

# **VIETNAM'S LEADING PORT & COASTAL CONSULTANT**







# BRIEF INTRODUCTION

**Portcoast has been the first-ranked consultant in design engineering, supervision consultancy and verification consultancy in waterways - port sector of Vietnam by the Vietnam Ministry of Transport (MOT) in five consecutive years (2012, 2013, 2014, 2015 and 2016)**

*(On 15/01/2018, the MOT stopped the performance appraisal and ranking for consultancy organizations and of construction contractor)*

Portcoast Consultant Corporation (Portcoast) has been being operated since 23 December 2004 under the Business Registration Certificate no. 0303592115 issued by the Department of Planning and Investment of Ho Chi Minh City, Vietnam. The current charter capital of Portcoast is approximately USD 6.00 million. Portcoast is now recognised as the leading consultant in Vietnam in the fields of surveying and consultancy services for port, maritime structures development and coastal works. We have been successfully performing the study, survey and design for many port, waterway and coastal projects across Vietnam, Cambodia, Myanmar, UAE and Pakistan.

Portcoast has legal ownership and users' licenses for application of the most modern and advanced equipment, technologies and software in carrying out the survey, investigation, design and other related consultancy services.

Portcoast delivers its services to the highest quality and ceaselessly strives to improve the quality of its services, according to international standards. To this end Portcoast has achieved establishment of a quality control and management system which has been certified by AFAQ-AFNOR International (France) and the International Quality Certification Network IQNet since 2004.



# HUMAN RESOURCES

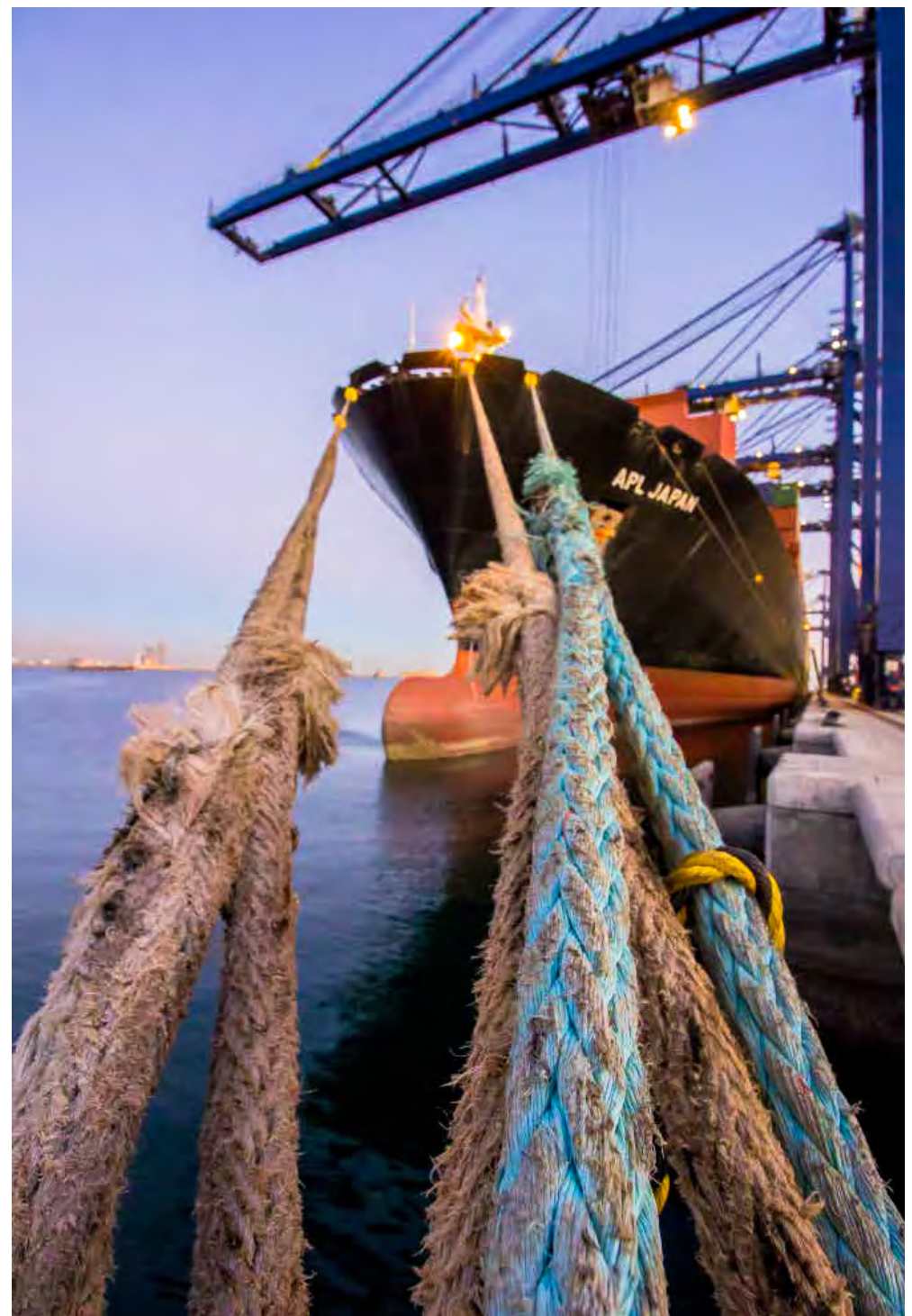
## CORE BUSINESS

Portcoast currently employs around 160 permanent staff including 11 professors/ doctors of engineering, 15 masters of engineering and more than 130 engineers, BAs and technicians specialized in different fields such as ports, waterways, bridges, roads, geology, topography, hydrology, environment, electrical-electronics, water supply & drainage, economy, finance, business management. A number of Portcoast staff have been trained and graduated abroad.

The core business activities of Portcoast are rendering technical consultancy services for development projects of ports, waterways, coastal and marine engineering works, building works, including:

- Preparation of Master Planning and Detailed Planning;
- Topographic and Bathymetric Survey, Soil/ Geotechnical Investigation, Hydrological Survey, Geophysical Survey;
- Feasibility Study, Basic Design, Feed Design, Detailed Design, Cost Estimation and Total Cost Estimation;
- Environmental Impact Assessment;
- Mathematical Modelling;
- Structural Verification;
- Bidding Consultancy;
- Construction Supervision, Administration and Project Management.

**"Most of port, waterway, maritime and coastal Projects with foreign investments in Vietnam have been participated and carried out by Portcoast"**



# SOFTWARE EQUIPMENT

Portcoast has legal ownership and users' licenses for application of the most modern, advanced equipment, technologies and frequently updated software in carrying out the survey, investigation, design and other related consultancy services. The typical software that is currently used for our business is as follows:

- **General office tasks:** Microsoft Office, Adobe Acrobat Pro DC, etc.
- **Construction Schedule Control and Management:** Microsoft Project
- **Geographic Information System (GIS):** ENVI, GeoTool
- **Geotechnical Modelling:**
  - (i) Numerical model calculation for foundations: Plaxis V8, Plaxis Flow, Plaxis 3D Foundation, Plaxis 3D Tunnel, Geo-Studio 2019, Geo5 (2019)...
  - (ii) Processing and analyzing for Pile Driving Analyzer (PDA) testing: CAPWAP, GRLWeap
- **Imaging and graphics:**
  - (i) Raster graphics and image editing and enhancing: Adobe Photoshop Elements 2020;
  - (ii) Animations and video editing: iMovie, Final Cut Pro, Motion ...
- **Hydrodynamics Modelling:** Numerical model calculation for water environments: MIKE11, MIKE21 (2019), MIKE21MA - Mooring Analysis (2019), MIKE3, LITPACK, etc.
- **Reporting and Drawing:**
  - (i) Creation and modification of the most optimized 2D and 3D drawings, design sketches, maps: Autodesk Revit, AutoCAD, Civilcad, Microstation...
  - (ii) Render and creation a simulation: 3DS Max, Lumion, Unity, Unreal Engine, Reallusion
- **Ship Maneuvering Modelling:** SHIPMA V7.4.2 (2018)
- **Structural Modelling:**
  - (i) Structural analysis and design: SAP 2000 (v21), Autodesk AEC Collection (2020)
- **Topography and Bathymetry:** HypackMax, Hysweep; Topcon Tools, Pix4D, CivilCad...
- **Laser Scanner 3D software:** **Leica**, **FARO**, **Stormbee**, **Topcon**, **Trimble**, **Teledyn**  
[\(https://leica-geosystems.com/\)](https://leica-geosystems.com/) Leica Cyclone REGISTER Permanent, Leica CloudWorx Ultimate Permanent, Leica JetStream Enterprise Permanent, Leica Cyclone Connector Permanent, Leica Cyclone PUBLISHER Pro Permanent, Leica TruView Enterprise Permanent  
[\(http://constructionbim.faro.com/sg/\)](http://constructionbim.faro.com/sg/): FARO Scene, FARO As-built for Autodesk Revit, FARO BuildIT Construction, FARO As-built for AutoCAD, FARO Zone 2D ,  
[\(http://www.stormbee.com/\)](http://www.stormbee.com/): Beeflex software.  
[\(https://www.topconpositioning.com/\)](https://www.topconpositioning.com/): Magnet Collage.  
[\(https://www.trimble.com/\)](https://www.trimble.com/): Trimble Business Center.  
<https://www.teledyne.com/en-us>: Atlascan.



