



CORPORATE

HSE NEWSLETTER

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2022

CEO's Message

UPHOLDING THE HSL COMMITMENT TO SAFETY

Workplace fatalities in Singapore rose from 30 in 2020 to 37 last year. Between January 1 and June 22 this year, there were 27 workplace fatalities, many of which could have been prevented with basic safety and health measures. This upward trend has caused the Singapore government to step up enforcement, almost doubling inspections and issuing harsher penalties for poor Safety management and outcomes^{1,2}.

As a responsible company, it is our duty to keep all our workers safe so that they can return home safely to their families. Being part of the Construction industry means that the nature of our jobs is physically and mentally demanding. A mistake or irresponsible action by anyone can lead to serious injury or even death. Lapses in Workplace Safety and Health (WSH) are unacceptable because lives are at stake.

In conjunction with the national safety time-out³, HSL held its Safety Week from 17 to 27 May 2022 across various project sites. This year's theme focuses on Mental Health & Well-Being. You may refer to our [Special Edition Safety Newsletter](#) for more details.

I am pleased to share that our Safety team has done a fantastic job in keeping everyone safe. To date, we have clocked over 11 million safe man-hours. Last year, we clocked close to 2.8 million safe man-hours. We have zero accidents reported so far this year.

However, Safety is everyone's responsibility. Many accidents are preventable if we are mentally alert at all times, and help to look out for one another. Performing work activities that are routine and repetitive does not guarantee that accidents will not happen. All employees must take WSH seriously and personally, and implement WSH measures before an accident occurs.

I would like to express my gratitude to the HR, Safety, Project and Management Teams for making HSL Safety Week a fun, enriching and meaningful event. I am also grateful for your efforts and commitment to protect our safe work culture, and I look forward to growing stronger together.

BUILDING A HIGHER-SKILLED WORKFORCE

For over two years, the pandemic caused lockdowns and disruptions to the way we live and work. As a result of tightening border measures and more stringent foreign labour controls, HSL faced increasing manpower shortage even as we strived to meet operational targets and deadlines. Today, as Singapore transitions to living with Covid-19, and with our economy reopening and activities ramping up, HSL has focused its efforts in bringing in more workers to meet operational needs. Since Q4 2021, we have successfully introduced over 200 new and returning workers to our workforce.

We have a new challenge now which is to bring our new workforce up to speed. To this end, we have streamlined a training curriculum for our new workers. We are relooking at our safety training processes such as the daily toolbox meeting, and making a concerted effort to inform and educate our workers from their very first day. By doing live demonstrations of the day's activities and going through each process step-by-step, we can equip our workers with the right knowledge and tools of how to do their job better, understand the hazards and risks involved in each role, and the importance of working together to keep each other safe.

To build a better workforce, training on the proper use of equipment and work processes is important. With higher awareness, the quality of work increases, productivity improves, and the work gets done with high efficiency and in a safer manner.

It is my wish that the people of HSL will remain resilient, work together and help one another stay safe and healthy so that the organisation continues to thrive for many better years ahead.

– Charles Quek

¹<https://www.channelnewsasia.com/singapore/workplace-safety-stiffer-penalties-mom-inspections-fatalities-injuries-2743861>

²<https://www.mom.gov.sg/workplace-safety-and-health/monitoring-and-surveillance/demerit-points-system>

³<https://www.channelnewsasia.com/singapore/workplace-deaths-safety-time-out-mom-wsh-ntuc-2671196>

HSE Sharing

Changi Water Reclamation Plant Phase 2 (C22B)

Owner : Public Utilities Board (PUB)

Main Contractor : HSL Constructor Pte Ltd

Start Date : Dec 2016

End Date : Sept 2022

HSL Safety Day 2022



HSL Safety Day 2022 was successfully executed, supported by clients, HSL management and C22B workforce. This year's theme focuses on Mental Health & Well-Being. With the COVID-19 pandemic, mental well-being becomes even more affected as a result of a shift in work patterns, lack of social support, and difficulty in balancing work life. We encourage our employees to reach out to their respective supervisors and site managers for support at work, whenever required. Well-supported employees have better mental well-being, and are more likely to be engaged and productive at work. This in turn contributes to a stronger organization and better business outcomes.



