



Module Fabrication And Assembly Capability



More Info: rkpro.eu

Module Fabrication And Assembly Capability

Project exported countries



40+ countries

North America, South America, Middle-East, East Asia, Southeast Asia, Central Asia, Oceania, Africa, West Europe.

Yard Overview



UNITED NATIONS
INDUSTRIAL DEVELOPMENT ORGANIZATION



SUSTAINABLE DEVELOPMENT GOAL 9
INDUSTRY, INNOVATION AND INFRASTRUCTURE

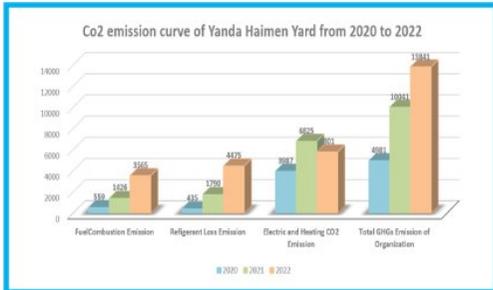
GREEN YARD



DEMAAS for low carbon analysis

45,000 sqm solar panels
+ 1,500,000 kWh
- 1,200,000 kg CO2

EV Charger
Electrical Bus
Electrical Forklifts



Green Oil

10 acres

Module Fabrication And Assembly Capability

Production for category



MODULES-SKIDS:
300,000MT/Year



PIPING: 4,500,000
Dia-Inch/Year



STEEL STRUCTURE:
120,000MT/Year



EHOUSE



EQUIPMENTS



COLD BOX

Module Fabrication And Assembly Capability

Main Client and partner



ExxonMobil



PetroChina



TOTAL

sasol



سابك
sabic



SIEMENS



BHP



wood.

ZACHRY



FLUOR®

ABB



HATCH



Capability & Experience Overview

LNGC MFAR PROJECT, CANANDA



LNG Canada will export Canadian natural gas to Asian markets, and in the process, put Canada on the global map of LNG exporting countries and create a world-class liquefied natural gas (LNG) industry in British Columbia and Canada.

| End-user | LNGC |
|---------------|-----------|
| EPC | JFJV |
| Total Weight | 11,400 MT |
| Quantity | 18 FARs |
| Code | CSA |
| Delivery Time | 2022 |

Capability & Experience Overview

LNGC MEH PROJECT, CANANDA



LNG Canada will export Canadian natural gas to Asian markets, and in the process, put Canada on the global map of LNG exporting countries and create a world-class liquefied natural gas (LNG) industry in British Columbia and Canada.

| End-user | LNGC |
|---------------|-------------|
| EPC | ABB |
| Total Weight | 7,000 MT |
| Quantity | 10 E-houses |
| Code | CSA |
| Delivery Time | 2022 |

Capability & Experience Overview



Capability & Experience Overview

— LINDE PUEBLO COLDBOX PROJECT, DOMINICAN REPUBLIC



Capability & Experience Overview

TSMC F22 PROJECT



UHP : Ultra High Pure Industry technology to provide pure fluid (99.99%+)



| End-user | TSMC | |
|----------------|--|------|
| EPC | AP | |
| Quantity | 19 Pipe Racks 2 Compression Modules | |
| Code | AWS D1.1 ASME B31.3 | |
| Delivery Terms | EXW | 2023 |

WORK SCOPE

- Detailed engineering for structure
- Materials procurement for structure & piping fitting, insulation, cable tray, etc.,
- Fabrication and installation of modules
- Trial assembly of all the modules to be connected at site
- Piping internal cleaning
- Blasting & painting
- Packing
- Module preservation
- Module temporary storage



UHP Tube Welding

Capability & Experience Overview

FAST Module Project – UK



3 main elements of work
34 KBD Distillate Hydrotreater Unit
55 MMSCFD Steam Methane Reforming Plant
Utilities & Offsite Works



