

COMPANY PROFILE



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**WELCOME TO
PTSC THANH HOA!**



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OPEN LETTER

Dear Valued Customers, Partners!

PPTSC Thanh Hoa Technical Services Company (PTSC Thanh Hoa) would like to send our respectful greetings with cooperation and development to valued customers and partners..

PTSC Thanh Hoa is a subsidiary of PetroVietnam Technical Services Corporation (PTSC). PTSC Thanh Hoa is located in Nghi Son Economic Zone, Nghi Son District, Thanh Hoa Province. There are more than 1,500 employees who have been working for PTSC Thanh Hoa in the field of oil and gas technical services, with the following four core services:

1) The field of Port Operation and Logistics: PTSC Thanh Hoa owns modern and synchronous infrastructure (berth, warehouse, wharf, port equipment...) to receive vessels of up to 100,000 DWT, loading and unloading capacity through the port is up to over 15 million tons/year, receiving oversize and overweight equipments as well as lifting, transporting, and storing equipment for a variety of goods.

2) The field of Fabrication & Installation in the field of Oil and gas, chemical, energy, traffic and social projects:

a) *The field of Mechanical Fabrication:* With the typical products are steel structures, equipment (heat exchangers, tanks, vessels, hatch covers...) and technological spool pipes with a variety of products, capacity is equivalent of over 12,000 tons of steel structure per year.

b) *The field of Installation:* PTSC Thanh Hoa is capable of installing entirely a project including of (i) Steel structure; (ii) Equipment; (iii) technological pipes...; (iv) E&I, with an annual ability in the field of installation over 30 million USD/year.

3) The field of Overhaul & Maintenance, assistance for Pre-commissioning & commissioning (O&M) in the field of oil and gas, chemicals, energy with specific products requiring high requirements such as rotating equipment (steam turbines, air compressors, etc.) high-pressure pump, fan... with large capacity, and static equipment such as valves, pipe line, heat exchangers, E&I equipment...)

4) Maritime Vessels services, assistant full-service for operation and exploitation of marine projects.

Base on a sufficient and synchronous infrastructure, strong finance, an affirmed brand name, abundant resources, especially human resources with qualified and well-experienced employees having been trained in a professional environment which make PTSC Thanh Hoa get high professionalism and punctuality through projects. Cooperation with PTSC Thanh Hoa will be the best choice for customers and partners in term of four services above.

We wish all customers, partners health, cooperation and success. Best regards!

Director - Pham Hung Phuong (Mr.)

MISSION, VISION, CORE VALUES, BUSINESS PHILOSOPHY



Mission

- *"The spirit of "Fire-seeker" on forever"*



Vision

- Development of Human Resource is the central point and going along continuously with the application of science technology, IT and digital transformation.
- Investment / Investment cooperation, ownership / Safe operation with outstanding productivity and quality of port system and modern and synchronous equipment, implement successfully of attracting and receiving vessels of up to 100,000 DWT.
- Be a prestigious, professional, efficient and long-term contractor in providing tugboat services, vessel services for Nghi Son Refinery and Petrochemical.
- Be an EPC contractor in the leading group domestically in terms of petroleum mechanical services, onshore industry: By 2025, it is capable enough to implement EPC pro projects worth 50 million USD.
- Be a branded contractor inside and outside of the area for Operation - Maintenance services.



Core Values

- Standard & Quality
- Profession & Initiative
- Strategy & Commitment
- Unity & Share



Business Philosophy

- DEDICATED -PROFESSIONAL - CREATIVE - COOPERATIVE - HUMANE"
- Bring the best service and satisfaction to customers

"Today We have a precious tradition and steady spirit under all circumstance thanks for being trained in the PTSC environment with discovery, training, and dedicated contribution of former generations. For the deep and sustainable development, together we are going to continue this challenging work but proud also to the next generation through daily working life."



ORGANIZATION CHART





OVERVIEW OF ABILITY

FINANCIAL ABILITY

PTSC Thanh Hoa's price is always reasonable, competitive with the motto of harmonizing interests between the Company and customers. PTSC Thanh Hoa is trusted by regular customers and the number of customers has constantly increased over the years.

Thanks to the staff always understanding and realizing the core values of the Company, which are: **Dedicated - Professional - Creative - Cooperative** with existing assets and reasonable means, constantly upgrading, innovating to create positive difference values.

As a result, PTSC Thanh Hoa has been continuing to do business with revenue growth of at least 20% per year, reasonable profit, strong financial resources, and very good capital mobilization ability which make a contribution to meet all the strictest requirements of the customers.

Financial situation in the last 3 years

Unit: VND Billion

No.	TARGETS	2019	2020	2021
1	Total assets	850	800	805
2	Total liabilities	321	271	272
3	Equity	529	529	533
4	Property line value	529	529	533
5	Short-term assets	546	490	525
6	Short-term debt	321	261	258
7	Working capital	225	229	267
8	Total revenue	902	629	745
9	Profit before tax	40	39	40
10	Profit after tax	38	36	37

Key financial indicators

TARGETS	UNIT	2019	2020	2021
Indicators of ability to pay				
Short-term payment factor	Time	1,70	1,87	2,04
Quick payout percentage	Time	1,55	1,60	1,79
Indicators of capital structure				
Debt Factor/ Total Assets	Time	0,38	0,34	0,34
Debt Factor/ Equity	Time	0,61	0,51	0,51
Indicators of profitability				
Profit margin (gross profit)				
Net revenue/gross profit from sales	%	7,47	10,73	8,94
Return on Assets (ROA)				
Profit after tax/Average Total Assets	%	4,25	4,41	4,60
Return on Equity (ROE)				
Profit after tax/Average equity	%	7,23	6,88	6,96



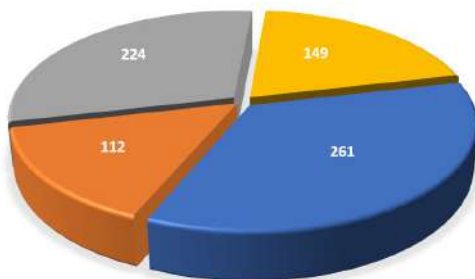
BUSINESS DEVELOPMENT PLAN

(Period of 2022 – 2026)

