcome the first sequence of the pile driving successfully with the cooperation from the Main Contractor (ITD Cementation) within the time given.



SGP 3 Lifting Process



SGP 3 in Position



SGP 3 Pile Driving



## COVID-19 Prevention Implementation on Board



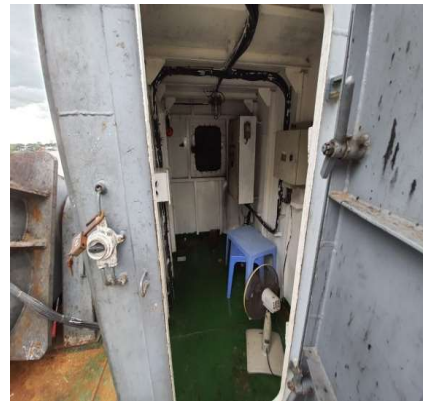
Allocated space marking on the floor, 6 feet away from each other



Office Safe Distancing



Body Temperature Taking



Isolation Room On Barge

While the pandemic in Myanmar evolves, the work onsite continues with all preventive measures in place.

Tough times don't last but tough people do and in this spirit, the team is staying positive and looking forward to the next project in South East Asia.

# HSL Abroad

## Long Son Petrochemicals Complex (Package F – Ports)



*Owner*

: Long Son Petrochemicals Co. Ltd  
(Wholly-owned by Siam Cement Group)

*Client*

: POSCO Engineering & Construction Co. Ltd

*Start Date*

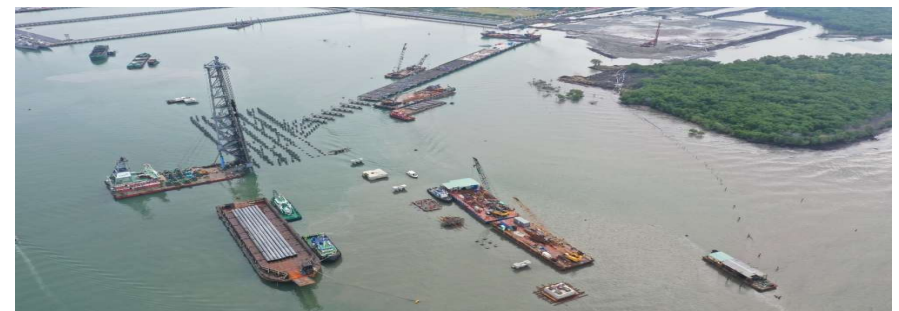
: 3 June 2019

*End Date*

: 31 July 2020

Being our inaugural penetration into Vietnam market, HSL finds itself in the limelight of one of Vietnam's highest-profile projects in 2019. In the face of public scrutiny, government enforcements and client expectations, HSL stepped up to the challenge by adopting the highest safety protocols and establishing comprehensive documentation standards.

Our biggest accomplishment is no doubt meeting the tight project schedule while complying with the stringent safety requirements. To do this, our site engineers and safety officer engaged each other daily to brief work plans for the day and thereafter agree on a method with zero compromise to safety and minimal impact to productivity.



Aerial view of the Construction Jetty in LSP Projects



Top Management Safety Commitment Event held onboard SGP3 to reiterate HSL's commitment to 'Safety First'



Corporate social responsibility (CSR) event organized by POSCO E&C



Morning breath analyser spot-check conducted by POSCO E&C to ensure compliance to no alcohol consumption by offshore crew.



Oil containment boom deployed on-site to protect the favourable environment for pacific oysters farming in Long Son Commune.

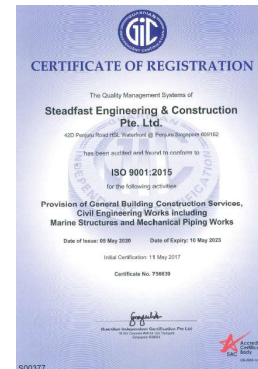
# Steadfast Engineering & Construction (SFEC)



## Certifications & Awards

As a strong believer of a robust management system, Steadfast is always on its toes when it comes to continual improvement. In 2020, we have migrated to ISO 45001, where involvement of workers' representatives took place in many aspects. Their voices are heard and analysed before decisions are made, to better suit the entire company by and large.

We have also maintained our merit status for the BCA's Green & Gracious Builder Award which has been renewed till October 2023.



## Project Updates

### C22B – GRP Pipe Lamination & Haunching



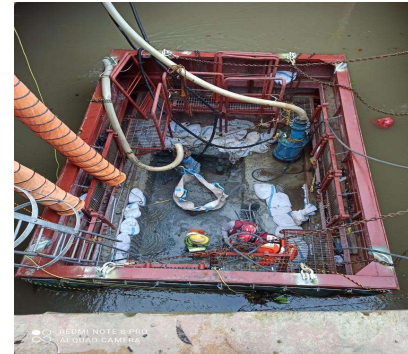
Steadfast was given the trust to execute the construction of GRP Pipe Lamination and Haunching, in support to an existing PUB plant tie-in point. There are two pipelines for this scope (4.3 m diameter and 3 m diameter). The total length for both pipelines is 200 m and the project was completed at the end of December 2020.