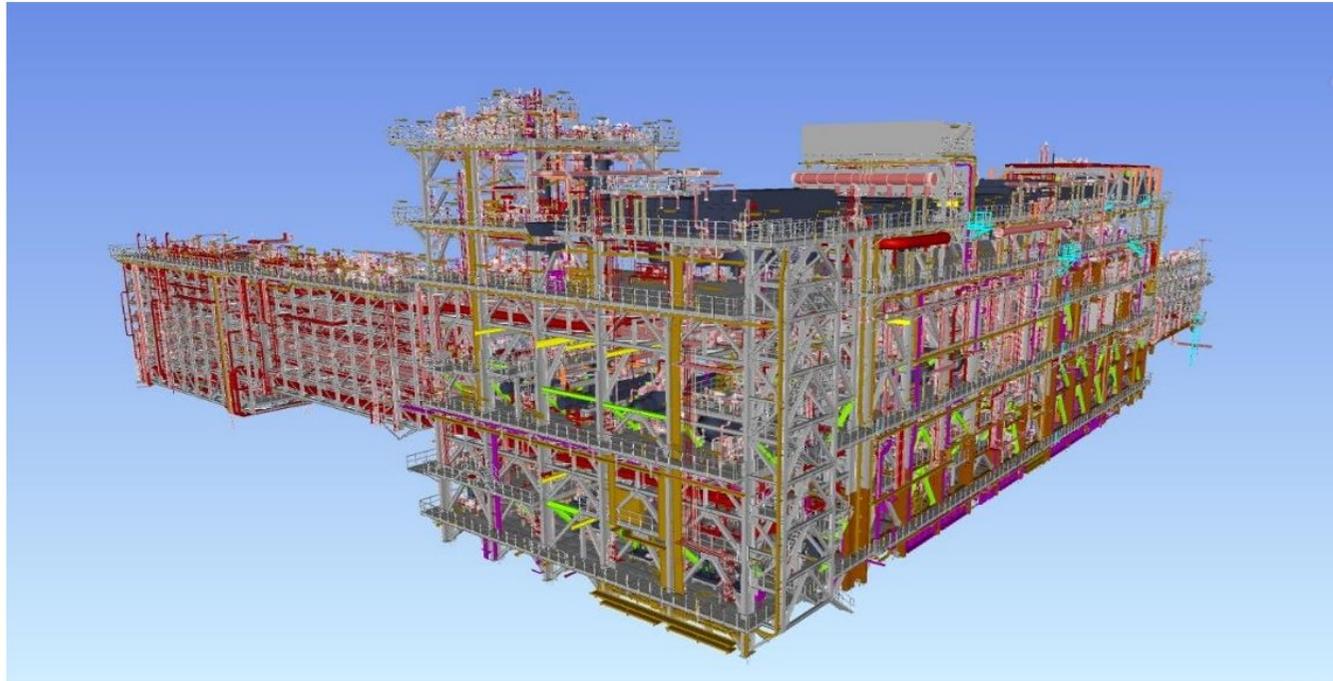
| End-user | ExxonMobil | |
|----------------|------------|------|
| EPC | Kent | |
| Total Weight | 6,000 MT | |
| Quantity | 18 | |
| Code | EN | |
| Delivery Terms | FOB | 2023 |

Capability & Experience Overview

RIIG Module Project - Netherland



One of the largest **biofuels facilities** in Europe
— 2,800,000 tons of CO2 per year
= 1,000,000 gasoline cars CO2 emission per year



