

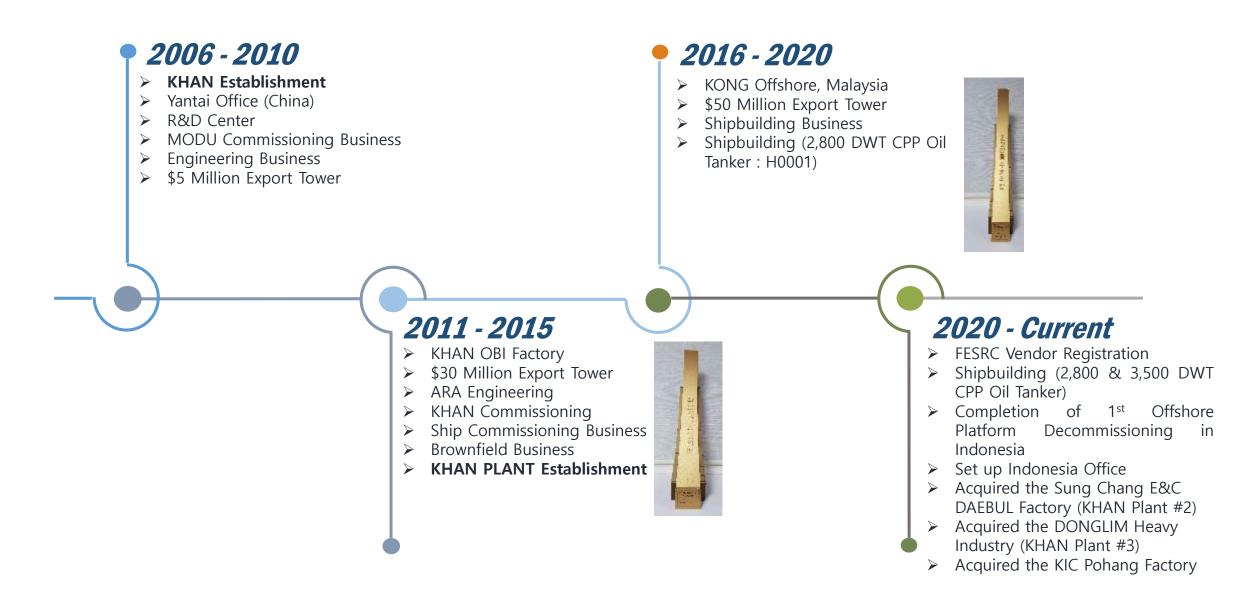
KHAN OVERVIEW





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- 6. MAJOR EXPERIENCES
- 7. KHAN PLANT QHSE
- 8. KHAN REFERENCE LIST



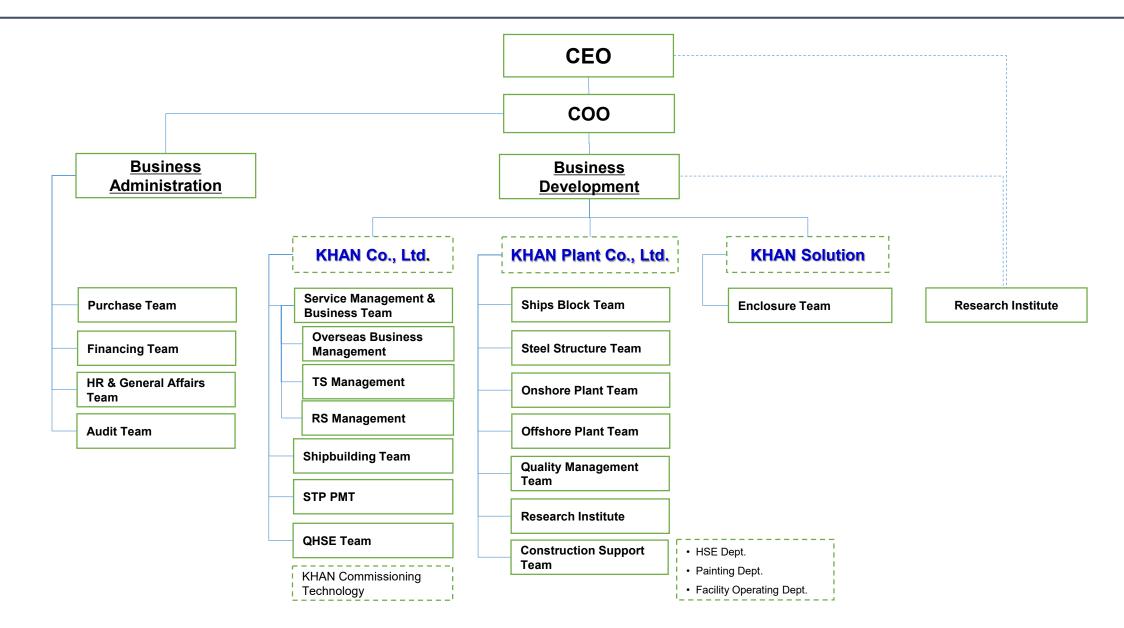
2. KHAN PROFILE

NAME	KHAN Co., Ltd.
CEO	Jang-Hwan Hyun, Ph.D.
FOUNDATION	20th of Nov. 2006
SERVICE	 Offshore Brownfield Work / Offshore Hook-Up & Commissioning Construction & Installation / Mechanical Completion / Carry Over Work / Commissioning Rig Modification & Upgrade Operation & Maintenance ECO Friendly Decommissioning Shipbuilding (Commercial Ship, LNG Supply, Aluminum Ferry, etc.) Modules Fabrication (Process Module, FPSO LQ, WTIV Deck House, Pipe-rack, Heli-deck, Aluminum Outfitting, Derrick Assemble. E-house etcontrol System Engineering (ARAON Item) Green Package Service / Relocation Service
ADDRESS	 Head Office : KHAN Co., Ltd., 5th Fl., KHAN Building B, 105 Yongso 1-gil, Geoje-si, Gyeongsangnam-do, Korea (53310) Tel: 82-(0)55-639-7600 Fax: 82-(0)55-639-7700 Homepage: http://www.khan-offshore.com Email: khan@khan-offshore.com Seoul Branch : #1501, Seowon Buidling, 469, Samil-daero, Jongno-gu, Seoul, Korea(03147) Tel: 82-(0)2-2088-0941 Fax: 82-(0)70-8277-9334 Pohang Factory : 47, Gohyeon-ri 17, Cheong-myeon, Buk-gu, Pohang-si, Gyeongsangbuk-do, South Korea Malaysia: Unit 10-16, Tower A, Menara UOA Bangsar, No.5 Jalan Bangsar Utama 1, Taman Bangsar, 59000 Kuala Lumpur Indonesia: Graha Surveyor Indonesia Lantai Mezzanine Suite Mezzanine B, Jl. Jend. Gatot Subroto Kav. 56, Setiabudi, Jakarta Selatan

2. KHAN PLANT PROFILE

NAME	KHAN PLANT Co., Ltd.
CEO	Jang-Hwan Hyun, Ph. D
FOUNDATION	26th of Feb. 2014
SERVICE	 Shop primer & Plate Cutting Small scale Ship Building - bunkering vessel & Al Boat Ship Block Fabrication, Living Quarters & Helideck Steel Structure : Building, Bridges, etc. Onshore Plant : Fired Heater, PAR & PAU, External Piping, HRSG Offshore Plant : FPSO's LQ, Pipe rack, Electrical Building, Process Modules Enclosure : Electrical Substation, BESS, EDG, Data Center (Container Type Building and System Integration)
ADDRESS	 Head Office : 187, Nabul-ro, Samho-eup, Yeongam-gun, Jeollanam-do, South Korea (58453) Tel: 82-(0)61-461-5000, Fax: 82-(0)61-461-5001 Homepage: http://www.khan-offshore.com Email: khanplant@khan-offshore.com Seoul Branch : #1501, Seowon Building, 469, Samil-daero, Jongno-gu, Seoul, Korea (03147) Tel: 82-(0)2-2088-0941, Fax: 82-(0)70-8277-9334 KHAN PLANT #1: 187, Nabul-ro, Samho-eup, Yeongam-gun, Jellanam-do, South Korea #2: 192, Daebuklsandan 3-ro, Samho-eup, Yeongam-gun, Jeollanam-do, South Korea #3: 169, Daebulsandan 2-ro, Samho-eup, Yeongam-gun, Jeollanam-do, South Korea

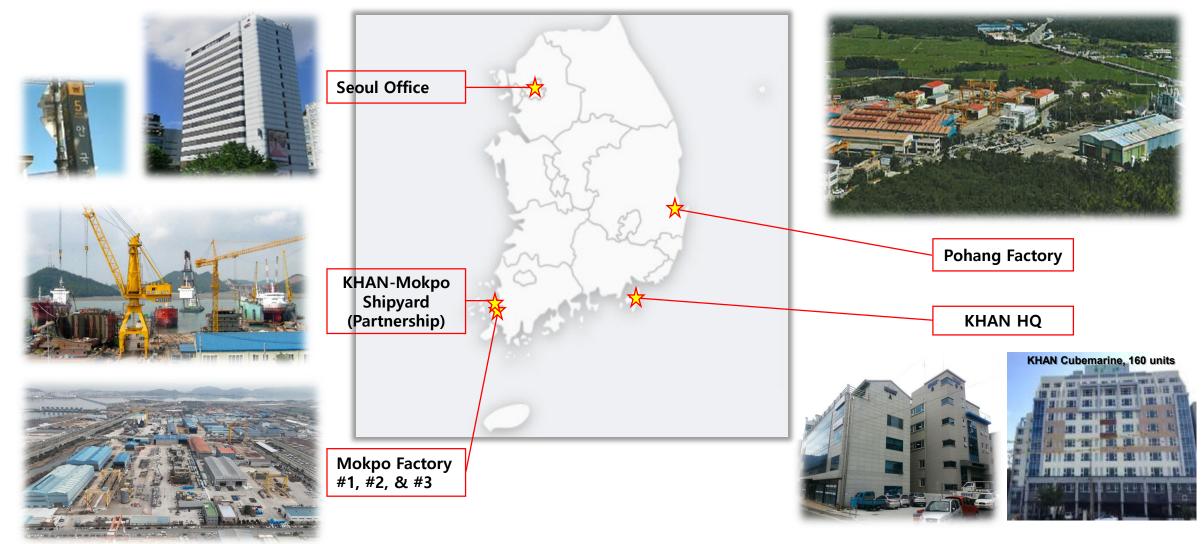
3. KHAN GROUP ORGANIZATION



KHAN°

KHAN°

4.1) Location in Korea



KHAN

4.2) Layout of DAEBUL INDUSTRIAL COMPLEX



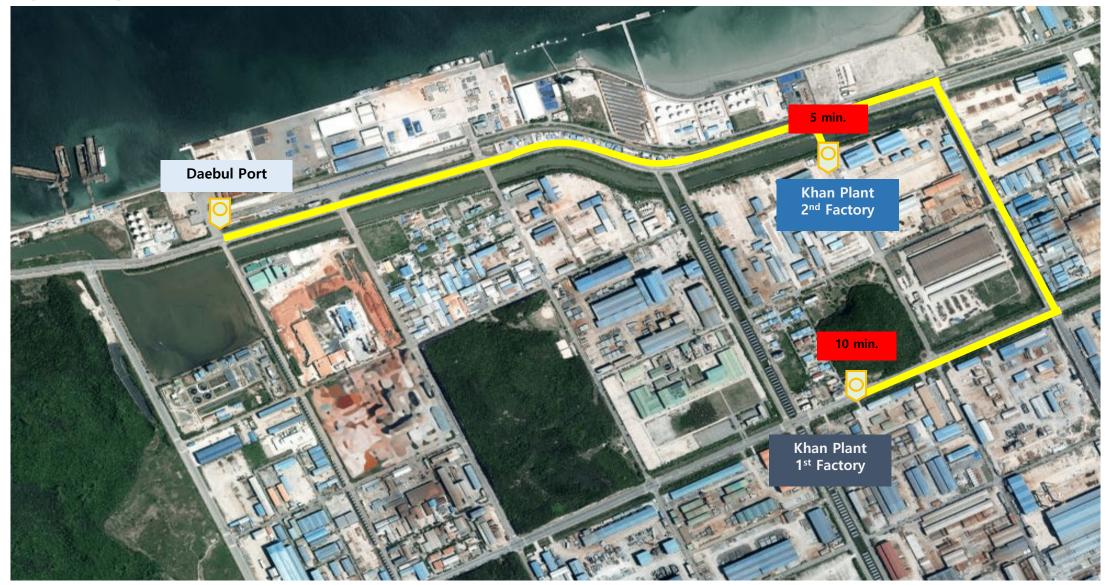


4.3) KHAN PLANT #2 & #3 (Video : Feb 2024)