# SOFTWARE EQUIPMENT

SAP2000®

GeoStudio

PLAXIS

MIKE  
Powered by DHI



Leica  
Geosystems

FARO

Trimble

TELEDYNE  
TECHNOLOGIES  
Everywhere you look

TOPCON

STORMBEE

NORBIT  
- explore more -



fine  
civil engineering  
software

GEOS

MATLAB

GlobalMapper



DJI TERRA

PIX4D



ContextCapture  
CONNECT Edition

UNREAL  
ENGINE

SketchUp



CINEMA 4D



unity



Twinmotion

iClone®7

LUMION



# SOFTWARE EQUIPMENT

## LASER SCANNER 3D



- Leica ScanStation P50
- Leica RTC360 3D Laser Scanner
- FARO Focus Laser Scanner S350A
- FARO Scanplan 2D Handheld Mapper
- FARO Freestyle 3D Scanner



- TOPCON GLS-2200



- Polaris TLS LR



- Trimble Mobile Mapping MX50



- Trimble SX12 Scanning Total Station



# SOFTWARE EQUIPMENT

## UAV - MOBILE MAPPING



STORMBEE UAV



Matrice RTK 300 - ZENMUSE L1- ZENMUSE P1

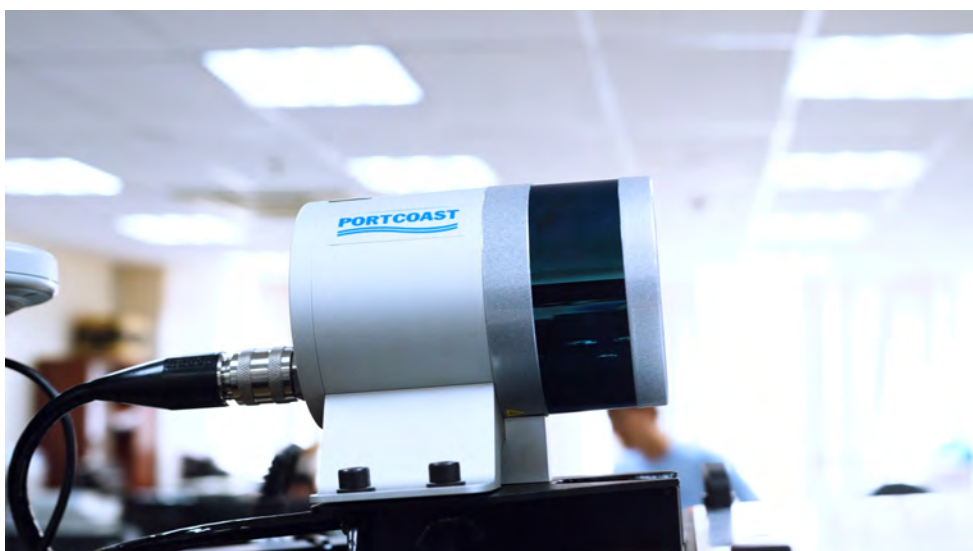


# SOFTWARE EQUIPMENT

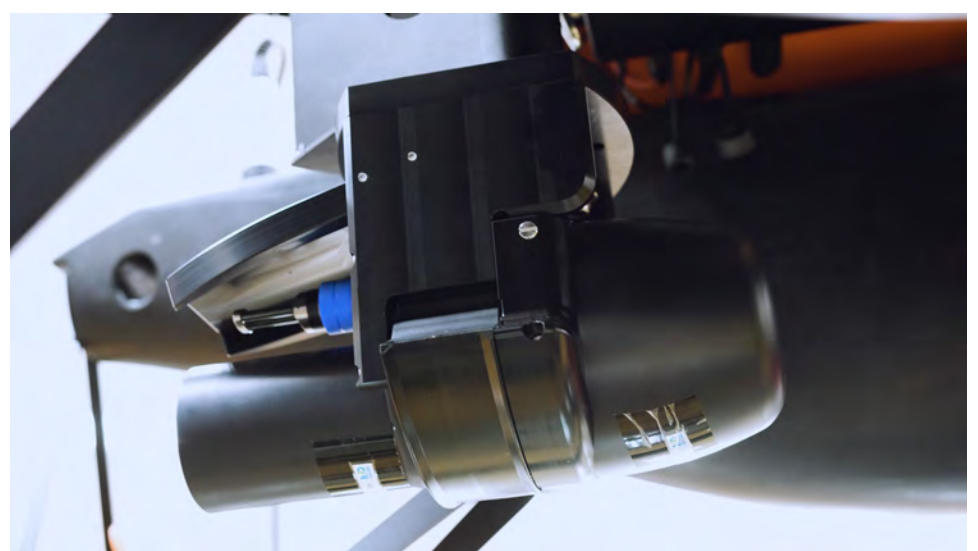
## USV - MULTIBEAM SONAR SYSTEM - iLIDAR