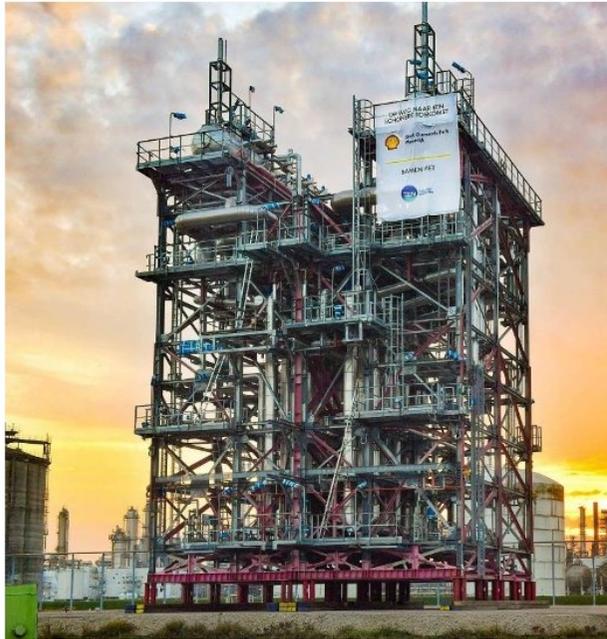
| End-user | Shell | |
|----------------|-----------------|------|
| EPC | Worley Energies | |
| Total Weight | 12,383 MT | |
| Quantity | 61 modules | |
| Code | EN | |
| Delivery Terms | FOB | 2024 |

Capability & Experience Overview

Skyline Module Project - Netherland



Milestone Energy Transition Project in the Netherlands
10% reduction in carbon emission = 200,000 ton per year



| End-user | Shell | |
|----------------|--------------------|------|
| EPC | Technip Energies | |
| Total Weight | 3,500 MT | |
| Quantity | 28 process modules | |
| Code | ASME B31.3/EN 1090 | |
| Delivery Terms | FOB | 2022 |

Capabilit

GCGV PE Module Fabrication Project- USA

ExxonMobil

سابك
sabik

MITSUBISHI
HEAVY INDUSTRIES

ZACHRY

FIRST

Modularized PE plant in the world



| | | |
|----------------|----------------------------|------|
| End-user | GCGV ExxonMobil & Sabic | |
| EPC | MHIZ | |
| Total Weight | 18,000MT | |
| Quantity | 18 MODULES: PAU+PAR | |
| Code | ASME | |
| Delivery Terms | FOB | 2020 |

Capability & Experience Overview

GCGV PE Module Fabrication Project Highlight

- ✓ World's First Modularized Polyethylene Plant
- ✓ ExxonMobil 2020 Global Projects President's SSH&E Award
- ✓ On-Time execution and delivery in 2020 despite COVID-19 Pandemic
- ✓ 13 months project lead time



YANDA Yard & Jetty – GCGV Project

ExxonMobil

سابك
sabic

MITSUBISHI
HEAVY INDUSTRIES



2020 Global Projects President's SSH&E Award

ExxonMobil awarded Yanda, as Module Yard of GCGV PE Project, 2020 Global Projects President's SSH&E Award

Subject: Congratulations - 2020 Global Projects President's SSH&E Award Recipient

Dear China Module Yard Project Leaders,

It is my great pleasure to inform you that the Global Projects President's SSH&E Awards review committee has selected the **China Module Yard Team from Gulf Coast Growth Venture (GCGV) Project** as the recipient of the 2020 Global Projects President's SSH&E Award. Congratulations! We will be sending out the official announcement to all of Global Projects in the next few days.

Your team's performance exemplifies ExxonMobil's core values of Integrity, Care, Courage, Excellence and Resilience. Your world-class SSH&E results required aligned leadership and dedication, and achieving Nobody Gets Hurt is a remarkable accomplishment that demonstrates your commitment to SSH&E excellence.

I encourage you to broadly share with the Global Projects family, at every opportunity you have, what has made your project successful. Taking a leadership role in helping everyone to be the Best will make all of us better.

Thank you for demonstrating superior SSH&E leadership. I look forward to seeing you build on this success as you move forward.

Please pass along my admiration and sincere appreciation to the entire team.