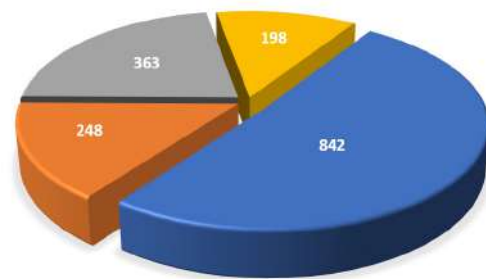
Unit: VND Billion



REVENUE STRUCTURE 2021



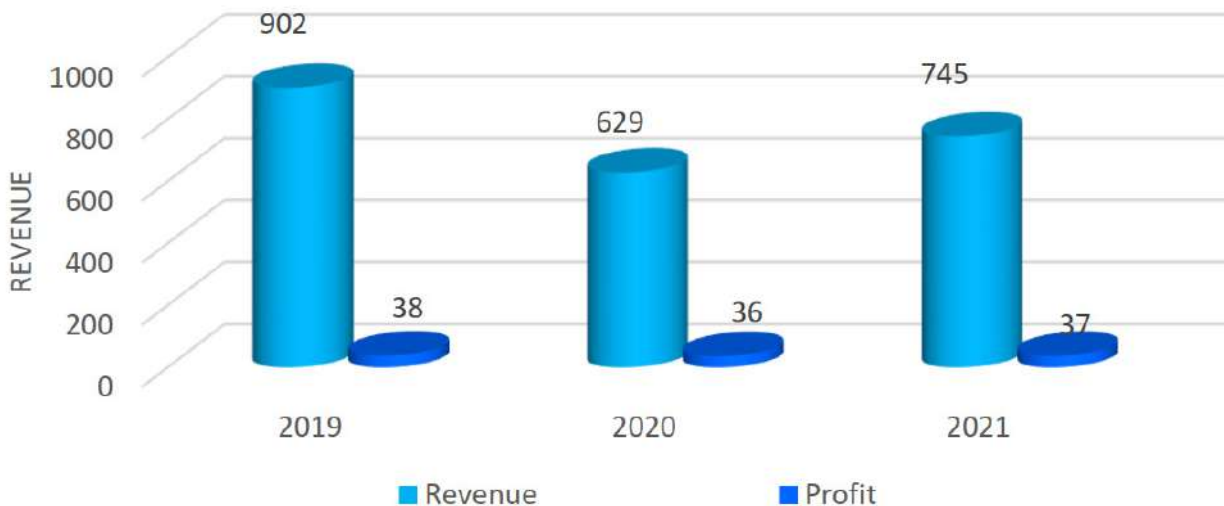
REVENUE STRUCTURE 2026



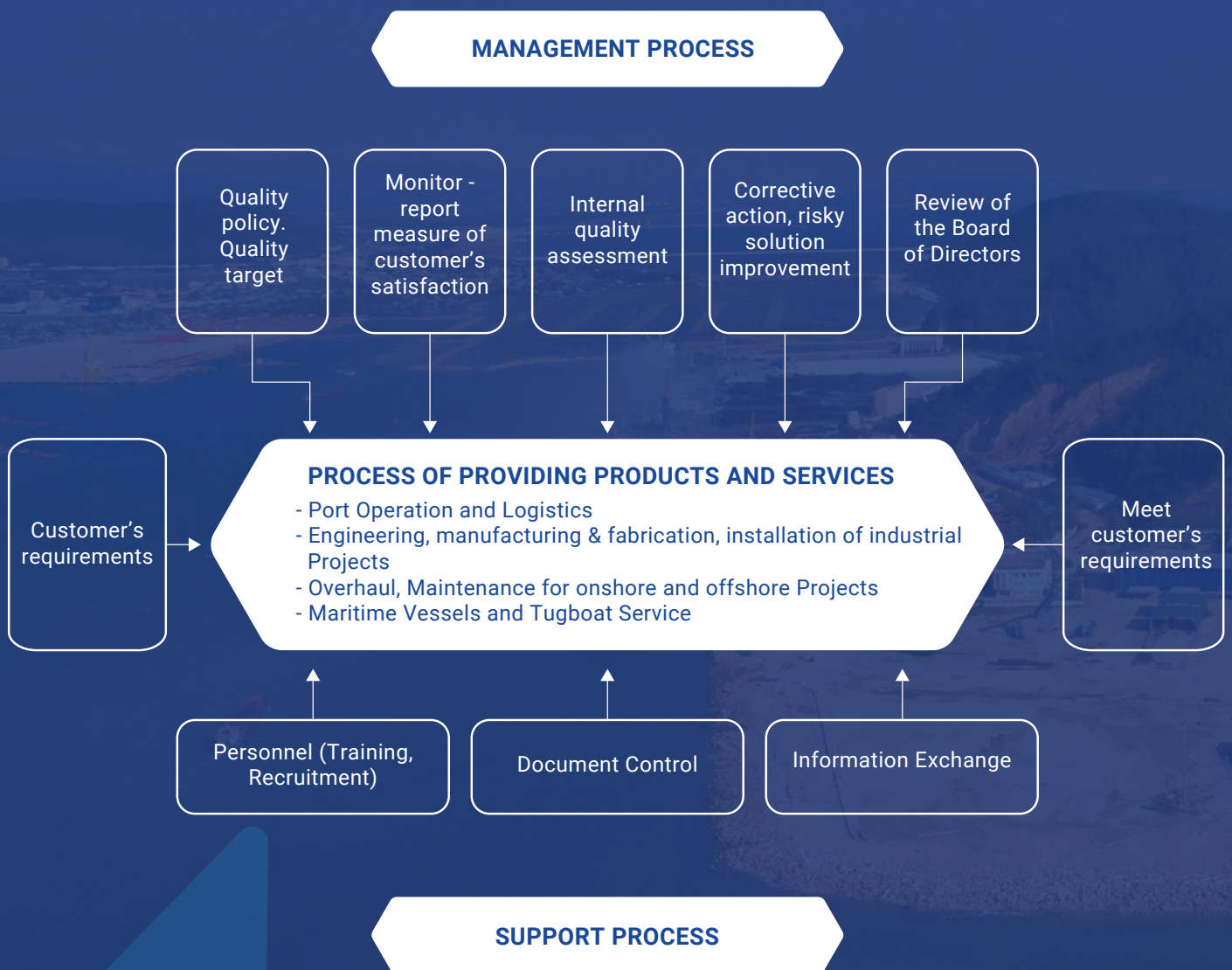
- Mechanical fabrication and Installation
- O&M Service
- Port Operation
- Vessel Service

BUSINESS RESULT

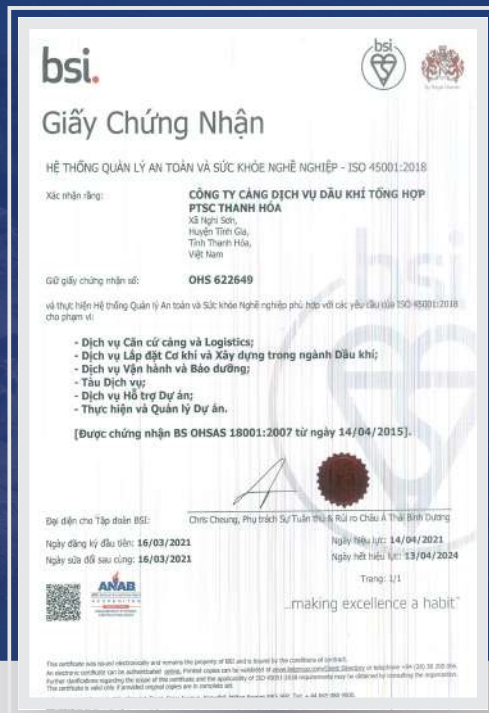
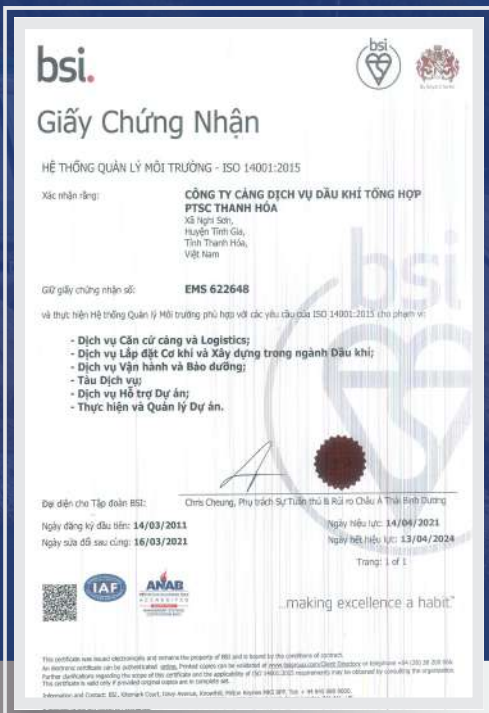
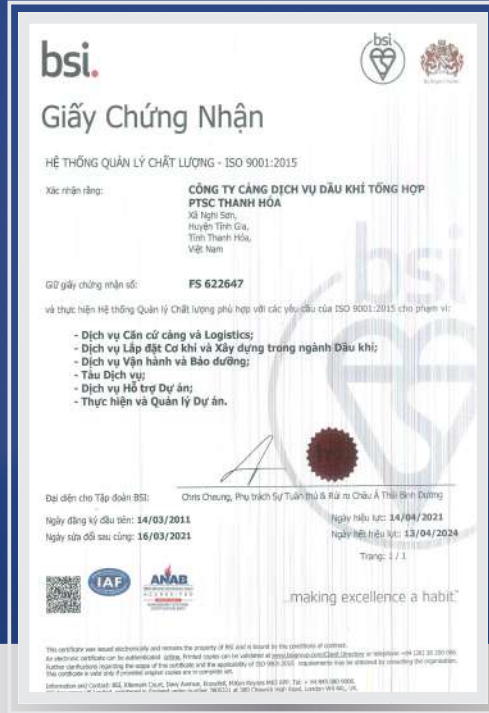
(Period of 2019 – 2022)



MANAGEMENT SYSTEM



01. GENERAL INTRODUCTION



GEOGRAPHIC LOCATION

Thanh Hoa PTSC owns 43.9 ha (infrastructure of wharves, warehouses, and workshops), with a coastal length of 1,200 m in Nghi Son Economic Zone, Nghi Son District, Thanh Hoa Province. It is bordered by Thanh Hoa - Nghe An province and has many superior elements for the simultaneous development of services in term of seaport operation, logistics and mechanical development especially fabrication of equipment.

1. Deep-water seaports allow vessels up to 70,000 DWT, by 2026 being capable of receiving vessels up to 100,000 DWT calling. The seaport is located on the road and rail traffic axis in Nghi Son Economic Zone, which is conveniently connected to the National transportation system (sea, road, rail, air).
2. There is a wharf for manufacturing components at the Factory, especially oversize and overweight components.
3. Being located at the center of high quality human resources in Vietnam.
4. Being located in Nghi Son heavy industrial zone – one of the largest industrial centers in Viet Nam.

FROM PTSC THANH HOA TO:

- Noi Bai Airport: 250 km
- Tho Xuan Airport: 90 km
- Vinh Airport: 105 km
- North – South Expressway: 35 km
- Coastal Expressway: 10 km
- National Highway 1A: 15 km

PTSC
THANH HOA





INFRASTRUCTURE

In the area of 43.9 Ha, the main infrastructures of PTSC Thanh Hoa have been planned and built as follows:

- **01** Management Office.
- **02** Berth No.1 for vessel up to 30.000 DWT
- **03** Berth No.2 for vessel up to 70.000 DWT
- **04** Berth No.3 for vessel up to 70.000 DWT
- **05** Berth No.4 for vessel up to 100.000 DWT



- **06** Manufacturing and Fabrication factory with a capacity of 1,200 tons/month.
- **07** Preliminary processing and packing area for export.
- **08** Indoor Warehouse.
- **09** Export Processing area.
- **10** Labor camp, sport and entertainment center.





