



ROBOTIC TANK CLEANING

Shifting your perspective is Better than being smart



Introduction to CYC International Pte. Ltd.

Revolutionising Tank Cleaning with
Our Proprietary Bespoke Methods and
Robotics Cleaning Systems in the Oil &
Gas Industry

Established in 1969 as Chua Yong Chye Contractor.

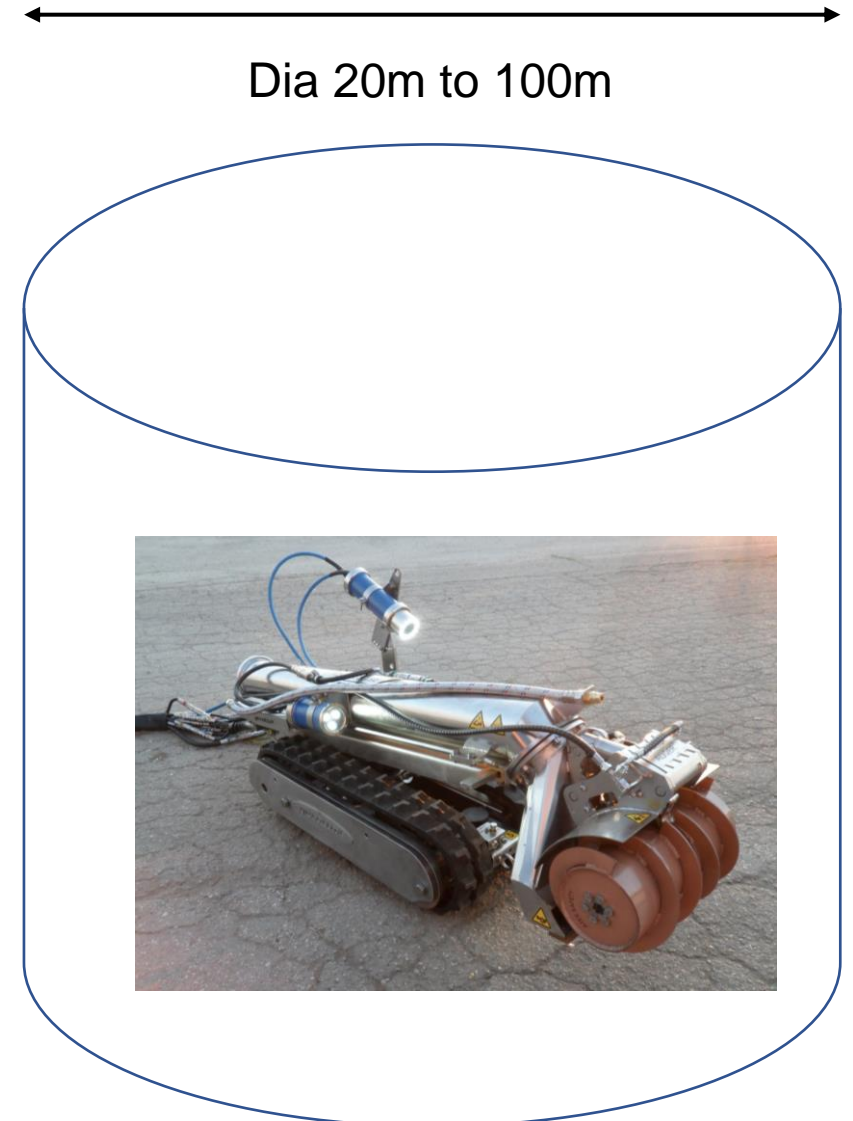
Contractor Specializes in tank cleaning blasting and painting. Pioneer in the use of robotic systems to clean petrochemical tanks in Singapore, Philippines, Hong Kong, Saudi Arabia, South Africa, Turkey thereby drastically reducing man-entry.

- At CYC our employee's welfare and well-being are of foremost importance. More than four decades of tank cleaning blasting and painting in the oil & gas and petrochemical industries.
- CYC has the know-how to tackle and clean different types of tanks with different products or chemicals. Proprietary owner of different specialized equipment that is meant to clean different types of tanks with different products/chemicals.
- Together we aim to conform to uphold and exceed the petroleum industry requirements regarding quality service and safety. To adhere to all HSSE policies. To create employment and educate staff to perform work exceeding our customer's requirements
- CYC international Oil and Gas market with an efficient and effective tank cleaning solution. A solution that will save time money and increase overall safety in the tank cleaning process.