USV OTTER PRO



NORBIT iLidar System

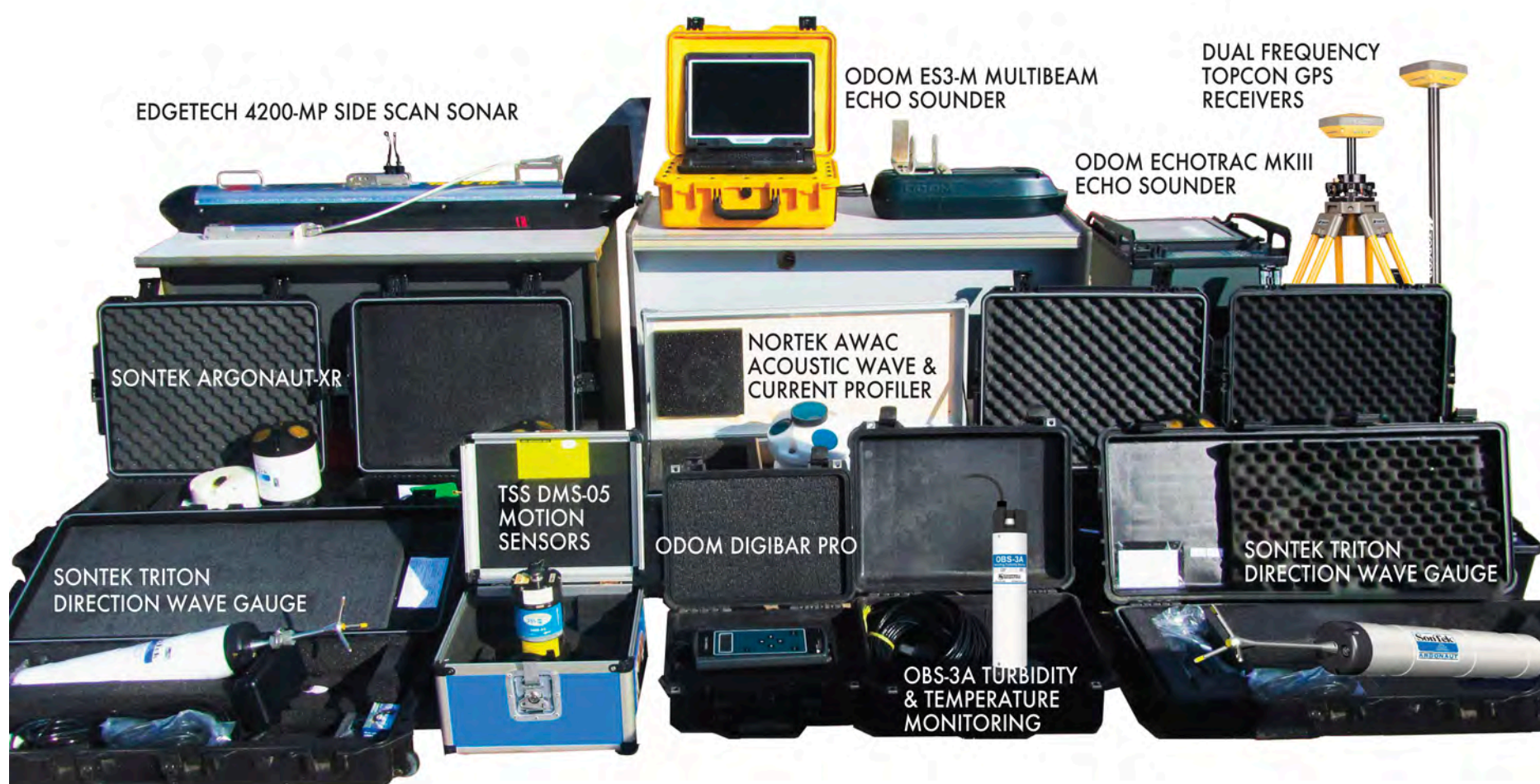


NORBIT iWBMS multibeam sonar system



# SOFTWARE EQUIPMENT

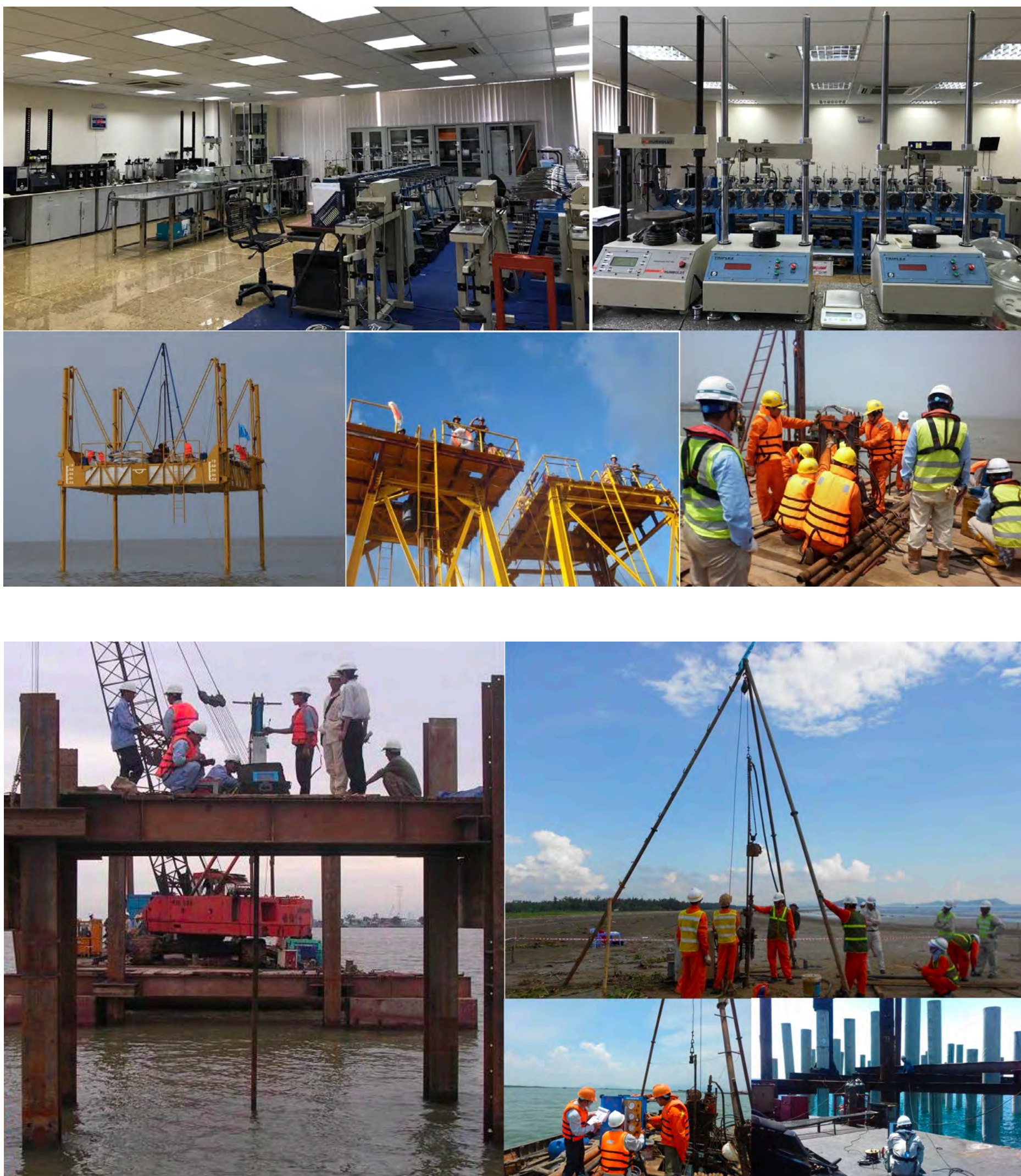
## TOPOGRAPHIC & HYDROGRAPHICAL SURVEY



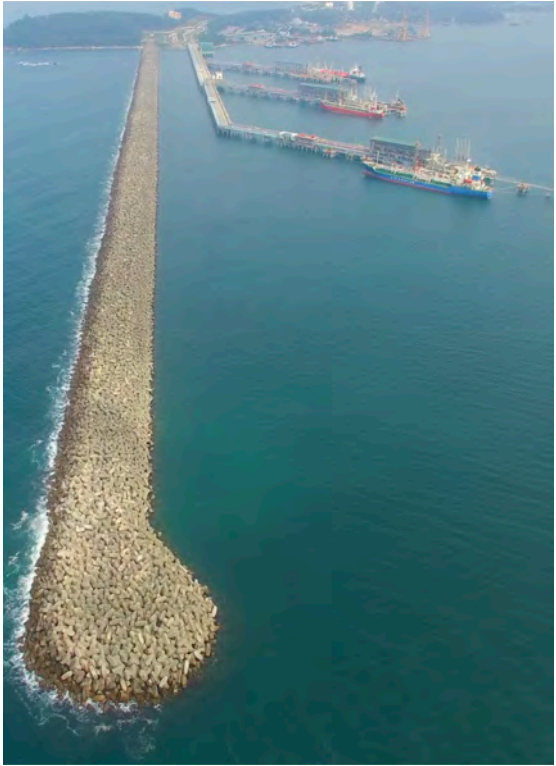
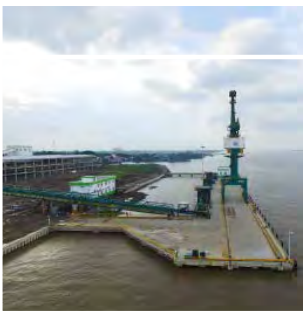


# SOFTWARE EQUIPMENT

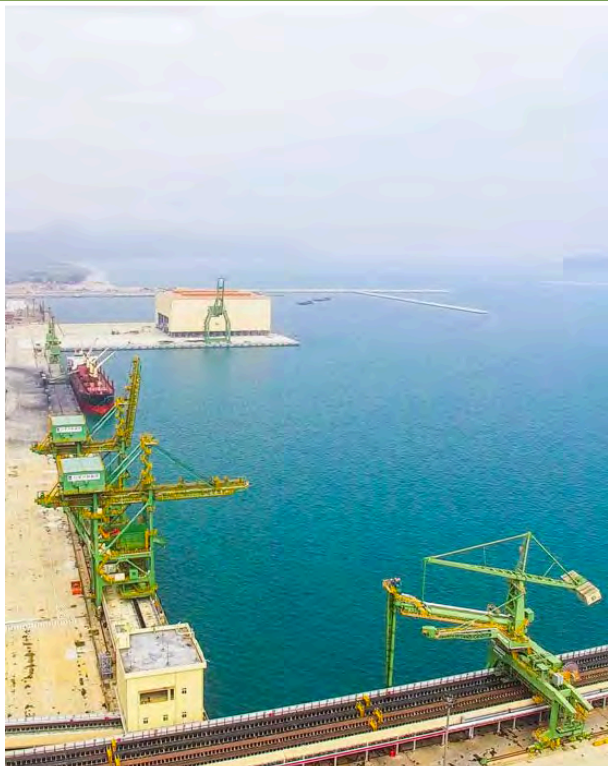
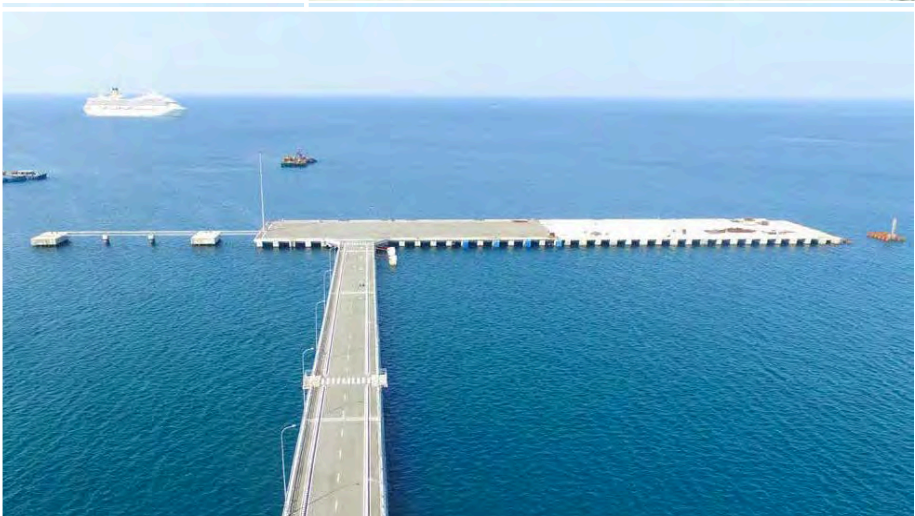
## SOIL INVESTIGATION







# Portcoast Typical Projects







# Cai Mep International Terminal (CMIT)



## Cai Mep International Terminal (CMIT)

Site: Ba Ria - Vung Tau Province, Vietnam

Client: JV of APMT is part of the Danish-based Maersk Group), Vinalines and Saigon Port.

Total area: 48ha, Container berths: 2, Quay length: 600m, Container ships with load up to 160,000 – 200,000DWT.

Our services include:

- Topographic & Hydrographical surveys.
- Geotechnical Investigation.
- Feasibility Study & Basic Design, EIA Report.
- Detailed Design.
- Tender documents.
- Project Management, Construction Supervision. Mathematical Modelling, Real Time Simulation and Maritime Safety Plan Preparation.





# Duyen Hai 1 Thermal Power Plant (1,245 MW) Coal Unloading Jetty



## Duyen Hai 1 Thermal Power Plant Coal Unloading Jetty

Site: Tra Vinh Province, Vietnam.

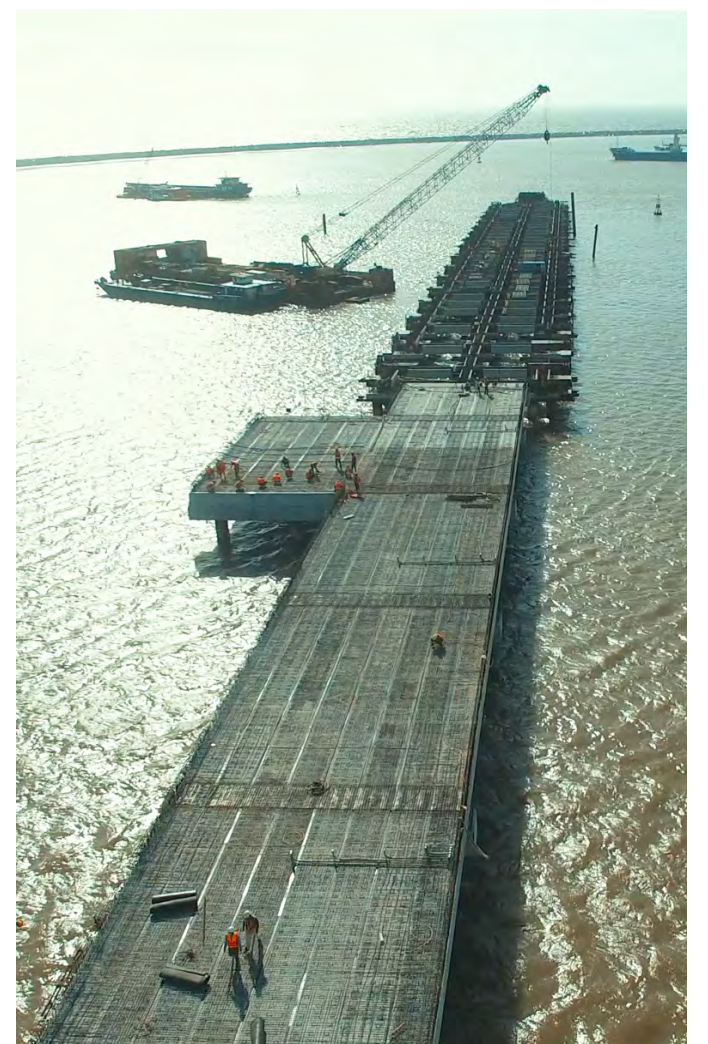
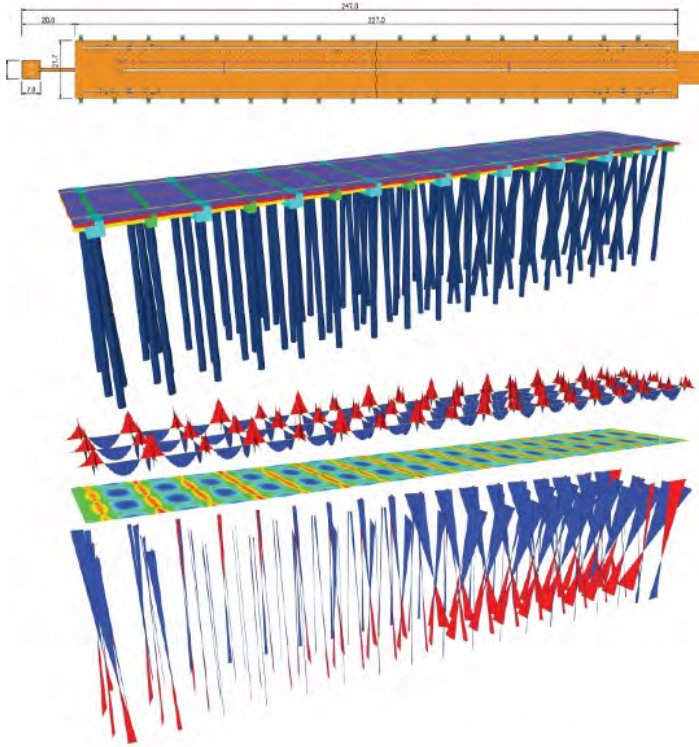
Owner: GENCO 1 - EVN.

Coal Unloading Jetty consists one Coveyor trestle and two Import Berths for Bulk carriers of up to 30,000 DWT and one oil crude Berth for tankers 1,000 DWT, The Northern Breakwater (length of 3.0km), Approach channel & Turning basin and other Civil work items.