KHAN®

4.4) Delivery Route



4.5) Integration & Berthing Port Information

Load-out Port Information	
Port (Terminal/Berth)/Jetty Location Address with map	DAEBUL Port, 629, Daebul-Ro, Samhp-Eup, Yeongam-Gun, Jeollanam-Do, Korea
Port/Jetty particulars;	
Depth	12.0 m
Tide	4.0 m
Strength and etc.	500 kN/m2
Daebul Port 슈퍼센터 목포본적 이 (주)대불조선 기득추위소 (월) 동방주유소 (월)	다 (나 나 나 나 나 나 나 나 나 나 나 나 나 나 나 나 나 나



4.6) Load out movie from KHAN PLANT #2 (Video : September 2024)

https://www.youtube.com/watch?v=MDfOXaYoi1U



4.7) KHAN PLANT #1 : 49,004 m²



Major Business:

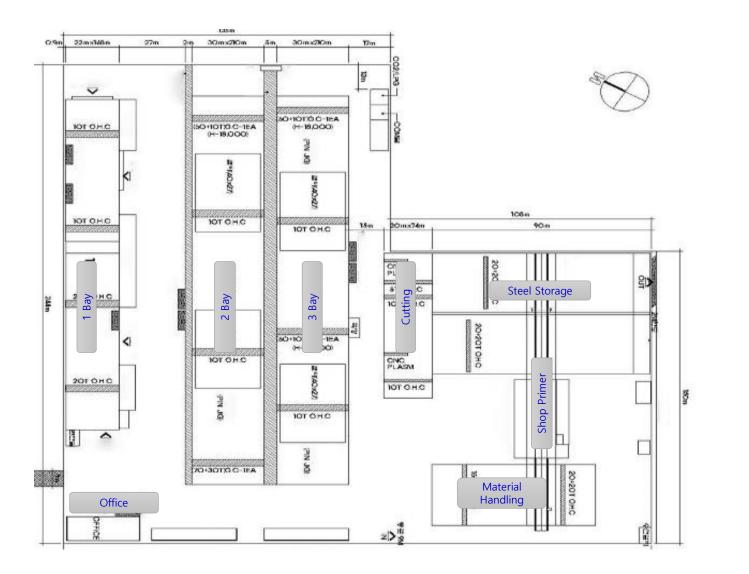
- Shop primer & Plate Cutting
- Small scale Ship Building Bunkering vessel & Al Boat
- Steel Structure : Building, Bridges, etc.
- Enclosure : Electrical Substation, BESS, EDG, Data Center (Container Type Building and System Integration)





KHAN

4.7.1) KHAN PLANT #1 : 49,004 m²



Detailed Information		
1 Bay	22 m x 168 m	
	O/H Crane : 20 ton x 2 set 10 ton x 2 set	
	30 m x 210 m	
	Moving Shelters : 40 x 27 m, 2 sets	
2 Bay	O/H Crane : 10 ton x 2 set	
	Gantry Crane : 50+10 ton x 1 set 70+30 ton x 1 set	
	30 m x 210 m	
2 Paul	Moving Shelters : 40 x 27 m, 2 sets	
3 Bay	O/H Crane : 10 ton x 2 sets	
	Gantry Crane : 50+10 ton x 2 sets	
	20 m x 74 m	
Cutting Shop	O/H Crane : 10 ton x 2 sets 5 ton x 1 set	
	CNC PLASMA x 2 sets	
Shop Primer	740 m2	
	O/H Crane : 20+20 ton x 2 sets	
Material	2,100 m2	
Handling	O/H Crane : 20+20 ton x 2 sets	

KHAN

4.7.2) KHAN PLANT #1 facilities

Area	Equipment	Q'ty
Steel Storage Area	 20+20T Overhead Crane with magnetic 	2
Shop primer	Set of Blasting & Primer equipment	1
	20+20 T Overhead Crane with magnetic	1
	 15+15 T Overhead Crane with magnetic 	1
Cutting shop	CNC Plasma cutting machine	2
: W20m x L74 m	 10 T Overhead Crane with magnetic 	2
	 5 T Overhead Crane with magnetic 	1
Fabrication Shop,	20 T Overhead Crane	2
Bay 1 : W22 x L168 m	10 T Overhead Crane	2
Fabrication Shop,	70+30 T Gantry Crane	1
Bay 2 : W30m x L210 m	50+10 T Gantry Crane	1
	 27 x 40 m shelter w/ 10 T Overhead Crane 	2
Fabrication Shop,	50+10 T Gantry Crane	2
Bay 3 : W30m x L210 m	 10 T Overhead Crane in shelters 	2
	 27m x 40 m shelter w/ 10 T Overhead Crane 	2

4.8) KHAN PLANT #2 & #3 : 173,000 m²

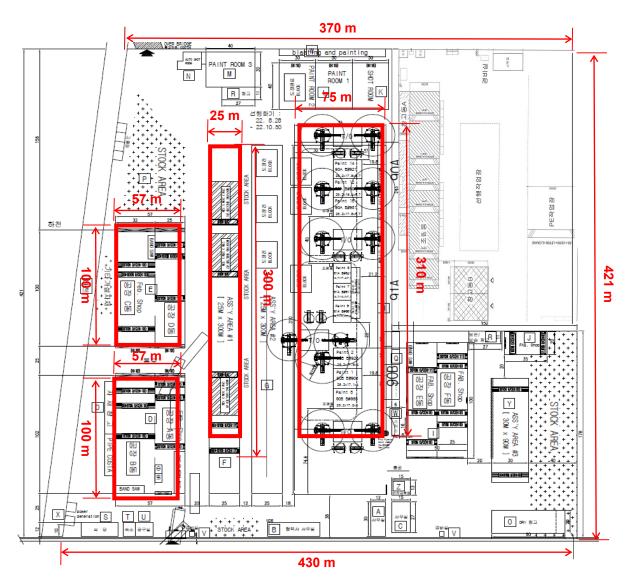


- Covered Area: <u>45,000 m²</u> • Uncovered Area: 95,000 m² 140,000 m²
- Total Area:

- Major Business:
- Living Quarters & Helideck ٠
- Onshore Plant : Fired Heater, PAR & PAU, ٠ External Piping, HRSG
- Offshore Plant : FPSO's LQ, Pipe rack, ٠ Electrical Building, Process Modules



4.8.1) KHAN PLANT #2 & #3 (Side-by-side): 173,000 m²

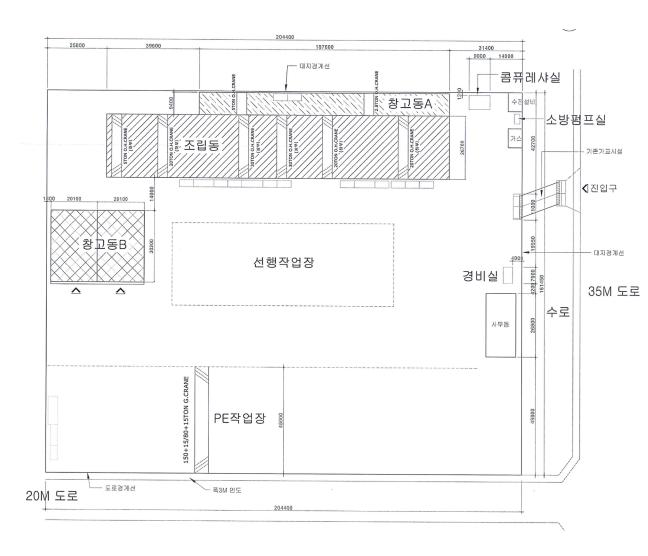


Detailed Information		
Shop A/B	W 57m x H 24m x L 100m	
Shop B/C	W 57m x H 24m x L 100m	
Shop E/F	W 50m x H 17m x L 120m	
Module Assembly Area	W 75m x L 310m	
Painting Cells	W 30m x H 17m x L 40m	
#1 Assembly Area & Moving Shelters	W 25m x L 300m	
#2 Assembly Area	W 25m x L 300m	
#3 Assembly Area	W 30m x L 90m	
#1 Warehouse	W 20m x L 60m	
#2 Warehouse	W11m x L 27m	
Offices	3 Office Building	

4.8.2) KHAN PLANT #2 facilities

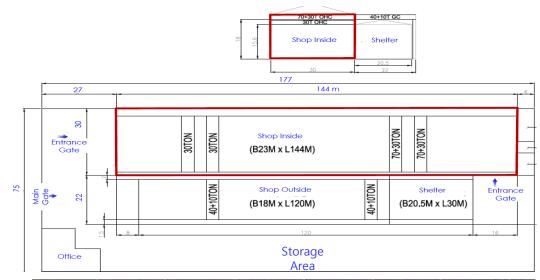
Area	Equipment	Q'ty
Enhvioation Shon A/D	10 T Overhead Crane 20+5 T Overhead Crane	1
Fabrication Shop, A/B (25+32 x 100 m)	10 T Overhead Crane	1
(25+52 X 100 III)	20 T Overhead Crane	2
	20 T Overhead Crane	2
Fabrication Shop, C/D	30+15 T Overhead Crane	-
(32+25 x 100 m)	20 T Overhead Crane	2
	30+15 T Overhead Crane	1
	30 T Overhead Crane	1
	10 T Overhead Crane	1
Pipe Fabrication Shop, E/F (25+25 x 120 m)	5 T Overhead Crane	2
	30 T Overhead Crane	1
	10 T Overhead Crane	1
	5 T Overhead Crane	2
Blasting Cell, K	1 cell, 30 x 40 m with set of blasting facilities	-
Spray Cells, L	2 cells, 30 x 40 m with set of spray facilities	-
Spray shop, M	1 shop, 40 x 30 m with set of spray facilities	-
Modulation Area, H (75 x 310 m)	-	
#1 Assembly Area, I with Moving shelters	100+10 T Gantry Crane	2
(25 x 300 m)	21 x 30 m Shelter w/ 5 T Overhead Crane	3
#2 Assembly Area, G (25 x 300 m)	-	-
#3 Assembly Area, Y	30 T Gantry Crane	1
(30 x 90 m)	50+20 T Gantry Crane	1
Warehouse, O (20 x 60 m)	-	-
Component Fabrication Shop, J (20 x 30 m)	15 T Overhead Crane 5 T Overhead Crane	1

4.8.3) KHAN PLANT #3 Layout & facilities



Detailed Information		
Warehouse A	W 9.4m x H 8.7m x L 107.6m	
Warehouse B	2 Bays, W 20.1m x H 19m x L 30.2m	
Assembly Shop	W 26.7m x H 18.8m x L 147.2m	
PE Area under Gantry Crane	W 45m x L 204.4m	
Pre-outfitting Area	W 35m x L 95m	
Cranes in Warehouse A	1 set, 5 ton Overhead Crane 1 set, 2.8 ton Overhead Crane	
Cranes in Assembly Shop	2 sets, 30 ton Overhead Cranes 3 sets, 20 ton Overhead Cranes 1 set, 5 ton Overhead Crane	
Cranes on PE Area	150+15/80+15 ton Gantry Crane	
Offices	1 Office Building	

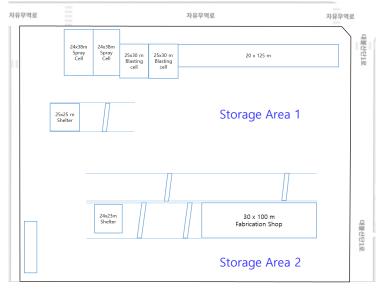
4.9) KHAN PLANT #4 Layout & facilities : 13,275 m²





Detailed Information		
Fabrication Shop	W 30m x H 18m x L 144m	
Outfitting Area Under Crane	W 22m x H 18m x L 120m	
Storage Area	W 22m x L 130m	
Cranes in Fabrication Shop	2 sets, 70+30 ton OH Cranes 2 sets, 30 ton OH Cranes	
Cranes on Fabrication Outfitting Area	2 sets, 40+10ton Gantry Crane	
Offices	1 Office Building	

4.10) KHAN PLANT #5 Layout & facilities : 66,000 m²





Detailed Information		
Fabrication Shop	W 30m x L 100m	
Shelter	W 24m x L 23m W 25m x L 25m	
Assembly Area Under Gantry Crane	W 30m x L 100m W 25m x L 200m	
Storage Area 1	12,000 m2	
Storage Area 2	9,500 m2	
Blasting cells	2 bays, 25m x 30m	
Spray cells	2 bays, 24m x 38m	
Painting shop for pipe spool	20 x 125 m	
Cranes in Fabrication shop	2 sets, 30ton OH Crane 1 set, 20ton OH Crane	
Crane on Assembly Area	4 sets, 60 ton Gantry crane	
Offices	1 Office Building	

4.11) Mobile Crane, SPMT, Transporter

The mobile cranes below is from our partners and can be used without restrictions as required.