PTSC THANH HOA

PORT OPERATION & LOGISTICS ABILITY

Port operation and logistics are the key business, PTSC Thanh Hoa owns Port system at 1918'23.02"N; 10549'20.57"E is located in the seaport complex of Nghi Son economic zone, Nghi Son district, Thanh Hoa province, Viet Nam, with the port infrastructure meet the capacity of cargo through the port up to 15 million tons/year, 15,000 tons/ night day, berth structure as following:

- Berth no.1 with a length of 165 meters, the water depth in front of the berth is -9 meters, receiving the vessel up to 30.000 DWT.
- Berth no.2 with a length of 225 meters, the water depth in front of the berth is -12 meters, receiving the vessel up to 70.000 DWT.
- Berth no.3 with a length of 360 meters, the water depth in front of the berth is -13 meters, receiving the vessel up to 70.000 DWT.
- Berth no.4 with a length of 440 meters, the water depth in front of the berth is -15 meters, receiving the vessel up to 100.000 DWT.
- Total port area 9,8 ha; warehouse 12,706 m² and pedestal crane AHC 1000 lifting capacity of 40 tons, with crawler cranes of 150 tons, 250 tons, specialized conveyors, forklifts, trucks are equipped synchronously for loading, unloading transporting and preserving goods.

In recent years, goods through the port have been diversified and abundant, over 1 million tons of oversize and overweight equipment have been loaded, preserved and transported for Nghi Son Refinery and Petrochemical project and other industrial projects, indoor warehouses to keep automatic control devices. In addition, agricultural, forestry and fishery products are regularly loaded and unloaded.

Dedicated, professional, creative logistics team, always consults customers with optimal logistics solutions, fast and lawful custom clearance at a very reasonable cost.

PTSC Thanh Hoa always invests in innovation, has been the most modern and convenient Port in Nghi Son, Thanh Hoa.



NGHI SON REFINERY AND PETROCHEMICAL LOGISTICS (Operation phase)

- Duration: 2016 – At present
- Client: Nghi Son Refinery and Petrochemical
- SOW: Domestic and international logistics services (custom clearance, cargo handling, land transportation for Nghi Son Refinery and Petrochemical project).
- Total volume: 2,000 sets of document, 1.25M FT, 4.500 Teu.



NGHI SON REFINERY AND PETROCHEMICAL PORT OPERATING SERVICE

- Duration: 2017 – At present
- Client: Nghi Son Refinery and Petrochemical
- SOW: Port operating service, fees collection, vessel schedule update, other maritime services support.
- Total volume: 4000 callings of vessel.

TEMPORARY PORT OPERATION – JGCS

- Duration: 2014 – 2015
- Client: JGCS Consortium
- SOW: Nghi Son Refinery and Petrochemical temporary port operation, handling oversize overweight.
- Total volume: 350,000 FT.



With a convenient location, scale, ability, management technology, port infrastructure, warehouse system, specialized transportation, PTSC Thanh Hoa is one of the leading company in the field of Port Operation and Logistics in Nghi Son economic zone, North Central economic region and surrounding areas. Currently, we are providing the logistics service chain to customers.

NGHI SON REFINERY AND PETROCHEMICAL ONSHORE LOGISTICS

(Construction phase)

- Duration: 2014 – 2018
- Client: Tatsumi Vietnam & Nippon Express
- SOW: Onshore logistics such as: custom clearance, cargo handling, trucking for Nghi Son Refinery and Petrochemical cargo project, import/export permit.
- Total value: 7,000 sets of document, 1.20M FT, 18,000 Teu.



OVERSIZE AND OVERWEIGHT CARGO HANDLING

- Duration: 2014 – 2015
- Client: SK E&C
- SOW: Handling, transportation, lifting, storing 5740 pipes (CWC – 24T – 12m pipes).
- Total volume: 5,470 pipes (CWC - 24 ton - 12m pipe)

CWC PIPE HANDLING

- Duration: 2014 – 2015
- Client: Hyundai Heavy Industry - HHI
- SOW: CWC Pipe load out/ lashing
- Total volume: 5740 pipes (CWC -24T - 12m pipes).





NGHI SON 1 THERMAL POWER PLANT

- Duration: 2011- 2012
- Client: Germadept
- SOW: Cargo handling
- Total volume: 35,000 FT.



NGHI SON 2 THERMAL POWER PLANT

- Duration: 2019 – 2020
- Client: Chosuk Construction Co., Ltd
- SOW: Pipe handling, transportation, storage
- Total volume: 2,000 FT.

HDPE PIPE HANDLING AND TRANSPORTATION

- Duration: 2019 – 2020
- Client: Toyo Construction Co., Ltd
- SOW: Handling and transportation HPDE pipe from PTSC Thanh Hoa Port to Nghi Son Refinery and Petrochemical.
- Total value: 110 pipes (length of 15m and diameter of 3m).



PTSC THANH HOA

FABRICATION ABILITY

P TSC Thanh Hoa owns a 15 hectare fabrication factory next to the seaport, with a manufacturing capacity of 1,200 tons/month and fully equipped with synchronous equipment and main products in the field of refining and petrochemicals, chemicals, energy, electricity, marine transport, seaport as follows:

- Steel structure, lifting equipment structure, hatch cover structure.
- Heat exchanger equipment such as Reheater, Economizer, Heat exchanger, Fired heater, Reformer.
- Under pressure tank equipment, Amonia low temperature tank.
- Beam, block-shaped structure with oversize and overweight mass.
- Pipe Spool Fabrication, thick walled steel pipe, stainless pipe, alloy...
- Module assembly complex

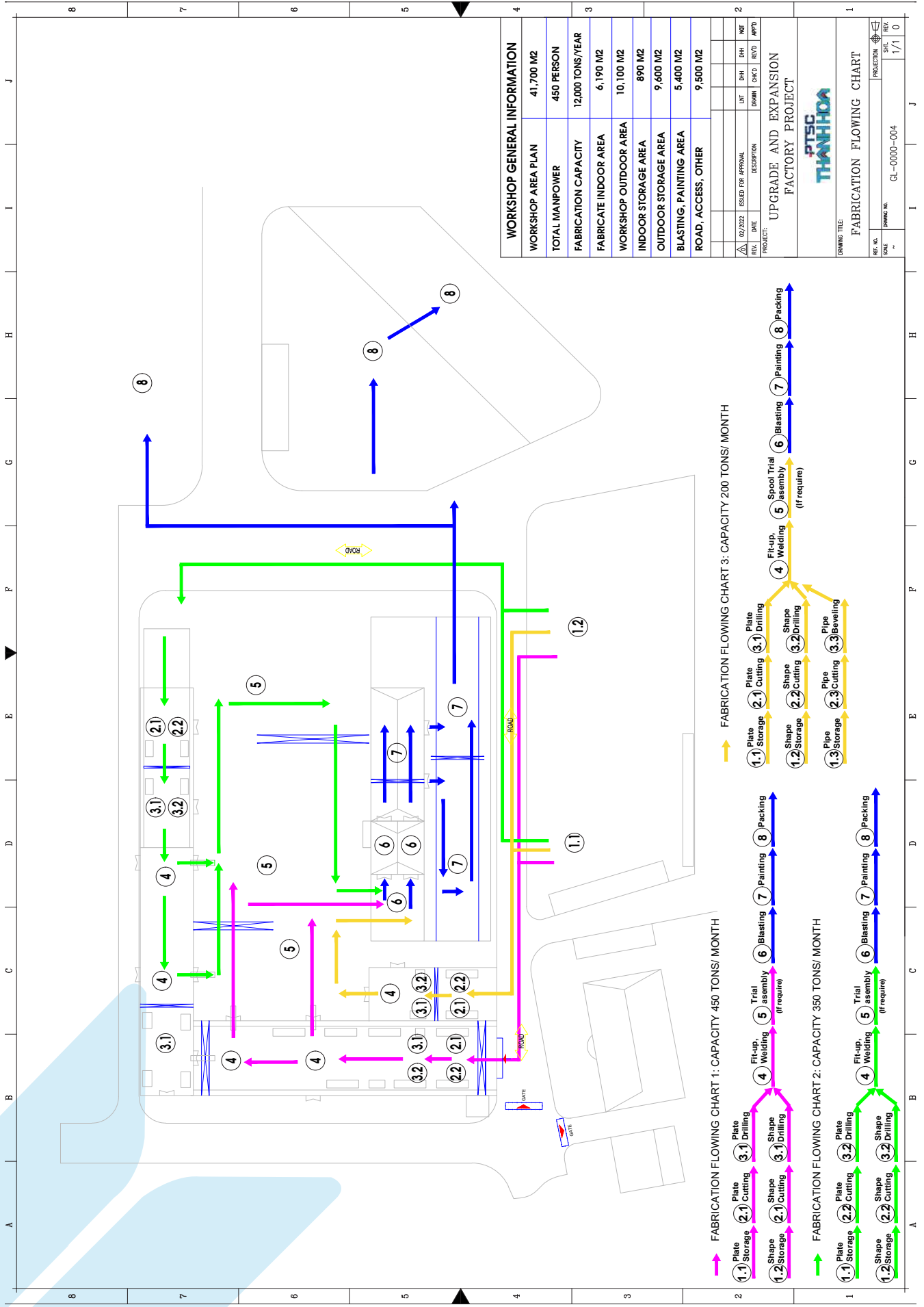
PTSC Thanh Hoa possesses highly qualified, well-experienced manpower resources and most of them have participated in many large – scale domestic and foreign projects:

- Project managers, design engineers, construction designers, supervisors, QA/QC engineers, HSE.
- Welders of all kinds of materials, blasters and painters are PTSC Thanh Hoa's outstanding advantages in term of quantity and quality.