Interactive game booths highlighting on high risk activities, namely Work-at-Height and Excavation



Safety & HR team posing photo with our Chairman, Mr Lim

Environmental



Scheduled environmental control from pest control operator and inhouse on site to prevent infestation

HSL Top Management Walkabout



Site visit from HSL top management on site

Exemplary Site Practices



Distribution of HPB health booklet to create health awareness

Water parade was conducted daily to beat the heat stress during humid weather



Daily morning exercise was conducted to improve focus and cognition before entering site

Pre entry inspection on machinery to ensure site compliance prior to enter worksite

HSE Sharing

Improvement to Bedok Canal C2

Owner : Public Utilities Board (PUB)

Main Contractor : HSL Constructor Pte Ltd

Start Date : Nov 2015

End Date : End 2022

Exemplary Site Practices



Life vest donned and lifebuoy provided with towboard in place



Signages to warn public of works ongoing at the PCN

Successes:

- Successful handover of the PCN and Parks and Playground
- Traffic management well managed

Challenges:

- Whenever there is high tide in canal, workers are unable to work, therefore workers are sometimes seen idling on cantilever slab
- Dust control during dry weather period remains a challenge

Photos Throughout the Project



Skin wall rectification



Cleaning of PCN Surface before handing over



Footpath Casting



Installation of lamppost for PCN

Accomplishments

- Safe Manhours: 1,973,679 hrs (as of 31st May 2022)
- NEA feedbacked during the site visit to continue our positive efforts against mosquito breeding and noise feedback by residents

HSL Abroad

Nitrile Butadiene Latex Project – Civil & Building

Owner : LG & Petronas Chemical

Main Contractor : DL Engineering & Construction Malaysia Sdn Bhd

Start Date : 18 May 2021

End Date : 31 Oct 2022



Overall NBL project site

Nitrile Butadiene Latex (NBL) Project is the second project for HSL Constructor Sdn Bhd, Malaysia to be executed and constructed in an operating life refinery plant condition. After a year of working with various rules and SOPs from the government and client, we managed to achieve our first HSE milestone – 150,000 man – hours without LTI.

150,000 Safe Man-Hours Milestone Celebration



Best HSE Award



Speech by LGPC HSE

On 16 Dec 2021, HSL celebrated the first HSE milestone achievement for 150K safe man-hours without LTI. The event was attended by LG & Petronas Chemical (LGPC) HSE team and DL Engineering & Construction Malaysia Sdn Bhd (DL) management team. The session started with an opening speech by the project manager and LGPC/DLENC HSE officer.

Certificates were presented by HSL management to the deserving workers with the best working attitude and HSE performance.

1 Million Safe Man-Hours Milestone Celebration



Group photo to commemorate celebration



Speech by Petronas Lead

On 4 April 2022, DL HSE team celebrated the milestone achievement for 1 Million safe man-hours without LTI. The session started with an opening speech by PGPC CEO and Petronas HSE.

Certificates were presented by the top management to the deserving workers with the best working attitude and HSE performance.