Jon M. Gibbs
President

ExxonMobil Global Projects Company
22777 Springwoods Village Parkway
Wellness 2, 6B.576
Spring, TX 77389

Capability & Experience Overview

SASOL Module Fabrication Project - USA



- **FIRST large US** module project fabricated in China
- **14** batches of shipment
- **2000+** tie-in points/Module fit up on site without misalignment



| End-user | Sasol |
|----------------|-------------------------------|
| EPC | FTI(Fluor & Technip) |
| Total Weight | 30,000MT |
| Quantity | 78 Modules (25 PAU+53 PAR) |
| Code | ASME |
| Delivery Terms | FOB 2017 |

Capability & Experience Overview

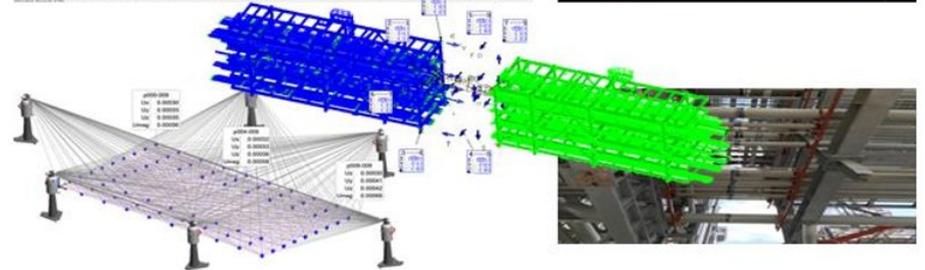
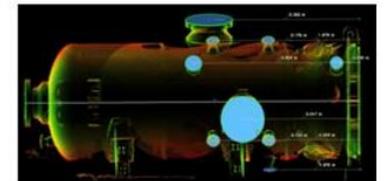
SASOL Module Fabrication Project Highlight - USA



- ZERO accident
- 500,000 DIA-INCH Piping
- 14 months Project Lead Time
- Reliable Fabrication time
- 99.4% Welding Pass Rate
- 100% physical dimension fitted very well
- 14 voyages delivered on time



| Dimension control | |
|---|--|
| Pipe end data pre-input for control purpose | |
| During pre-fabrication stage | |
| SFMS | |



Digital Module Dimension Control

Capability & Experience Overview

NWR - STURGEON REFINERY - CANADA



The First Largest Canadian Module Project in China



| End-user | Northwest Redwater Partnership |
|----------------|--|
| EPC | Air Liquide |
| Total Weight | 25,000MT |
| Quantity | 151 Modules |
| Material | A106B,A333-6, 304/304L, 316/316L, 321H, A335 Gr, P22,Inconel 600/625 |
| Code | ASME, CSA, CWB, ULc |
| Delivery Terms | FCA |

Capability & Experience Overview

GPX Piping Pre-fabrication-USA



BRINGING **CLEAN ENERGY**
FROM TEXAS TO POWER THE WORLD



| End-user | Golden Pass LNG | |
|----------------|---|------|
| EPC | CCZJV | |
| Total Quantity | 2,060,000 DIA-INCH | |
| Material | DUPLEX/SS/S31254/S31803/S32760/NICKEL/ALLOY/N06625A106B/A333-6/304/304L/316/316L/ P11/P91 | |
| Code | ASME | |
| Delivery Terms | FOB | 2023 |

Capability & Experience Overview

Franklin Piping Pre-fabrication-USA



Operations began in November, 2022
Use low-cost ethane supplied by shale gas to produce
1.6 million tonnes (Mt) of polyethylene a year.



| End-user | Shell |
|----------------|---|
| EPC | Bechtel |
| Total Quantity | 1,200,000 DIA-INCH |
| Material | A106B/A333-6/304/304L/316/316L P11/P22/P91 |
| Code | ASME B31.3 |
| Delivery Terms | FCA -2019 |

Capability & Experience Overview

LPG Bullet Vessel - Angola



Store 3,000 m³ LPG each vessel



| | |
|----------------|----------------------------|
| End-user | OECI A.A.-Sucursal, Angola |
| Quantity | 17 |
| Total Weight | 7,106 MT |
| Material | SA 537. Cl2 |
| Size | L72 m*D8m |
| Code | ASME Viii |
| Delivery Terms | FOB -2022 |