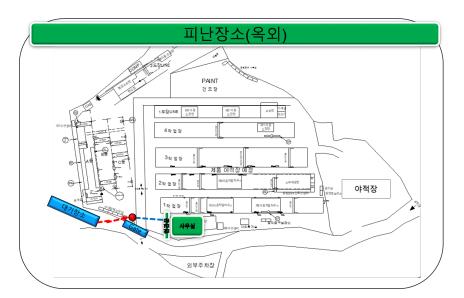
- \succ (1) 750 ton Crane, Boom Length 52 m (LTM1750)
- \succ (3) 500 ton Crane, Boom Length 50 m (LTM1500)
- \succ (3) 275 ton Crane, Boom Length 60 m (LTM1250)
- \succ (6) 100 ton Crane, Boom Length 60 m (LTM1100)
- \succ (14) 50 ton Crane, Boom Length 38 m (LTM1050)
- ➤ (11) 25 ton Crane
- (140 axles & 8 power packs) SPMT, 5400 L x 2430 W / each
- (1) 650, (1) 600, (1) 500, (1) 380 & (3 sets) 320 ton
 Transporter



4.12) KHAN Pohang Factory Layout & facilities : 72,578 m²

Total Area (m²)	72,578 m²
Fabrication Shop	7,000 m²
Assembly Yard	48,678 m²
Stock Area	10,400 m²
Painting Area	4,400 m ²
Office	2,100 m ²
Capacity Utilization	12,000 Ton / Year

Shot Blast Room & Painting Booth			
Equipment	Size	Remarks	
No. 1 Painting Booth	15m X 10m X 7m	(Movable) : 150 m ²	
No. 2 Painting Booth	20m X 10m X 7m	(Movable) : 200 m ²	
No. 3 Painting Booth	20m X 10m X 7m	(Movable) : 200 m ²	
Shot Room	25m X 20m X 8m		





4.12.1) KHAN Pohang Factory Layout & facilities : 72,578 m²

NO	Equipment	Range	Q'ty	Remark	NO	Measuring Instrument	Range	Serial No.	Maker
1		2.8 Ton/Span : 15m & 20m	2		1	Universal Testing Machine	0 ~ 1000kN	DYU-88-16	Dae Young Tester
2	Gantry Crane	5 Ton / Span : 15m & 20m	2		2	Brinell Hardness Tester	500 ~ 3000kgf	88-16	Dae Young Tester
3		10 Ton / Span : 12m	1		3	EQUOTIP Portable Hardness Tester	200 ~ 900HL	20-8840	G&R/HT-2000A
4		10 Ton / Span : 20m	3		4	U.T Thickness Gauge	0 ~ 100mm	533665	ELCOMETER/C205
5		20 Ton / Span : 20m	1		5	Infrared Thermometer	-30 ~ 900℃	10085-033	FLUKE/572
6		20/20 Ton / Span : 25m	1		6	Tachometer	30000rpm	08128	LINE SEIKI/TM-3011
7		30 Ton / Span : 12m	1		7	Sound Level Meter	25~130dB	01836	ONOSOKKI/LA-210
		· · ·			8	Vibration Meter	25Hz ~ 1.25kHz	951095	ACO/TYPE3148
8		30/10 Ton / Span : 20m	2		9	Outside Micrometer	25 ~ 50mm	3002760	MITUTOYO
9		30/10 Ton / Span : 25m	2		10	Outside Micrometer	75 ~100mm	808874	MITUTOYO
10	Overhead Crane	10 Ton / Span : 20m	4		11	Outside Micrometer	100 ~ 125mm	808875	MITUTOYO
11		15 Ton / Span : 20m	1		12	Outside Micrometer	125 ~ 150mm	808876	MITUTOYO
12		20 Ton / Span : 20m	4		13	Outside Micrometer	150 ~ 175mm	808877	MITUTOYO
13		CO2 350A, 500A	30		14	Outside Micrometer	200 ~ 225mm	808878	MITUTOYO
14	Welding M/C	SAW AUTO M/C	4		15	Outside Micrometer	150 ~ 300mm	5917589	MITUTOYO
15		GOUGING M/C	2		16	Auto Level	-	407767	SOKKIA/B20
16	Conveyor Line	Z-Line	1		17	Auto Level	-	399840	SOKKIA/B20
17	Drill Grinder	AUTO	1		18	Total Station	-	23271	SOKKIA/SET330R
18	AMADA Drilling M/C	6BH-1300II	1		19	Total Station	-	36385	SOKKIA/SET3130R
					20	Auto Level	-	8H4433	TOPCON/AT-G3
19	AMADA Bandsaw M/C	HK-1300 / D-450	2		21	Surface Profile Gauge	0 ~ 1mm	E10006	ELCOMETER/E123R
20	Oxygen C/T	-	2		23	Dry Flim Thickness Standards	0µm ~ 500µm	820628	NONE
21	Radial	100mm	1		24	Dry Flim Thickness Gauge	1µm ~ 1000µm	EF0652	ELCOMETER/A456FBS
23	Fork Lift	Doosan D70S / 7Ton	1		25	Dew-meter	-20 ~ 80℃	PK20620	ELCOMETER/G319S
24	FOIK LIIL	Doosan 220D / 16Ton	2		26	Surface profile gauge	0 ~ 5000µm	PM00663	ELCOMETER/E1243M

4.12.2) KHAN Pohang Factory Layout & facilities : 72,578 m²



4.12.3) KHAN Pohang Factory Product Transportation

Module and Big Framed Steel Structure Assembly Yard (Rental Site: MOU)

• Port Yard (Pohang Yeong-il Bay Port)

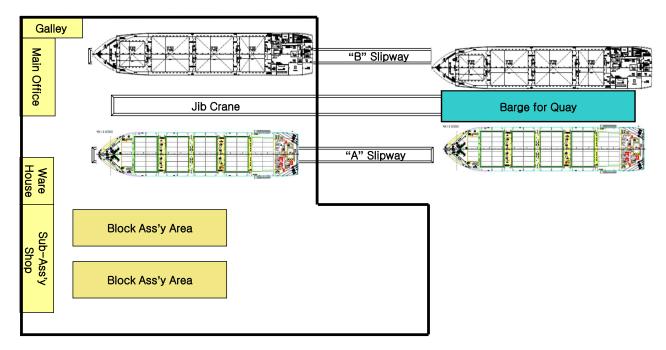


Total Area	<u>120,000 m²</u>		
Assembly Yard	100,000 m ²		
Equipment Shop	311 m ²		
Office	1,362 m ²		
Etc.	18,327 m ²		

- Nearest port to KHAN Pohang Factory, more efficient to use.
- Around 10 km from KHAN Pohang Factory to the port (good access).



4.13) KHAN-Mokpo Shipyard (Partnership) Layout & Facilities











4.13) KHAN-Mokpo Shipyard (Partnership) Layout & Facilities

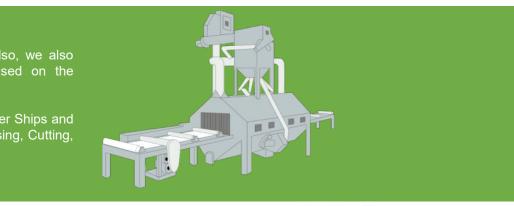
NO	ITEM	Demension	Num	Remarks
1	"A" Slip Way Dock	28M × 210M	1	
2	"B" Slip Way Dock	28M × 210M	1	
3	Winch for Docking	100HP	1	
4	Gentry crane	15TON. 10TON, 5TON	3	
5	Hydro Crane	25TON	1	
6	Forklift	7TON.	4	
7	Bending Machine	50HP	1	
8	Air Compressor	150HP, 100HP	4	
9	CO ² Welding Machine	500A	000	
10	Submerged Welding Machine		2	
11	Jib Crane	80 ton	1	
12	Sub-Ass'y Shop	abt. 12M × 54M	1	
13	Ware House	abt. 12M × 20M	1	

KHAN°

4.14) ONE-STOP PROCESS

KHAN is a company specializing in manufacturing Ship-blocks. Also, we also make commitments to the Onshore, Offshore, and Industry based on the Experience & Technique of Plant.

KHAN also have strongpoint for making all sort of Blocks for Container Ships and Others, Manufacturing Blocks, Performing the process of Preprocessing, Cutting, and Manufacturing by one-stop process.



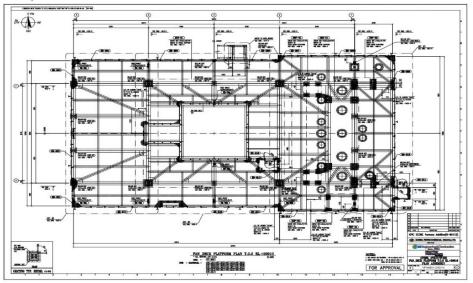


4.15) Used Software for Engineering and Design

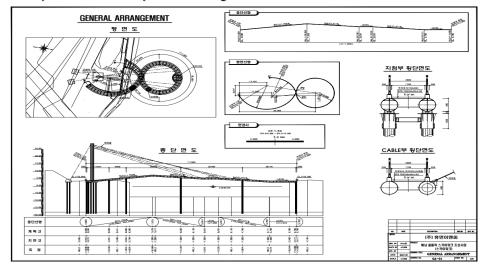
Category	Company	Name of Software	Category	Company	Name of Software	
	MATLAB	MATLAB		Trimble	TEKLA	
	Bently	SACS			TEREA	
	Bently	Stadd Pro		AutoDesk	AutoCAD	
Analysis	ANSYS	ANSYS Professional NLT		Autobesk		
	SVD	FEGATE for Ship Package		Microsoft	Microsoft office	
	MSC	MCS Nastran Linear Structures Package	Program	Bently	Stadd Pro(Structure Analysis)	
	DNV	Naticus 3-D Beam				
	AutoDesk	AutoCAD		MIDAS IT	Midas Gen(Structure Analysis)	
Design	AVEVA	AVEVA Hull & Outfitting Design				
	FORAN	Foran(3D Modeling) Viewer		INTELLI	CADian PRO	
Office	Microsoft	Microsoft office				
Office	Oracle	Primavera				