HSL Abroad

Bintulu Methanol Plant Project - 1



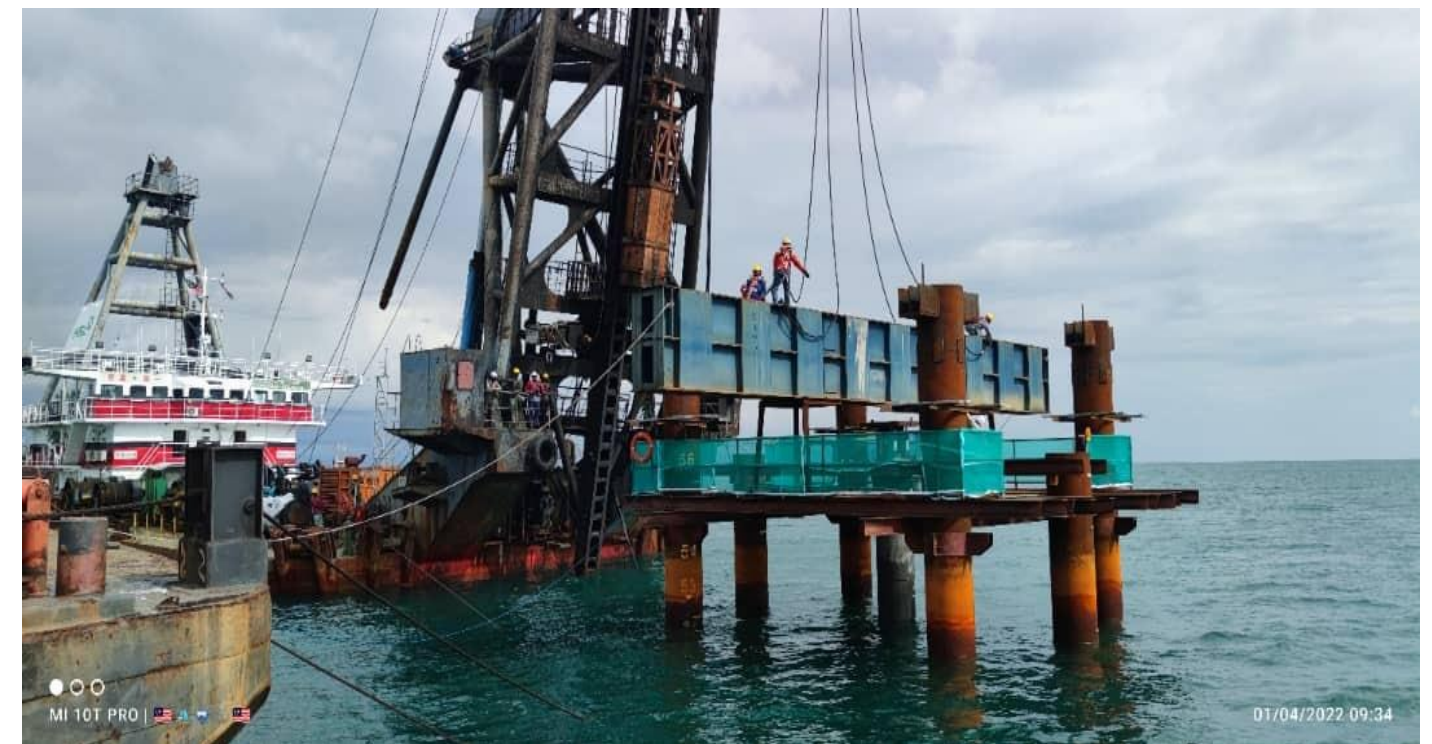
- Owner** : Sarawak Economic Development Corporation (SEDC) Petchem Hub
- Client** : China Communication Construction Company (M) Sdn Bhd
- AI's scope of work** : Marine Test Piles
- Work Duration** : 3 Months
- Project Status** : In Progress

Malaysia faces two monsoon wind seasons every year. They are the Southwest Monsoon from late May to September, and Northeast Monsoon from October to March. Normally, Northeast Monsoon brings in stronger wind and swell, as well as more rainfall compared to Southwest Monsoon.

Bintulu Methanol Plant Project is located at the open sea area near to South China Sea. SGP 3 entered Bintulu sea end-August 2021 with 10 technicians onboard. Upon arrival, SGP 3 and her technicians were quarantined for 14 days as per requirement from local authorities. Our technicians were also required to receive their vaccinations before we could enter the project site. After arranging for the first vaccination, SGP 3 and the technicians managed to enter the project site. However, they faced Northeast Monsoon from October to December. During monsoon season, SGP 3 faced high swell and strong waves onsite. During the night, condition of the waves and swells were worse compared to daytime, causing the anchoring wire of SGP 3 to break a few times at night during monsoon season. Anchor tug and tug boat were sent to assist SGP 3 on wire reconnecting. After discussion with our client, we came to an agreement that they will provide tug boat and anchor tug to assist in towing SGP 3 to shelter during monsoon period.



