



FREELANDER

TECH



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THE COMPANY



We have been incorporated since March 2014 as an independent company owned and operated by Bruneians. We are the successful pioneers to introduce Vapor Abrasive Blasting Technology utilizing ECOQUIP in Brunei Darussalam within Brunei Shell Petroleum Operations.

Our Quality and Environmental Management system rest assures our clients will be served with the highest quality if service, reliable, safe, cost effective and eco-friendly. Our environmentally friendly approach will enable them to increase their yearly production revenue without giving negative impact to the environment and stability of the eco system.

INTEGRITY

TRUST

DIVERSITY

INNOVATION

QUALITY

TEAMWORK

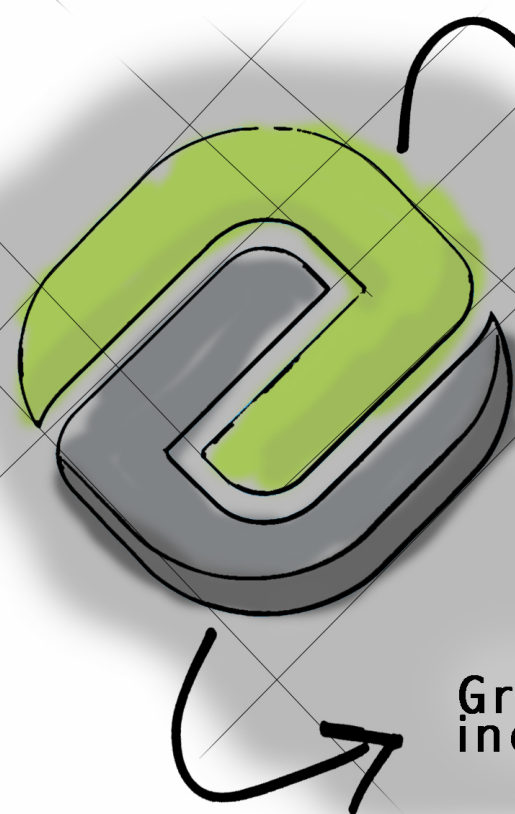
SUSTAINABLE



FREELANDER LOGO



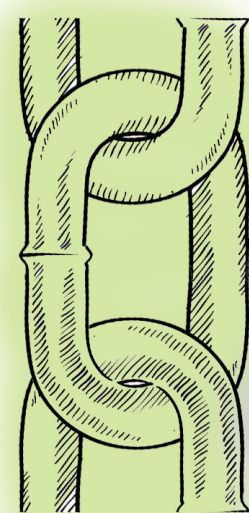
Ultimately, the logo represents the company's objective and goals towards technological advancement in industrial operation, while putting forth and formost the environment. Simply, an unbreakable bond.



Green to emphasize the company's objective to be environmentally friendly.

"Care" about the environment.

Grey is used to represent industrial/technology colour.



The shape derives from steel chain to present toughness and integrity.



**FREELANDER
TECH**

WHAT WE ASPIRE TO BE

OUR VISION

TO BE AN INDUSTRY LEADER IN
SURFACE PREPARATION AND COATING SERVICES
COMPANY IN BRUNEI DARUSSALAM.

WHO WE ARE, WHAT WE DO

OUR MISSION

TO DEVELOP AND MAINTAIN LONG TERM RELATIONSHIP
WITH OUR CUSTOMERS
BY DELIVERING INNOVATIVE, QUALITY AND
ENVIRONMENTALLY FRIENDLY PRODUCTS AND
SERVICES AND TO SATISFY OUR STAKEHOLDERS FOR
SUSTAINED SUCCESS.

.....
Managing Director

Date: 01.09.2020



**FREELANDER
TECH**

WHAT WE PROMISE

QUALITY POLICY

1. We have commitment for Customer Focused Quality Management System.
2. Leadership has taken accountability of Quality Management System.
3. We empower to engage people for the Quality Products and Service
4. We apply Process Approach throughout our Organization
5. Persistent, tenacious and continual improvement
6. We use Evidence based approach for decision making
7. We keep long term suppliers' relationship
8. We address the Risk & Opportunities
9. Stand for Legal Compliance & Stakeholders' satisfaction
10. Excellence in Strategies & Innovations to achieve Sustained Success

OUR GOALS

QUALITY OBJECTIVES

1. 80% Customer Satisfaction by this year
2. Customer Complaints less than 10 this year
3. 100% delivery of quality performance on time

Managing Director

Date: 01.09.2020



**FREELANDER
TECH**

WHAT WE PROMISE

ENVIRONMENTAL POLICY

1. Visionary Leadership with Accountability and Responsibility.
2. We are committed to protect the Environment.
3. We will prevent Air, Water & Land Pollution.
4. Stand for Statutory & Regulatory Compliance of Brunei.
5. **Understand the Context and Stakeholders' Needs & Expectation.**
6. We will address both the Risk & Opportunities.
7. Sustainability with Continual Environmental Improvement.

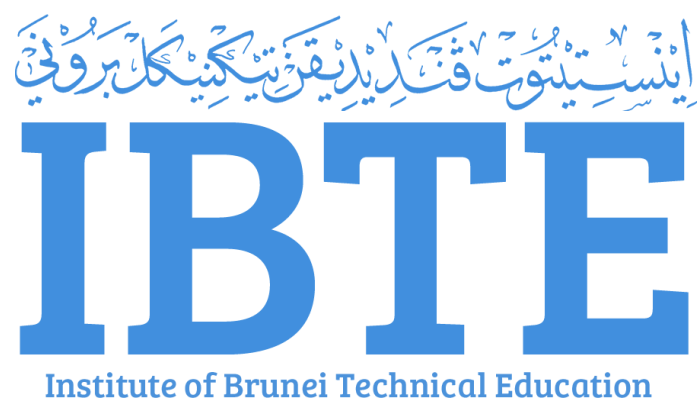
OUR GOALS

ENVIRONMENTAL OBJECTIVES

1. Environment Protection as maximum as Reasonable & Practicable.
2. Prevention of Water & Land Pollution As Low As Reasonable and Practicable.
3. Prevention of Air Pollution As Low As Reasonable and Practicable.
4. 100% Compliance to Brunei Law & Regulations.

Managing Director
Date: 01.09.2020

PROUD MEMBER OF AMPP, IRATA AND IBTE PDEC



Freelander Tech Sdn Bhd is a part of the Programme Development and Evaluation Committee for ISQ Blasting and Painting



We provide IRATA certified Rope Access Technician and an operating member of IRATA.