Smart Fabrication Management System

SFMS is a digital smart fabrication management system developed by Yanda used for project whole process management



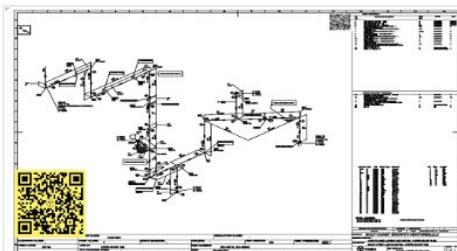
Safer | Predictable | Digital delivery | Cost saving
Better quality(welding acceptance rate >99.6%)
Shorter schedule (-2 months than traditional philosophy)

- All inputs are directly come from engineering software and project specifications
- System automatic generate the best optimized fabrication plan and instruction according to real-time status of every fabrication process
- System automatic generate quality inspection plan(IITP, NDT schedule, etc.)
- Based on issue material to work place on time according to fabrication plan, implemented standardized and automatic production line in whole fabrication process with Advanced Work Package(AWP) method
- Material Traceability with QR code and accurate tracking of each E&I tag No
- Drawing Management, Real-time Rev control
- Material Matching
- Real-time Progress Monitoring and Report
- Smart Pre-check before Commissioning
- Support the site preservation work
- Digital Inspection and Reporting
- Support Loop test and function test for E&I , F&G, Telecom system

Smart Fabrication Management System

DIGITAL MATERIAL MANAGEMENT

SFMS Product QR Code



Shop Drawing QR Code



Consumable QR Code



Raw Material QR Code

名称:P-管件-法兰
cmdty code:I20851125
物料编码:MGJ01
规格:4"CL150
材质:A105
SX1:4.000 SX2:
F 19001739HM



Matching Material QR Code

材料标签
P:MHM18018
T:【班组】精益管道二组
D:001M-CWR-EU51132
S:001M-CWR-EU51132-01
MGJ01P-管件-法兰
A1054"CL150
SX1:4.000 SX2:
Qty:2 H:19200197
Code:I20851125
U:
CF19FJZEY
P:GDWP01000000089