First project construction pile driven by SGP 3 at Bintulu Methanol Project



Platform installation for test pile

HSL Abroad

Sepangar Bay Oil Terminal Project -1



Owner	: Sabah Ports Sdn Bhd
Client	: China Harbour Engineering Company Construction (M) Sdn Bhd
AI's scope of work	: Installation of 183 nos of Steel Pipe Piles
Work Duration	: 3 Months
Project Status	: In Progress



Positioning for SGP 3 for piling work

To keep ourselves protected from the high COVID-19 infection rate, all our SGP 3 technicians are fully vaccinated and we follow stringent standard operating procedures diligently.

Limited site working areas are available due to the operating jetty next to the project site. Thus, SGP 3 anchoring system is affected. Currently, 119 nos of piles with 610mm diameters have been driven and all are in tolerance pile eccentricity check and approved by client with flying colours.

Positioning SGP 3 and material barge without anchor tug is another challenge that was being faced in SBOT Project. Instead, 2 tug boats and 1 crane barge were used for anchoring and positioning of SGP 3 which inevitably caused some delay. SGP 3 needs to coordinate precisely with client to minimize the delay. Communication is key for the successful operation during this harsh period.

HSL Abroad

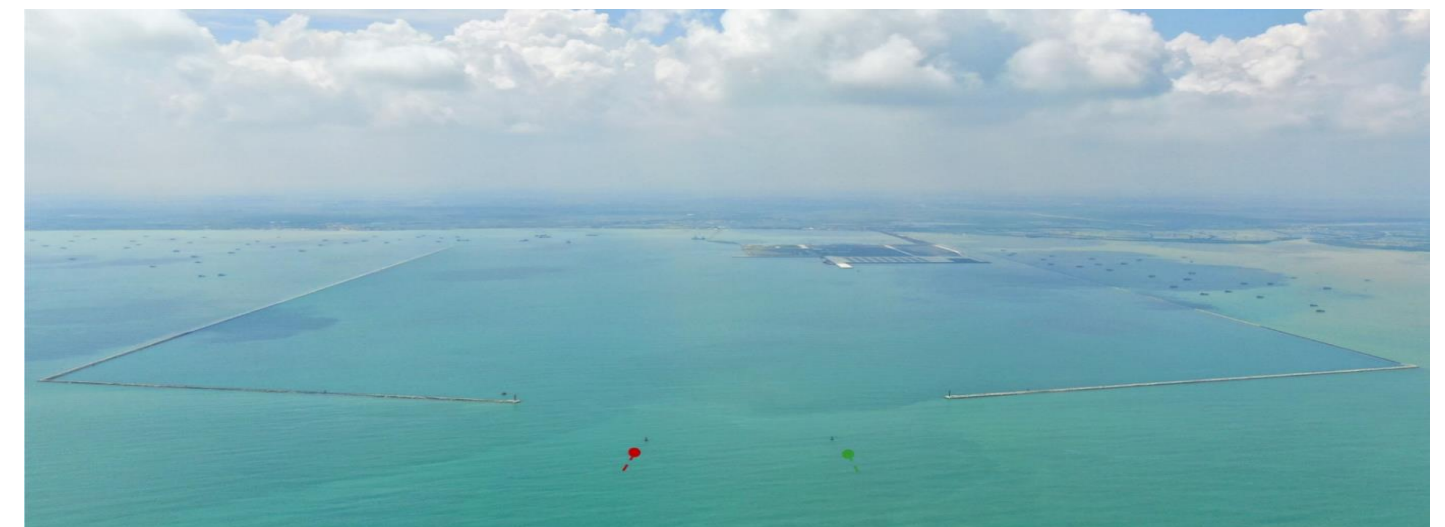
Construction of Seawall for Patimban Port Package 2, Subang, West Java



Owner	: Directorate General of Sea Transportation of Republic Indonesia
Main Contractor	: Toyo – Adhi - Wakachiku Joint Operation
Scope	: Piling Works, Precast Fabrication Works, Precast Installation Works
Project Status	: Completed (November 2021)



Patimban Project is an infrastructure project developed by the Indonesian and Japanese governments through JICA. Despite difficulties due to the Covid-19 pandemic such as increased safety and quarantine measures in place, we had safely completed the project and were awarded 'HSE Excellent Contributor Award' with Zero Accident by our main contractor.