Corporate member for SSPC, since 2021 SSPC and NACE has become a joint organisation under AMPP. Being a member enables FTSB to be up to date with industry innovation and best practices

CERTIFIED

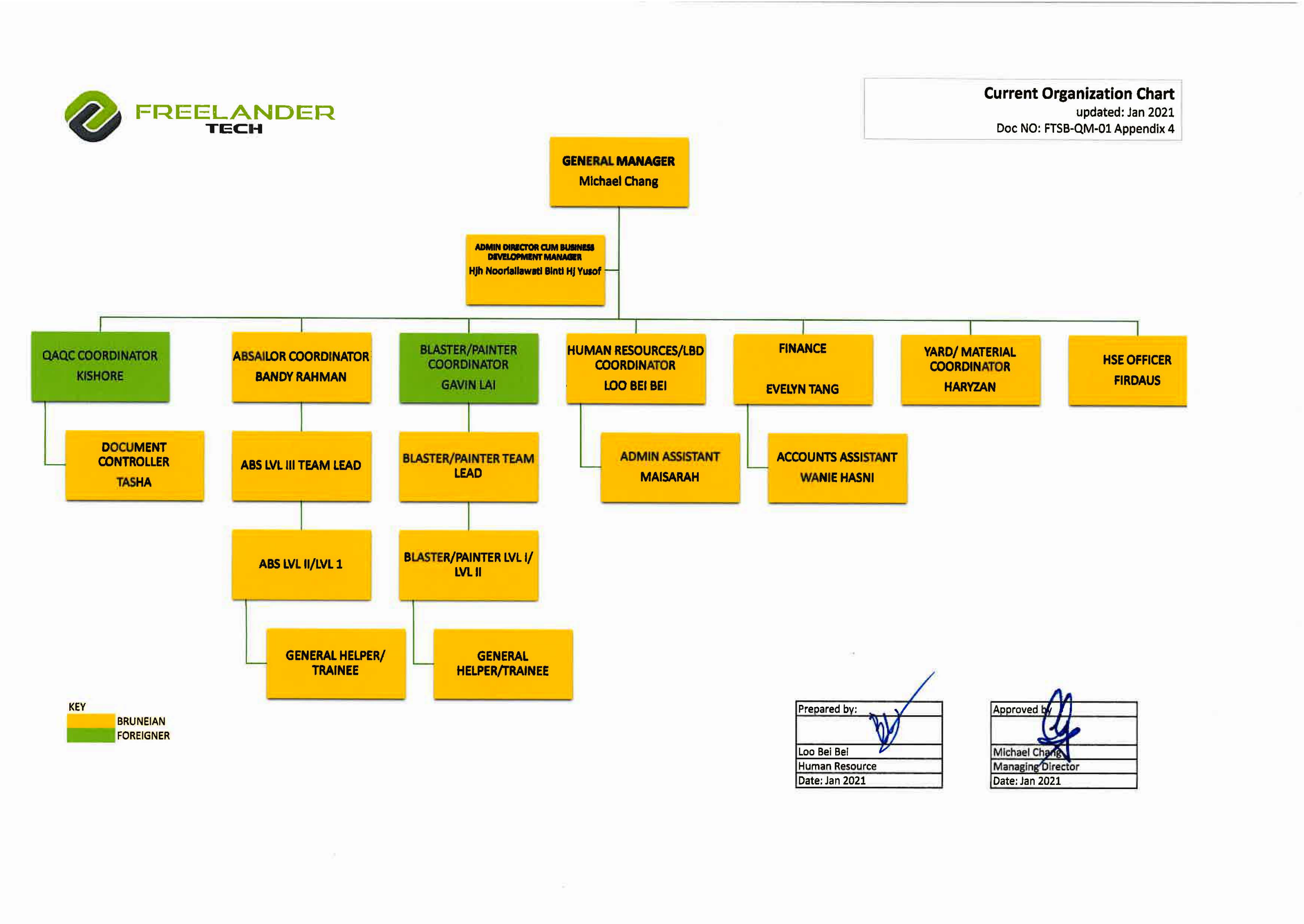


Freelander Tech Sdn Bhd is certified for both ISO 9001:2015 Quality Management System and ISO 14001:2015 Environmental Management System

The Team

Teamwork

Our workforces are our strength, our human capital comprises of various experts with are highly qualified and skilled professionals; compromising of managers and technician with vast experience in the Oil & Gas industries. This team will bring their valuable knowledge in Project Management, Execution, Inspection, and Health & Safety to the company. This team of exceptional individual along with their strong background and track record are ready to serve the industry with professionalism and dedication to exceed client’s expectation.





"AT FREELANDER TECH BRUNEI, IT IS A WORTHWHILE ATTEMPT FOR US TO BUILD A HAPPY BUSINESS WHEREBY WE STRIVE TO FULLY UNDERTAKE OUR SOCIAL RESPONSIBILITY IN BUILDING A GREEN AND SUSTAINABLE BUSINESS, LEADING AS AN EXAMPLE OF A COMPANY THAT CONTRIBUTES TO GREEN ENVIRONMENT, UPHOLD NATION EXPECTATION AND "TEAMWORK"

Michael Chang - MD

The Team

Local Business Development

At Freelander Tech Sdn Bhd we are committed in developing local Bruneians to become highly skilled and accomplished people aligned with Wawasan Brunei 2035. We believe our people are our greatest Assets.