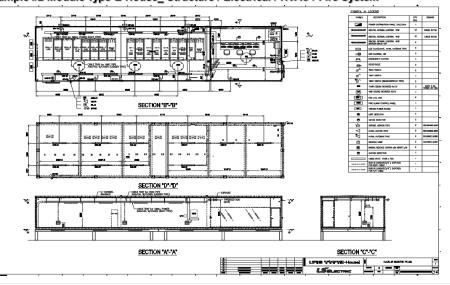
4.16.1) Design Drawing

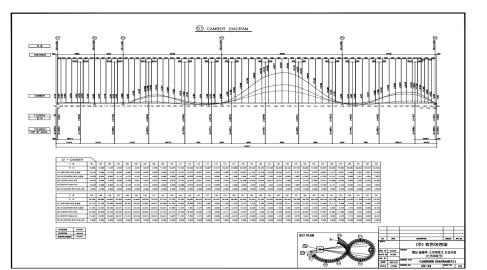
Sample #1 Structure of Heater



Sample #3 Structure for pedestrian bridge

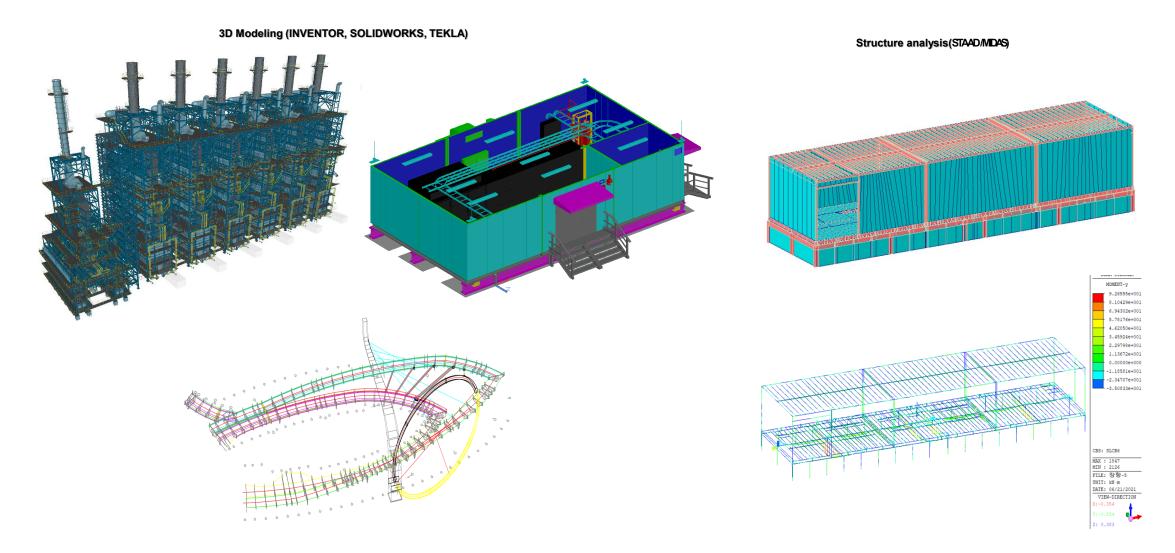






Sample #2 Module Type E-House_ Structure / Electrical / HVAC / Fire System

4.16.2) 3D Modeling & Structure analysis (INVENTOR, SOLIDWORKS, TEKLA, STAAD/MIDAS)



5. CORE BUSINESS

KHAN is an Industry Service Provider with Core Businesses ranging from EPCIC (Engineering, Procurement, Construction, Installation, and Commissioning) Work of Offshore to Onshore, including Platform Decommissioning.

BROWNFIELD REVAMPING

Life extension of the field and brown field upgrading works, which help transform drilling / platform facility into one that meets new operational and regulatory requirements.



MODULE FABRICATION

Using KHAN PLANT Factories in Mokpo, South Korea, KHAN is able to construct PAU, PAR, Living Quarters, Pipe Racks, Aluminum Structure, etc.





RIG MODIFICATION & UPGRADE

KHAN provides a wide range of Rig-related services, including refurbishment, reconfiguration, design, assembly, testing, and Rig field service.



HEATER, CRACKING FURNACE

KHAN utilizes the KHAN PLANT Factories to provide Customers with various types of heat modules such as cracking furnace, oil refinery facility, chemical plant modules, etc.



5. CORE BUSINESS

KHAN is an Industry Service Provider with Core Businesses ranging from EPCIC (Engineering, Procurement, Construction, Installation, and Commissioning) Work of Offshore to Onshore, including Platform Decommissioning.

CONSTRUCTION & INSTALLATION

KHAN has the ability to conduct Construction Catch-up for FPSO/FSO/FLNG with the work including Job Card Writing, Testing, Electrical, etc.



OFFSHORE HUC

Preparation of Hook-Up Procedure & Job Card of work package in order to complete Offshore Hook-Up and Carry Over Work and execution of Offshore Commissioning & Start-Up.



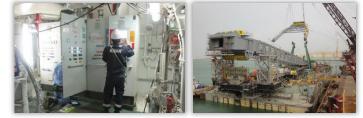
COMMISSIONING

To ensure safety and completeness during operation by testing until performance of equipment are achieved and preparation of commissioning procedure before operation.



OPERATION, PRESERVATION & MAINTENANCE

Operation, Preservation & Maintenance of Offshore Topside module, Vessels, or Platforms through 3D Scanning for Reverse Engineering, utilizing KHAN Planned Maintenance System (PMS).



KHAN is an Industry Service Provider with Core Businesses ranging from EPCIC (Engineering, Procurement, Construction, Installation, and Commissioning) Work of Offshore to Onshore, including Platform Decommissioning.

OFFSHORE WIND JACKET – INSTALLATION & GRILLAGE CLEANING

KHAN conducts Installation & Grillage Cleaning for Offshore Wind Jacket, with KHAN also managing the Procurement, Seafastening, and Custom Clearance.



POWER SOLUTION

KHAN provides services for power solutions, such as independent power plant provision, power rental, and air compressor rental.



RELOCATION SERVICE KHAN provides suitable and cost-effective relocation services

to help clients concentrate on their projects, including Office Support and Shuttle Services.

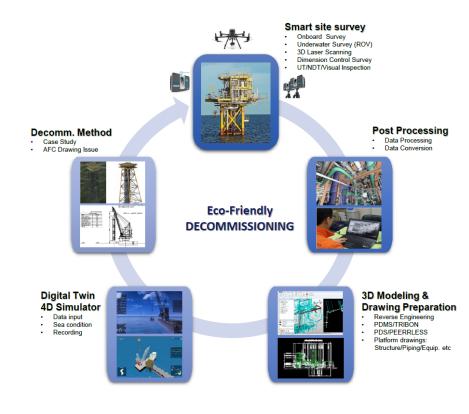




KHAN is an Industry Service Provider with Core Businesses ranging from EPCIC (Engineering, Procurement, Construction, Installation, and Commissioning) Work of Offshore to Onshore, including Platform Decommissioning.

ECO-FRIENDLY DECOMMISSIONING

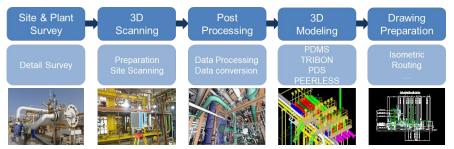
KHAN leads the way in decommissioning of offshore platform. KHAN is working a Turn key for a full-service decommissioning, including deconstruction, waste management, and environmental services, together with the associated logistics. High-tech is used in decommissioning to increase effectiveness.





HIGH-TECH SOLUTION PROVIDER

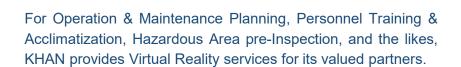
Using High-Tech scanners and softwares, KHAN is able to provide solutions for Reverse Engineering, 3D/4D needs, VR, Building-Information Modeling, etc.

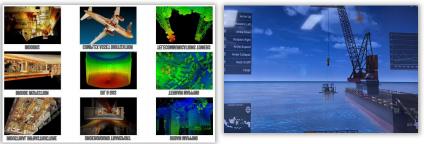


KHAN is an Industry Service Provider with Core Businesses ranging from EPCIC (Engineering, Procurement, Construction, Installation, and Commissioning) Work of Offshore to Onshore, including Platform Decommissioning.

3D & 4D SOLUTION PROVIDER

By utilizing High-Technology Hardware and Software, KHAN is able to provide and deliver solutions for Reverse Engineering, Building Information Modeling, Reality-capture, and other needs.





CONTROL SYSTEM



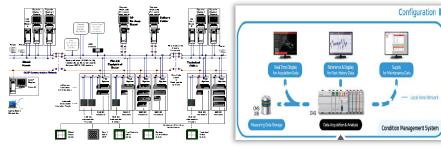
VIRTUAL REALITY

KHAN conducts the installation of control systems on the vessel, such as safety, shore communication system, etc. for Ships, with MCS/DPS and SNDC for Submarine.





ARAON is the brand of KHAN that is providing smart automation and management system by utilizing high technology (Internet of Things, Virtual Reality simulation, etc.).



KHAN is an Industry Service Provider with Core Businesses ranging from EPCIC (Engineering, Procurement, Construction, Installation, and Commissioning) Work of Offshore to Onshore, including Platform Decommissioning.

E-HOUSE

KHAN PLANT is capable in manufacturing various types of Ehouse, such as small, medium, and large size, upon request from the customer.



STEEL STRUCTURE

KHAN PLANT is able manufacture various steel structures according to customer needs by utilizing the site of the KHAN PLANT facilities such as enclosure, HVACs, etc.



BUOY MANUFACTURING

Utilizing KHAN PLANT's Fabrication Facility in Mokpo, South Korea, KHAN PLANT is able to produce Buoys and Single Point Mooring (SPM) of various specifications.





Joining Pipe Joints on the lay vessel, with the welding, inspection, field installation and commissioning of pipes at the offshore.

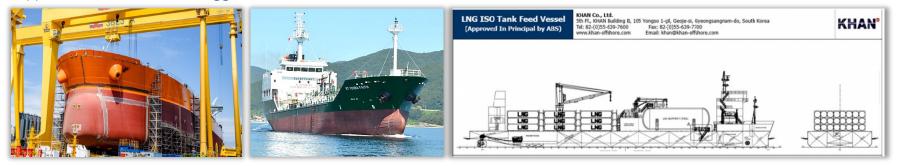


PIPE LAYING

KHAN is an Industry Service Provider with Core Businesses ranging from EPCIC (Engineering, Procurement, Construction, Installation, and Commissioning) Work of Offshore to Onshore, including Platform Decommissioning.

SHIPBUILDING

KHAN & KHAN PLANT specializes in small-medium vessel construction, ranging from small-size Oil Tankers to Aluminium boats. Maintenance, Repair, and Operation (MRO) of Vessels such as Military Vessels can also be conducted. It also has the ability to support the construction of bigger Vessels.



SHIP BLOCK CONSTRUCTION

Construction of Ship Blocks are done in the KHAN PLANT's Fabrication Facility in Mokpo, South Korea, with the primary client being the shipyard Hyundai Samho Heavy Industries.



5. CORE BUSINESS

ARAON[•] is the first brand of KHAN and applicable as follows:

V SERIES - Vessel Management System for Rig, Drillship, Tanker, Container, Ferry, Bulk etc

- Alarm Monitoring System / Vessel Management System / Cargo Monitoring System
- Operation Manual / Valve Remote Control System / Safety System / IoT Cloud Infra Network
- **SERIES** Integrated Automation System : LNGC, FSRU, LNG Bunkering Vessels.

P SERIES - Power Management with MSBD, ESBD and all distribution

- PMS engineering & Document drawing for main switch board / Engineering support / MSBD main Panel
- Support factory acceptance test / Support site acceptance test / Commissioning service

E SERIES - Emergency and Safety System : LNGC ESD, Fire & Safety System for Rig and Drillship.