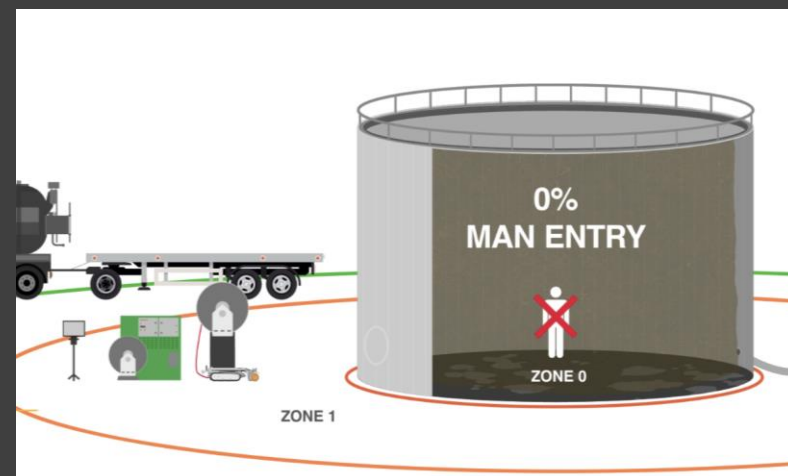
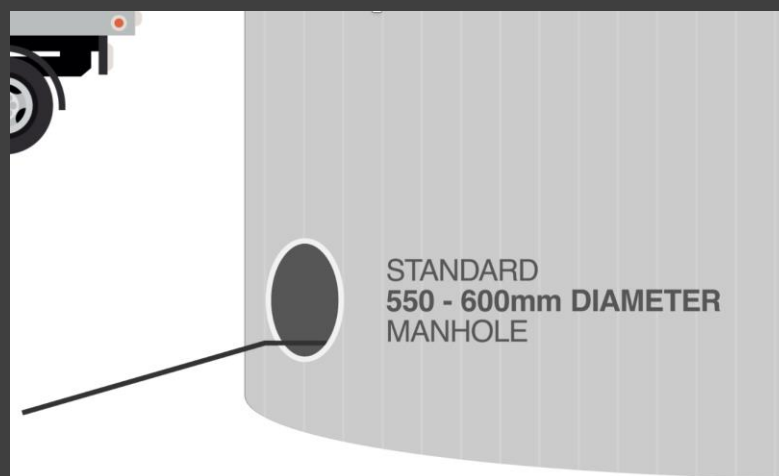
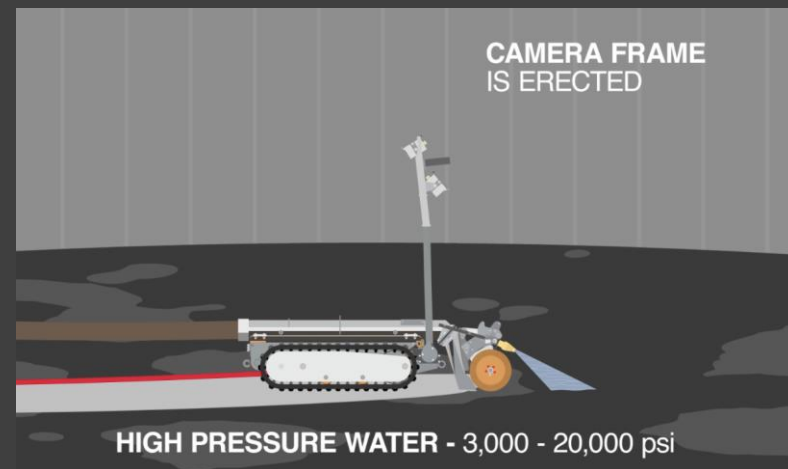