02. ABILITY AND EXPERIENCE



FABRICATION PRODUCTION FLOW LAYOUT



WORKSHOP GENERAL INFORMATION			
WORKSHOP AREA PLAN	41,700 M2		
TOTAL MANPOWER	450 PERSON		
FABRICATION CAPACITY	12,000 TONS/YEAR		
FABRICATE INDOOR AREA	6,190 M2		
WORKSHOP OUTDOOR AREA	10,100 M2		
INDOOR STORAGE AREA	890 M2		
OUTDOOR STORAGE AREA	9,600 M2		
BLASTING, PAINTING AREA	5,400 M2		
ROAD, ACCESS, OTHER	9,500 M2		

REV.	DATE	DESCRIPTION	UNIT	DHW	MDT
1	02/2022	ISSUED FOR APPROVAL			

REV.	DATE	DESCRIPTION	UNIT	DHW	MDT
1	02/2022	ISSUED FOR APPROVAL			

PROJECT: UPGRADE AND EXPANSION
FACTORY PROJECT

DRAWING TITLE:			
FABRICATION FLOWING CHART			

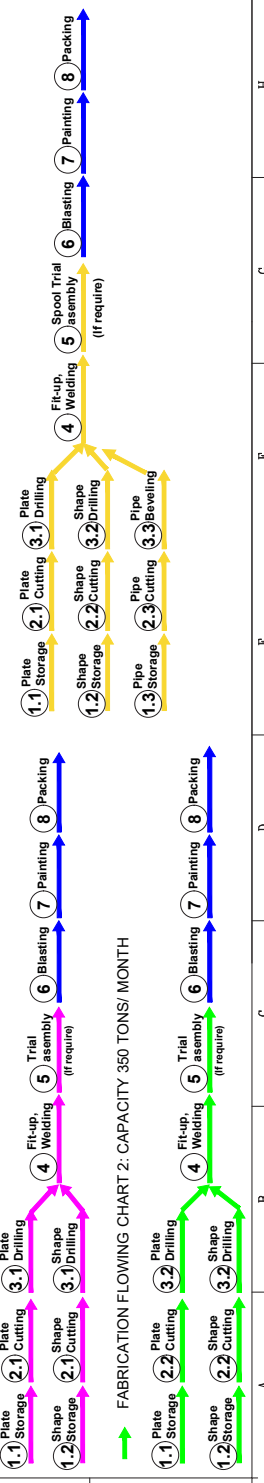
REV. NO.	DATE	DESCRIPTION	UNIT	DHW	MDT
1	02/2022	ISSUED FOR APPROVAL			

PROJECT: UPGRADE AND EXPANSION
FACTORY PROJECT

FABRICATION FLOWING CHART 3: CAPACITY 200 TONS/ MONTH

FABRICATION FLOWING CHART 1: CAPACITY 450 TONS/ MONTH

FABRICATION FLOWING CHART 2: CAPACITY 350 TONS/ MONTH





FABRICATION ABILITY



FABRICATION ABILITY



02. ABILITY AND EXPERIENCE



FABRICATION ABILITY



Kiln Inlet Seal Fabrication

- Duration: Feb-Mar 2022
- Client: Thyssen-Krupp
- SOW: Manufacturing Kiln Inlet Seal
- Total volume: 9,445 kg.



Fabrication & Export of structure for solar project in Taiwan

- Duration: Jan-May 2020
- Client: Zilei International Engineering Consultant Co., Ltd
- SOW: Fabrication of Structure
- Total volume: 4023 tons.

Nam Song Hau Petroleum Project

- Duration: June/2021 – Mar/2022
- Client: Nam Song Hau Petroleum Investment Trading Joint Stock Company
- SOW: Fabrication and installation of near-shore pipeline system from pontoon terminal to jetty
- Total volume: 3 pipes x 12" pipes x 800m.



02. ABILITY AND EXPERIENCE



Pipe Spool Fabrication – Nghi Son Refinery and Petrochemical Project



Hopper Fabrication – Long Phu Thermal Power Plant



Fabrication and construction of tanks and pipes for Nghi Son 2 Thermal Power Plant



IBC Tank Fabrication Project



SMP9 package – Nghi Son Refinery and Petrochemical Project



EPC Fuel Depot Project - Topsolvents Client at Dinh Vu Industrial Park, Hai Phong

INSTALLATION ABILITY

PTSC Thanh Hoa is a company with strong ability and experience in the field of installation with an average annual revenue of over 250 billion VND in term of installation of factories, projects of Refining and Petrochemicals, chemicals, and storage of gasoline, power energy with the following main installed equipment:

1. Steel structure, lifting equipment structure, hatch cover structure.
2. Heat exchangers such as Reheater, Economizer, Heat exchanger, Fired Heater, Reformer.
3. Containers such as tanks.
4. Technological equipment such as pipes, valves... rotating equipment such as turbines, air compressors, pumps, fans of all kinds.
5. Equipment for non corrosive metals, insulation, re-factory and casting.
6. Module assembly complex, installation of oversize and overweight equipment.
7. Power station equipment, electrodynamic, C&I equipment.

PTSC Thanh Hoa possesses highly qualified, well-experienced manpower resources and most of them have participated in many large – scale domestic and foreign projects:

1. Project managers, design engineers, construction designers, supervisors, QA/QC Engineers, HSE.
2. Welder, rigger, rotating equipment and alignment craftsman, scaffolder, pipe spool craftsman, refractory & casting worker, insulation craftsman, electrical Craftsman...

PTSC Thanh Hoa owns and co-owns synchronously lifting and transporting equipment for installation such as crawler cranes with lifting capacity of 650 tons, 250 tons, 100 tons, wheel cranes with lifting capacity of 120 tons, 50 tons, 30 tons, fooc trucks trailer, forklifts with capacity of 12 tons, 10 tons, 5 tons ... synchronously equipped with tools such as chain block, hydraulic jacks, bolt tightening machines, hydro pressure testing equipment, scaffolding...



Nghi Son Refinery and Petrochemical Project

- Duration: Sep 2014 – Sep 2016
- Client: JGCS Consortium
- SOW: Construction, Fabrication & Installation of Underground Piping System.
- Total volume: 150,000 ID (Including 100,000 ID GRP/GRE pipe, 38,000 ID CS pipe, 12,000 ID COC/AOC line, Hydro testing 780.000 IN-M).



Long Phu I Thermal Power Plant Project

- Duration: Aug 2017 – Apr 2019
- Client: PetroVietnam (PVN)
- SOW: Construction and Installation of Electrostatic System (ESP), Flue Gas Desulfurization (FGD).
- Total Volume: 5,600 tons.

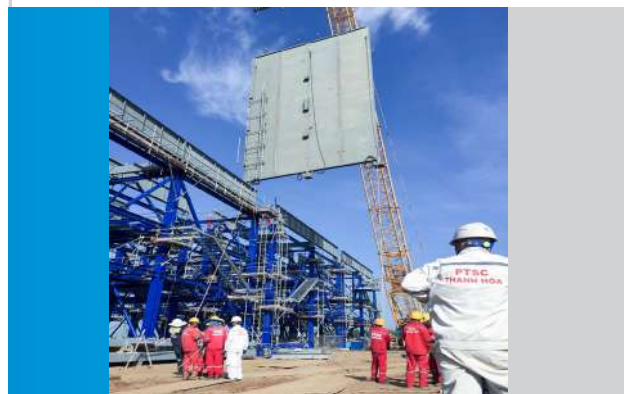
Long Son Petrochemical Complex Project

- Duration: Jul 2020 – Apr 2022
- Client: TPSK Consortium – A1 Package
- SOW: EPC, Structure & Piping (including: fabrication, painting, installation & erection, calibration, hydraulic testing, Pre-commissioning...).
- Total Volume: 3,000 tons of Mechanical; 145,000 ID of Piping Fabrication.



EPC Fuel Depot at Dinh Vu Industrial Park, Hai Phong

- Duration: Jan 2018 – Nov 2018
- Client: Top Solvent (Vietnam), Thai Oil Group
- SOW: EPC (including chemical tanks, office buildings, warehouses, electrical systems, pipeline systems leading to the Pier, important equipment...).
- Total volume: 26,000 tons/year.



INSTALLATION ABILITY



Nghi Son Iron & Steel Plant Modification Project

- Duration: Jan 2019 – Dec 2019
- Client: Viet Nhat Gas JSC
- SOW: Installing gas tanks, vaporizers, welding oxygen & argon systems, cleaning pipelines with chemicals.



Anh Phat Storage Tank Building

- Duration: Jan 2019 – Dec 2019
- Client: Anh Phat Corporation
- SOW: Construction of 04 tanks containing petrochemical products
- Total volume: 54,000m³ (18,000m³/ tank).