Patimban Project after project completion

HSL Abroad

Jetty Terminal Khusus Kobexindo, Kutai

- Owner** : PT. Kobexindo Semen and PT. Hongshi
- Main Contractor** : CSCEC
- Location** : Kutai, East Kalimantan
- Scope** : Piling Works
- Status** : In Progress



East Kutai is located in the special economic zone of East Kalimantan, which has a focus on developing Industrial Areas and International Ports. PT. Kobexindo Semen and PT. Hongshi are currently collaborating in the construction of the Largest Cement Plant in Indonesia with a production capacity of up to 10 million tons of cement per year. With no doubt, the piling works of 500nos of piles by HSL will become the foundation of success for Kobexindo Special Jetty Terminal Project.

In strong spirits to do our 'bread and butter' Piling Work safely, our SGP6 team who had successfully completed Morowali Project in March 2022 shall carry the same commitment to complete the Kutai Project with same attitude, that is to compete the project with Zero Accident



Patimban Project after project completion



Toolbox meeting before activities

HSL Abroad

Coal Fired Steam Power Plant 2 x 50 MW (Sulut-1 CFSP Project)

- Owner** : PT. PLN (Persero)
- Location** : Bolaang Mongondow Utara (Sulawesi Island)
- Scope** : Pilling
- Status** : In Progress



Working in a Power Plant Project where there are more stringent safety requirements (Oil & Gas safety implementation), our team conducted every required training diligently as they prepare to deliver the project safely and add to our excellent and safe track record in Indonesia.



Induction before enter the facilities



Toolbox meeting before activities



Inspector gave instruction during drilling



Drilling for basic sea survival, crew form huddle position

Steadfast Engineering & Construction (SFEC)



Certifications & Awards



We have underwent & passed the Surveillance audit for all 3 ISO certification (ISO 9001,14001 and 45001).



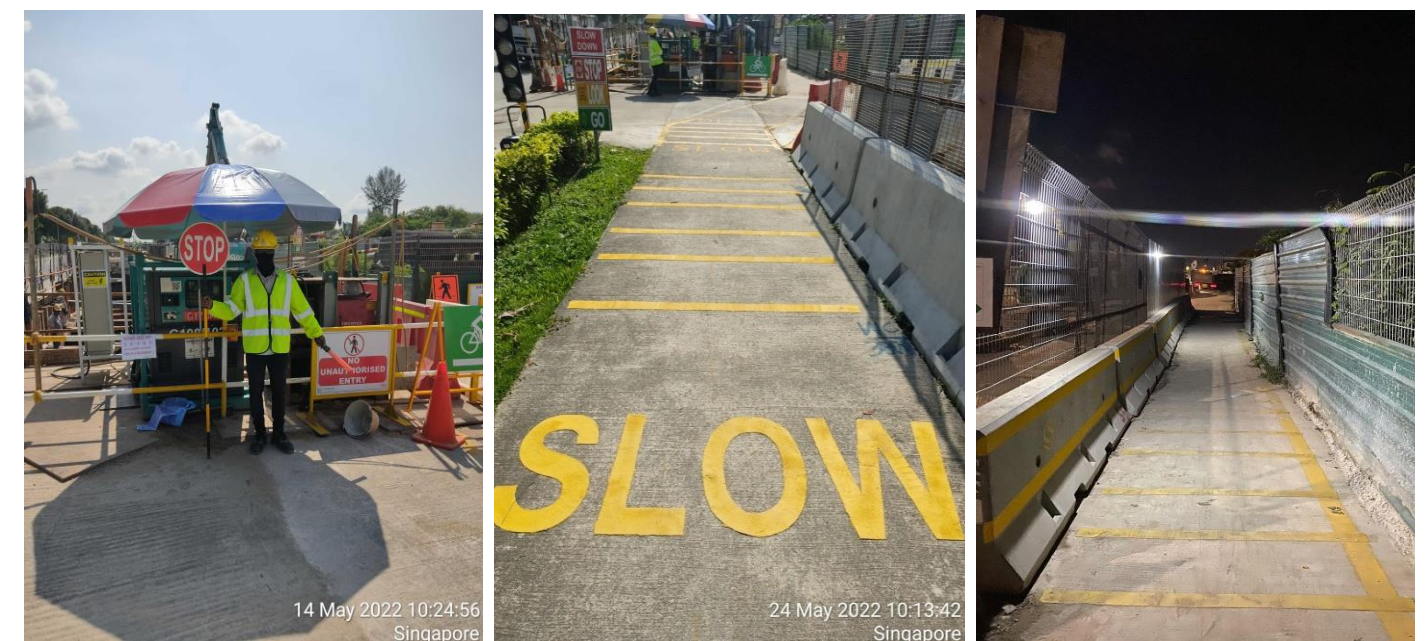
We renewed the Bizsafe Star certificate till May 2023. We have also maintained our merit status for BCA's Green & Gracious Builder Award which has been renewed till October 2023.