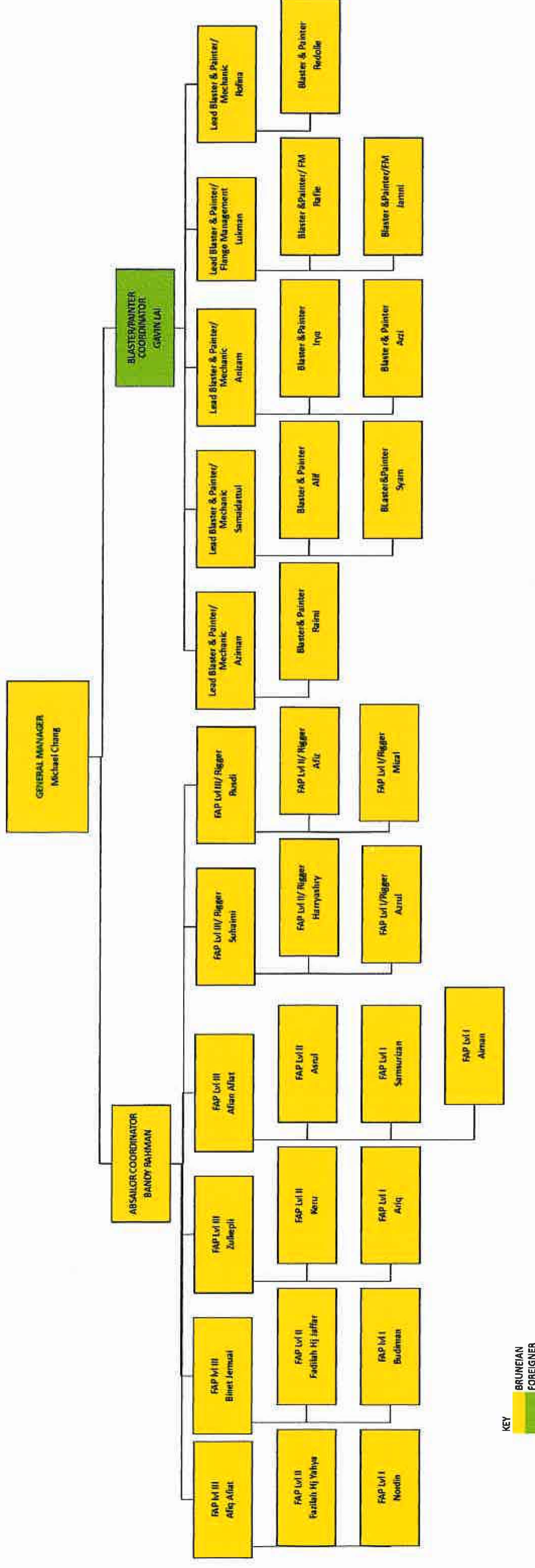
Since operating, Freelander Tech Sdn Bhd has maintained a **95%** LBD content within its organization.

Multi-Skill Development

At Freelander Tech Sdn Bhd we believe in skill diversification that may create opportunities for both company and personal workers career development. Areas that are currently multiskilled are:

1. Blaster Painters cum Mechanic
2. Blaster Painters cum Flange Management (Bolt Torquing)
3. IRATA certified Rope Access First Aid Painters cum blaster painter
4. IRATA certified Rope Access First Aid Painters cum Rigger for Corrosion Under Pipe Supports





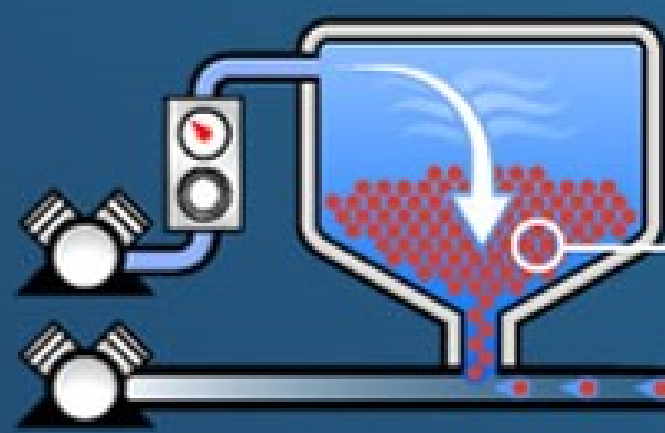
Prepared by:	
Loo Bel Bel	
Human Resource	
Date: Jan 2021	

Approved by:	
Michael G. Smith	
Managing Director	
Date: Jan 2021	

The Technology

1

Vapor Abrasive Blasting Suppresses Dust



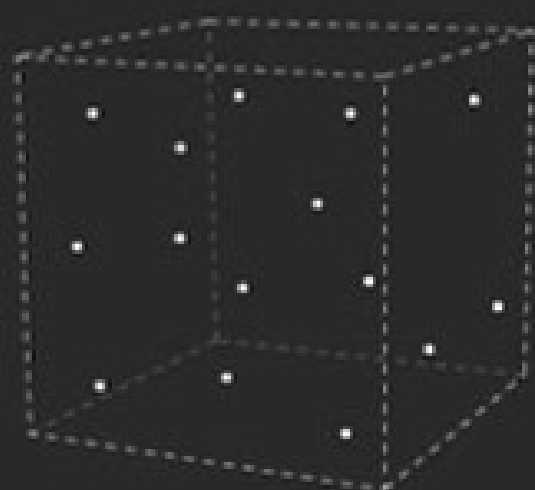
Vapor abrasive blasters blast **moist** abrasive.

Abrasive and water in a pressurized pot.



When particles pulverize on impact the debris is **trapped** in a water jacket.

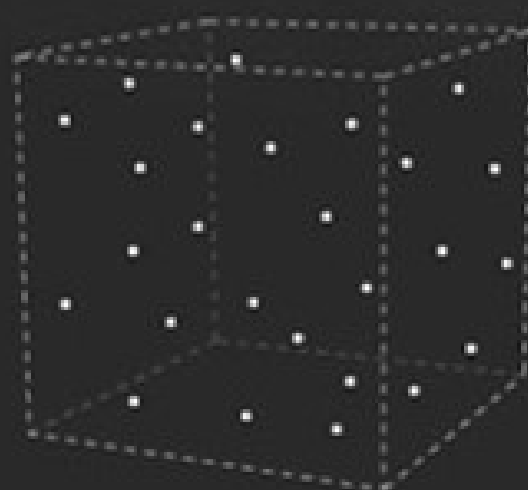
This suppresses dust up to 92% compared to dry blasting.



Permissible Exposure Level

15 mg/m³

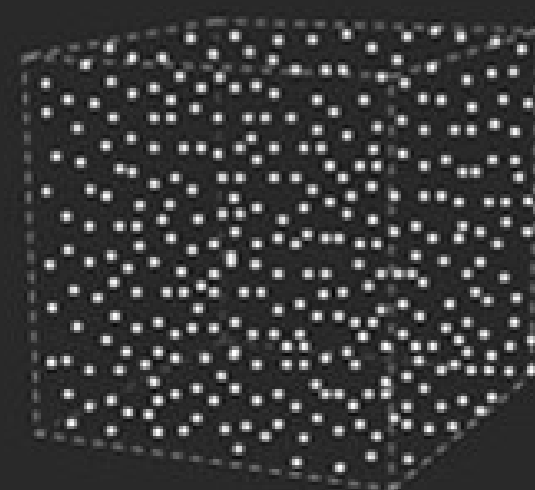
Dust (OSHA)