### N106 – Soil Nailing and Shotcrete Works

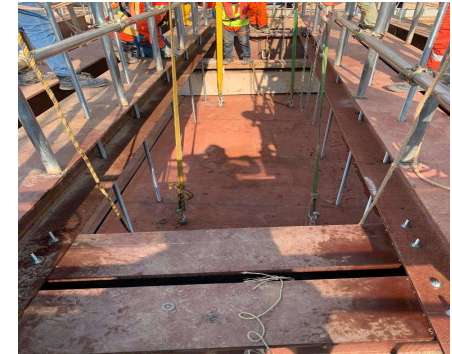


Steadfast was given trust to execute the soil improvement against the sloped earth surface with soil nailing and provided the shotcrete on the earth surface at North South Corridor Zone 2 PTP area. 57 nos. of 10 m length of soil nailing in 4 stages of 1.5 m interval with 1H:2V slope directions was completed in 85 days, well ahead of planned schedule.

### N106 – Bukit Timah (BT) Canal Reinstatement works



Base slab Reinstatement works



Roof Slab Reinstatement works

Steadfast was entrusted to deliver the BT Canal reinstatement works comprising 9 nos. of 4 m x 10 m wide opening of base slab with G.I hole reinstatement works and roof slab reinstatement works. The roof slab is specially designed for the suspended scaffold platform of 1.5 ton capacity in 4 panels and implemented for floating type of retrieval method. The base slab was executed in the live canal and provided caisson as prepared working zone in confined space. It is currently in progress and expected to complete within 270 days.

### South Pacific Chemical Industries Advanced (SPCIA)



Piling Barge Method



Staging Piling Method

Due to the COVID-19 pandemic, SPCIA project team lost the construction schedule at procurement and construction stages. They found a productive method to improve the progress and recover lost time. Using the piling barge method, the piling work was completed within 2 months instead of the 4 months of its original schedule.

## Emergency Drills

N106 project safety team had the opportunity to conduct a scenario of falling into an excavation pit. The safety team continuously remind them of the important aspects of fall from height.



## Promotions & Initiatives



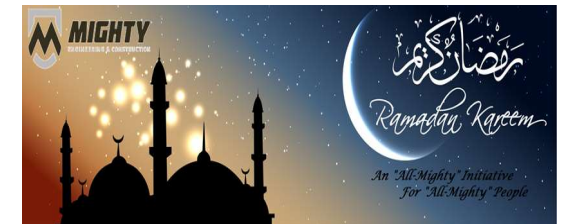
In view of the Covid-19 situation, workers do not have the freedom to travel and celebrate Deepavali with their loved ones. Bedok C2 project team bought workers Briyani packets to lighten their mood. The team was also treated with Mc Donald's meals for Christmas Eve.



# Mighty Engineering & Construction A+ Engineering



## An All Mighty Event for All Mighty People!



2020 marked a special year for Mighty/A+ as we embarked on the very first virtual iftar for the workforce. It was a stressful period for the workers being cooped up in the dormitory. The management sent dates and sweets for them to break fast. It was well received by the workforce and more importantly, they recognised that they are not alone and the company cares for them.



## BASF Speed Project Milestone Completion



Speech by BASF Project Manager



Celebrating safe completion of piling works with construction partner – Drill Gems

## Recognizing efforts



Name: Muthu Velmurugan

Designation: Piling Supervisor

He is a cooperative supervisor and a good safety leadership to take care of the workers safety and to ensure the work had been carry out safely.

Name: Nagarajan Ponnusamy

Designation: Rig Operator

He had operated the rig safely and without any safety violation.



2020 was a tough year due to the pandemic especially during the lockdown period. With thorough education, inspection, enforcement, support and cooperation from the team, it was smooth sailing for A+ Engineering. It was a year with blessings in disguise. The team contributed man-hours as an in-house contractor to PCS that led to 45 million man hours without Loss Time Injury and was awarded the Silver Award for Safety Performance Awards.

## Educate



New personnel are briefed on complex Rules and Regulations and Covid-19 Rules and Regulations in plant



Covid-19 Safe practice and best practice are briefed daily during Toolbox Meeting

## Support



Team was given 2 sets of reusable mask and a box of disposable mask each every quarterly by PCCA (Petrochemical Complex Contractors Association)





On 22 December 2020, team received goodie bags to show appreciation to all in-house contractor personnel by PCC



Workers received Ezlink card worth \$200 each as part of 45 Million Man-Hours without LTI milestone celebration

## 45 Million Man-Hours Without LTI



### A+ ENGINEERING PTE. LTD.

45-mil HOURS WORKED WITHOUT LTI AWARD CEREMONY  
24 August 2020

Care for the Health,  
Safety and Environment.  
Share with our Community



PETROCHEMICAL CORPORATION OF SINGAPORE (PRIVATE) LIMITED

Mr. Teng Soo Hai (Executive Director) and Mr. Daniel Ong (General Manager) received plaque from PCS General Manager (Plant), Er. Lucas Ng HK

## EDITORIAL & CONTENT

**Norshairazi Bin Norudin**  
Head, Safety

**Aisyah Abdul Rahim**  
Safety Executive

## DESIGN & LAYOUT

**Toh Yu Yin**  
Executive, Corporate Affairs &  
Sustainability

## Contributions & Special Thanks to:

**Eric Dipo Hutomo**  
Country Manager

**Muhammad Haikal Bin Zakaria**  
HSE Officer

**Masherwan Masiyatim**  
HSSE Manager

**Norshairizal Bin Norudin**  
HSE Manager, Steadfast

**Nuraman Ali**  
HSE Officer

**Victor Lee Sum Leng**  
Country Manager

**William Kong Chi Fook**  
Construction Manager

HSL Constructor Pte Ltd      T +65 6898 5225  
42D Penjuru Road S609162      E info@hsl.com.sg  
HSL Waterfront@Penjuru      W https://hsl.com.sg/