HSE Sharing

Sewerage Scheme to serve Pulau Punggol Barat Contract 3 - Proposed Pumping Mains & Pipe Bridge

Client : Public Utilities Board
Main Contractor : HSL Constructor Pte Ltd
Consultant : CPG Consultants
Start Date : July 2021
End Date : Dec 2024

Exemplary Practices



Provision of full-time banksman to direct traffic

SLOW signage painted for cyclist and pedestrians

Installation of additional lights for cyclist and pedestrians

Successes:

- Good housekeeping observed
- Traffic management well managed

Challenges:

- Space constraint on site
- Cyclist dashing through the site could cause hazard to every stakeholder

C3 Punggol Barat Project Site Safety Day Celebration



Safety Day celebration at C3 Punggol Barat project site on 27th May 2022



Opening Speeches by Project Manager, Lim Chee Ming



Interactive game booths highlighting high-risk activities namely Excavation



Educational information on Mental Well Being

HSE Sharing
P029-Duckbill Valve Replacement Work

Client : Public Utilities Board

Main Contractor : Steadfast Engineering & Construction Pte Ltd

Start Date : July 2021

End Date : Nov 2021

Steadfast conducted the underwater dredging using airlift method. Stones (maximum 4inch) were to be removed by airlift method.

External spuds were used for deep sea barge parking instead of anchorage. Its reduced barge shifted timing & avoided anchorage failures during rough sea.

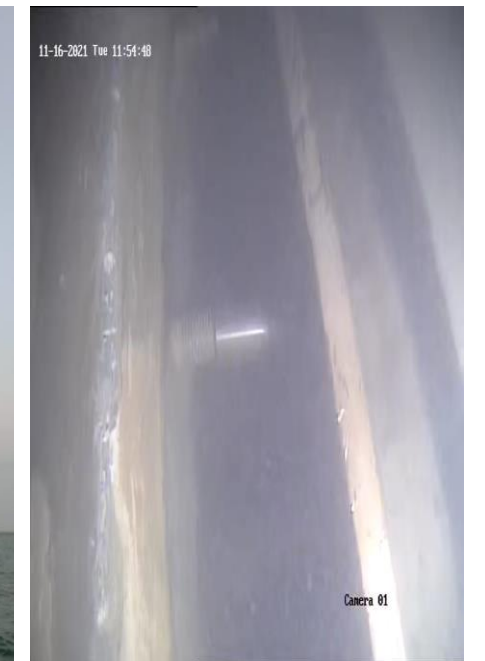
Guide Bullets were used for underwater duckbill installation to prevent existing duckbill thread from being damaged during installation.