EPC Vopak Galaxy Expansion Phase III Project

- Duration: Jan 2019 – Jan 2020
- Client: Vopak (Vietnam) Co., Ltd - Vopak Group
- SOW: The EPC facility for the existing plant extension includes 11 chemical/solvent tanks
- Total volume: 20,000 m³.



EPC Go Dau Terminal Extension Project

- Duration: Apr 2018 – Dec 2018
- Client: Top Solvent (Vietnam), Thai Oil Group
- SOW: EPC works to expand the tank
- Total volume: 03 solvent tanks 3 x 2,000m³.





Sao Vang Dai Nguyet Project

- Duration: Apr 2019 – Sep 2019
- Client: PTSC M&C
- SOW: Manufacturing Stair Pillars, WHRU Exhaust Bearings and GTC Exhaust Bearings for Sao Vang Dai Nguyet Project
- Total volume: 205 tons.

Vessel Traffic Services (VTS) Project

- Duration: Sep 2019 – Nov 2019
- Client: Tan Hong Minh Phat Company
- SOW: Procurement and installation for Vessel Traffic Services Radar (VTS), including (structural installation, electrical systems, equipment, software, electrical & paint systems).



Anh Phat Warehouse Building

- Duration: May 2017 – Oct 2017
- Client: Anh Phat Corporation
- SOW: Procurement, construction for 04 warehouses
- Total volume: 700 tons (03 40mx80m warehouse & 01 40mx64m warehouse).

Sao Do Warehouse Project

- Duration: Feb 2020 – Mar 2020
- Client: Sao Do Group
- SOW: Fabrication and installation for 02 warehouses.



OPERATION & MAINTENANCE ABILITY

P TSC Thanh Hoa is known as a strong unit in the field of O&M (Operation and Maintenance) on shore and off shore. In the field of onshore maintenance and overhaul, there is ability of regular, periodic and irregular maintenance and overhaul of rotating equipment such as steam turbines, gas turbines, air compressors, high pressure pumps, etc., static equipment such as heat exchanger, pipes, valves for petrochemical, chemical, fertilizer and thermal power plants...

In the field of offshore maintenance and overhaul, PTSC Thanh Hoa has participated in the overhaul and maintenance of Single Point Mooring (SPM), navigation aids, fender, wharf, diving service and oil spill response service...

PTSC Thanh Hoa owns a team of deeply professional managers, skilled workers who have been improved through projects requiring professionalism and high technique such as overhaul and maintenance for refinery and petrochemical projects, chemical plants.

Besides that, PTSC Thanh Hoa possesses modern and synchronous equipment for overhaul and maintenance services such as shaft alignment equipment, safety valve testing equipment, machines such as valve scanners up to 24 inches, flange management, cleaning high pressure water jetting, precision machining...





Operation Support – Nghi Son Refinery and Petrochemical

- Duration: Apr 2017 – Dec 2019
- Client: Nghi Son Refinery and Petrochemical
- SOW: Manpower and equipment supply to support the operation of Nghi Son Refinery and Petrochemical for the 3 years contract period.



Daily Maintenance Service – Nghi Son Refinery and Petrochemical

- Duration: 2018 – At present
- Client: PEC Ltd
- SOW: Supply 85 manpower (Rotating x 09p, Electrical x 16p, Instrument x 3p, Analytical x 1p, Mechanical x 7p, Craft man x 48p).

Turn around 3 – Dung Quat Refinery

- Duration: Jun 2017 – July 2017
- Client: JGCS Consortium
- SOW: Tanks Maintenance, PSV Valve Maintenance, Manual Valve Maintenance, MOC (Man – age of Change).



By the achieved successes, PTSC Thanh Hoa is going to continue to make-up & improve human resources, invest infrastructure, factory, automate machinery and equipment in order to increase labor productivity and competitive advantage in the process of participating in the bidding competition as well as implementing the project with the aim of increasing the efficiency for the contractor and customers, partners as well, PTSC Thanh Hoa strives to become the leading EPC/EPCI/EPCC contractor in the region.

Turn around 1 – Amon Nitrat Thai Binh Factory

- Duration: Oct – Nov 2022
- Client: Amon Nitrat Thai Binh Factory
- SOW: Maintenance of mechanical items, hand valves, safety valves.



Overhaul and maintenance of steam turbine generator – Nghi Son Refinery and Petrochemical

- Duration: Aug – Nov 2018
- Client: Nghi Son Refinery and Petrochemical
- SOW: Overhaul and maintenance of steam turbine generator I.

Overhaul and maintenance of rotating equipment (turbines) – Nghi Son Refinery and

- Duration: 2019
- Client: Nghi Son Refinery and Petrochemical
- SOW: Turbines maintenance.





Overhaul and maintenance of rotating equipment (turbines)

- Duration: 07/2020
- Client: Top Solvent (Vietnam) KSB
- SOW: Turbines maintenance.



Overhaul and maintenance of rotating equipment (Compressor)

- Duration: 2019
- Client: Nghi Son Refinery and Petrochemical
- SOW: Compressor overhaul and maintenance.

Rotating equipment overhaul and maintenance (Valve)

- Duration: 2019
- Client: PEC Ltd
- SOW: Providing valve transportation and valve repair services for DCSM packages 4- Sections 3,4,5 & 6
- Total volume: 120 valves.





PTSC THANH HOA



MARITIME VESSELS SERVICES

Having started since 2016, Maritime Vessel Service is one of the strategic services of PTSC Thanh Hoa. Along with a fleet of modern new-build vessel with high-standard engines and equipment, imported from the EU, US and G7, PTSC Thanh Hoa has been performing operation and supply services for tugboats, specialized vessels for Nghi Son Refinery and Petrochemical and Nghi Son area safely and effectively.

Currently, PTSC Thanh Hoa is providing and developing vessel services including: Tugboats; Diving support vessels; Vessels carrying people; Other specialized vessels, floating equipment offshore... In 2020, vessel services of PTSC Thanh Hoa Company was honored to be selected as one of the 10 typical products and goods of Thanh Hoa province.

Always focusing on manpower training and development, building a system of processes and working standards, PTSC Thanh Hoa strongly believes that it is possible to create a reputation for quality and affirm the brand for the service of providing tugboats, specialized vessels, effectively supporting for the projects and seaports in the region.

02. ABILITY AND EXPERIENCE



PTSC 05

HARBOR TUGBOAT

Main engine: 2x1600 BHP; RPM 1800
Propulsion type: Fixed pitch propeller



PTSC 06

HARBOR TUGBOAT

Main engine: 2x1600 BHP; RPM 1800
Propulsion type: Fixed pitch propeller



PTSC 07

BIG LINE HANDLING VESSEL

Main engine: 2x800 BHP; RPM 1800
Propulsion type: Fixed pitch propeller



PTSC 08

SMALL LINE HANDLING VESSEL

Main engine: 2x350 BHP; RPM 1800
Propulsion type: Fixed pitch propeller



PTSC 09

SPM TUGBOAT

Main engine: 2x2500 BHP; RPM 1900
Propulsion type: Fixed pitch propeller



PTSC 10

GUARD VESSEL

Main engine: 2x1350 BHP; RPM 1900
Propulsion type: Fixed pitch propeller



PTSC 11

LINE AND HOSE HANDLING VESSEL

Main engine: 2x800 BHP; RPM 1800
Propulsion type: 360 degrees Azimuthing fixed pitch steerable thruster in nozzle



PTSC 12

SPM SPEED TRANSPORT BOAT

Main engine: 2x715 BHP; RPM 2100
Propulsion type: Water jet (2 x Hamilton HJ403)

HUMAN RESOURCES

There are more than 1,500 highly qualified and well-experienced employees with a proper structure for the synchronous implementation of the Company's four core services (Port Operation and Logistics; Vessels services; Manufacturing and Fabrication; Operation and Maintenance (O&M)).

Employees in the field of fabrication and installation have participated in manufacturing tanks, pipes, equipment, steel structures in large numbers for Nghi Son Refinery & Petro Chemical, Long Son Petro Chemical, EPC of Vopak project in Dong Nai, EPC of Thai-oil projects in Hai Phong and Dong Nai, Long Phu Thermal Power, Nghi Son 1 & 2 Thermal Power... with fabrication volume: over 500,000 ID technology pipes spool, over 10,000 tons of equipment, steel structures, participating in the installation of over 500,000 ID technology pipes (U/G pipes, A/G pipes, SUS pipes, alloy pipes...) and over 25,000 tons of equipment and steel structures...

Employees in the field of port operation and logistics are qualified, dynamic, with the dedicated attitude, always providing good quality and high-productivity services at the most reasonable prices. With the capacity of loading and unloading 15 million tons/year, including oversize and overweight large equipment of Nghi Son Refinery & Petrochemical, Nghi Son Thermal Power Plant 1 & 2.

Employees in the field of vessel service, tugboat service implement towage of vessel at onshore ports as well as SPM, especially VLCC of 300,000 tons carrying crude oil for Nghi Son Refinery and Petrochemical.