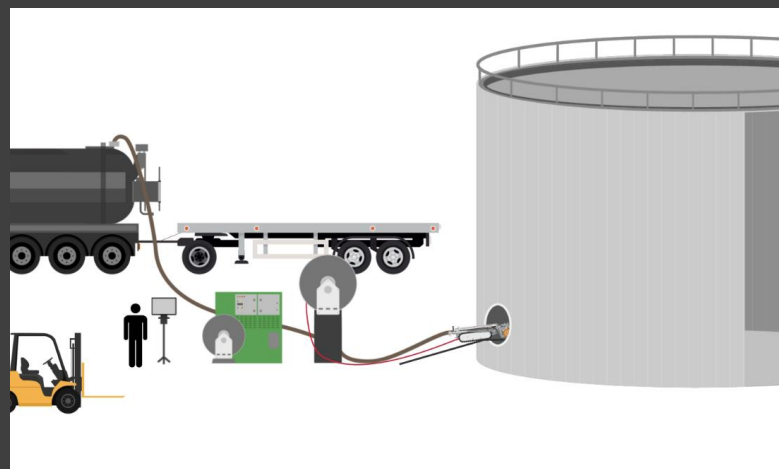
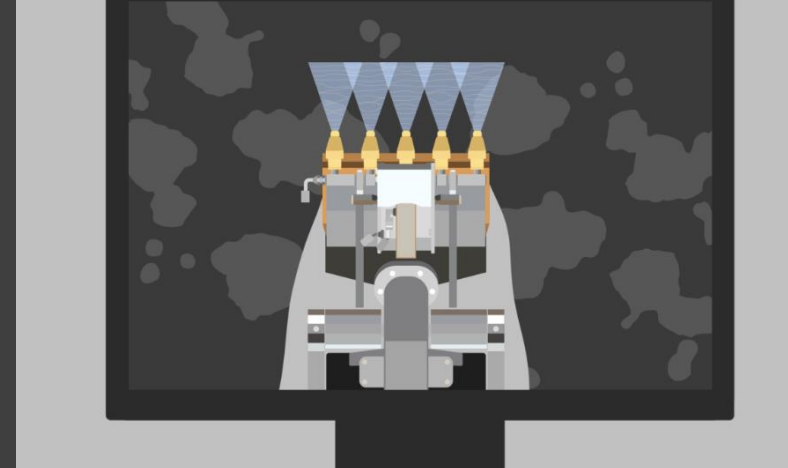
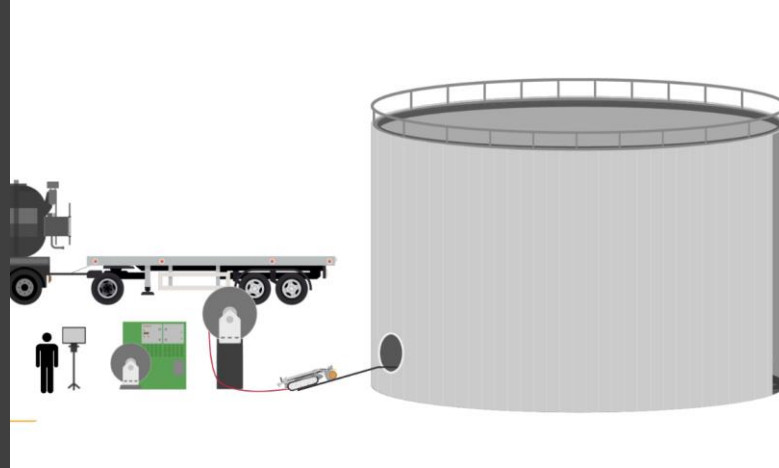