Our services include:

- Topographic & Hydrographical surveys.
- Soil Investigation & Geophysical survey; Hydrological survey.
- Feasibility Study & Basic Design; EIA Report.
- Detailed Design review, Tender Preparation and Evaluation.
- Construction supervision.





# Duyen Hai 3 Extension Thermal Power Plant (660MW) Coal Unloading Jetty



## Duyen Hai 3 Extension Thermal Power Plant Coal Unloading Jetty

Site: Tra Vinh Province, Vietnam.

Owner: GENCO 1 - EVN.

EPC Contractor: Sumitomo Corporation.

Subcontractor: Mitsui Engineering & Shipbuilding.

Our services include:

- Detailed design Coal Unloading Jetty – Trestle 898.87m in length and 12.4m in width & Wharf 247.0m in length and 21.7m in width capable to accommodate 30,000DWT bulk carriers.
- Sedimentation Study of aterfront Area and CW Intake Canal.





# Hutchison Ports SITV

## Saigon International Terminals Vietnam



### Hutchison Ports SITV

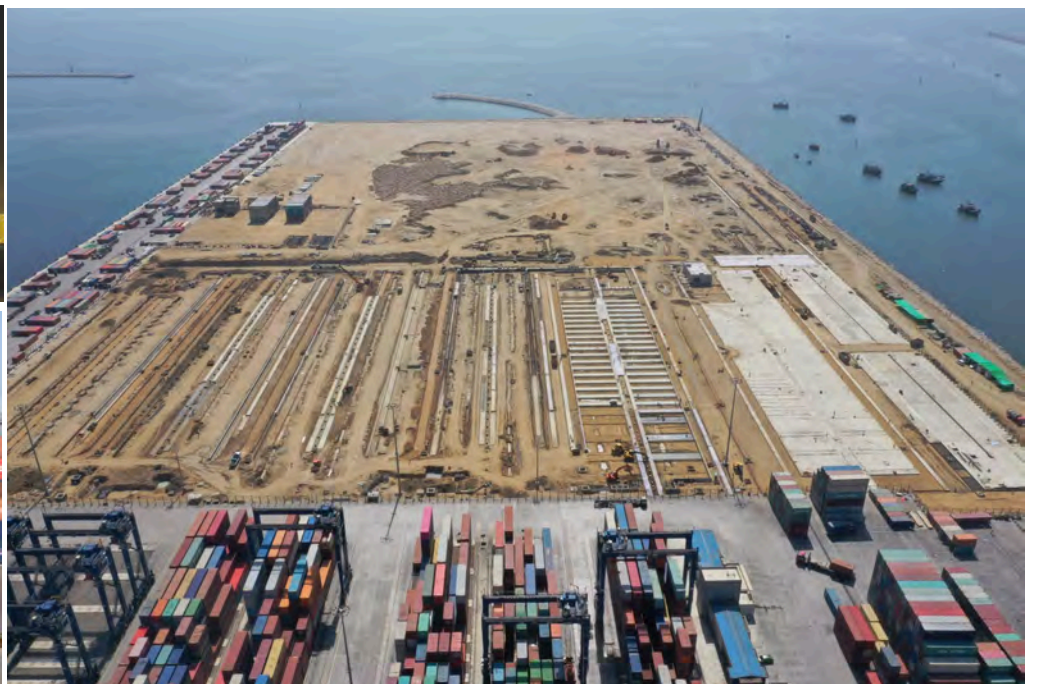
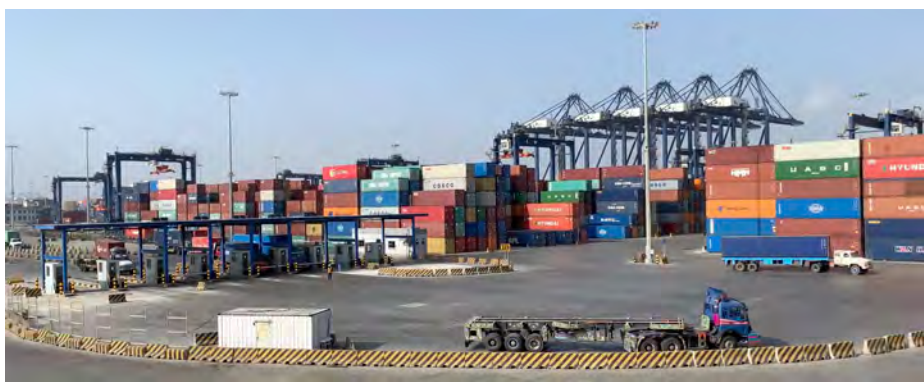
Site: Ba Ria - Vung Tau Province, Vietnam.

Total area: 33.7ha, Container berths: 3, Quay length: 730m,  
Container quay crane: 6, RTG crane: 11 Vessels, container  
ships with load up to 80,000DWT.

#### Our services include:

- Topographic & Hydrographical surveys, Geotechnical Investigation.
- Feasibility Study & Basic Design; EIA Report, Detailed Design.
- Tender Preparation and Evaluation.
- Construction supervision and Project Management
- EIAR preparation and Independent Site Audit for Twilight warehouse;
- Port Announcement for 100,000 DWT Vessel Accommodation





# Hutchison Ports Pakistan

## South Asia Pakistan Terminals



### Hutchison Ports Pakistan

Site: Karachi, Pakistan.

Hutchison Ports Pakistan is Pakistan's premier container terminal operator. It is located within the Port of Karachi, a natural deep-water harbor west of the Indus Delta on the Arabian Sea. The Facility have 4 berths, the equipped with modern container-handling equip.

Area: 85 ha, Quay length: 1,500m, Berths: 4, Quay cranes:16, RTG crane: 52, Draft: 16m (final 18m).

Our servicesinclude:

- Project management - Container Yard and Building Phase 1.
- Independent Design Checking Service & Project management - Container Yard and Building Phase 2.





# SP-SSA International Container Terminal (SSIT)

## SSIT International Port

Site: Ba Ria - Vung Tau Province, Vietnam  
 Client: JV of SSA Marine (USA), Vinalines and Saigon Port  
 Total area: 60.55ha, Container berths: 2, Quay length: 600m, Containerships with load up to 160.000DWT

### Our services include:

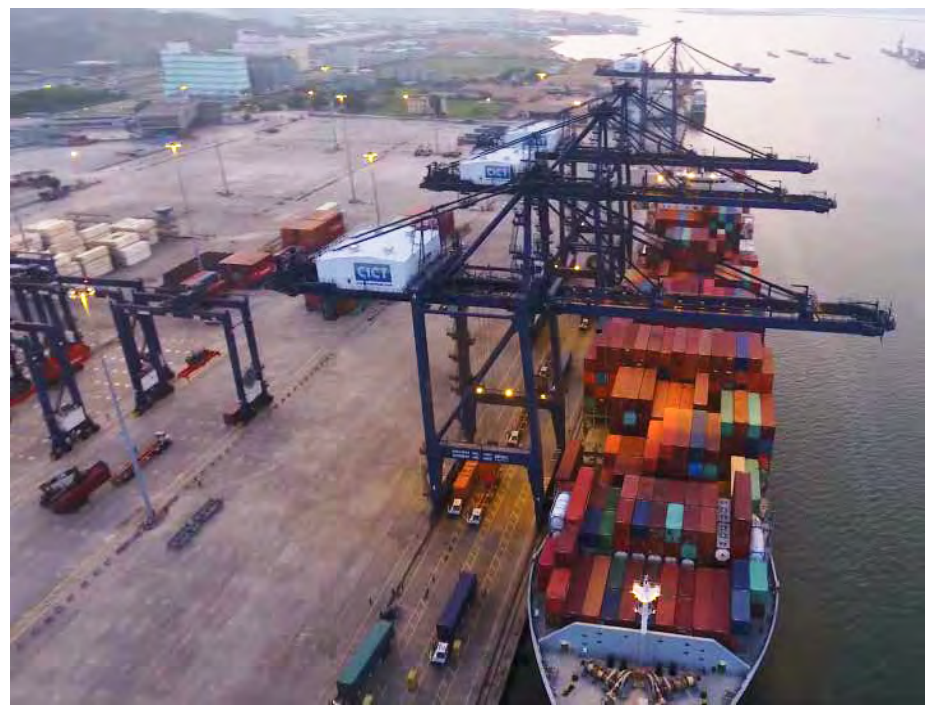
2006 - 2012:

- Topographic and Hydrographical survey,
- Geotechnical Investigation,
- Feasibility Study, Basic Design, EIA Report,
- Detailed Design,
- Tender documents,
- Project Management, Construction Supervision

2019-2020: Structural inspection, 3D Laser Scan, Detailed design for demolition and reconstruction work, Project Management and Construction Supervision for the SSIT's berth after collision incident of the Foreast Honesty Vessel.







# Cai Lan International Container Terminal (CICT)

## CICT Terminal

Site: Cai Lan - Quang Ninh Province, Vietnam.

Client: JV of SSA Marine (USA), Vinalines and Quang Ninh Port.

Berths 2, 3, 4 of CICT for vessel up to 50,000 DWT, access road, bank protection, dredging of water area and other civil work items.

Our services include:

- Topographic & Hydrographical surveys.
- Geotechnical Investigation.
- Feasibility Study, Basic Design, EIA Report.
- Detailed Design.
- Tender documents.
- Project Management; Construction Supervision.







# Myanmar International Terminals Thilawa (MITT)



## Myanmar International Terminals Thilawa Port (MITT)

MITT is located near the Yangon estuary, approximately 25 km in northwest direction far from Yangon (Myanmar).

Our services include:

- Inspection existing structure of MITT Port (Section S6 & S7): Piles, Beams, Deck slabs, Quay crane tracks, Bollards & Fenders...
- Verify load carrying capacity of wharf structure.
- Detailed design for additional tie-down for new quay cranes & RTG cranes.
- Review container yard design for plinth beam & RTG Runway.





# Hutchison Ports Ajman Ajman New Port



## Hutchison Ajman New Port

Site: Ajman, United Arab Emirates.