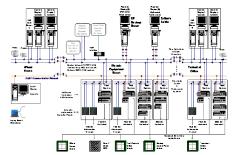
- Fire & Gas Detection system / Safety system (ESD/PSD) / Operating work station / FACP Panel
- ESD Air control board / ESD Pneumatic link box / ESD Manual Switch box / ESD Fusible plug box

0 SERIES - Operator Training Solution : Dynamic Process based OTS, AR/VR based training Simulation

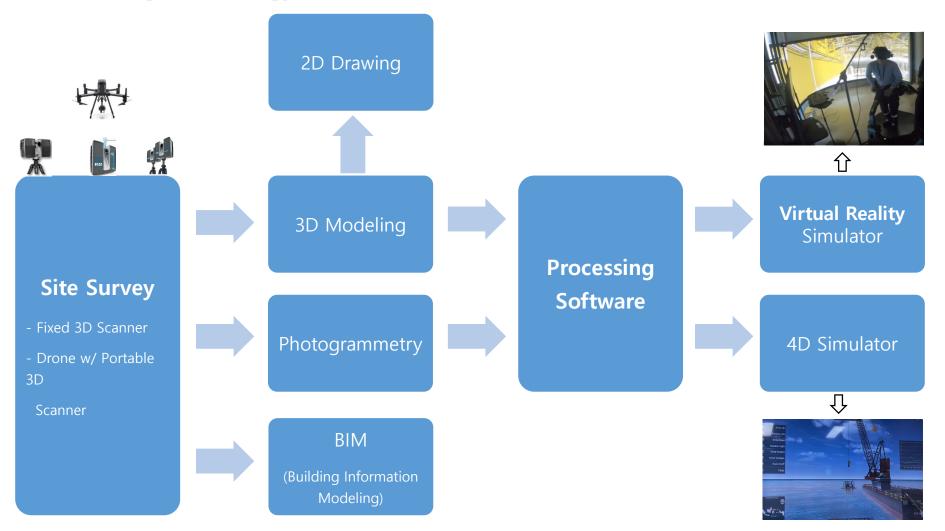
C SERIES - Condition Management Solution : IoT based predictive maintenance platform.

- System Design Engineering Control station & Sensors / Production & Quality Control
- Factory acceptance Test & Commissioning / Training & Procedure / After Service





>> KHAN High-Technology for EPCI, HUC, Maintenance, and Other Works



>> KHAN High-Technology for EPCI, Training, HUC, Maintenance, and Other Works KHAN Virtual Reality Modelling (for POSCO International – Myanmar SHK Platform Phase 3) https://www.youtube.com/watch?v=8KuopQE-YZ0



5. CORE BUSINESS

>> KHAN High-Technology for EPCI, Training, HUC, Maintenance, and Other Works KHAN Smart Operation & Maintenance (for POSCO International – Myanmar SHK Platform Phase 3) https://www.youtube.com/watch?v=Qa0Lo92sr98



Eco-Friendly Decommissioning & Rig to Reef

- Project: ATTAKA EB P/F Decommissioning Pilot Project
- <u>Client:</u> G2G (Government(Korea) to Government(Indonesia))
- <u>Work site Location:</u> Kalimantan Timur, Indonesia
 - ✓ Attaka Field for Decommissioning
 - ✓ Bontang Conservation Area for Reefing
- <u>Period:</u> Jul. 2022 ~ Nov. 2022
- Project Description:
 - ✓ Decommissioning of Platform and Artificial Reef (Rig to Reef) for re-utilization
- Scope of Work:
 - ✓ Project management
 - ✓ Site survey
 - ✓ Engineering & Planning
 - ✓ Permitting & Regulatory compliance
 - ✓ Platform/Jacket/Conductor/Riser removal
 - ✓ Mobilization & demobilization of derrick barge
 - ✓ Artificial Reef (Rig to Reef)
 - ✓ Site clearance



		Platform Name	Water Depth	Initiate Production	Shut-down Production	Ago	Weight (Tons)		
N	No.					Age (As of 2022)	Topside	Jacket (incl. conductors)	
	1	Attaka-EB	56m	1998	2015	24 years	305	356	



Eco-Friendly Decommissioning & Rig to Reef (Video)

https://youtu.be/jMfZKvWUdvQ?si=U1rVyAfl0_Q1id5Z



Ministry of Oceans and Fisheries





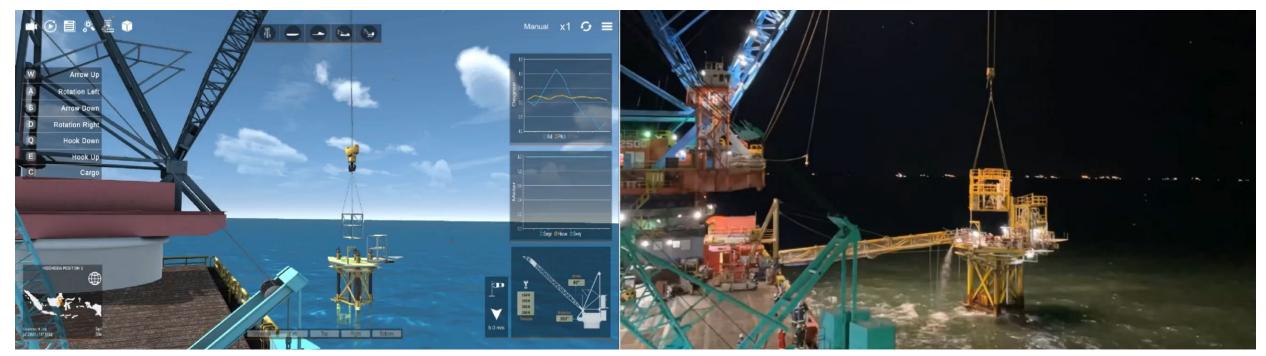
Eco-Friendly Decommissioning & Rig to Reef (Video)

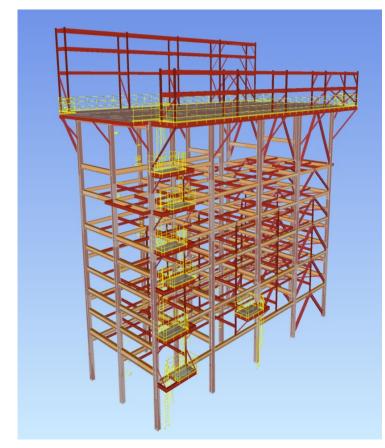
https://youtu.be/7TPvL1lozeA?si=fHNkC_PTX9Ooyf0B

KHAN Simulation Software

(Ocean Simulation Professional)









<u>S-OIL SHAHEEN PROJECT – (17) Module</u> <u>Fabrication & Assembly (PAR)</u>

- Project Owner:
- S-Oil / HDL Consortium / DL E&C
- Period:
- Dec 2023 ~ Jan 2025
- Peak Manpower:
- Project information:
 - ✓ 17 PARs, Total 11,074 ton
 - ✓ Steel Structure, 6,733 ton
 - ✓ Piping, 135,580 D.I.
 - ✓ Passive Fire Proofing
- Scope of Work:
 - ✓ Procurement of Steel, Paint & PFP, etc.
 - ✓ Fabrication & Assembly
 - ✓ Inland Transportation, FOB DAEBUL port
 - ✓ Fit-up between Module, Base plate welding, 3D Scanning

KHAN°

SHAHEEN Project

- Project Owner: S-OIL CORPORATION
- EPC, HEATER VENDOR: HDL CONSORTIUM / JNK HEATERS
- Project Description: Supply of Cracking Furnace Radiant 10 items
 Module & Structure 10 items
- Period:

- Feb. 2023 ~ Nov. 2024
- Scope of Work:
 - ✓ Radiant panel fit-up & welding
 - ✓ Radiant panel anchor
 - ✓ Radiant panel painting
- ✓ Radiant moduling

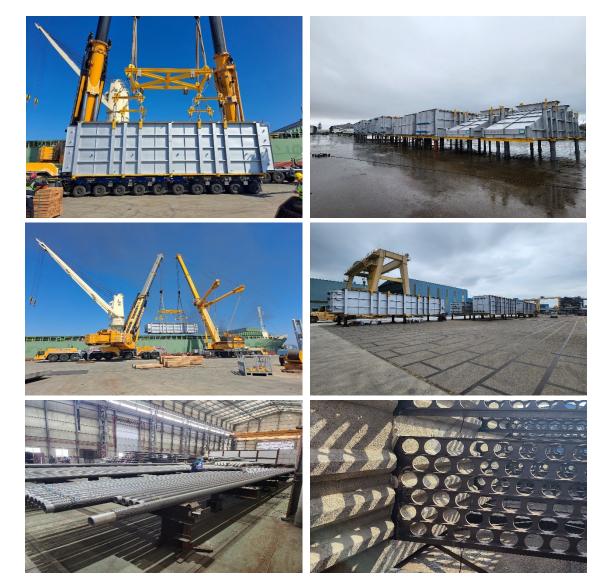












Heater Module

- Project Owner: PT LOTTE CHEMICAL INDONESIA
- EPC, HEATER VENDOR: HEC(HYUNDAI ENGINEERING) / FEI
- Project Description: Supply of Cracking Furnace Convection 42 Modules
- Period:

- April. 2022 ~ Oct. 2023
- Scope of Work:
 - ✓ EPC

KHAN°

Refinery Development Master Plan Project

- Project Owner: PT PERTAMINA BALIKPAPAN INDONESIA
- EPC, HEATER VENDOR: HEC(HYUNDAI ENGINEERING) / FEI
- Project Description:
 Supply of VC Fired heater 3 items
 + CCR heater 1 items
- Period:

April. 2022 ~ Sep. 2023

- Scope of Work:
 - ✓ Radiant module EPCI
 - ✓ Convection module EPCI
 - ✓ Stack EPCI
 - ✓ Radiant arch modeling
- ✓ Radiant coil insert
- ✓ Convection module coil insert & welding
- ✓ Stack assembly
- ✓ Stack fit up & welding













S-Oil RUCP PAU MODULE

<u>For reference</u>, the pictures on the right are the PAU assembled by SUNGCHANG E&C in 2016 and 2017 before KHAN PLANT acquired it.

Although KHAN PLANT did not directly assemble it, we have acquired and improved the facilities and secured engineers with experience in manufacturing and assembling PAU & PAR.



Guam UKUDU CCPP BESS

- Project Owner:
- DOOSANENERBILITY
- Project Description:
 - ✓ Supply of Combined-Cycle Power Plant Battery Energy Storage System (x6 Set of CCPP BESS)
- Period:

- Nov. 2022 ~ Nov. 2023
- Scope of Work:
 - ✓ Enclosure
 - ✓ HVAC (RTU)
 - ✓ Fire Alarm & Detection
 - ✓ Water Injection
 - ✓ Fire Suppression(Novec1230)
 - ✓ FAT
 - ✓ Packing
 - ✓ Transportation(International Port)





KHAN

PETROBRAS

KHAN

BR

DSME

PETROBRAS P79 FPSO, Pipe Racks

- Project Owner: PETROBRAS
- Period:

Oct. 2022 ~ Aug. 2023

60 p

- Peak Manpower:
- Project information:
 - ✓ Total Weight : 1,500 ton
 - ✓ Total Weight (w/ LQ) : Abt. 5,000 ton
 - ✓ No. of blocks : 38 EA

Scope of Work:

- ✓ Main Structure
- ✓ Pipe Jointing
- ✓ Painting
- ✓ NDE
- ✓ Integration
- ✓ Load out





KHAN°

PETROBRAS P79 FPSO, LQ

- Project Owner: PE
 - PETROBRAS
- <u>Period:</u> Jul. 2022 ~ May. 2023
- Peak Manpower: 430 p
- Project information:
 - ✓ No. of Cabin : 66sets (Conventional Type)
 - ✓ Floor : 7 Floors
 - ✓ Deck Area : 6,500 m³
 - ✓ Total Weight : Abt. 3,500 ton
 - ✓ Total Weight (w/ Pipe Racks) : Abt. 5,000 ton
 - ✓ 91A (13 Blocks) : Essential Panel, TR, GT
 - ✓ 90A (6 Blocks) : Electrical / Public Space
 - ✓ 90B (15 Blocks) : Cabins & Offices