Vapor Abrasive Blaster

26 mg/m³

Particle Density, Garnet Dust



Traditional Dry Blaster

294 mg/m³

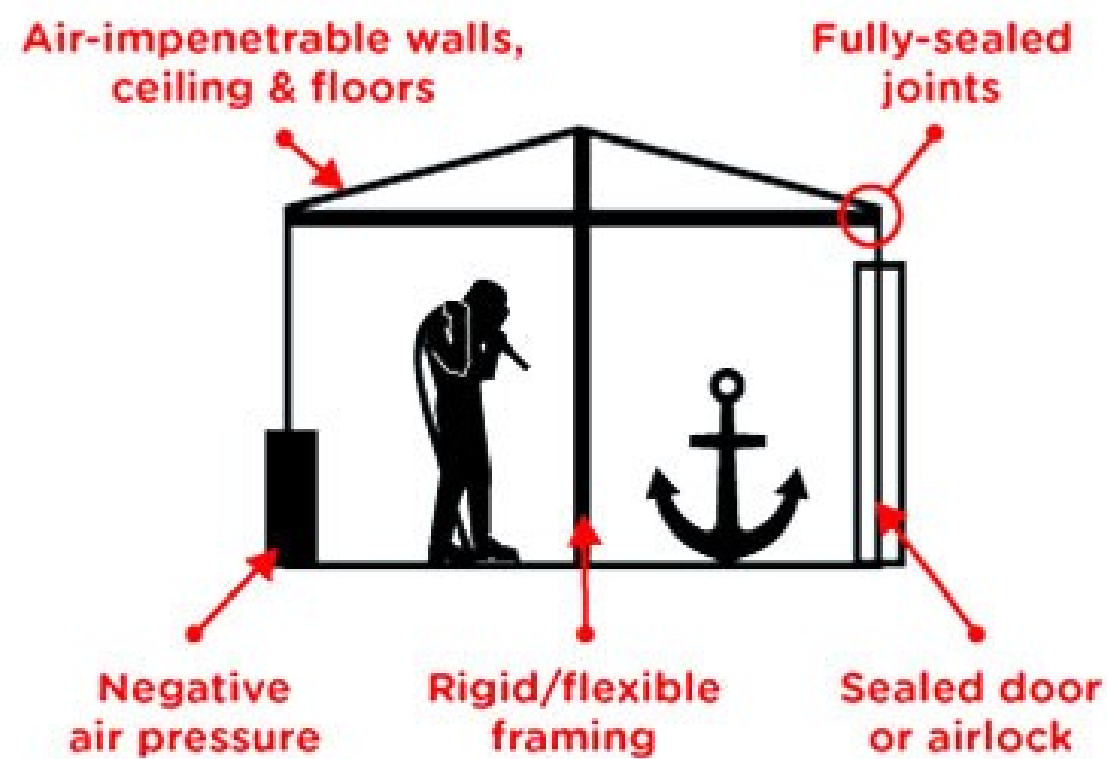
Particle Density, Garnet Dust

2

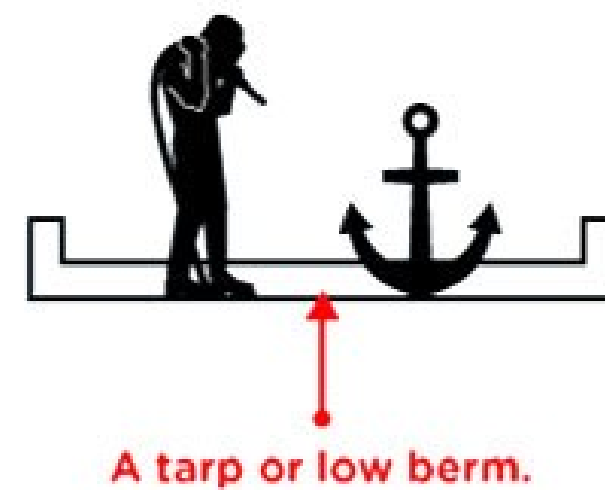
Minimal Dust = Minimal Containment

In many cases, where full containment is required for dry blasting, the requirements for vapor abrasive blasting are **much less stringent**.

Traditional Dry Blasting



Vapor Abrasive Blasting



Less work assembling, disassembling and moving containment, less material cost of containment + **the job gets done faster.**

3

Vapor Abrasive Blasting is Safer

Traditional Dry Blasting



Vapor Abrasive Blasting



+

No dust cloud or mud splatter = Increased visibility for operators = Less workplace accidents

4

Vapor Abrasive Consumes Less Media

Wet particles do more work due to increased mass and hydrostatic force so blasters can use a **finer grade of abrasive**, resulting in **more impacts**, and **lower media consumption rate**.



5

Vapor Abrasive Consumes Less Water

**80%
LESS WATER
THAN SLURRY
BLASTING**

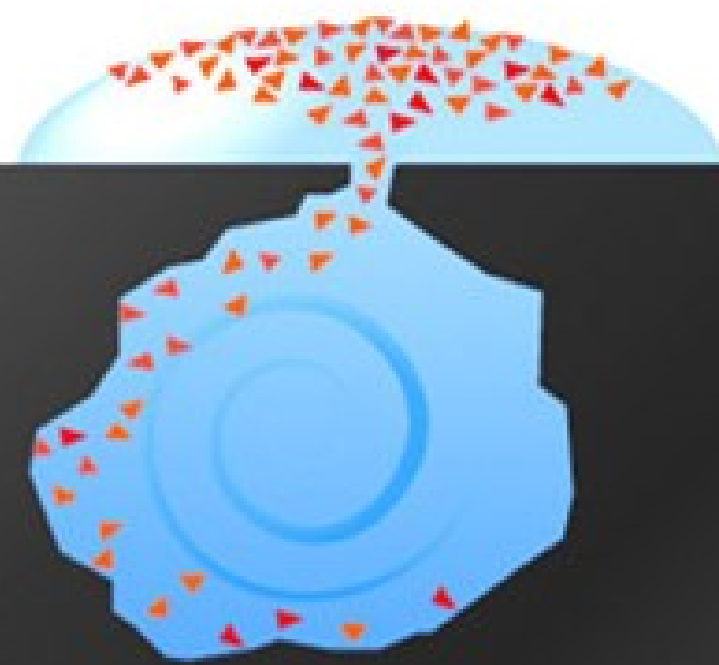
+
no big, gritty
mudpuddle to clean up,
treat and dispose of



7

Vapor Abrasive Cleans + Washes Surfaces

Vapor abrasive blasting cleans surfaces like sandblaster, only better. It **washes rust out of pits and crevices** and **rinses off soluble salts** and other contaminants **that cause flash rust**.