Employees in the field of Operation and Maintenance Service have participated in the large scale projects successfully in term of overhaul and maintenance of rotating equipment, static equipment, tank equipment, heat exchangers, pipes and valves technology on a large scale for the turns around of Binh Son Refinery, Nghi Son Refinery and Petrochemical, ANP Thai Binh Factory, Petrol and oil storage stations, participate in periodic, regular repair and unexpected maintenance for Refineries & petrochemical plants, thermal power plants, fertilizers, chemicals...

Employees are always dedicated – professional - creative - cooperative - responsible – effective, working in an environment and progressive management thought, being trusted by Customers which will continue bringing great values to customers at present and in the future.

NO.	DESCRIPTION	QUANTITY	AVERAGE AGE
A	GENERAL MANAGEMENT	78	45
1	Executive Board (BOD & BOM)	4	
2	Marketing, Bidding	10	
3	Commercial & Procurement.	10	
4	Engineering	8	
5	Project Management	6	
6	Machine & material management	7	
7	Safety Management	5	
8	Quality Management	5	
9	Financial Management	5	
10	Personnel management, training	10	
11	Production Scheduling	8	
B	PRODUCTION UNIT	1430	35
I	Processing & Fabrication	292	35
1	BOM	40	
1,1	Operation	2	
1,2	Technical, progress supervisor	16	
1,3	Quality control	8	
1,4	Safety	3	
1,5	Personnel & training management	6	
1,6	Machine & Material management	5	
2	Direct production	252	
2,1	Machinist and Fabricator	60	
2,2	Welder 6G, 3G	60	
2,3	Rigger	16	
2,4	Fit-up and assembler	30	
2,5	Blasting labor	14	
2,6	Painter	12	
2,7	Operator, electrician	20	
2,8	Other labor	40	
II	Installation division	660	35
1	BOM	95	
1,1	Operation	5	
1,2	Technical, progress supervisor	35	
1,3	Quality management	20	
1,4	Safety	10	
1,5	Personnel & training human resource	15	
1,6	Machine & Material control	10	
2	Direct labor	565	
2,1	Welder 6G, 3G	110	

03. ABOUT RESOURCES

NO.	DESCRIPTION	QUANTITY	AVERAGE AGE
2,2	Rigger	40	
2,3	Fitter & assembler	140	
2,4	Pipe spool craftsman, Insulation labor	50	
2,5	Insulation craftsman	25	
2,6	Furnace builder Refractory & casting worker	20	
2,7	Rotating Craftsman	20	
2,8	Scaffolder	40	
2,9	Rust remove operator, blasting labor	20	
2,10	Painter	30	
2,11	Operator, Electrical Craftsman	30	
2,12	Other labor	40	
III	O&M Service	315	38
1	BOM	55	
1,1	Operation	2	
1,2	Technical, progress supervisor	25	
1,3	Quality control (Q/C)	10	
1,4	Safety	6	
1,5	Personnel & training management	6	
1,6	Machine & material control	6	
2	Direct labor	260	
2,1	Welder 6G, 3G	20	
2,2	Rigger	10	
2,3	Fitter & assembler	20	
2,4	Pipe spool craftsman, Insulation labor	40	
2,5	Insulation craftsman	20	
2,6	Refractory & casting worker	10	
2,7	Rotating equipment and alignment craftsman	20	
2,8	Scaffolder	40	
2,9	Operator	20	
2,10	Electrical Craftsman	20	
2,11	Other labor	40	
IV	Port Operation, Vessel and Logistics	163	36
1	BOM	27	
1,1	Operation	2	
1,2	Planning and Scheduling	4	
1,3	Logistics	6	
1,4	Safety, Security	6	
1,5	Personnel & training management	4	
1,6	Machine & material control	5	

NO.	DESCRIPTION	QUANTITY	AVERAGE AGE
2	Direct production	136	
2,1	Rigger	6	
2,2	Port operation	100	
2,3	Operator	30	
TOTAL		1508	







MACHINERY – EQUIPMENT

PTSC THANH HOA owns abundant resources of machinery and equipment of all kinds in the field of port operation as well as steel structure fabrication, ensuring high technology and safety in fabrication of steel structure for large projects such as thermal power plants, hydroelectric power plants, cement plants, steel plants, oil refineries. In addition, there are measuring equipment, ultrasonic machines with high accuracy, machinery systems with modern advanced technology lines to improve the factory's productivity in the field of fabrication and manufacturing for customers in domestic and foreign.



AHC 1000 Crane 40



Forklift



CNC Plasma cutting Machine



CNC Plasma cutting Machine



Hydraulic Guillotine Shearing Machine



3D Drilling Machine



CNC 3 Axis Drilling Machine



Automatic Drilling Machine



Beam Drill Line



Steel plate form rolling bending Machine



Build – up Beam Machine

03. ABOUT RESOURCES



Beam combiner machine



Automatic beam welding machine



Shape steel bending Machine



CNC Diamond Sawing Machine



CNC plate punching Machine



Tyre Mobile crane 80 tons



Beam straightening Machine



Crawler crane 100 tons



Gantry crane 35 tons



Semi-automatic blasting shop



Coil corrugated iron discharge line



NO.	EQUIPMENT NAME	SPECIFICATION	QUANTITY	UNIT
A	FABRICATION EQUIPMENT			
I	Machine tool			
1	CNC Plate cutting machine (Plasma & oxy gas)	Plasma cutting machine/ Model BHC - 400	1	Machine
2	Cutting machine CNC	(3x15)m, 3 oxy, 1 plasma	1	Machine
3	Laser cutting machine CNC	2m-6m	1	Machine
4	Semi-automatic beam Assembly	Semi-automatic beam Assembly H, Model BZJ – 2000 Plus, brand BRUCO.	1	Machine
5	Beam Flange Straightening Machine	Two Welding Heads H Beam MODEL GBH4000- (TP1), brand BRUCO.	1	Machine
6	Plate drilling machine CNC	DMD 2 /0620mx6m	3	Machine
7	H beam drilling machine CNC		2	Machine
8	V Steel punching machine		2	Machine
9	Horizontal bandsaw	Horizontal bandsaw max 800x1200	3	Machine
10	Bar sawing machine	Bar sawing machine max 800x1200	2	Machine
11	Arm- Drilling Machine	(1 x1,5) m	1	Machine
12	CNC punching machine	1000x1500, max 50mm	2	Machine
13	H beam sawing machine		2	Machine
14	Pipe bending machine	Bendning Diameter max 168mm	1	Machine
15	3 Rolls Rolling Machine		1	Machine
16	4 Rolls Rolling Machine	Width 3m, thickness 50mm(CNC)	1	Machine
17	Semi-auto bevelling machine		2	Machine
18	Welding machine 6-3 touch	6x400A (DC)	40	Machine
19	Welding machine JASIG MIG 500	MIG 500DC	20	Machine
20	Welding machine ARC 630	ARC 630DC	10	Machine
21	Welding machine TIG 400	TIG 400DC	20	Machine
22	Welding machine TIG 200	TIG 200DC	20	Machine

NO.	EQUIPMENT NAME	SPECIFICATION	QUANTITY	UNIT
23	Cutting machine 350	Cutting Diameter 350mm	1	Machine
24	Universal lathe machine		1	Machine
25	Flange facing machine		1	Machine
26	Hydraulic bending machine 6mm		1	Machine
27	Column Drilling machine		1	Machine
28	Plate hole punching machine		3	Machine
29	Grinding machine	Diameter max 180	4	Cái
30	Air compressor	600 cfm, 13 bar, screw	1	Machine
31	Blasting room	(10x20) m / Capacity 750 m2/ per day	1	HT
32	Semi-automation blasting	Capacity 250 m2/ per day	1	Machine
33	Spray painting system		10	Machine
II	Rotary drilling equipment			
1	Overhead crane 20mx5 T	(20x7) m, Overhead crane, 5 T	1	Machine
2	Overhead crane 24mx5 T	(24x9)m, Overhead crane, 5 T	1	Machine
3	Overhead crane 24mx10 T	(24x9)m, Overhead crane, 10 T	1	Machine
4	Gantry crane 30mx20 T	(30x9)m, Overhead crane, 20 T	1	Machine
5	Gantry crane 42mx30 T	(42x9)m, Overhead crane, 30 T	1	Machine
6	Overhead crane 18mx5 T	(18x7)m, Overhead crane, 5 T	1	Machine
7	Overhead crane 20mx5 T	(20x7) m, Overhead crane, 5 T	1	Machine
8	Overhead crane 20mx5 T	Overhead crane	1	Machine
9	Gantry crane 20mx5 T	Overhead crane	1	Machine
10	Overhead crane 24mx20 T	Overhead crane	1	Machine
11	Crawler crane 50T	653R, 50T, mobile Crane 30,4m, capacity 129KW CAT	1	Machine
12	Tyre-Mobile crane %50	653M, 50T, mobile 30m, Capacity 129KW CAT	2	Machine
13	Forklift 3T	Lifting Height 3T	3	Machine
14	Forklift 5T	Lifting Height 5 T	2	Machine
15	Forklift 15T	Lifting Height 15 T	1	Machine
16	Manual Forklift 2,5T	Lifting Height 2,5T (Hydraulic)	10	Machine
17	Boom truck 15T	Safety Work Load 15T	3	Machine
18	Hand tool	Chain Block, Level Block, Jack, shackle, beam clamp, lifting bar...	1	HT
19	Scaffolding & Safety equipment	Scaffolding & PPE equipment...	1	HT