• Scope of Work:

- ✓ Sub and assembly, P.E works
- ✓ All outfitting works
- ✓ Fabrication Inspection
- ✓ NDT
- ✓ Block Final Inspection
- ✓ Heli Deck
- ✓ Part of the Pipe rack











HSHI, Engine Casing & Funnel and Wing Bridges

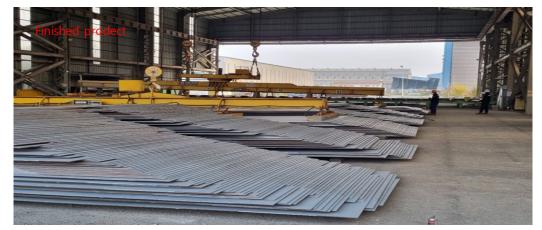
- Project Owner:
- Various Ship-owners / HSHI

- Annual contract, 13 sets in year 2024
- Peak Manpower:
- Project information:
 - ✓ Engine Casing for LNGC, LPGC, PCTC, Container carrier
 - ✓ Wing Bridge for LNGC, LPGC, PCTC, Container carrier
- Scope of Work:
 - ✓ Procurement of outfitting
 - ✓ Fabrication & Assembly
 - ✓ Electrical, Insulation work
 - ✓ Painting
 - ✓ Transportation up to HSHI yard
- Delivery Plan in Year 2024:
 - 2024/1/4 for ship# 8129
 - 2024/1/31 for ship# 8130
 - 2024/2/28 for ship# 8167
 - 2024/3/10 for ship# 8197
 - 2024/3/12 for ship# 8161
 - 2024/5/16 for ship# 8175
 - 2024/4/2 for ship# 8187

- 2024/5/14 for ship# 8131
- 2024/7/26 for ship# 8211
- 2024/9/5 for ship# 8143
- 2024/10/14 for ship# 8212
- 2024/10/21 for ship# 8102
- 2024/11/29 for ship# 8213







HSHI, Surface Treatment for Plate

Project Owner:

- Various Ship-owners / HSHI
- Annual contract, 7,500ton / Month
- Automation equipment system
- Project information:
 - ✓ Surface treatment for Plate
 - ✓ 7,500ton / Month, 90,000ton / 2024 year
- Scope of Work:
 - ✓ Shot blasting (Grade SA2.5)
 - ✓ Painting (KCC IZ-182)
 - ✓ Transportation up to cutting factory







HSHI, Sub-Block Fabrication

- Project Owner:
- Various Ship-owners / HSHI

- Annual contract, 1,000ton / Month
- Peak manpower
- Project information:
 - ✓ Tank blocks for LPGC
 - ✓ T-blocks for LNGC, Container carrier
 - ✓ Side deck blocks for LNGC
 - ✓ Deck store blocks
 - ✓ 1,000ton / Month, 12,000ton / 2024 year
- Scope of Work:
 - ✓ Procurement of outfitting
 - ✓ Fabrication & Assembly
 - ✓ Transportation up to HSHI yard

Ørsted Greater Changua Wind Farm Project







- Client: Ørsted & Heerema Marine Contractors
- Location: Korea
- <u>Period</u>: July 2021 ~ Sep 2022
- Project Description:

Grillage & Access Platform Installation & Cleaning Seafastening Work During Jacket Loadout Mooring Equipment Removal & Reinstatement Customs Clearance of Huge Scrap in accordance with Korean Law

Scope of Work:

- ✓ Shipping Agent
- ✓ Site Survey
- Reviewing of Drawing
- ✓ Procurement for Modifications & Installation Works
- ✓ Install FOU grillage/platform/hydro & Electric
- ✓ As-Built Drawing
- ✓ Jacket Installation & Cleaning of Grillage





MP Barry 8 Excitation Package E-House

- Project Owner: TMEIC
- Project Description:
- ✓ Supply of MP Barry 8 E-House 2 Set
- Period:
 - ✓ June.2021 ~ Mar. 2022
- Scope of Work:
 - ✓ EPCIC of 2 Set of Container Type Ehouse (Packing & Transportation for FOB)



MHPS EL PASO Excitation Package E-House

- Project Owner: TMEIC
- Project Description:
- ✓ Supply of MHPS EL PASO E-House 1 set
- Period:
- ✓ Jan. 2021 ~ Mar. 2022
- Project Information & Scope of Work:
 - ✓ EPCIC of 1 Set of Container Type Ehouse (Packing & Transportation for FOB)

USA Alabama STG & GTG

- Project Owner: TMEIC
- Project Description:
- ✓ Supply of USA ALABAMA Power South Lowman Energy Center Unit 1 & 2 (2 Set)
- Period:
 - ✓ Apr. 2020 ~ Apr. 2021
- Project information & Scope of Work:
 - ✓ EPCIC of 2 set of E-house
- ✓ Size: 9m(L) x 3.3m(W) x 3.5m(H) (FOB Delivery)



LS Metal JangHang Factory Main E-house

- Project Owner: LS Electric
- Project Description:
 - ✓ Supply of LS Metal Janghang Factory Main E-House 1set
- Period:
- ✓ June 2021 ~ July. 2021
- Project Information & Scope of Work:
 - ✓ EPCIC of 1 Set of Main E-house.
 - ✓ Size: 23m(L) x 6m(W) x 3.65m(H) / 3 Modules_8m(L) x 2 set, 7m(L) x 1 set) incl. Cable Cellar: 23m(L) x 6.05m(W) x 1.2m(H) (Site Installation: 500 ton Crane)







Yeosu Complex 2 Project – Score Furnace

- Project Owner:
- LGC / PCK

- Mar. 2019 ~ Apr. 2021
- Peak Manpower:
- Project information:
 - ✓ 6 sets, 6,843 ton
 - ✓ Radiant Modules
 - \checkmark Convection Modules
 - ✓ WHB
 - ✓ Stack
- Scope of Work:
 - ✓ Procurement
 - ✓ Fabrication
 - \checkmark Insulation
 - ✓ Painting

Preservation & Maintenance, Re-activation Work

- Topside Drilling Equipment
- BOP, CMC, Topdrive, Drawwork, Mud Pump and etc.,
- Hull Part Main Engine, VFD Operation
- P&M Procedure Update & Management
- 3rd Party Vendor Call & Coordinating
- PMS(Planned Maintenance System)







BP Mad Dog#2 CPI punch Carry Over Work

- Project Owner / Client: BP
- **Period:** Aug. 2019 ~ Jun. 2021
- **Peak M/P:** 40
- <u>Man-hours:</u> 65,618MH
- Scope of Work:
 - Site survey
 - Execution of the CPI punch clear
 - Ex items inspection
 - Making for redline drawing
 - Adjust pipe flange alignment











bp Electrical Equipment in Hazardous Area Check Sheet							P	
liem : 25-47	7320201	In In	lodule : W	M	T	ask Locatio	O : WWW.UPPP	ER DECK
tem Descript	tion : POSITION SWITCH FIL	RE DAMPER	teference	DWG .G	M004	-000MJ002	2-C03-0000	1-001
	4730-03 WATER INJECTIC							
Hazardous Area							-	
Area Info	Zone Classi Zone ;		11A	Temp 4		T3	Remark	120.0
	Protection Concept Ex db	Gas Group Cert. Authority	1IC	Temp. 4 Cert.		T5	IP Rating	IP68
	SOLDO CONTROLS Mo		83079.1	riel no.	NO.		oplicatie	
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	apment namplate is clearly mart							OK
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	doment Gas group is correct.							OK
	dpment temperature class is co							OK
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	Checksheets related to installat		were comp	leted.				NA
	horised modifications to equipm							OK
	viry pluga are correct type for Ex			(st with IP	wash	ers.		OK
	Nock for Exd and Explosion pro-							
	are satisfactorily sealed and Ada							OK
12 Obstruction	ns adjacent to flameproof flange dex of flame califie with 10 mm.	ed joints are in a	cordance v	Ath ANSI	60079	-1		NA
	fame paths are clean and unde			contra cont				OK
	ids are of the barrier type and o		ladarate parate	(adda.a)				NA
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	or of components does not app		manimum	AR DAY CON	Steat	05		NA
15 Electrical o								
17 Unused to	manals are tight.							NA
Concupt cl	hack for Exe Equipment and No	in Incandiva (NI)	Equpment					
18 All termina	ils are Exin certified (If required	on certificate).						NA
19 Bridging lit	nks (where installed) do not red	uce creepage / d	learance an	d are allo	and by	Documents	tion	NA
Remarks								
	Contractor Construction Rep.	Contracte QM Rep.		QM In			Party	
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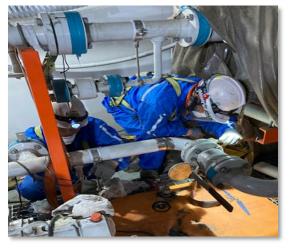
ENI CORAL FLNG Punch Clear Work Project

Project Owner: ENI

- Client: TJJV
- Period: July. 2019 ~ Aug. 2021
- Scope of Work:
- Site Survey
- Material Procurement
- OFE Punch Clear Work for Mechanical/Piping/Insulation/Painting/ E&I

en

- ✓ Offgas compressor Punch
- ✓ Pump alignment
- ✓ Cable tray modification
- ✓ Etc.





TJJ





PETRONAS Offshore Hook-Up & Commissioning

- Project: Petronas Carigali Kinanbalu NAG Phase-II
- <u>Client</u>: Petronas Carigali / UZMA Engineering
- Location: Kinabalu, Sabah
- Period: Mar. 2017 ~ Dec. 2017
- Project Description:

Gas Compressor Module (M6) **Hook-Up & Commissioning** (incl. Carry Over Work)

Scope of Work:

- Site Survey
- Job Card Development (including Onshore Preparation)
- Reviewing of Detail Design & Shop Drawing / As-Built Drawing
- Onshore Fabrication (including SDSS up to 87T)
- Procurement & Logistics for Installation Works
- (Onshore Supply Base spare parts supply)
- Hook up & Commissioning after Shut-Down Period
- Mobilization of Marine spread
 - · 1 Accommodation Work Barge (Crane Capacity 500 tons)
 - · 2 Anchor Handling Tug Boat
 - . 1 Fast Crew Boat (FCB)
 - . 1 Landing Craft Tank (LCT)







PETRONAS FLNG#1 Onshore Preparation

- Project: Petronas FLNG #1 Onshore Preparation
- Client: PBJV
- **<u>Period:</u>** Feb. 2016 ~ May 2016
- Scope of Work:
- Providing Technical Knowledge on Mechanical and Piping / Electrical and Instrument / Structural / Material Coordination Work Pack
- Assistance on Development of Plans and Procedures
- Assistance on Detailing and Validation of the existing Work Pack
 / Issuance of additional Work Pack
- Assistance on Preparation and Issuance of Job Cards
- Assistance on Identification and Issuance of List of Material









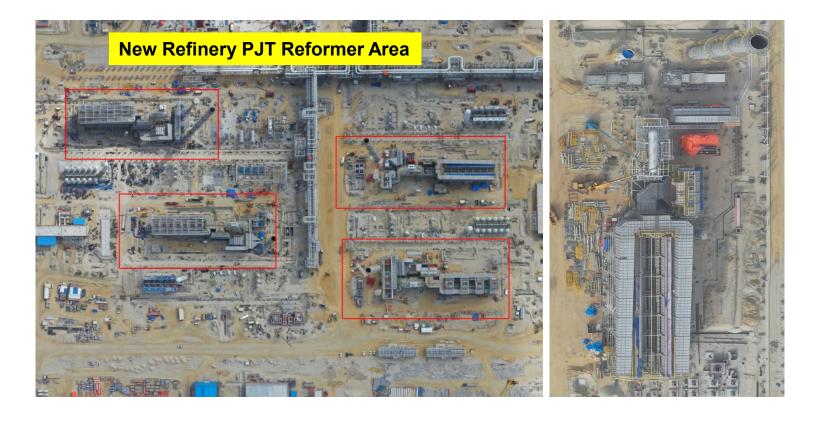


KIPIC ALZORU New Refinery Project

- Project Owner:
 - ITT
- Project Description: Supply of KIPIC ALZORU New Refinery Project 4 Set
- Period:

Jan. 2017 ~ Aug. 2018

- Scope of Work:
- ✓ Steel : 5,655 TN (Inc. Pipe support),
- ✓ Pipe Welds : 78,763 DI,
- ✓ Refractory and Insulation : 47,194m2,
- ✓ Equip: 3,636 TN
- ✓ Painting : 5,336m2



KHAN°

Refinery Expansion Project (Fabrication)

- Project Owner:
 - S-OIL
- Project Description: Supply of ONSAN S-oil Refinery Expansion Project 3 Set
- Period:

- Jan. 2017 ~ July. 2017
- <u>Project information:</u>
 - ✓ Weight: 5,865 Ton / Set
 - ✓ Spec : Convection, Stack, WHB, APH, Radiant Module
- Scope of Work:
 - ✓ Fabrication Non Pressure part
 - \checkmark Insulation
 - ✓ Paint















BP QUAD 204 FPSO

- ✓ HHI, Ulsan / BP
- ✓ Carry Over Work for Turret
- Feb 2014~Dec 2015
- 498,456 Manhours



Shell Prelude FLNG

- ✓ SHI, Geoje / Fjords Process
- ✓ Carry Over Work for MEG Module
- ✓ Sep 2015~Dec 2016



Shell Prelude FLNG

- SHI, Geoje / SBM Offshore
- Carry Over Work for Turret
- Dec 2015~Jun 2017





BP Q204 & Clair Ridge Topside Module Construction Work

- Project: BP Clair Ridge Topside Module Construction Work
- Project Owner / Client: BP
- EPCI Contractor: HHI
- Period: July 2014 ~ May 2016
- Peak M/P: 1028
- •<u>Man-hours:</u> 2,031,259 MH
- Scope of Work:
- FPSO & Platform Construction Work for each Discipline: E&I, Pipe, Mech., Structure, Paint, Scaffolding, HVAC









Shipbuilding

Commercial Vessel

- Oil Tanker (Small size)
- Oil Tanker (50K, A-Max)
- Ro-Fax
- Passenger Ship

LNG Vessel

- Bunkering Ship
- ISO Tank Carrier
- FSRU/FSU

Power

- FSPP
- BMPP



Aluminum Boat

- Fishing Boat
- Leisure Boat

Special Vessels

Seawater Desalination
 Vessel

Vessel Commissioning

 Cruise Ship Commissioning & Trials

KHAN ARAON System

Smart Vessel System

Small Size OIL TANKER

Project: 3,500 DWT OIL TANKER

SMSC

EPC

- Project Owner:
- Number of Vessel: Two (2) Units
- Period:
- Scope of Work:
- Construction Yard: KHAN

GENERAL

OIL TANKER, Single Screw, Diesel Engin Propelled Intended Cargo: Oil products, FP below 60°C Ten (10) Cargo Tank & One (1) Slop Tank

CLASSIFICATION

KRS OC-Oil Takner (D/Hull)"ESP"(FBC) Product

MAIN PARTICULARS

abt.	87.30 m
	79.80 m
	14.00 m
	7.30 m
	5.80 m
	5.90 m
	abt.

DEADWEIGHT & CAPACITY

Deadweight at Scantling Draft		3,500 MT
Cargo Oil Tank (100%)	abt.	3,800 m3
Slop Tank	abt.	140 m3
Fuel Oil Tanks	abt.	135 m3
Diesel Oil Tanks	abt.	50 m3
Fresh Water Tanks	abt.	100 m3
Ballast Water Tanks	abt.	1,250 m3

SERVICE SPEED

abt. 12.0 knots at Design Darf (at 85% MCR with 15% S.M)

COMPLEMENT

April 2023 ~ June 2024

Nineteen (19)Persons

MATERAIL PROTECTION

Cargo Oil Tank	Modified Epoxy
Ballast Tank	Modified Epoxy
Under Water Hull	Tin Free SPC AF
Cathodic Protection	Zinc & Alum. Anode
	MGPS

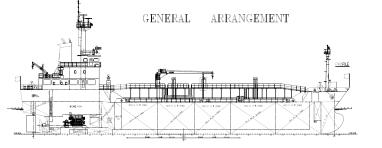
DECK MACHINERY

Windlass	Two (2) sets, Electro-Hyd.
	abt. 7 tons x 9 m/min
	One CL, Two HD, One WH
Mooring Winch	Two (2) sets, Electro-Hyd.
	abt. 5 tons x 15 m/min
	One CL, Two HD, One WH
Hose Handling Crane	One (1), 0.9 ton x 13 mtr
Provision Davit	One (1), 0.9 ton x 3 mtr

LIFE SAVING	& FIRE FIGHTING SYS.	
life Boat	Not-Provided	

Life Raft	20 P x Two (2) sets
CO2 System	for Eng. Rm & Pump Rm
Em'cy Fire Pump	One (1) set
Deck Foam Sys.	One (1) set
Fire Detection Sys.	One (1) set
Others	acc. to Rule Requirement







Small Size OIL TANKER – SMSC Vessel Launching (KHAN-Korea YANASE Shipyard)

June 2024 (Video) https://youtu.be/yUo_96hmcql?si=FWHrG8FO8pIIXCjG



Small Size OIL TANKER

- Project:
- Project Owner:
- Number of Vessel:
- Period:
- Scope of Work:
- Construction Yard:

2,800 DWT CPP Tanker

VL Enterprise Public Co., Ltd.

Two (2) Units

- Jan., 2019 ~ March, 2021
- EPC
- KHAN(Korea-Yanase)

INTENDED CARGO

Gasoline, Diesel Oil, White Oil, F.P below 60℃

CLASSIFICATION

KRS OC-Oil Takner (D/Hull)"ESP"(FBC) Product

MAIN PARTICULARS

Length (O.A)	abt.	80.00 m
Length (B.P)		76.00 m
Breadth (MLD)		13.50 m
Depth (MLD)		6.10 m
Draft (Design, MLD)		4.50 m
Draft (Scantling, MLD)		4.80 m

DEADWEIGHT & CAPACITY

DEAD MEIGHT & CALACIT	•			
Deadweight at Scantling Draft		2,800 MT	MCR	1,920 kW x 750 RPM
Cargo Tank with Slop tank	abt.	3,170 m3	NCR (85%, MCR)	1,630 kW x 268 RPM
Fuel Oil Tanks	abt.	100 m3	Fuel Oil	HFO cst 180 & MDO
Diesel Oil Tanks	abt.	35 m3	Cruising Range	abt. 4,000 NM
Fresh Water Tanks	abt.	50 m3	Fixed Pitch Propeller v	with Solid Shaft
Ballast Water Tanks	abt.	1,000 m3	Main Generator	Two (2) sets x 240 kW



abt. 12.0 knots at Design Darf, NCR, 15% Sea Margin

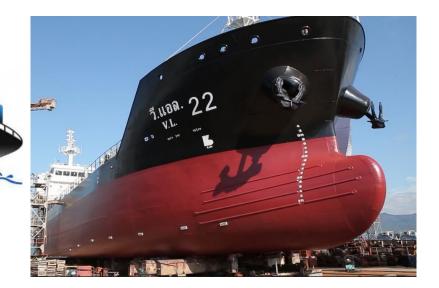
COMPLEMENT Eighteen (18) Persons

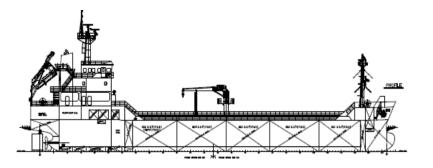
MATERAIL PROTECTION

Cargo Oil Tank	Modified Epoxy
Ballast Tank	Modified Epoxy
Under Water Hull	Tin Free SPC AF
Cathodic Protection	Zinc & Alum. Anode

MAIN ENGINE & POWER

Maker & Model	YANMAR, 6EY26W
	Reduction Gear & Clutch
MCR	1,920 kW x 750 RPM
NCR (85%, MCR)	1,630 kW x 268 RPM
Fuel Oil	HFO cst 180 & MDO
Cruising Range	abt. 4,000 NM
Fixed Pitch Propeller with So	olid Shaft
 Main Generator	Two (2) sets x 240 kW





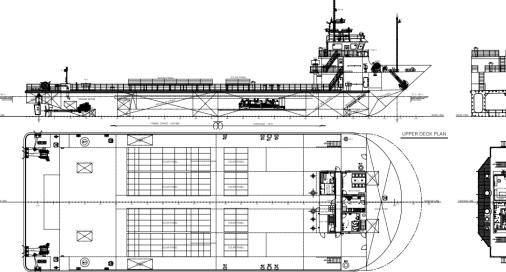
Self-Propelled Mobile Seawater Desalination Vessel (DREAMS)

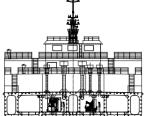
- <u>Project:</u> DREAMS Desalination by Resilient, Energy-efficient, & Advanced Mobile System
- <u>Contractor:</u>
 KHAN Co., Ltd. & YUIL Co., Ltd.
- <u>Client:</u>
 Korean Ministry of Environment
- Location : Korea, Jeollanam-do, Wando-gun
- Period: May 2019 December 2023
- Scope of Work:
- ✓ Full Vessel EPCIC

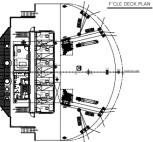
Category	DREAMS	New Vessel (KHAN)
Gross Tonnage	1800	400~500
Freshwater Production (m ³ /day)	300 – 450	300
Length Overall (m)	70.9	58
Breadth (m)	24	12
Draft (m)	4	1.8
Compliment (pax)	10	8~10
Speed (kts)	6	11.5













Multi-Purpose LNG Supply Vessel

- Project: Multi-Purpose LNG Supply Vessel
- Project Owner: TBD
- Project Period: Aug 2016 ~ Jun 2018
- Manpower: 16 Engineers
- Scope of Work: EPC
 - KHAN Standard Design
 - FEED and Basic Engineering

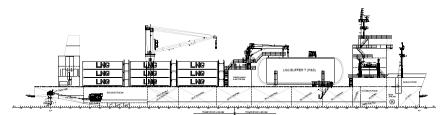




South Korean oil and gas industry service provider Khan received approval in principle (AIP) for the LNG ISO tank container feed vessel from American Bureau of Shipping (ABS).

Khan noted it conducted an analysis of the world LNG logistics and demand/supply market during the five months from July last year, developing the applicable particulars and specification of the ship.

Full Report Link : https://www.lngworldnews.com/khans-lng-feed-vessel-gets-abs-approval-in-principle,





CLASSIFICATION			
+A1, Liquefied Gas Carrier, LNG Bunkering, VRS, E, +AMS			
+ACCU, CRC(OC	C), UMILD		
MAIN PARTI	CULARS		
Length(O.A)	119.00	m	
Beam(excl. sponsons)	12.50	m	
Depth(approx.)	3.60	m	
Depth of hull	6.40	m	
Dead Weigh	3x400	MT	
LNG Tank Capacity	2x1,000	m3	
LNG ISO Tank Capacity	66x42	m3	
Service Speed	13.00	Knots	

APPROVAL IN PRINCIPLE

As requested by:

Image courtesy of Khan

KHAN CO., LTD.