Agnes

Purpose	Tank internal Cleaning
Tank Size (diameter)	20<m
Scope	Tank bottom; up to 2m of the side shell
Men required	Four (4)
Features	Man-less method. Cuts and removes sludge through a separate suction pump. Explosion proof. Compatible with chemical and temperature of up 60 deg C.

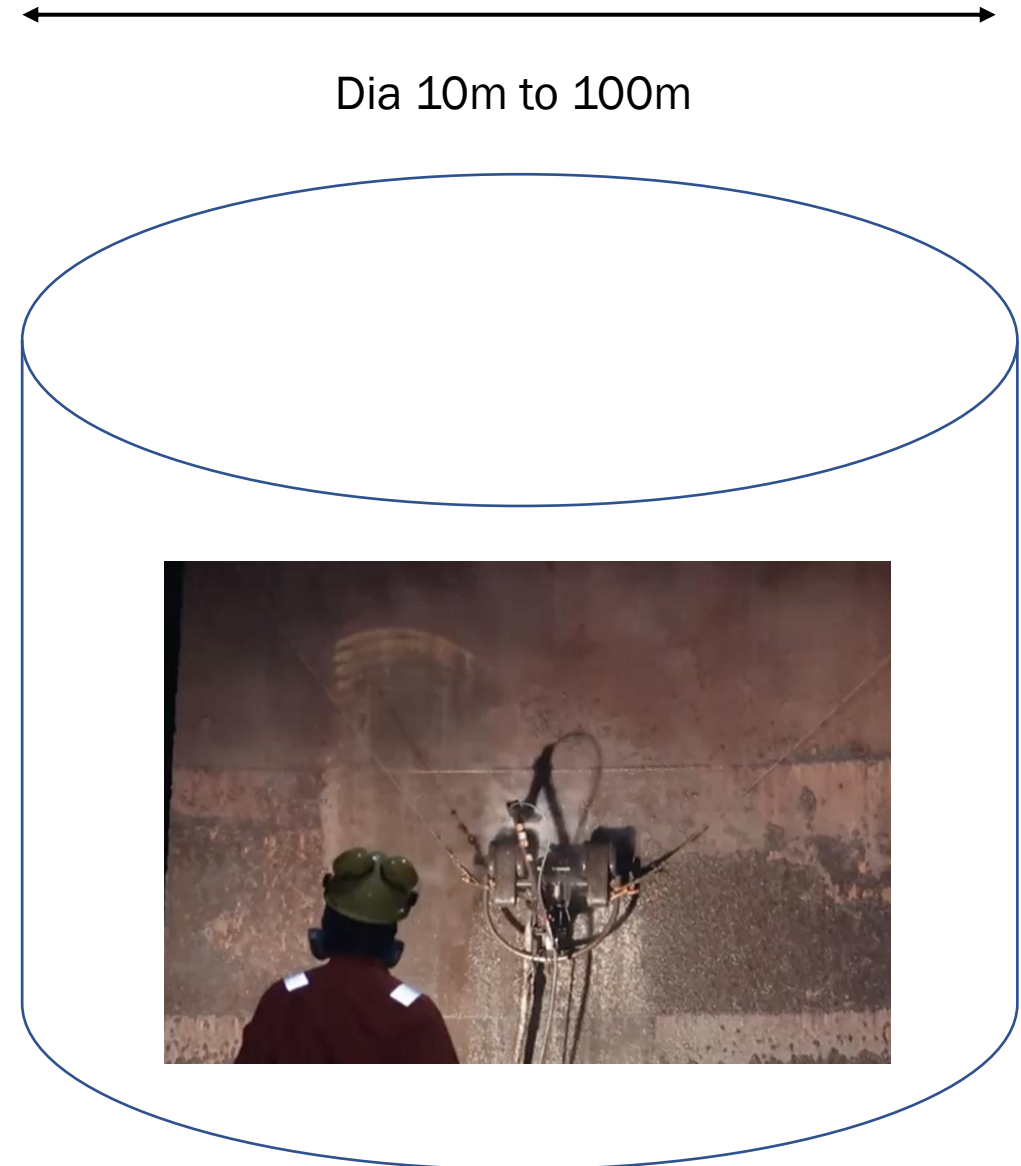


Robotic tank cleaning system



Samantha

Purpose	Tank Cleaning and paint removal
Tank Size (diameter)	10m<
Scope	Side shell of tank & tank bottom
Men required	Two (3)
Features	Man-less method. Light weight. Ability to climb and wash side shell. Capable of washing using Ultra high pressure of up to 40,000 psi or 2,750 bar.



Samantha

- Storage Tank internal Side shell hydro blasting
- Ultra high pressure of up to 40,000 psi or 2,750 bar.