NO.	EQUIPMENT NAME	SPECIFICATION	QUANTITY	UNIT
III	Auxiliary System			
1	Welder training room	Training, qualified 70 welder/ per month.	1	Center
2	Welding storage	Welding Storage KCT 88 m2	1	
3	ASME welding room	Welding Storage KCT 35 m2	1	
4	Air liquid tank station	Storage KCT 16 m2	1	HT
5	Pipe fitting storage	Storage KCT 369 m2	1	
6	Painting material storage	Painting Storage KCT 300 m2	1	
7	Carpentry workshop	Storage KCT 400 m2	1	
B	INSTALLATION EQUIPMENT			
1	Crawler crane 650T	Model D-Mag 650 T	1	Machine
2	Crawler crane 250T (Kobelco)	Model Kobelco -2500	1	Machine
3	Crawler crane 150T (Kobelco)	Model Kobelco -1500	2	Machine
4	Crawler crane 100T (Kobelco).	Model Kobelco - 1000	2	Machine
5	Mobile crane 80T Kato/ Tadano 80 T	Model Kato/ Tadano 800E	1	Machine
6	Mobile crane 50T Kato/ Tadano 50 T	Model Kato/ Tadano 500E	3	Machine
7	Mobile crane 30T Kato/ Tadano 30 T	Model Kato/ Tadano 300E	4	Machine
8	Tower crane 25T	Pmax = 25 T, P min = 1,5 T	2	Machine
9	Trailer, tractor trailer truck 40T	Model Huyndai	4	Machine
10	Box truck 25-30T	Model Huyndai	6	Machine
11	Boom truck 15T	Model Soosan.	3	Machine
12	Boom truck 10T	Model Soosan.	2	Machine
13	Boom truck 7T	Model Soosan.	5	Machine
14	Boom truck 5-3T	Model Soosan.	5	Machine
15	Forklift 10T		2	Machine
16	Forklift 7T		3	Machine
17	Forklift 5-3T		3	Machine
18	Electric Chain Hoists 10T		1	Machine
19	Electric Chain Hoists 5T		2	Machine
20	Electric Chain Hoists 3T		2	Machine
21	Generator 150-120 KW		2	Machine
22	Hydraulic Torch Wrench Machine		12	Machine
23	Welding machine 4-6 touch	Welding machine 4 Arctronic 426 Capacity 400-5A/1 m	5	Machine

03. ABOUT RESOURCES

NO.	EQUIPMENT NAME	SPECIFICATION	QUANTITY	UNIT
24	Welding machine GTAW/SMAW 400A	Welding machine Invertec 400TPX Capacity: welding current 400-5A, welding voltage -380 400V, Voltage 65V.	12	Machine
25	Welding machine FCAW Mig500	Welding machine Jasic Mig500, J8110	25	Machine
26	Welding machine GTAW/ SMAW 400A	Welding machine Jasic tig 400A, J98	60	Machine
27	Welding machine GTAW/SMAW 200A	Welding machine Jasic tig 200A, R18	70	Machine
28	Automatic welding machine for tank erection.		2	Machine
29	Hydraulic Jack for tank erection	Hydraulic jack model 251035D-S-L	42	Machine
30	SE-677-BMC Jet cleaning machine	Jet cleaning machine bristle blaster se-677-bmc	1	Machine
31	Magetic drill	Magetic drill Unibor EQ100	10	Machine
32	KSCD PW6 boring machine	Boring machine KSCD PW6 Maximum Diameter: 150 – 25mm Speed: 820 round/minute Size: 380x210x845mm	2	Machine
33	Compact Core Drill machine GCD-120	Compact Core Drill machine GCD-120 Maximum Capacity: 15-120mm	2	Machine
34	Hammer Drilling machine Pin Bosh GBH 36V LI Plus	Hammer Drilling machine Pin Bosh GBH 36V LI Plus	2	Machine
35	BOSH Hammer Drilling machine GBH8-45DV - 06112650K0	Hammer Drilling machine Bosch GBH45-8DV - 06112650K.	4	Machine
36	Thread Cutting Machine ren Asada Bearver 100	Thread Cutting Machine ren Asada Bearver 100	4	Machine
37	Welding rod oven machine 500kg	Welding rod oven machine YCH-500 Temperature: 50-400°C Weight: 500kg Length: 450mm	2	Machine
38	Welding rod oven machine 200kg	Welding rod oven machine RCH-200 Temperature: 50-400°C Weight: 200kg Length: 450mm	4	Machine
39	welding rod oven machine 100 kg	Welding rod oven machine YCH-100 Temperature: 50-400°C Weight: 100kg Length: 450mm	6	Machine
40	Portable dry welding rod 5 kg	Portable dry welding rod 5 kg	200	Machine
41	Chart recoder 500 psi	Pressure Chart recorder 358 USA Capacity: 0-500 Psi và 0-50°C	5	Machine
42	Chart recoder 1000 psi	Pressure Chart recorder 358 USA Capacity: 0-1000 Psi và 0-50°C	5	Machine
43	Levelling machine	Levelling machine Pentax AP-241	6	Machine
44	Theodolite	Theodolite topcon ES-105	4	Machine
45	Laser Bosh GRL 300HVG	Laser Bosch GRL300HVG	2	Machine
46	Hydraulic Torch Wrench – Square Drive, 15000 ft-lbs) TS10	(Hydraulic Torch Wrench - Square Drive, 15000 ft-lbs) TS10	2	Machine
47	Hydraulic Torch Wrench – Square Drive, 15000 ft-lbs) TS3	Hydraulic Torch Wrench - Square Drive, 10000 ft-lbs) TS3	2	Machine
48	Bolt tightening machine ETW50	Bolt tightening machine ETW50	6	Machine

NO.	EQUIPMENT NAME	SPECIFICATION	QUANTITY	UNIT
49	Bolt tightening machine T1000 N.m	Bolt tightening machine T1000 N.m	5	Machine
50	Torque Wrench 350 N.m	Torque Wrench 350 N.m	7	Machine
51	Torque Wrench 600N.m	Torque Wrench 600N.m	2	Machine
52	Torque Wrench 1000 N.m	Torque Wrench 1000 N.m	4	Machine
53	Torque Wrench 1500 N.m	Torque Wrench 1500 N.m	2	Machine
54	Liquid ring vacuum pump 11 KW. Motor 3 phase, 380V, 50Hz, (60 M3/H)	Liquid ring vacuum pump 11 KW. Motor 3 phase, 380V, 50 Hz (60 M3/H)	2	Machine
55	High pressure pump (0-500bar), 3 phase power	High pressure pump (500-0bar), Motor 3 phase	1	Machine
56	High pressure pump (0-300bar), 3 phase power	High pressure pump (300-0bar), Motor 3 phase	3	Machine
57	High pressure pump(0-100bar), 3 phase power	High pressure pump (100-0bar), Motor 3 phase	5	Machine
58	Air compressor VA100	Air compressor VA100	2	Machine
59	Air compressor FUSHENG TA80-	Air compressor FUSHENG TA80-	2	Machine
60	Ventilating fan D400	Ventilating fan D400	5	Machine
61	Electrical enclosure	Electrical enclosure	200	Set
62	Chain block 1,5T – 25T	Chain block 1,5T – 25T	400	Set
63	Vertical Hydraulic jacks 30150) 30T, 150mm)	Vertical Hydraulic jacks 30150) 30T, 150mm)	10	Set
64	Vertical Hydraulic jacks 30100) 30T, 100mm)	Vertical Hydraulic jacks 30100) 30T, 100mm)	20	Set
65	Flat Hydraulic jacks 30B (30T)	Flat Hydraulic jacks 30B (30T)	20	Set
66	Vertical Hydraulic jacks 50B (50T)	Vertical Hydraulic jacks 50B (50T)	20	Set
67	Hydraulic jacks FCY20150) 20T, 150mm)	Hydraulic jacks FCY20) 20150T, 150mm)	20	Set
68	Hydraulic jacks 20T	Hydraulic jacks 20T	20	Set
69	Thermometer Gun AT550	Thermometer Gun AT550	4	Machine
C	OPERATION AND MAINTENANCE EQUIPMENT (O&M)			
I	E&I Instrument			
1	Shaft galvanize make-up liner 60Amp	Techno Plate 230/115-20-60	1	Machine
2	Field Communication device	AMS Trex	1	Set
3	Calibration Instruments & Automation	ASC 400	1	Set
4	Resistance measure	Model 3124A	1	Set
5	Milli-ohm Meter	Model 380580	1	Set
6	Contact circuit breaker resistance measure	Scope CMR 100 B+	1	Set