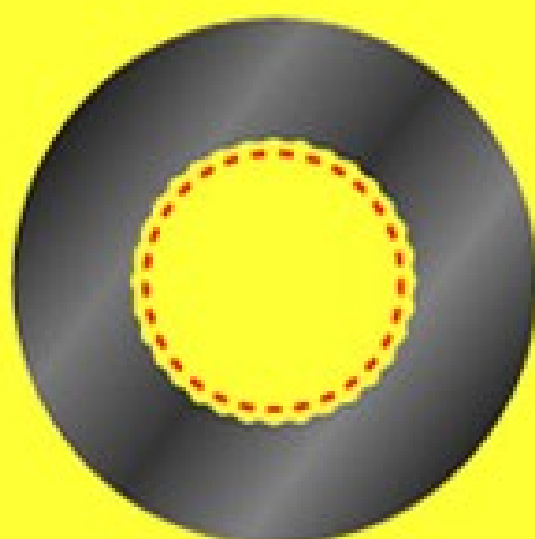


8

Equipment Lasts Longer

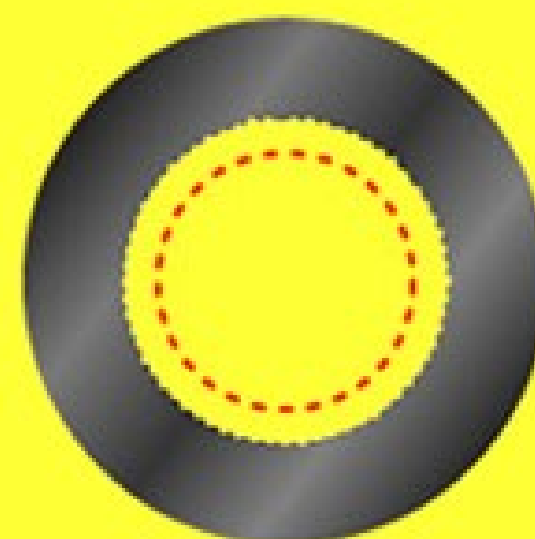
Because the abrasive comes out of the pot lubricated, it causes **less wear** on your **nozzles, hoses** and **valves**.

Vapor Abrasive Blasting



1/8" nozzle
tungsten carbide
after 400 hours
of blasting

Traditional Dry Blasting



9

Vapor Abrasive Has More Applications

With **highly adjustable pressure**, vapor abrasive blasters can prepare a wide range of substrates - from blasting white metal to cleaning delicate surfaces - making it a **versatile workhorse**.



Metal Blasting &
Surface Prep



Concrete
Cleaning



Marine
Maintenance



Disaster
Recovery



Antique
Restoration

10

Blast Economically in More Environments

With **reduced containment and cleanup**, vapor abrasive blasters can take on projects that would be expensive for traditional dry blasting, such as **within municipalities** and in **environmentally sensitive areas**.



THE BOTTOM LINE

Vapor abrasive blasting **reduces operating costs** substantially and **expands blasting opportunities**.

REPORT

Testing of the Graco EcoQuip Vapor Abrasive blast equipment in explosive atmospheres.

GEXCON

Testing of the Graco EcoQuip Vapor Abrasive blast equipment in explosive atmospheres.
Report

Ref. No.: Gexcon-19-F100729-RA-1
Rev.: 01 Date: 26.06.2019
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4 Conclusion

The Graco EcoQuip Vapor Abrasive blast equipment was tested in explosive atmospheres of n-hexane to determine whether the blasting process would yield an ignition. The testing was conducted to support Graco's ATEX ignition hazard analysis for category 2 equipment, zone 1 explosive atmospheres.

Testing was performed on both rusted steel and aluminum with 5 different types of abrasives:

- 30/60 mesh Garnet (GMA)
- 80 mesh Garnet (GMA)
- Fine Copper Slag 0.2-1.0mm grit size (Star Grit)
- Coarse Copper Slag 0.4-1.9mm grit size (Star Grit)
- Fine Crushed Glass 0.2-0.6mm

N-hexane concentrations around 7% were normally used as the starting concentration and diluted to around 4% for all tests. None of the tests yielded an ignition.

As such the equipment can be used in potentially hazardous areas involving explosive atmospheres caused by gases and vapors of the Subgroup IIA.

Client
Graco Inc

Author(s)
Matthijs van Wingerden

3rd Party Test on Explosive Atmosphere

The test conforms that ECOQUIP can be utilize in potentially hazardous areas involving explosive atmospheres caused by gases and vapors of the subgroup IIA.

This enables surface preparation work to be done using VAB on sensitive areas i.e wellheads on a live platform (ref: Test CPDP-07). Making maintenance work to go simultaneously without disrupting production.