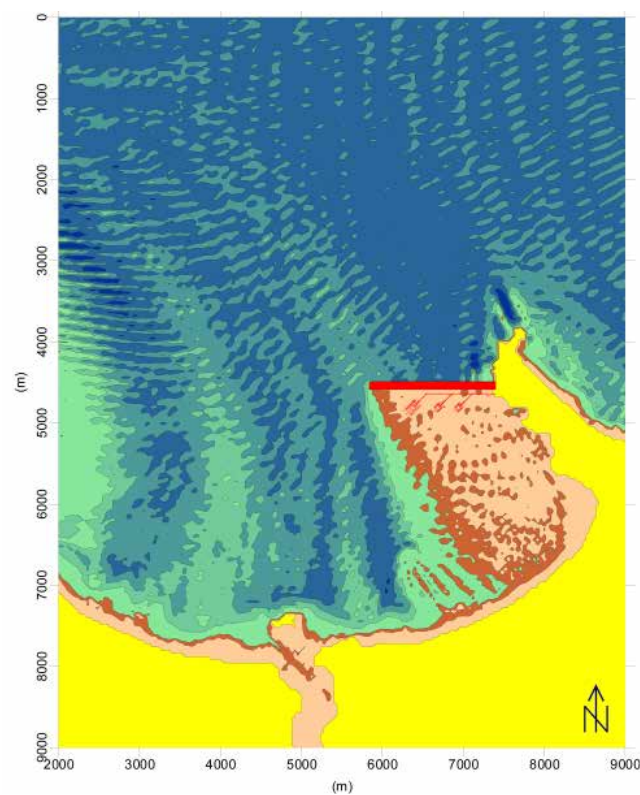
Client: Hutchison Ajman International Terminals Limited - F.Z.E.

Consultant: CH2M Partnership.

Our services include:

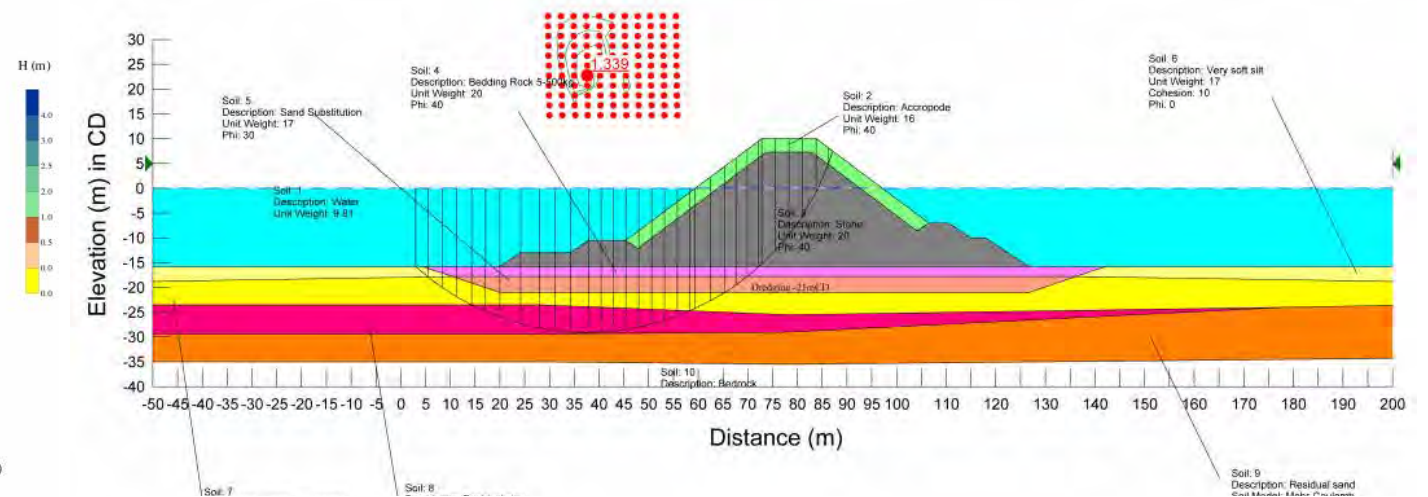
- Data collection.
- Design verification and Cost estimation.
- Preparation of Bidding documents and evaluation of bidding documents for breakwaters, quay ports and wharves under Ajman port development study project.



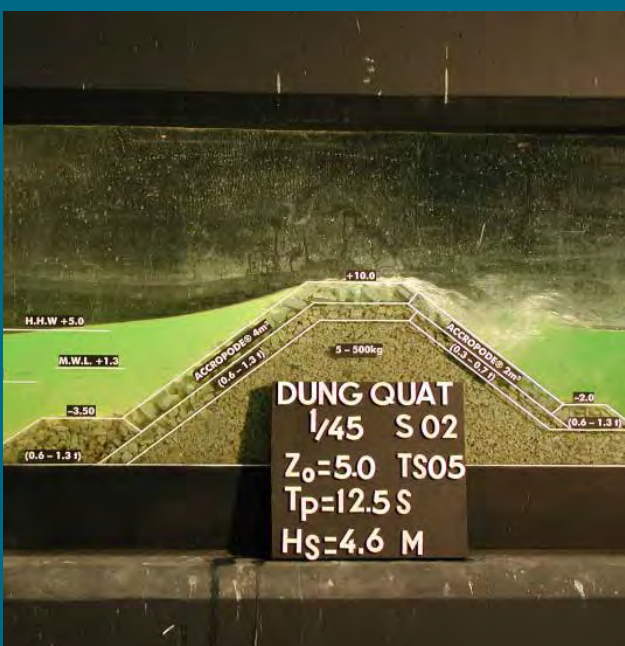


#### (Section 14 - Sea side)

Circular failure  
Dredging + Sand Substitution  
Seismic  $a_h=0.05g$ ;  $a_v=0.017g$   
(Borehole B22,B23,B24,B25)



# Dung Quat Refinery Package 5A & 5B



**Package 5A: Breakwater (1.6 Km long)**  
**Package 5B: Jetty (6 berths for tankers in the range of 5,000 to 50,000 DWT)**

Site: Quang Ngai Province, Vietnam.

Owner: Petrovietnam.

Our services include:

- Topographic & Hydrographical surveys.
- Geotechnical investigations.
- Computer simulation and modelling.
- Foundation analysis and Detailed design.





# Posco Port (Posco Vietnam & Posco SS-VINA)



## Posco Port (Posco Vietnam & Posco SS-VINA)

Site: Ba Ria - Vung Tau Province, Vietnam.

Client: Posco Vietnam Co. Ltd and Posco SS-VINA Co., Ltd  
(Two of the main affiliates of Posco - South Korea).

Posco Vietnam: Port area 15ha, berths: 2, Quay length: 333m, ships with load up to 60,000DWT.

Posco SS-VINA: Port area 12ha, berths: 2, Quay length: 267m, ships with load up to 50,000DWT.

Our services include:

- Topographic & Hydrographical surveys.
- Geotechnical Investigation.
- Feasibility Study, Basic Design, EIA Report.
- Detailed Design.





# SP-PSA International Port



## SP-PSA International Port

Site: Ba Ria - Vung Tau Province, Vietnam.

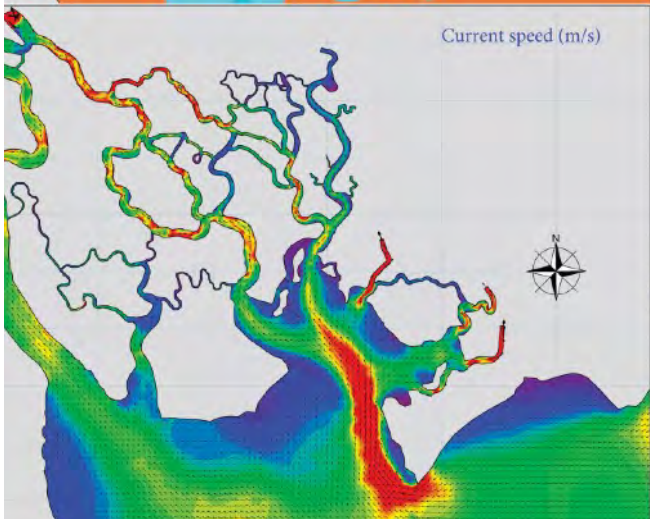
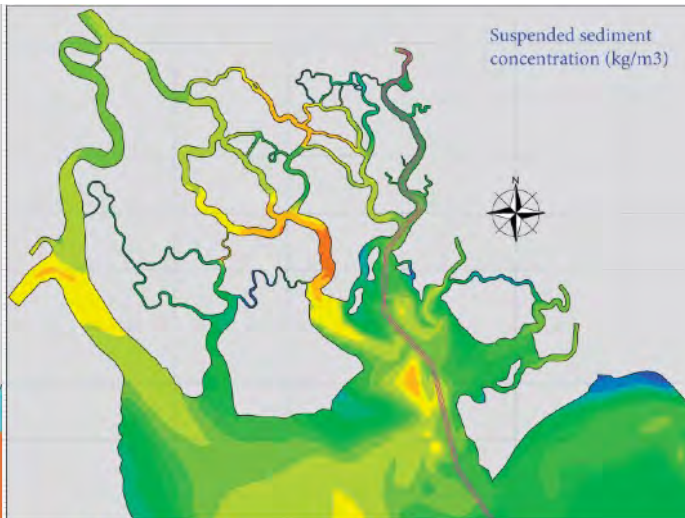
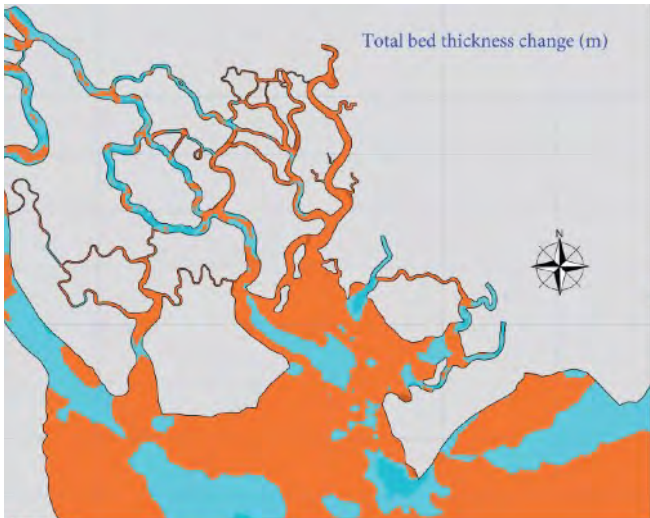
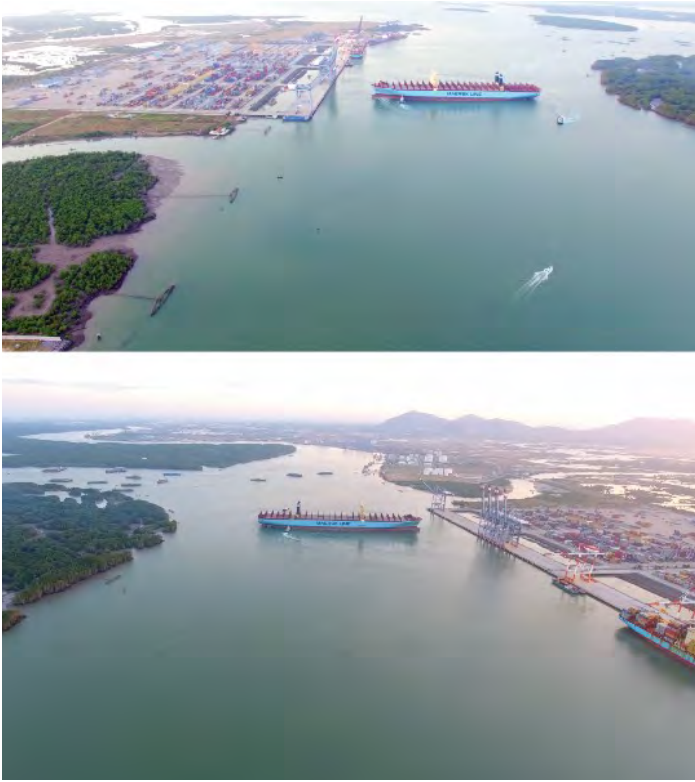
Client: JV of PSA Singapore, Vinalines and Saigon Port.