NO.	EQUIPMENT NAME	SPECIFICATION	QUANTITY	UNIT
7	(Ir, Isd, Ig)Curve protection for circuit beaker.	Tool test OCR ACB Schneider	1	Set
8	Easy Lazer Alignment	SKF	1	Set
9	Temperature Calibrator	Fluke 9142	1	Set
10	Hand held thermometer	Fluke 1524	1	Set
11	Pressure Calibrator	DPI 620	1	Set
12	Clamp Meter	Fluke 376	1	Set
13	Megaohm meter	Fluke 1507	1	Set
14	Flame tester	TL 105 - MSA	1	Set
15	Winding machine	Model HA-DC8500	1	Set
16	Dry Circulation System	Model MD24	1	Set
17	Vibration Meter	Rion VM82-A Manufacture Firm: RION Model: VM82-A	1	Machine
18	Vibration Meter GM63A	GM63	1	Machine
19	3 Phase Transformer	In put 380v: output 200v	1	Machine
20	Hydraulic Electrical Plier		1	Machine
21	Electrical Bag		2	Set
22	Hand Pump		1	Machine
23	Ball- bearing Preheat machine Bi BETEX 22		1	Machine
24	Ball- bearing Preheat machine Bi BETEX 22		1	Machine
25	Laser Thermometer Gun SMARTSENSOR		2	Machine
26	Laser Thermometer Gun LAZERLINER		1	Machine
27	Exhaust fan		10	Machine
28	Force fan		8	Machine
29	Generator: 25kVA		1	Machine
30	Generator: 50kVA		2	Machine
II	Mechanical Instruments			
1	Valve ramming device (From DN 40 to DN 700).	Slim 150 & Slim 600	1	Set
2	Static and movement valve trial.	TSC -50S	1	Set
3	Special tool to remove facing machine		1	Set
4	Special tool to remove lath.		1	Set
5	Special tool to remove piston		1	Set

NO.	EQUIPMENT NAME	SPECIFICATION	QUANTITY	UNIT
6	Piston Ring Plier		1	Set
7	Bearing & shaft machine		1	Set
8	Balancing machine	Model PQH5000	1	Machine
9	Milling 254x1372mm	Model PF5S	1	Machine
10	Lathe 1905x762x1200	Model 1340A	1	Machine
11	Inside Micrometer 25-500mm		1	Machine
12	Inside Micrometer up to 1000mm		1	Set
13	Outside Micrometer 120-0mm		1	Set
14	Dial indicator 25mm, 50mm face dia		1	Set
15	Torque Wrench 350Nm		1	Set
16	Torque Wrench 700Nm		1	Set
17	Torque Wrench 1000Nm		1	Set
18	Hydrotest pump + Manifold 100bar		1	Set
19	Feeler gauge 0.01 to 1mm		1	Set
20	Torque Wrench 1500	Kingtoty	1	Set
21	Torque Wrench 1000		6	Set
22	Torque Wrench 800n	Kingtoty	1	Set
23	Torque Wrench 750NM		8	Set
24	Torque Wrench700NM		2	Set
25	Torque Wrench 550NM		3	Set
26	Torque Wrench300NM		2	Set
27	Torque Wrench 350NM		3	Set
28	Torque Wrench NM		5	Set
29	Torque Wrench 200NM		1	Set
30	Torque Wrench 110NM		3	Set
D	PORT OPERATION, LOGISTICS AND VESSEL EQUIPMENT			
1	Gantry Crane (Model AHC 1000)	Capacity 40T	1	Machine
2	Crawler crane (Model KOBELCO7055-)	Capacity 55T	1	Machine
3	Crawler crane (Model NIPPON SANYO DH 500-III)	Capacity 50T	1	Machine
4	Crawler crane (Model KOBELCO P&H550)	Capacity 50T	1	Machine
5	Crawler crane (Model HITACHI KH150-3)	Capacity 45T	1	Machine

NO.	EQUIPMENT NAME	SPECIFICATION		UNIT
6	Crawler crane (Model KOBELCO - CKS1350)	Capacity 135T	1	Machine
7	Crane Kobelco (170-150T) – Outsourcing	Capacity 150T	1	Machine
8	Crane Sumitomo (150T) - Outsourcing	Capacity 150T	1	Machine
9	Forklift: 5T (Model KOMAT'SU FD50AT-7)	Capacity 5T	1	Machine
10	Forklift: 5T (Model TCM FD50T9)	Capacity 5T	1	Machine
11	Forklift: 5T (Model KOMATSU FD70-5)	Capacity 7T	1	Machine
12	Forklift: 7T (Model TCM FD70Z8)	Capacity 7T	1	Machine
13	Forklift: 7T (Model HYSTER 25-12)	Capacity 25T	1	Machine
14	Forklift Yaly 3T	Capacity 3T	1	Machine
15	Forklift TCM 2,5T	Capacity 2.5T	1	Machine
16	Hydraulic Wheel Loader (Model LIUGONG ZL40B -1)	Capacity 3 m3	1	Machine
17	Hydraulic Wheel Loader ((Model LIUGONG ZL40B -2)	Capacity 3 m3	1	Machine
18	Hydraulic Wheel Loader 6T (Model XCMG LW600KN- 1)	dung tích gầu 5 m3	1	Machine
19	Hydraulic Wheel Loader 6T (Model XCMG LW600KN- 2)	dung tích gầu 5 m3	1	Machine
20	PTSC 05 (Harbor Tugboat)	Type: Towage in VR II Area Year of Manufacture: 2019 Capacity: 2x1600 BHP Bollard Pull: 35T	1	Vessel
21	PTSC 06 (Harbor Tugboat)	Type: Towage in VR II Area - Year of Manufacture: 2019 - Capacity: 2x1600 BHP - Bollard Pull: 35T	1	Vessel
22	PTSC 07 (Big Line Handling Vessel)	Type: Towage in VR II Area - Year of Manufacture: 2019 - Capacity: 2x800 BHP Bollard Pull: 15T	1	Vessel
23	PTSC 08 (Small Line Handling Vessel)	Type: Towage in VR II Area - Year of Manufacture: 2019 - Capacity: 2x350 BHP - Bollard Pull: 8T	1	Vessel
24	PTSC 09 (SPM Tugboat)	Type: Towage in VR II Area - Year of Manufacture: 2019 - Capacity: 2x2500 BHP Bollard Pull: 55T	1	Vessel
25	PTSC 10 (Guard Vessel)	Type: Towage in VR II Area - Year of Manufacture: 2019 - Capacity: 2x1350 BHP - Bollard Pull: 20T	1	Vessel
26	PPTSC 11 (Line and Hose Handling Vessel)	Type: Towage in VR II Area - Year of Manufacture: 2019 - Capacity: 2x800 BHP - Bollard Pull: 15T	1	Vessel
27	PTSC 12 (SPM Speed Transport Boat)	Type: speed transfer boat in VR II Area - Year of Manufacture: 2019 - Capacity: 2x715 BHP - Bollard Pull: 22 knots	1	Vessel



**PTSC
THANH HOA**
CUSTOMERS PARTNERS

INFORMATION

Customer information is the foundation of any business. It is the data that allows companies to understand their customers and their needs. This information is used to create personalized experiences and to improve the overall customer journey. In the digital age, customer information is more valuable than ever before. It allows companies to target their marketing efforts and to provide better service to their customers. However, it is also important to ensure that this information is protected and used responsibly. Companies should have clear policies and procedures in place to manage customer information and to ensure that it is only used for the purposes for which it was collected. This is not only good for the customer, but it is also good for the company. By using customer information responsibly, companies can build trust and loyalty with their customers, which is essential for long-term success.

<p>VIETNAM </p>	<p>VIETNAM </p>	<p>VIETNAM </p>	<p>SINGAPORE </p>
			
			
			<p>KOREA </p> 
			
			<p>NORWAY </p> 
		<p>JAPAN </p> 	<p>UNITED STATES OF AMERICA </p> 
			
			
			
			<p>NETHERLANDS </p> 
			
			<p>GERMANY </p> 
		<p>MALAYSIA </p> 	
			
 <p>Tatsumi Vietnam Co., Ltd</p>			

TITLES AND CERTIFICATES



TITLES AND CERTIFICATES



04. TITLES AND CERTIFICATES



PTSC THANH HOA WORKPLACE CULTURE



04. TITLES AND CERTIFICATES



PTSC Thanh Hoa is a subsidiary of PetroVietnam Technical Services Corporation (PTSC). Inheriting and developing the cultural values of PTSC, PTSC Thanh Hoa has built up the trust, pride in the tradition of "when you drink water, honor the source"; the cohesion, understanding and supporting between comrades/colleagues; responsible companionship, effective cooperation with Shareholders, Partners/Customers, Community and Nature. During the process of foundation and development, PTSC Thanh Hoa has also established and implemented the core values Standard & Quality, Profession & Initiative, Strategy & Commitment, Unity & Share.

Consequently, PTSC Thanh Hoa has won many titles, emulation and commendation of the Ministry, Central Branch, Thanh Hoa Province and Vietnam National Oil & Gas Group.

In addition, PTSC Thanh Hoa always strives to ensure employees have chance to work in the best environment, develop their talents, improve their knowledge, specialization, enhance material, cultural and spiritual life and increase benefits for members. Customer's satisfaction is the great encouragement for us to continue conquering new projects and new challenges.



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