Product QR Code

P:MHM18018 / I:【班组】管道二组1
P:EDPAU001
S:001M-CWR-EU51132-02
M:A234-WPB/ D:168.3
W:24/P:1CS1S01



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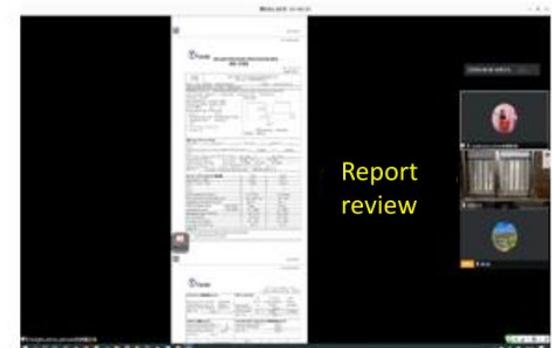
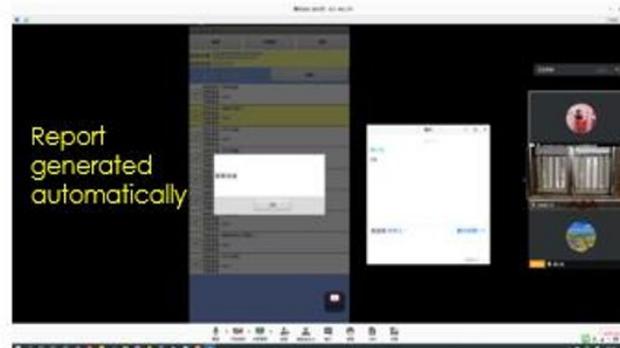
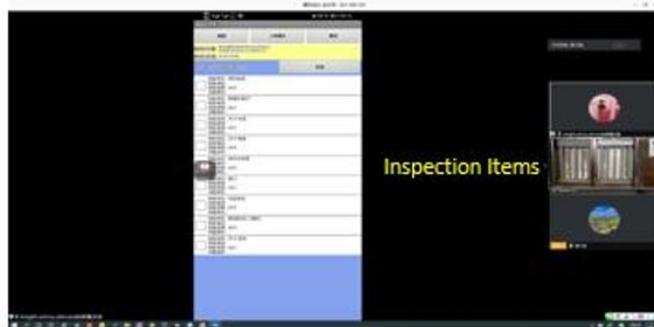
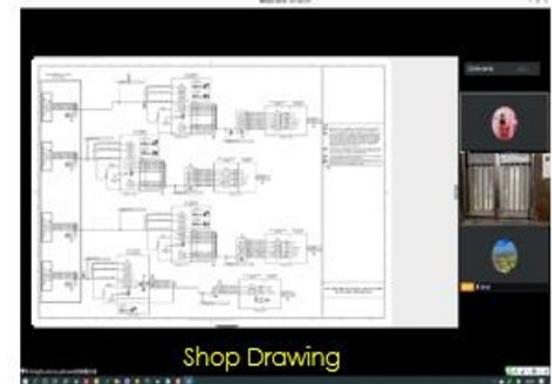
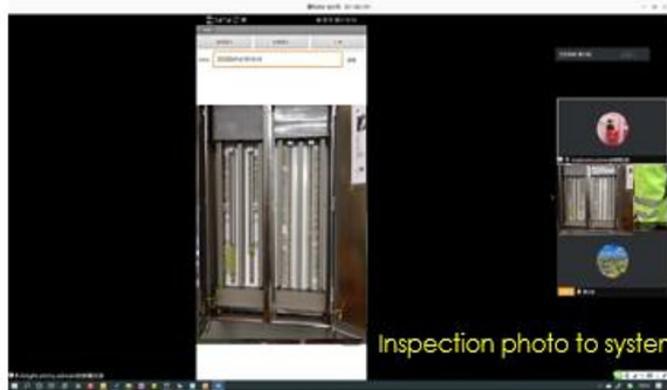