HSE, IS OUR PRIORITY

MANHOURS SINCE LAST LTI

656542

AS OF FEB 2021

FREELANDER-TECH



**BEST PAKAT
AUGUST 2020**

**Freelander-Tech Sdn Bhd
BEST PAKAT JUNE 2020**



creating a positive safety culture



HEALTHY LIFESTYLE PROGRAMS

HSSE

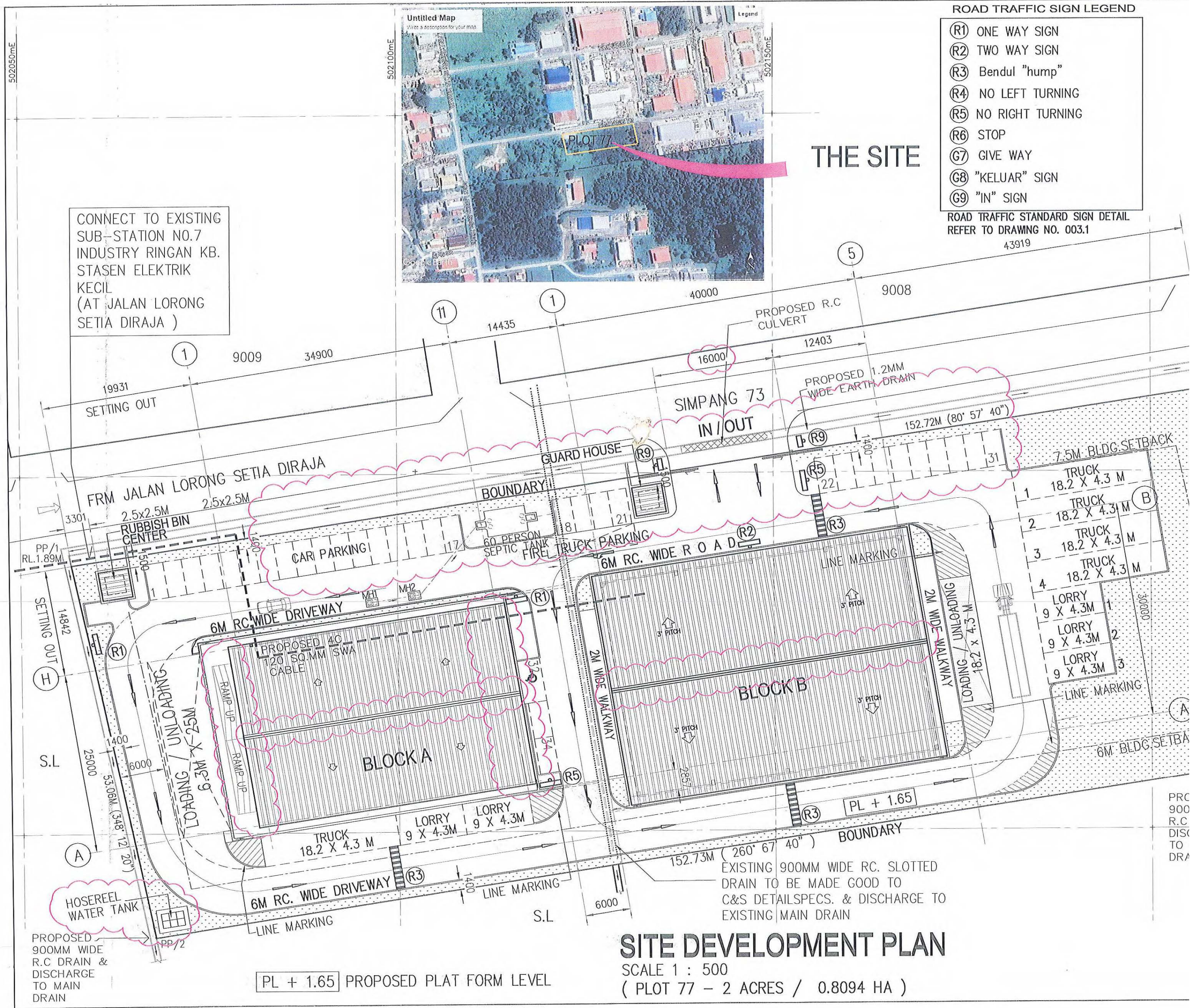
Health, Safety, Security, Environment

12 Life-Saving Rules



 <p>Work with a valid Work Permit when required</p>	 <p>Do not walk under a suspended load</p>	 <p>Verify isolation before work begins and use the specified life protecting equipment</p>	 <p>Wear your seat belt</p>
 <p>Obtain authorisation before entering a confined space</p>	 <p>Protect yourself against a fall when working at height</p>	 <p>Conduct gas tests when required</p>	 <p>While driving, do not use your phone and do not exceed speed limits</p>
 <p>No alcohol or drugs while working or driving</p>	 <p>Obtain authorisation before overriding or disabling safety critical equipment</p>	 <p>Do not smoke outside designated smoking areas</p>	 <p>Follow prescribed Journey Management Plan</p>

OFFICE & WAREHOUSE FACILITIES





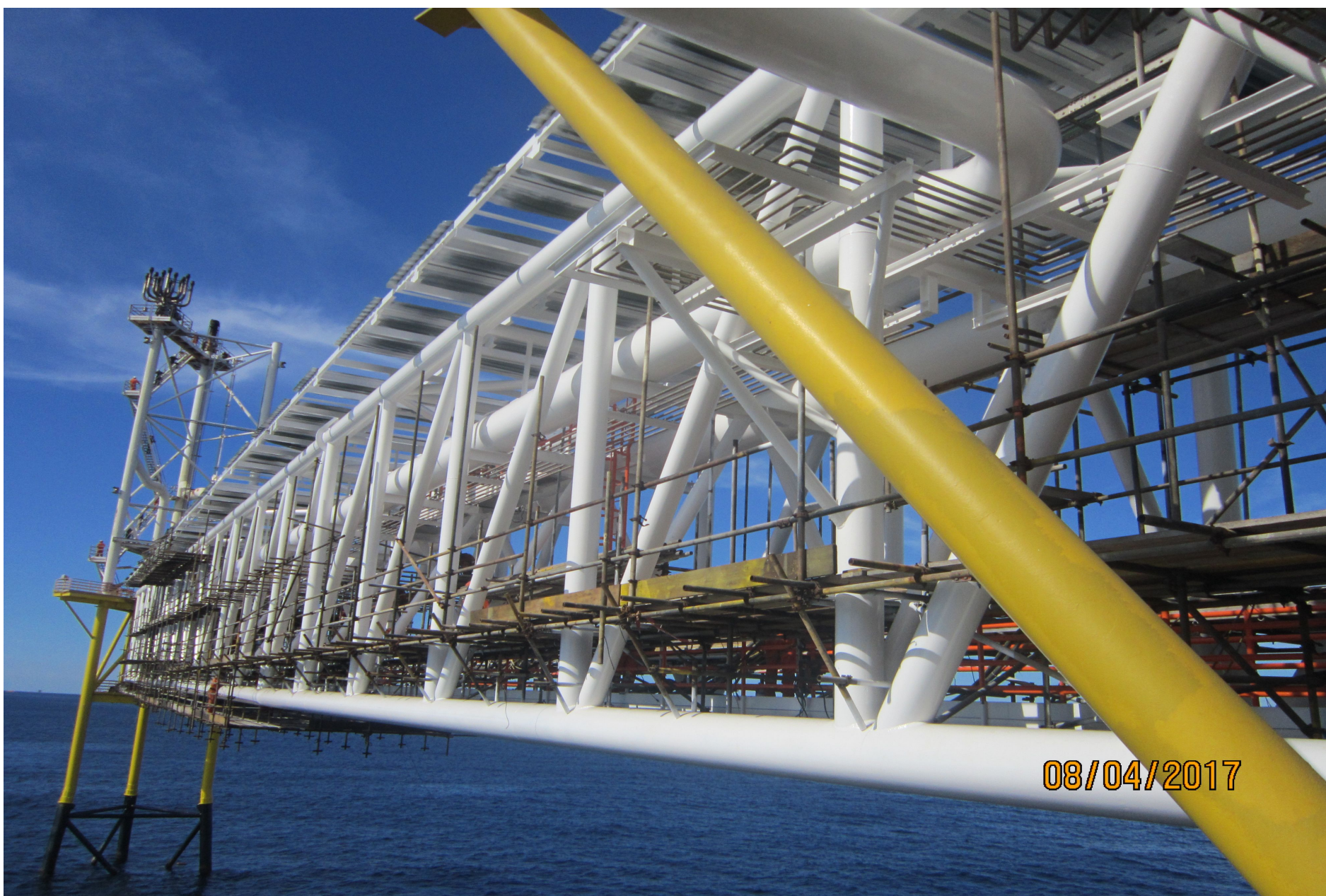
Freelander Tech Sdn Bhd Sg Duhon Facilities:

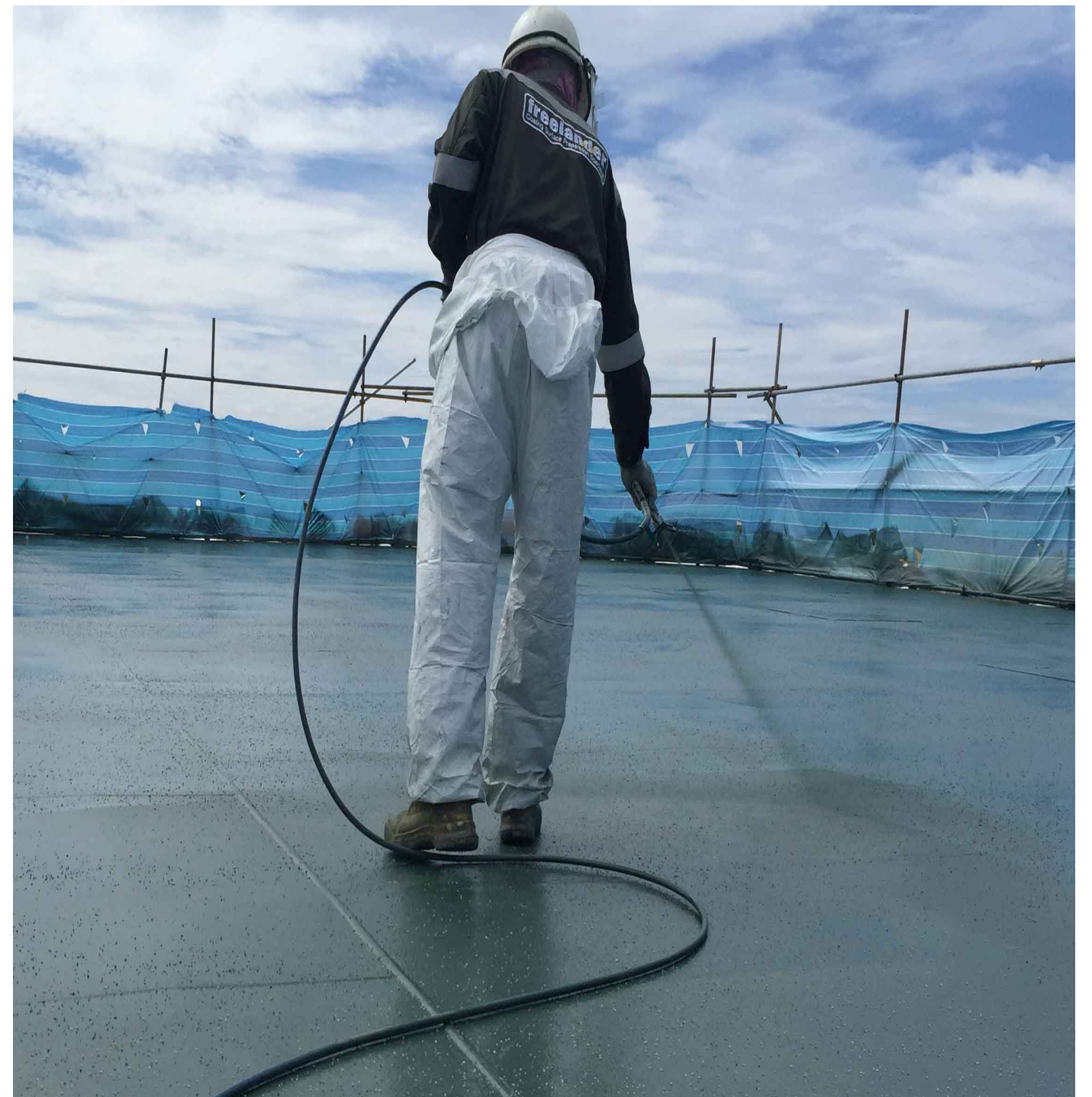
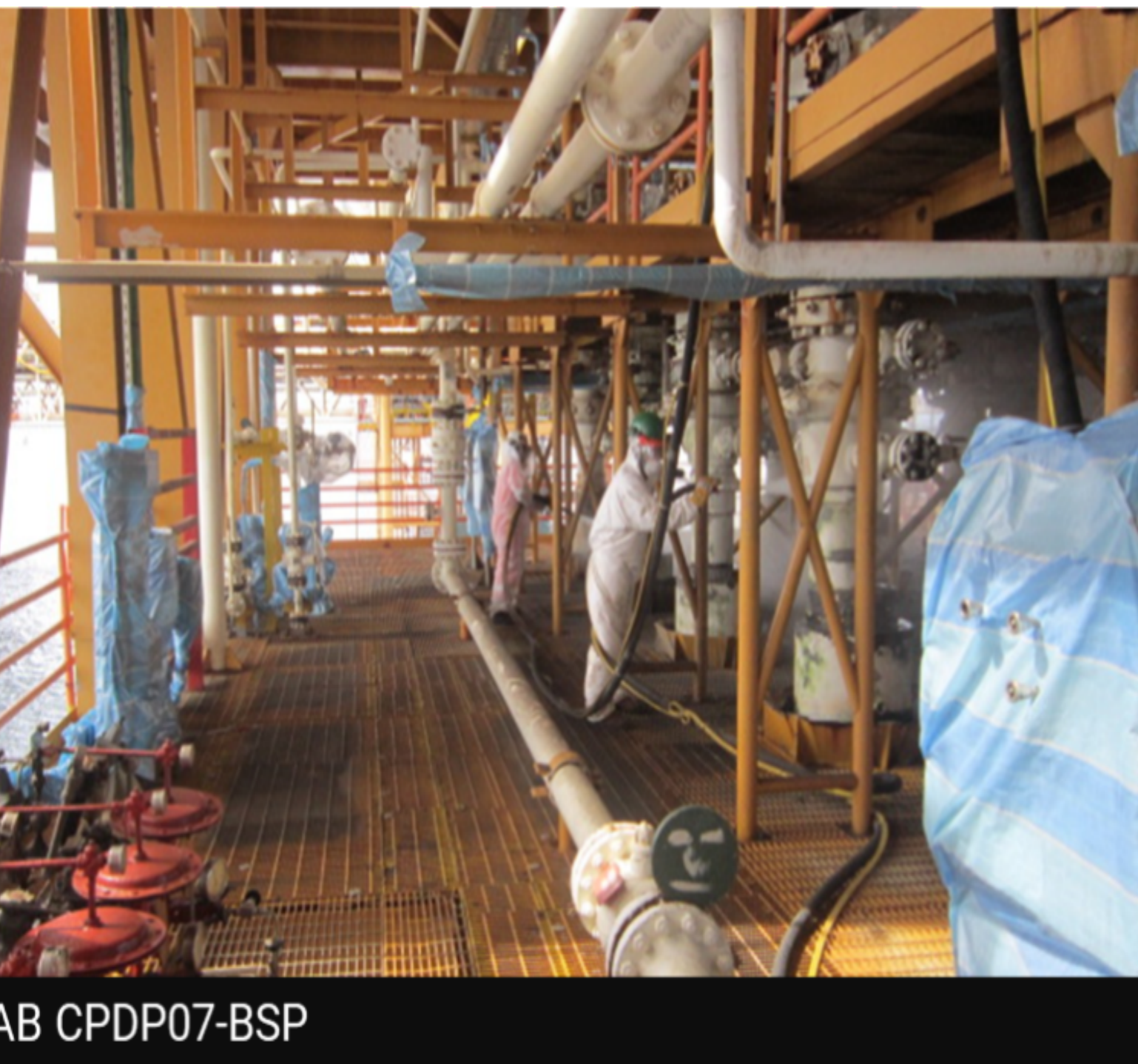
1. Warehousing Facilities
2. Operation Office Facilities
3. Training and Development Centre
4. Conference and Meeting rooms
5. IT and server support