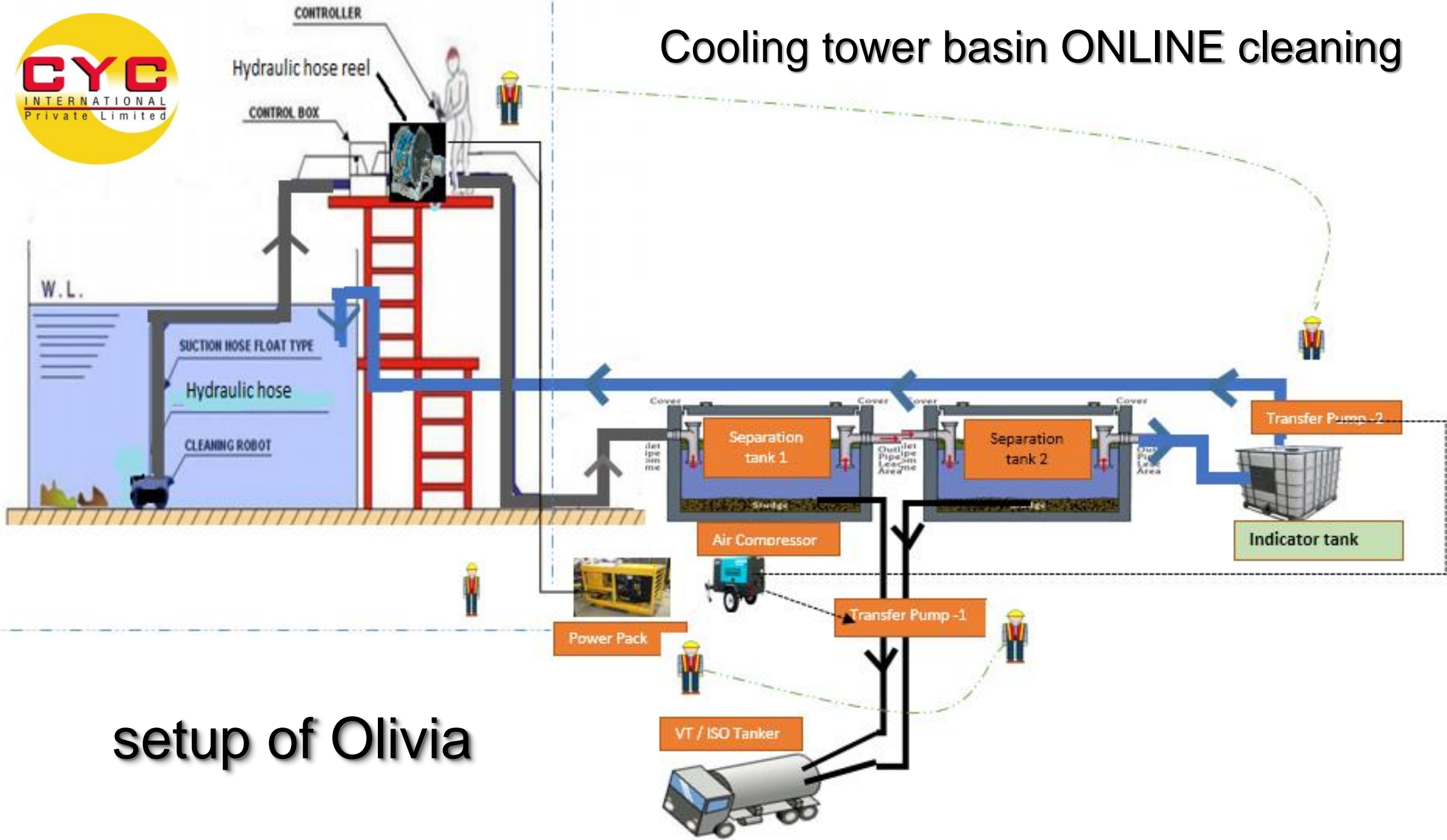
Olivia

Purpose	Water tank cleaning and PIT cleaning
Tank Size (diameter)	100m>
Scope	Tank bottom
Men required	Two (2)
Features	Man-less method. Light weight. Submersible. Capable of removing sludge at bottom 'online' at confined spaces such as cooling tower basin, sea water containment, tunnels, etc.





Cooling tower basin ONLINE cleaning



setup of Olivia

Veronica

Purpose - Tank Cleaning (Internal)

Tank Size (diameter) – 1-10

Scope - entire Tank

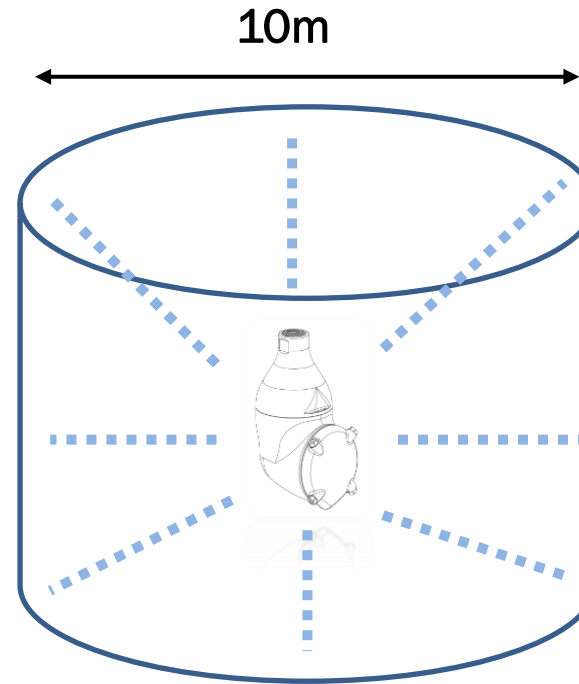
Qty Manpower Required – Three (3

)

1x Controller Operator

2 x Manpower to install into tank

Features -No man entry. Installed on tank roof. Light weight Compatible with chemicals & high temperatures up to 60°C



Fiona

Purpose – Under Ground or ISO Tank Cleaning

Scope - Entire Under Ground or ISO tanks.