Air Lift Method



External Spud for Barge Parking

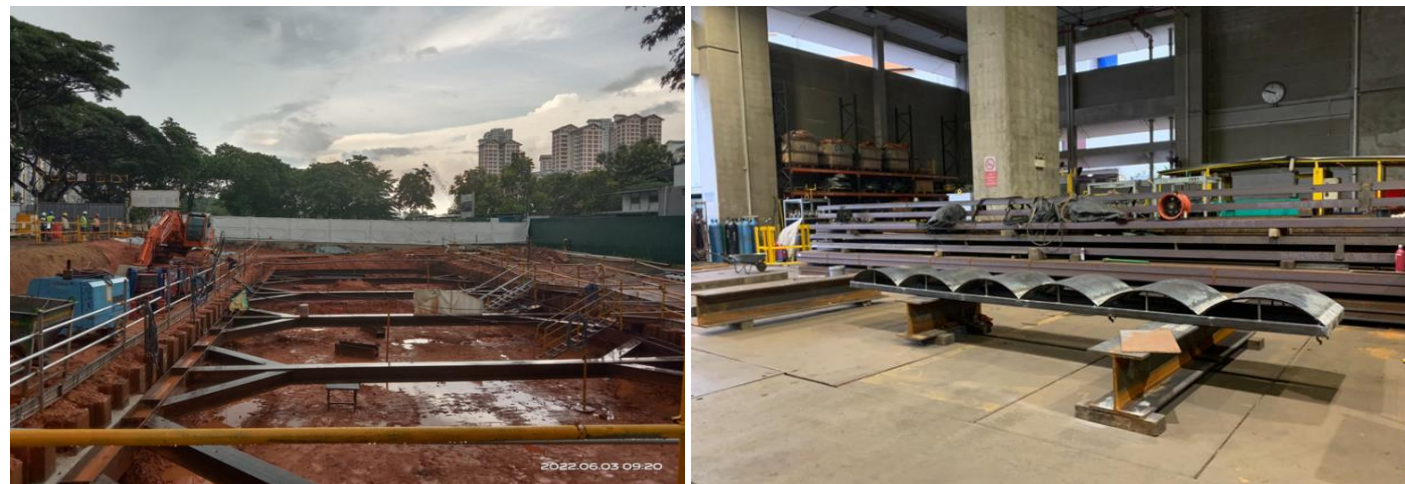


Guide Bullets

HSE Sharing

P036-N109A - Design & Construction of North South Corridor

Client : Land Transport Authority
Main Contractor : Shanghai Tunnel Engineering Co (Singapore) Pte Ltd
Start Date : Apr 2022
End Date : On-going



ERSS Works – Bolt & Nut (Joint Type)

System Formwork

Steadfast uses bolt & nut joints instead of welding joints. This helps to reduce work risk, improve timing and reduce consumable price.

System formwork is used for guide wall casting, resulting in better productivity, easy handling and prevents formwork failures.

HSE Sharing

JTC Retention Pond (Jurong Island)

Client : JTC
Main Contractor : HSL Constructor Pte Ltd
Start Date : March 2021
End Date : March 2022



SFEC is thankful for the opportunity to be part of the efforts to co-create a sustainable energy and chemicals park. The 136,500 m³ retention pond serves as water catchment for 80 Ha of surrounding land – equivalent to 112 soccer fields – and protects against future high-intensity rainfall.

Safety Initiatives



28 May 2022 15:40:13
Singapore



28 May 2022 07:59:02
Singapore

Monthly Fruits Day are conducted onsite

Vouchers are presented to deserving workers in recognition of their good safety performance monthly

Emergency Drills

At Punggol C3, we conducted a scenario of a fire at Zone 1 area. All project personnel are involved including staffs.



Workers gathered at assembly area while waiting for headcount to be conducted



Safety Demo on how to safely use the fire extinguisher

Mighty Engineering & Construction A+ Engineering



An All Mighty Event for All Mighty People



On 22th April 2022, Mighty gathered its workers to break fast together following a prayer session. It was an opportunity for us to share the joy and happiness of Ramadan and strengthen the relationship among employees.

Safety Time Out



10 May 2022 7:48:18 am
Singapore

On 9th May 2022, Safety Timeout was conducted across all project sites as per advised by the Ministry of Manpower (MOM), Workplace Safety and Health (WSH) Council, National Trades Union Congress (NTUC) and industry partners to conduct a Safety Time-Out (STO).

Management Site Walk

Management Site Walks are conducted at different Mighty project sites on a rotating basis. The site walks are attended by the general manager, site manager, QAQC and safety team.