Date of Issuance: 23 August 2018 Certificate Number: 4107148

ABS

ABS has reviewed the documentation as specified in the ABS letter dated 23 August 2018 (Task No. T1769285) in accordance with the ABS 2017 *Guidance Notes on Review and Approval of Novel Concepts*, and considers that the conceptual engineering as proposed is feasible for the intended application, and the facilities as presented are, in principle, in compliance with the applicable requirements of the ABS letter dated 23 August 2018 (Task No. T1769285) (indicate the applicable Rules, Guides and Guidance Notes)

Facility: LNG ISO TANK CONTAINER FEED VESSEL Description: Design of LNG ISO Tank Container Feed Vessel New Technology Maturity Level: Subsystem B - Concept Verification Stage



A-Max Tanker



50K MR Tankers









HYUNDAI

Electrical Substation SARB Package 4

- Project Owner: ADMA-OPCO
- EPC Contractor: HDEC
- Main Electric Equipment Supplier:
- ✓ ABB
- Project Description:
 - ✓ Supply of Nine(9) Substations
 - ✓ (Unit: Meter) (47.1 x 15.2 + 51.4 x 15.2), (38.3 x 8.0), (32.3 x 9.8), (49.3 x 8.2), (52.9 x 11.5), (52.9 x 11.5), (45.4 x 7.9), (33.1 x 8.2), (21.8 x 11.7)
- Period:
 - ✓ Nov. 2014 ~ June 2016
- Peak Manpower: 300 p
- Scope of Work:
 - ✓ EPC
 - ✓ Pre-commissioning & Commissioning assistance
 - ✓ Abu Dhabi Site Work (Regarding Installation and Energized Test)







Electrical Substation KNPC - CFP Project

- Project Owner:
 - ✓ KNPC (Kuwait National Petroleum Company)
- EPC Contractor: Samsung C&T
- Main Electric Equipment Supplier:
 ✓ ABB
- Project Description:
 - ✓ Supply of (3) Substations for KNPC Clean Fuel Project
- Period:
- ✓ July 2014 ~ Nov. 2014
- Peak Manpower : 120 p
- Scope of Work:
- ✓ EPC
- Pre-commissioning & Commissioning assistance
- ✓ Kuwait Site Work (Regarding Installation and Energized Test)





7.1 QHSE POLICY

Chapter 0.2 : QHSE Policy Pages 1 of 2	POLICY /	
Quality Policy	KHAN' Quality/Health/Safety/Environmental Management Manual	Doc. No. KHAN-M-001 Rev. No. 10 Rev. Date 2020.02.05
asic and Principle, Trust Based Management of Customer-Oriented, Management	Chapter 0.2 : QHSE Policy	Pages 2 of 2
Wandering Around, Top-Level Quality to impress until Spirit of Customer through active Management".		
ust Based Management : Quality Mind Systematization of Customer-Oriented.		
anagement by Wandering Around : Quality Management Activity of Principle-Oriented.	Health / Safety / Environmental Policy	
AN Co., Ltd. has a core belief to trust based management, management by wandering und and creative management. The purpose of KHAN's Quality Policy is to satisfy the tormer needs with endless quality developments supported by R&D and QA activities. The AN quality policy is measured by the evaluation of each team and is maintained based on related steps.	The HSE policy aims to enrich the future of nature and human beings by m safe environment, proactively assessing risks and opportunities for all ma establishing and implementing plans based on safety, health, environm goals. To achieve these goals, all personnel working in the organization or organization declare that they intend to proceed with the following poli safety, health and environmental management through their participation or	anagement activities and eental goals and detailed working on behalf of the licles in order to achieve
	sarety, health and environmental management through their participation a	and errorts:
KHAN employees shall comply with the rules and responsibilities of their duty to achieve		
quality policy. The Management representative be designated the head of QHSE team and II be manage and retain.	1. We abide by the international agreement, domestic regulations a	and HSE management
ii be manage and retain.	system.	
nagement Representative (MR) identifies the problem on the quality and recommends	 We assess the risks and opportunities of HSE activities and make 	e efforts to reduce and
tion. MR has the authority of properly checking the implemented policy measures and	eliminate them. 3. We implement the education training to understand and fulfill t	the UCE management
ommend required corrective actions, this systematic independence is fully supported by the	 we implement une education training to understand and running system. 	the HSC management
sident or CEO.	a yacana 4. We analyze, review and audit the HSE management system reg	ularly, and make continuo
	improvement.	
President or CEO shall take-up general responsibility regarding management system and	5. We will ensure consultation and participation of employees and the	representatives of employe
o on the matters not stated, Quality/Health/Safety/Environmental Manual. The action shall	and announce the HSE policy to all employees.	
respond to the client's requirements, legal requirements and related standards.		
1		
ate	President or CEO entrusts the responsibilities and the authorities to Manag implement all the matters prescribed Health Safety and Environmental Man	
esident & CEO :], H. HYUN Date : 2020. 02. 05	implement all the matters prescribed health sarety and Environmental health	agement system.
1-01(Rev.2, 2010.12.30) KHAI	HSE President or CEO : J. H. HYUN The Date :	
	President or CEO : J. H. HYUN Date :	2020, 02, 05

7. KHAN PLANT QHSE



7.2 HSE SYSTEM

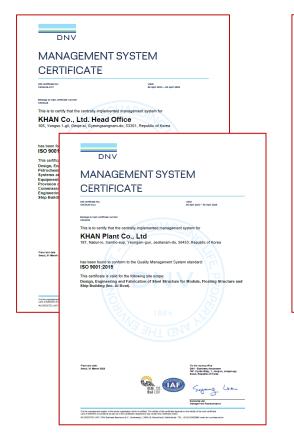
- HSE management system establishment and management (ISO 45001)
- Risk Assessment Certificate by KOSHA
- Promotion of Zero Occupational Accident Campaign
- Operate a Health & Safety team
- Contractor safety management
- Operation of Health & Safety council with contractors



KHAN

7.3 Certificates

ISO 9001





ISO 14001

ISO 45001

DNV

CERTIFICATE

KHAN Plant Co., Ltd

This certificate is valid for the following site scope

It is the management system of the whole organization which is certified. The validity of this certificate depends on Law of fulfment of conditions as and call in the Certification Agreement may smaller this Certificate invasion DWP licenses accurate Krans scale and certification (according to fixed) as an Comparison Kranshi monther KAROCCOV. ACCREDITE LOW TOW backness Awarance Krans LL, the Krybo Billio, 1 Jongen Janamona, Steed, Read

ee LSL, 18F Kyslec Bilg, 1 Jong-to, Jung-to-ga, Secul, Republ

Site certificate No.1 0603291-002

Belongs to main certificate number.

ISO 45001:2018

Place and date: Decut, 21 March 2023

MANAGEMENT SYSTEM

This is to certify that the centrally implemented management system for

o-eup, Yeongam-gun, Jeollanam-do, 58453, Republic of Korea

conform to the Occupational Health and Safety Management System

Design, Engineering and Fabrication of Steel Structure for Module, Floating Structure and Ship Building (Inc. Al Boat).

Valid: 06 April 2023 - 05 April 2026

Value

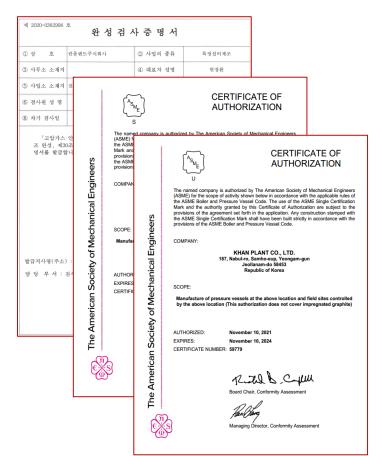
DNV - Ducineos Aceurance 18F, Kyobo Bidg., 1, Jonga

Seyoung Lee Management Representative

620

DNV

KGS Certificate, ASME S, U



KHAN[®]

7.4 Safety Regulations



7. KHAN PLANT QHSE

KHAN°

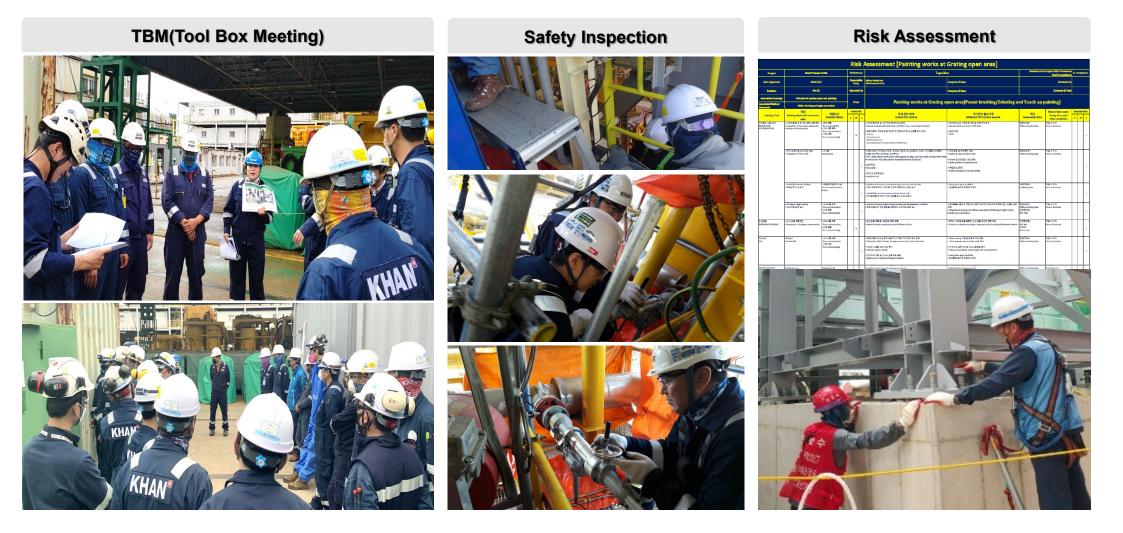
7.5 Emergency Plan (Evacuation Route)



7. KHAN PLANT QHSE

KHAN[®]

7.6 Activities



8. KHAN REFERENCE LIST

* Reference Summary(1/2)

NO.	, , , , , , , , , ,	CONTENTS	PROJECT NA	ME
1	BROWNFIELD WORK		5	
2	CARRY OVER WORK		12	
3	HOOK-UP & COMMISSIC	DNING	4	
4	COMMISSIONING	Commissioning	48	56
4	COMMISSIONING	Commissioning Procedure	8	50
5	MC (MECHANICAL COM	PLETION)	18	
6	MODIFICATION		60	
7	PIPELINE		10	
7	PIPE LAYING		15	
8	SHIPBUILDING		16	
		Aluminum Helideck	8	
		Aluminum Outfitting	4	
		Electrical Substation	18	
9	MODULE FABRICATION	Burner Boom Fabrication & Construction	2	116
	Derrick Assembly Living Quarter and Others	11		
		Living Quarter and Others	4	
		Engine Casing, Funnel, and Wing Bridge	13	
		Other Structure Fabrication	56	
10	PAINTING & METAL TREATMENT		2	

8. KHAN REFERENCE LIST

* Reference Summary(2/2)

NO.		CONTENTS	PROJECT	NAME
11	PRODUCT FABRICATION		3	
12	POWER SUPPLY		4	
13	MILITARY & DEFENSE		8	
14	GREEN PACKAGE SEF	RVICE	9	
15	ENGINEERING		85	
		Emergency Shutdown System (ESDS)	115	
		Ship Shore Communication Link System (SSCLS)	14	
	Trim and List Indication System (T/L)	96		
16	CONTROL SYSTEM	Field Instrument	58	356
		Fire and Gas Emergency Shutdown System (F&G ESD System)	2	
		Operating Manual for LNGC	69	
		OPERATOR TRAINING SIMULATOR	2	
17	RELOCATION SERVICE		138	8
18	ELECTRIC CONSTRUCTION		1	
19	WIND FARM PROJECT		4	
20	DECOMMISSIONING		1	
	PLATFORM VR SIMUL		1	

* Projects are listed in the order of the most recent delivery.





www.khan-offshore.com

ADDRESS & CONTACT;

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 KHAN PLANT Co., Ltd., 187, Nabul-ro, Samho-eup, Yeongam-gun, Jeollnam-do, South Korea (58453)

 Tel: 82-(0)61-461-5000
 Fax: 82-(0)61-461-5001