Total area: 56ha, Container berths: 2, Quay length: 600m,  
Containerships with load up to 80,000-120,000DWT.

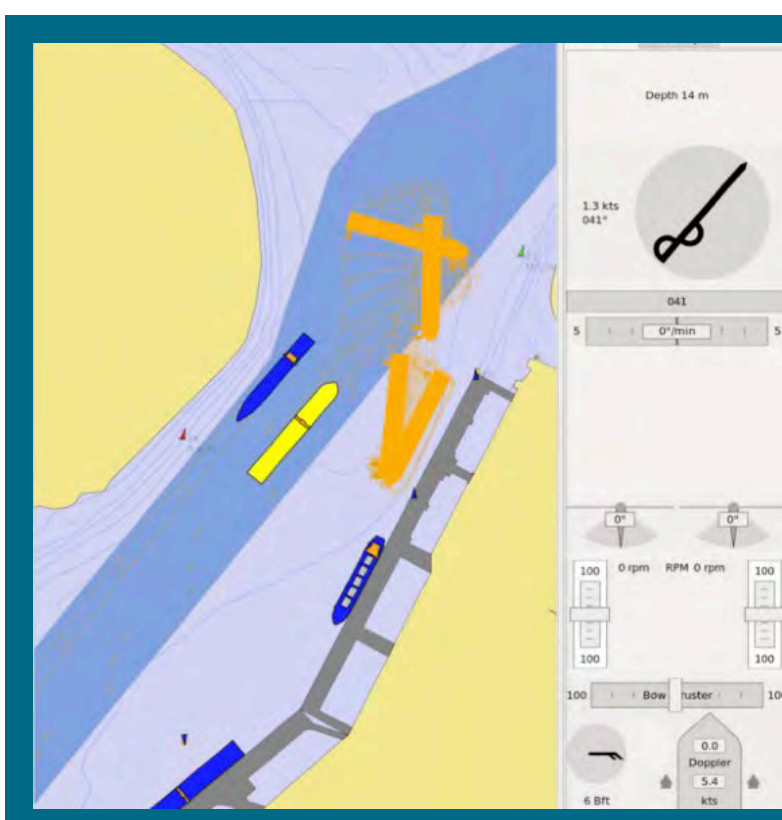
Our services include:

- Topographic & Hydrographical surveys.
- Geotechnical Investigation.
- Feasibility Study, Basic Design, EIA Report.
- Detailed Design.





# Comprehensive Development Project for the Cai Mep - Thi Vai Navigational Channel



## Comprehensive Development Project for the Cai Mep - Thi Vai Navigational Channel

Site: Ba Ria Vung Tau Province, Vietnam.

Client: Vinamarine - Vietnam Ministry of Transport

The channel, along the Cai Mep-Thi Vai River, 50km from southern Ba Ria - Vung Tau to Dong Nai, is expected to be upgraded to receive ships up to 100,000DWT in route to ports on the Cai Mep – Thi Vai river, 60,000DWT to ports in My Xuan – Phuoc An and 30,000DWT to ports in Go Dau.

Our services include:

- Hydrographical survey; Soil Investigation; Hydrological survey.
- Feasibility study, Basic design.
- Hydrodynamic model.
- Fast-time & Real-time simulation in Channel Design.





# Nghi Son Refinery and Petrochemical Project (NSRP)

## Nghi Son Refinery and Petrochemical Project Vietnam

**Client:** Nghi Son Refinery and Petrochemical LLC sponsored by PetroVietnam, Kuwait Petroleum Europe B.V. (KPE), Idemitsu Kosan Co., Ltd and Mitsui Chemical, Inc.

**Location:** Nghi Son Economic Zone (Thanh Hoa Province), Marine facilities at the Nghi Son refinery include single point mooring (SPM) for 320.000DWT VLCC, a breakwater, crude oil import pipelines, loading / unloading jetties for 50.000DWT Oil Tankers, a service ship quay & material offloading quays. A 48 in-diameter and 35km-long crude oil pipeline

**Our services include:**

- Site selection; Preliminary Design of marine structures (loading / unloading jetties, construction phase's quays, Approach Channel and Single point mooring).
- Hydrographical Survey, Side scan & Sub-bottom Profiling survey, Wave & Current monitoring...
- Geotechnical Investigation.







# Hyosung Vina Chemicals Port



## Hyosung Vina Chemicals Port

Site: Ba Ria - Vung Tau Province, Vietnam

Client: Hyosung Corporation/Hyosung Vina Chemicals

Total area: 10ha,

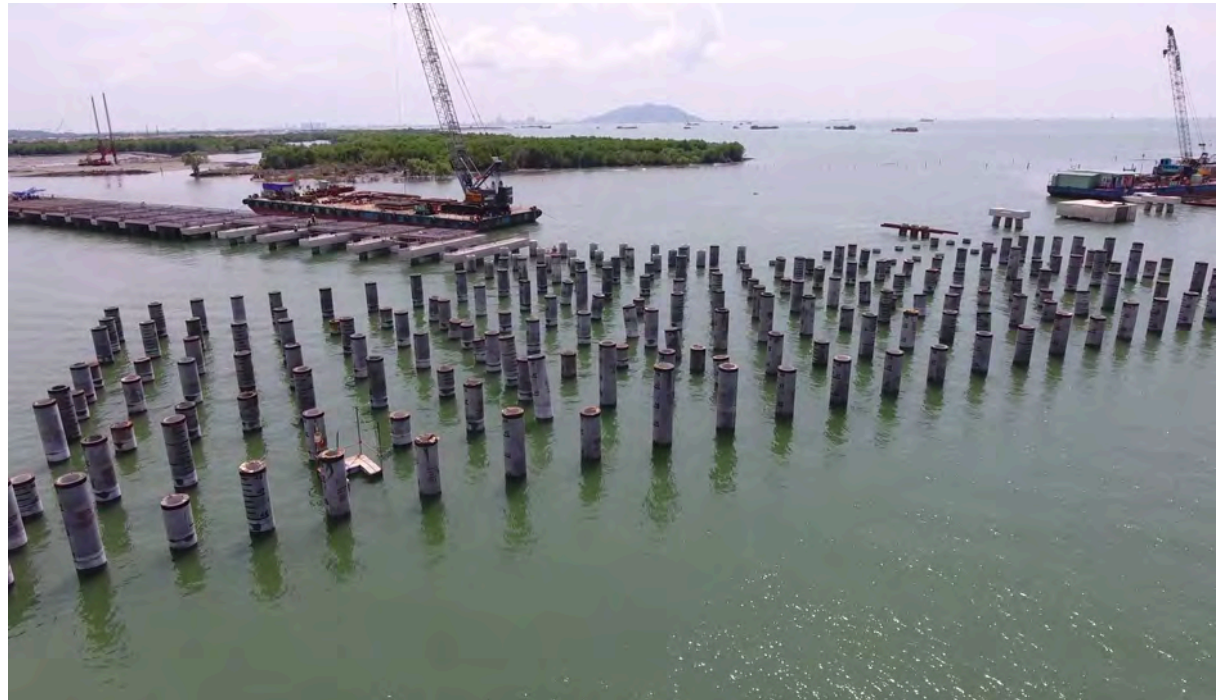
Jetty for 60.000DWT LPG Tankers

Our services include:

2016 - 2020:

- Updated & Revised Masterplan
- Topographic and Hydrographical survey,
- Geotechnical Investigation,
- Feasibility Study, Basic Design, EIA Report, Detailed Design,
- Hydrodynamic modelling & Ship Maneuvering Simulation Study,
- Construction Supervision, Laser Scanner 3D





# Long Son Petrochemicals Co., Ltd.



## Long Son Petrochemicals Co., Ltd.

Site: Long Son island in Ganh Rai bay, North of Vung Tau, Vietnam.

Owner: Siam Cement Group of Thailand (SCG)

### Our services include:

2012-2013: Feasibility Study and Basic Design of the Seaport Facilities for this plant. The design scope included 3 jetties for import vessels with feedstock for the plant and for export of liquid petrochemical and chemical products as well a coal vessel receiving facility and a construction quay.

2017-2018: Topographic & Hydrographic Survey, Geophysical Investigation, Sub-bottom Profiling & Soil Investigation, Detail Design Review and Simulation.

2019 - 2021: Construction Supervision





# Saigon Premier Container Terminal (SPCT)



## Saigon Premier Container Terminal (SPCT)

Site: Ho Chi Minh city, Vietnam.