Exxon Mobil (Feb 2022)



Bukom (Feb 2022)



PCS (March 2022)



Pfizer (April 2022)



FMC (April 2022)



PCS (June 2022)

Safety Day 2022



Safety Day celebration at Exxon Mobil project site on 17th May 2022



Safety Day celebration at PCS A+ project site on 18th May 2022



Safety Day celebration at HQ for workers from Workshop, Bukom, Pfizer, BASF, Neste and Various Mechanical Site on 20th May 2022



Supervisory Training

As part of the continuous development philosophy, Mighty conducted the supervisory enhancement training to equip each and every supervisor with the right skills and mindset. In whole, this series of 6 carefully crafted trainings seek to provide the opportunity to learn new knowledge, unlearn bad habits as well as re-learn old wisdom.

Feedback from supervisors on pain-points and issues at worksite are gathered, and future trainings will serve as a discussion platform to overcome challenges and achieve better outcomes onsite.



HSE Sharing

Pfizer API Project, C04- Sub-Structure Works



Pfizer team celebrated 3 Million Safe Man-Hours on 13th May 2022

One of the first things that a person notices when he or she steps into the Pfizer site is the way construction works are carried out. From digital turnstiles, well demarcated barricade system, banners of workforce commitment to safety, signs of safety achievements, to the way listening tours are conducted to understand ground sentiments; they all convey the level of commitment that Client Pfizer and Main Contractor Exyte have towards an Incident Free Workplace (IFW).

Mighty's involvement in the civil substructure package for the Pfizer Expansion Project has seen works being expedited on all fronts; day and night. Being fast-tracked which is the norm for pharmaceutical facilities projects, the pace of construction demands close communication between stakeholders and constant planning to keep up with the development onsite.

The Incident Free Workplace (IFW) initiative illustrates the concept that safety is a pre-condition – akin to breathing, in which all mankind cannot do much else if we do not remember to breathe frequently – instead of being a priority, which means there is a choice to make. Safety shall always be in place from the onset to steer organizational behaviours.

During the celebration of the 3 Million Safe Manhours Celebration, Mighty was commended as the Top 5 Contractors for the safety performance in May 2022. Embarking on the IFW journey has certainly brought new insights to the team and undoubtedly steered the way safety is being commanded for future projects.



Top 5 Contractors in Pfizer Expansion Project



Team Photo



Incident-free Workplace Recognition

Management Site Walk

Management site walks emphasize the importance of interpersonal contact, open appreciation and recognition. It is one of the most important ways to build civility and performance in the workplace.



Management Site Walk at A+, PCS on 2nd March 2022

A+ Emergency Drill

Emergency drills are essential for every business. **Practice makes perfect** – experience gained through emergency drills is very important. It gives us the understanding on what to do in case of a real emergency. We should ensure that everyone knows the emergency evacuation procedure to prepare for a real scenario.



Walking to assembly area in an orderly manner



Headcount & Briefing at assembly area

Safety Promotion



The staff received umbrella & water bottle from PCCA/PCS as reward for achievement of 50 million man-hours without LTI

PCS employees and contractor have jointly achieved a combined 50 million hours worked without lost time injury as of January 2022. This achievement is amidst the unprecedented Covid-19 pandemic situation and shutdown maintenance in 2021.

Safety Day 2022



PCS A+ team celebrated Safety Day on 18th May 2022 with the theme centered on Mental Health & Well Being

EDITORIAL & CONTENT

Norshairazi Bin Norudin

Head, Safety

Aisyah Abdul Rahim

Safety Executive

Contributions & Special Thanks to:

Ang Wei Khang

Project Engineer

Eric Dipo Hutomo

Country Manager

Ilham Widyana

Business Development Manager

Izwan Zarif

HSE Officer

Muhammad Haikal Bin Zakaria

HSE Officer

Masherwan Masiyatim

HSE Manager, Mighty, A+

Muhamad Ithnin Bin Alias

HSE Officer

Norshairizal Bin Norudin

HSE Manager, Steadfast

Paramesh Satheesh

Construction Manager

Safer Today for a Better Tomorrow



HSL Constructor Pte Ltd

42D Penjuru Road S609162

HSL Waterfront@Penjuru

T +65 6898 5225

E info@hsl.com.sg

W <https://hsl.com.sg/>