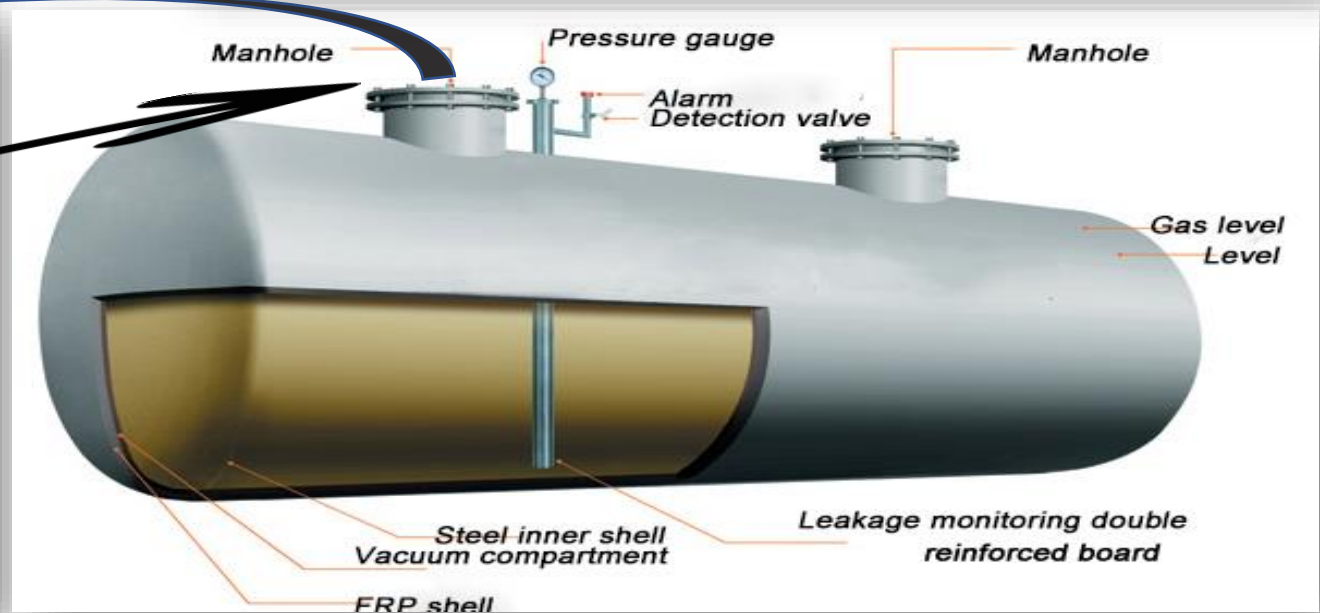
Qty Manpower Required –Three (3)

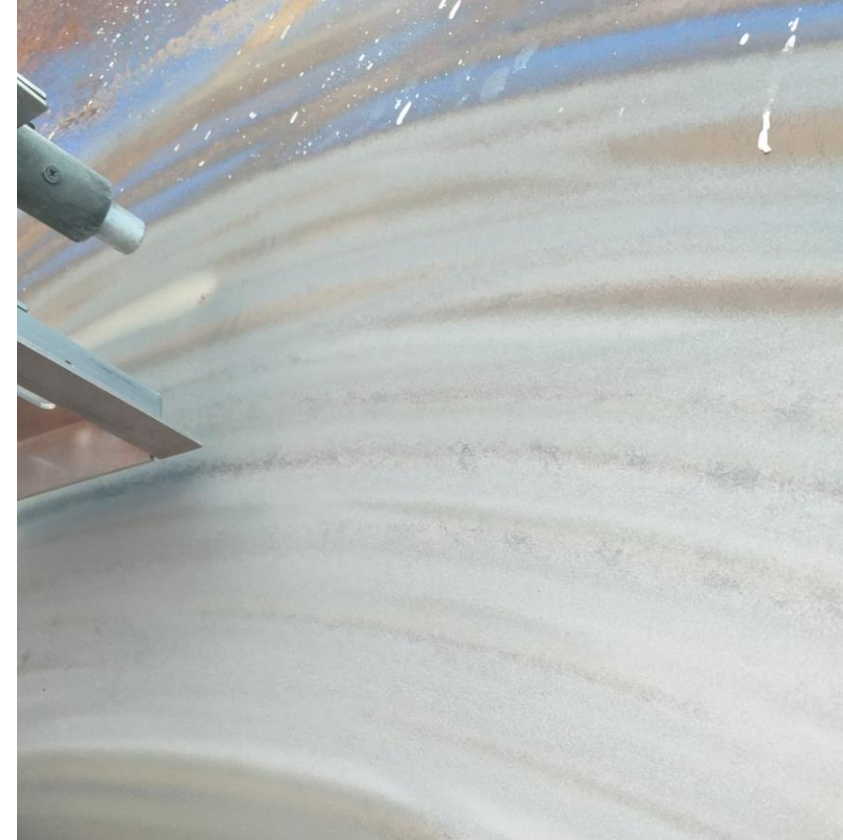
1 x Controller Operator

2 x auxiliary personnel to assist the operator in the set up and remove waste from the tank.