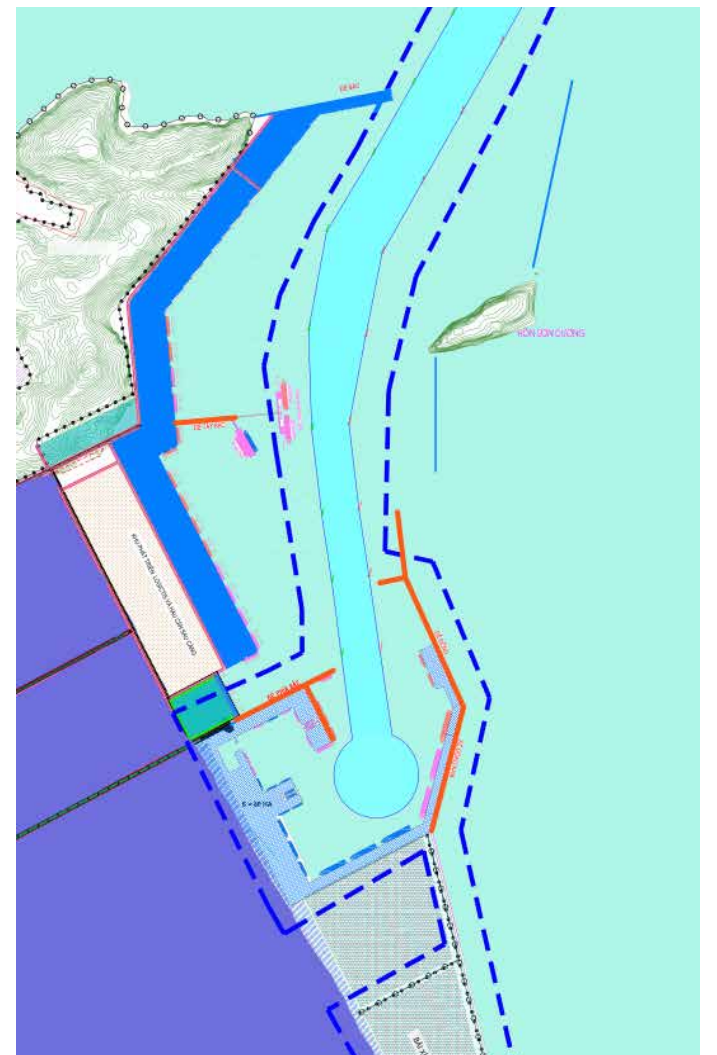
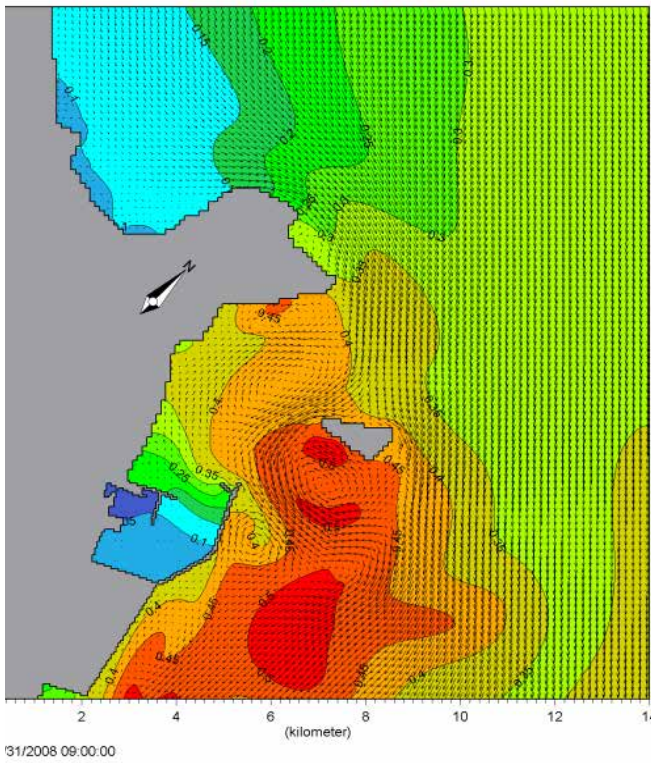
Client: JV of DP World (UAE) and Tan Thuan IPC.

Total area: 40ha, Container berths: 3, Quay length: 950m,  
Containerships with load up to 50,000 – 75,000DWT.

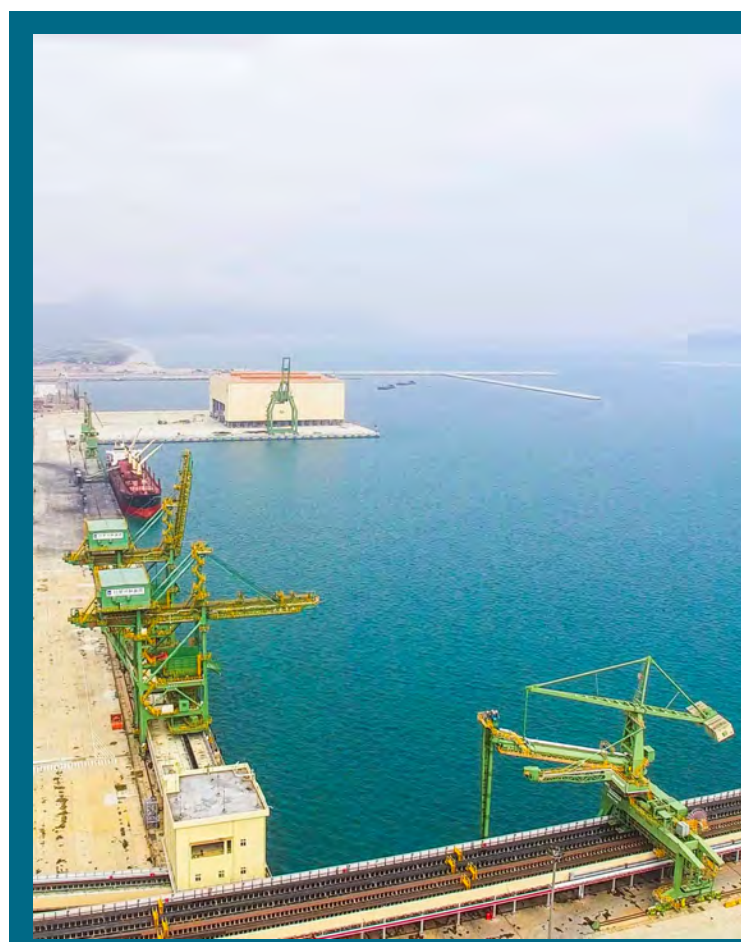
Our services include:

- Topographic & Hydrographical surveys.
- Geotechnical Investigation.
- Feasibility Study & Basic Design, EIA Report.
- Detailed Design Review.
- Ground improvement Monitoring & Testing.





# Formosa Ha Tinh Son Duong Port



## Son Duong Port

Site: Vung Ang Economic Zone in Ha Tinh Province, Vietnam.

Owner: Formosa Ha Tinh Steel Corporation (FHS).

Son Duong Port and Integrated Steel Mill Complex is currently the biggest FDI project in Vietnam . Capacity 28 Million Tons Cargo Handling, with Port Functions: Harbour Area: 930ha, Breakwater 5,2m, Approach Channel: 9km - depth of 23.5m

Total number of wharves is 32 & investment in 2 phases:

Phase 1: 11 wharfs (2 wharves for 200,000DWT vessel and 9 wharves 10,000-50,000DWT vessel)

Phase 2: 32 wharves (6 wharves for 200,000-300,000DWT vesse, 20 wharves for 30,000-50,000DWT vessel and 6 wharves for 10,000DWT vessel).

Our services include:

- Topographic Survey, Hydrographical Survey, Geotechnical Survey, Geophysical Survey, Hydrological Survey, Mathematical Modeling, Feasibility Report (Phase 1 & Phase 2) in year 2008-2010.
- Planning Preparation, Detailed Planning and Detailed Design of Son Duong Port (phase 1) in year 2009-2013.
- Hydrographical Survey in 2016-2017.
- Settlement monitoring in 2018 -2020





ODA Cai Mep International Terminal



ODA Thi Vai International Terminal

# ODA Cai Mep - Thi Vai International Terminal



## Cai Mep - Thi Vai International Terminal (Japanese ODA loan)

Site: Ba Ria - Vung Tau Province, Vietnam.

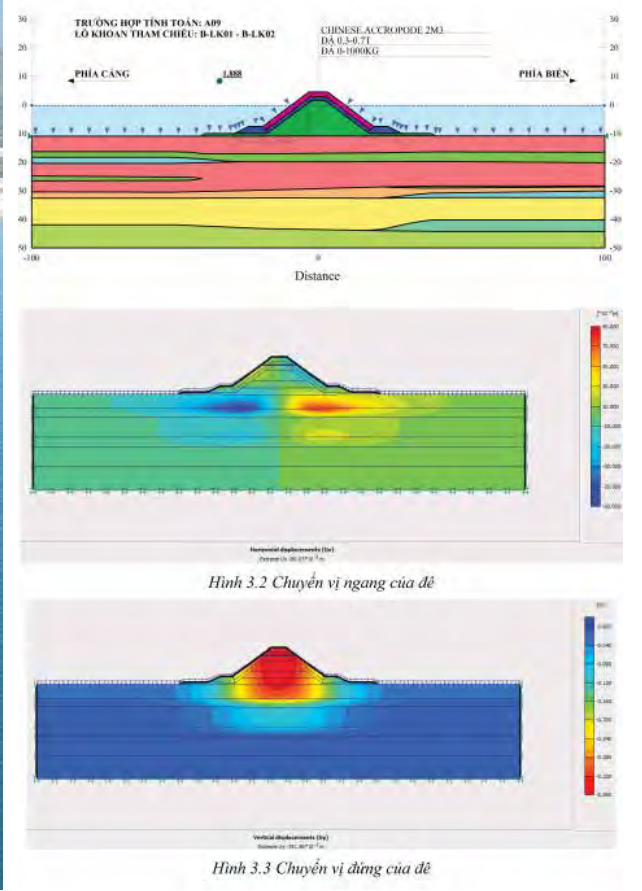
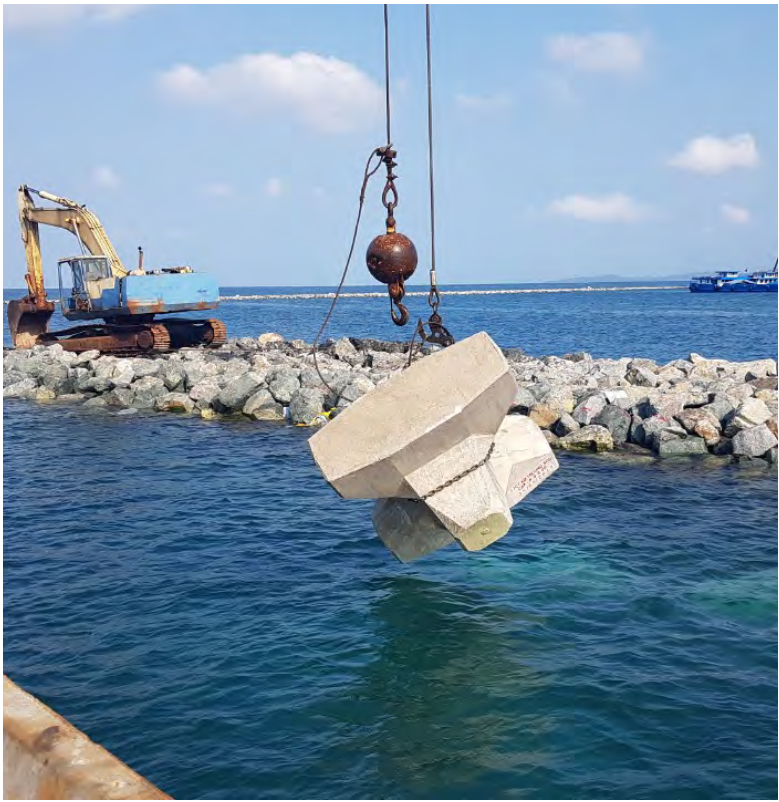
Client: Vietnam Ministry of Transport/ JICA (Japan).