TRACK RECORD

No	Description	Duration	Location	Notable Achievements	Clients
01	Provision of an offshore Surface Protective Coating Maintenance Tender: C110036/AEO) 5+2 Years	On-going (May 2014-)	Offshore BSP Assets	VAB comes under COLD WORK Permit Concurrent VAB & Painting is possible	QESS/MOPS/BSP
02	Provision of an Offshore Painting Service (Contracts No: C040209/SCO) 1 year contract	Completed (May 2014-May 2015)	Offshore BSP Assets	Project delivered on-time and to full satisfaction of client	MOPS/BSP
03	Provision of Offshore Touch Up Painting (TUP) Services	Ongoing (May 2014-)	Offshore BSP Assets	Utilizing and developing IRATA certified Bruneian	QESS/MOPS/BSP
04	Provision for Dome Tank Painting and Blasting on a Live Tank	Completed (June 2015-June 2015)	SPARK	Enable the ability to blast on dome without enclosed habitat on a live tank. Project Completed on time and to full client satisfaction	Brunei Methanol Company
05	Provision of Helideck Blasting and Painting using Rope Access Technique	Completed (2016)	Offshore BSP Assets	Project delivered on-time and to full satisfaction of client	BSP
06	Provision of using Vapor Abrasive Blasting technique using ECOQUIP for AMDB Helideck	Completed (2016)	Marine Construction Yard (MCY)	Enable the ability to blast at open yard and totally eliminate the problem of blasting dust travelling to surrounding public area	BSP/ Rennah Services Sdn Bhd
07	Rejuvenation of MGDPO2 Helideck (Contract No: C090064/SEN)	Completed (2017)	Marine Construction Yard (MCY)	Enable the ability to blast at open yard and totally eliminate the problem of blasting dust travelling to surrounding public area.	AKER Solutions/ BSP
08	IGT South Process Pipeline using Humidur Paint System	Completed (2018)	Brunei LNG, POP	Blasting and Paint application on LIVE sweating pipeline	BLNG/QET Sdn Bhd

09	Provision for Beam Pump Blasting using VAB Technique with ECOQUIP	On-going (2018-)	Onshore BSP Assets	Enable to perform blasting operation at residential and public areas	BSP/Sahid Sdn Bhd
10	CPDP07 Train B Glycol System Upgrade	Completed (2018)	Marine Construction Yard (MCY)	Enable the ability to blast at open yard and totally eliminate the problem of blasting dust travelling to surrounding public area	BSP/Sahid Sdn Bhd
11	CPNQ Humidur Paint Trial Utilizing Rope Access Technique	Completed (2018)	Offshore BSP Asset	First Large Scale trial for Humidur Paint in South East Asia	BSP/QESS Sdn Bhd
12	Provision for VAB utilizing ECOQUIP at SCOT	On-going (2019-)	Seria Crude Oil Terminal (SCOT)	On-going	BSP/QESS Sdn Bhd
13	Provision for Vapor Abrasive Blasting at Tutong Metering Station (TMS)	Completed (2018)	TMS	Project Completed on time and to full client satisfaction	BSP/Sahid Sdn Bhd
14	Provision for Vapor Abrasive Blasting at Tungku Gas Plant (TGP)	Ongoing (2020-)	TGP	On-going	BSP/Sahid Sdn Bhd





NOTABLE ACHIEVEMENTS

BSP BI1000



BI 1000
MANAGING
DIRECTOR'S
AWARD



IN RECOGNITION OF DELIVERY OF THE BI1000 PROJECT

**PAINTING NEW TECHNOLOGY (VAPOUR
ABRASIVE BLASTING) – SAFETY, PRODUCTION
& ENVIRONMENT**

"You're the difference that makes the difference"

KEN MARNOCH
BSP MANAGING DIRECTOR

DATE: 25TH FEBRUARY 2015

SALAM

INNOVATION

NEW MILESTONE FOR OFFSHORE PROTECTIVE COATING MAINTENANCE



Several workers using the relatively low risk Vapour Abrasive Blasting Equipment on an offshore platform

In the first quarter of 2014, the Offshore Painting (OTE/4) team set out to find a solution to reduce Blasting & Painting activities from High Risk to at least medium or low risk, which was environmentally friendly to avoid platform deterioration, move from a Hot work permit to Cold work permit, offer Protection of sensitive equipment, allowed concurrent activities, reduced dust pollution from medias and especially, cost effective overall.

The search for these requirements zeroed down to Vapour Abrasive Blasting equipment manufactured by ECOQUIP®, which is a high end technology of Vapour Abrasive Blasting for the coating removal and surface preparation.

It is an Eco-friendly type of equipment whereby Green Technology aspect was a major factor in the oil & gas industry. ECOQUIP® was identified and approved after much research and testing onshore in which several teams namely, EOP/1, EOP/2, WOP, AES/4, AED/14 and HSE witnessed the demonstration.

Due to its convincing capabilities, East Operations (EOP) perused to release Champion Drilling Platform, CPDP7, as a trial platform to see the equipment's advantages.

CONTACT US

Freelander Tech Sdn Bhd

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