Features - No - Man entry. Cleans and removes waste from the entire tank internal **WITHOUT** man - entry. Explosion proof.

Compatible with chemicals.





Blasting and painting



Abrasive Blasting

Blasting for tanks' interior and exterior using different media for different requirements.

Spray Painting

Spray paint works to follow right after blasting. Technologies are underway for robotic spray painting.

Oil Spill Cleaning

Using German-technologies, we make oil spillage control and removal more effective and easier.

Our Patent on Robotic Tank Cleaning in Singapore



INTRODUCING ROBOTIC SOLUTIONS IN OIL TANK CLEANING

Award-winning Singapore-based firm providing a safer and more efficient cleaning solution in the Oil & Gas industry



REPUBLIC OF SINGAPORE
THE PATENT ACT (CHAPTER 221)
CERTIFICATE ISSUED UNDER SECTION 35

I HEREBY CERTIFY that under the provisions of the Patent Act, a patent has been granted in respect of an invention having the following particulars:

TITLE : METHOD AND SYSTEM FOR CLEANING A STORAGE TANK USING A PLURALITY OF DEVICES

**APPLICATION NUMBER/
PATENT NUMBER** : 10201902401Y

DATE OF FILING : 18 MARCH 2019

PRIORITY DATA : -

NAME OF INVENTOR(S) : CHUA, SWEE TIEN DANNY

**NAME(S) AND ADDRESS(ES)
OF PROPRIETOR(S) OF
PATENT** : CYC INTERNATIONAL PTE. LTD.
5 MARSILING IND ESTATE ROAD 3
#01-53
MARSILING INDUSTRIAL ESTATE
SINGAPORE 739251

DATE OF GRANT : 29 JANUARY 2021

DATED THIS 29TH DAY OF JANUARY 2021



A handwritten signature in blue ink, appearing to read 'Rena Lee'.

Mrs. Rena Lee
Registrar of Patents
Singapore

CYC - Certificates



Occupational Health & Safety Management System Certificate of Approval

This is to certify that the OHSMS of

CYC INTERNATIONAL PRIVATE LIMITED

5 Marsiling Industrial Estate Road 3
#01-53/55
Singapore 739251

Has been assessed and found to meet the requirements of

ISO 45001:2018

This certificate is valid for the following scope of operations

Provision of Engineering and Maintenance Works
involving Blasting and Painting for Structured Steel,
and Cleaning of Storage Tanks for Oil and Gas Industry

Authorised by:

Stan Wright
Director

Date of Certificate Issue: 29 October 2020

Certificate Valid Until: 25 September 2022

Recertification audit before 25 August 2022. Certified since 29 October 2020.
This certificate is the property of SN Registrars (Holdings) Limited and remains valid
subject to satisfactory annual surveillance audits.

SN Registrars (Holdings) Limited
Registration House, 22b Church Street,
Rushden, Northamptonshire,
NN10 9YT, UK
Tel: +44 (0) 1933 381859
Email: enquiries@dascertification.co.uk
Web: www.dascertification.co.uk
Company Number: 07659067



Cert No: DAS 16624935/13/O Rev: 003/7A0160

DAS CERTIFICATION



Quality Management System Certificate of Approval

This is to certify that the QMS of

CYC INTERNATIONAL PRIVATE LIMITED

5 Marsiling Industrial Estate Road 3
#01-53/55
Singapore 739251

Has been assessed and found to meet the requirements of

ISO 9001:2015

This certificate is valid for the following scope of operations

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and Cleaning of Storage Tanks for Oil and Gas Industry

Authorised by:

Stan Wright
Director

Date of Certificate Issue: 29 October 2020

Certificate Valid Until: 01 June 2023

Recertification audit before 01 May 2023. Certified since 02 June 2014.
This certificate is the property of SN Registrars (Holdings) Limited and remains valid
subject to satisfactory annual surveillance audits.