Electrode Tube QR Code

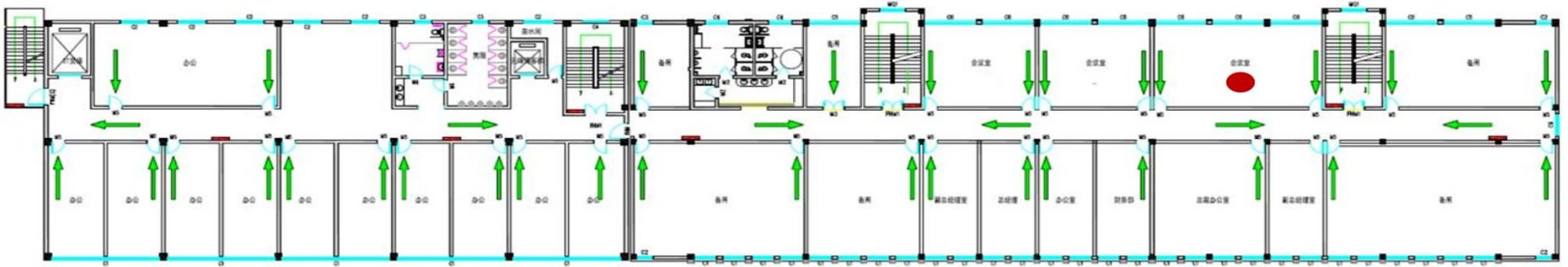
Smart Fabrication Management System

DIGITAL DELIVERY&REMOTE INPSPECTION

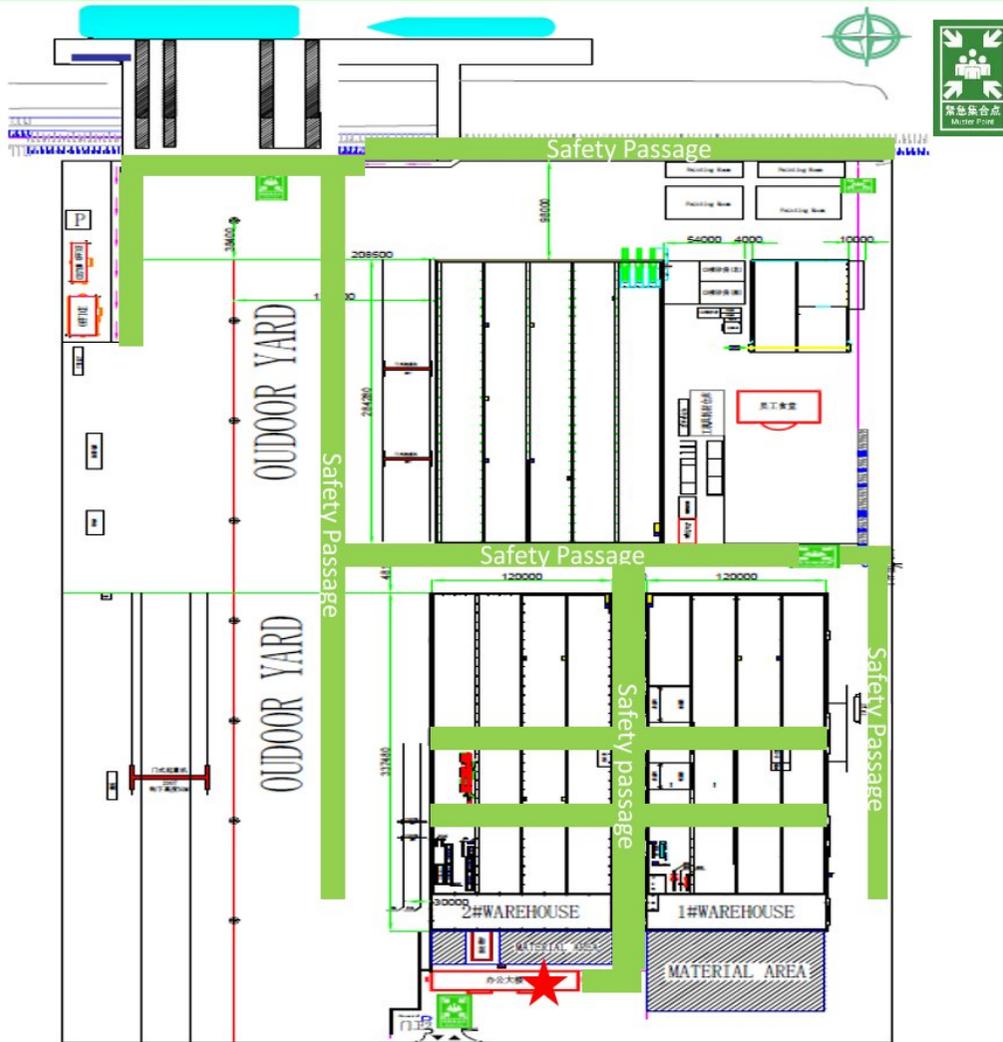
Digital ITP system supported in remote inspection



OFFICE BUILDING EVACUATION



Safety Moment



- Walk on the sidewalk
- Don't touch the product without pre-check
- Don't use mobile phone when walking

Safety Glass

Earplugs

Gloves

Safety Shoes



Safety Helmet

Mask

Work Suit

Safety Harness
(Work at height of >1.8m)

IP Protection



- ✓ Strict Document Management System
- ✓ Signed Non Disclosure Agreement
- ✓ Dedicated project office with entrance control for clients
- ✓ Separate internet, phone, computer, printer and IT facilities for clients
- ✓ Dedicated work space for client as required including entrance control gate. Workers/engineers/visitors can only access with permits issued by client.

THANK YOU