SN Registrars (Holdings) Limited
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NN10 9YT, UK
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Email: enquiries@dascertification.co.uk
Web: www.dascertification.co.uk
Company Number: 07659067



Cert No: DAS 85017755/13/Q Rev: 004/80

DAS CERTIFICATION



Environmental Management System Certificate of Approval

This is to certify that the EMS of

CYC INTERNATIONAL PRIVATE LIMITED

5 Marsiling Industrial Estate Road 3
#01-53/55
Singapore 739251

Has been assessed and found to meet the requirements of

ISO 14001:2015

This certificate is valid for the following scope of operations

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Cert No: DAS 77378891/13/E Rev: 003/90080

Companies Who Trust Us



Celanese

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ASIA PACIFIC BREWERIES FOUNDATION



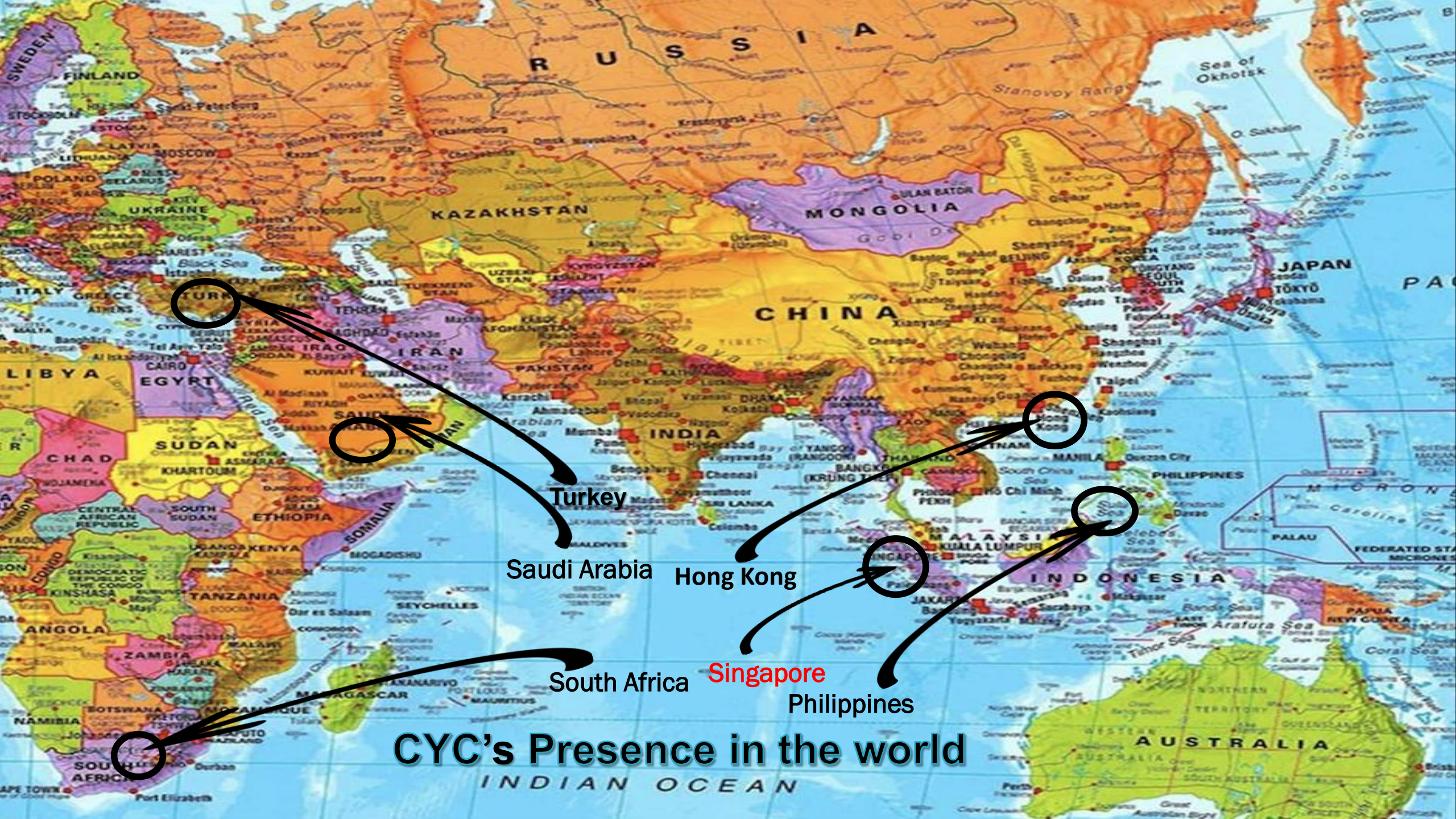
GLOBAL FOUNDRIES



PUB

ARLANXEO





CYC's Presence in the world

- Turkey
- Saudi Arabia
- Hong Kong
- Singapore
- Philippines



CYC international Pte Ltd.

- Every Tank is different.
- So are your needs.
- Singapore Head Office: +65 63671732
- Website: www.cyc.com.sg
- Email: enquiries@cyc.com.sg

Wherever you are in the world!