Infrastructure development, including: 02 container berths in Cai Mep with total berth length of 600m, total area of 48ha, accommodation of 100,000 DWT vessels and 02 container berths in Thi Vai with total berth length of 600m, total area of 27ha, accommodation of 80,000 DWT vessels - Navigation channel from Buoy "0" accessing to Thi Vai berth - Road of 6.5 km with 04 lanes connecting National Highway.

Our services include:

- Topographic; Hydrographical & Hydrological surveys.
- Geotechnical Investigations.
- Feasibility Study; EIA report; Basic design.
- Detailed Design; Tender documents.
- Project Management; Construction Supervision.





# Cruise Terminal in Phu Quoc Island



## Cruise Terminal in Phu Quoc Island

Site: Phu Quoc Island, Kien Giang Province, Vietnam

Clients:

- Vinamarine - MOT (2014),
- Kien Giang Province (2015 - 2016)

The terminal is located in the town of Duong Dong for luxury cruise ships carrying 5,000 - 6,000 passengers & 20,000DWT.

Our services include:

- Topographic, Bathymetric survey & Hydrographical survey;
- Geotechnical Investigation;
- Computer simulation and modeling;
- Master Plan;
- Feasibility Study, EIA report, Basic design;
- Foundation analysis and Detailed design;
- Construction Supervision.





# Lach Huyen Port Infrastructure Construction Project

## Lach Huyen Port Infrastructure Construction Project Japanese ODA loans (Component A)

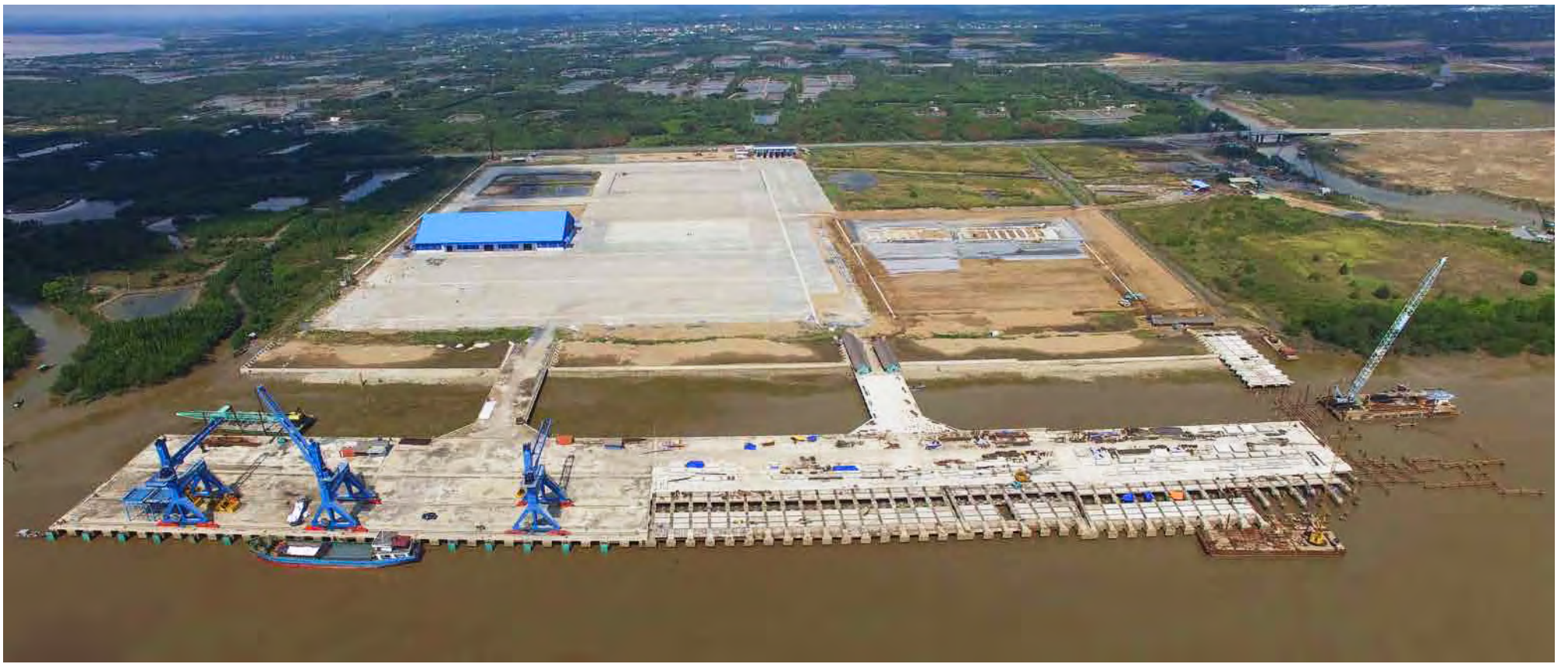
The Port will be developed in two phases, and will be equipped with comprehensive infrastructure and handling technology. It will be able to accommodate container ships between 4,000TEU and 6,000TEU, with the potential to accommodate 8,000TEU ships after expansion.

The port is being constructed south of Lach Huyen's river estuary on Cat Hai Island. It will have a berth of approximately 8,000m, a route length of 18km. Two components, A and B. Component A is being managed by the Vietnam Ministry of Transport (MOT), The works will include construction of a one-lane access channel, anchorages, a 3,230m-long breakwater, a turning basin, a 7,600m-long sand control dyke, an internal road system, soft-soil ground improvement, temporary berths, roads in the administration area, and an administration office building.

### Our services include:

- 2010 - 2015: Feasibility Study Review; Updated Feasibility Study Review; Detailed Design Review.  
Client: Vinamarine (Presented by Project Management Unit No.2).
- 2011: Soil investigation; Hydrological Survey for the Detailed Design.  
Client: Jica Study Team (Presented by Oriental Consultants Co. Ltd.,).
- 2013-2019: Construction Supervision (JV comprising Nippon Koei, JPC, Portcoast and NK Vietnam).  
Client: Vietnam MOT (Presented by Project Management Unit No.2).





# Sai Gon Hiep Phuoc Port



## Sai Gon Hiep Phuoc Port

Site: Soai Rap river, Hiep Phuoc Industry Zone, Ho Chi Minh city, Vietnam.

Client: Saigon Port.

Muti-purpose port terminal with 800m berth length, 60m width to accommodate ship of 50,000 DWT.

Our services include:

- Topographic & Hydrographical surveys.
- Geotechnical Investigation.
- Feasibility Study & Basic Design; EIA Report.
- Detailed Design.
- Supervision.





# Phu My Port Baria Serece Port



## Phu My Port

Site: Ba Ria - Vung Tau Province, Vietnam.

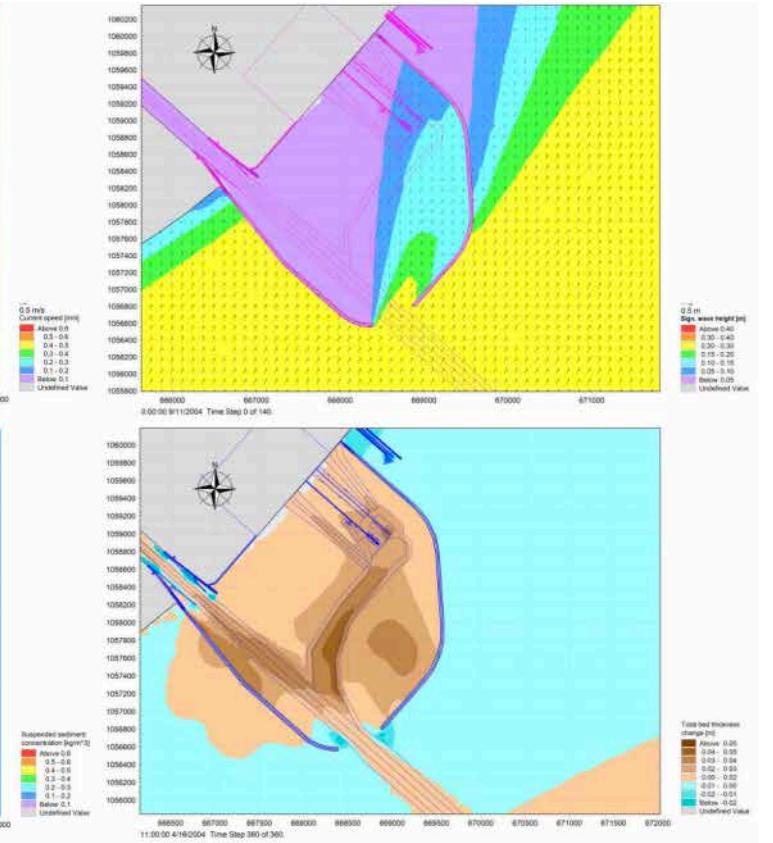
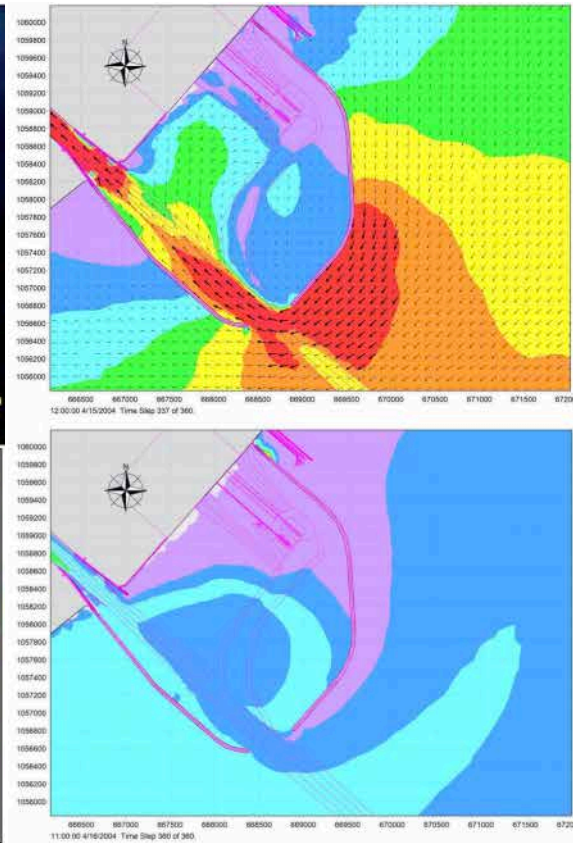
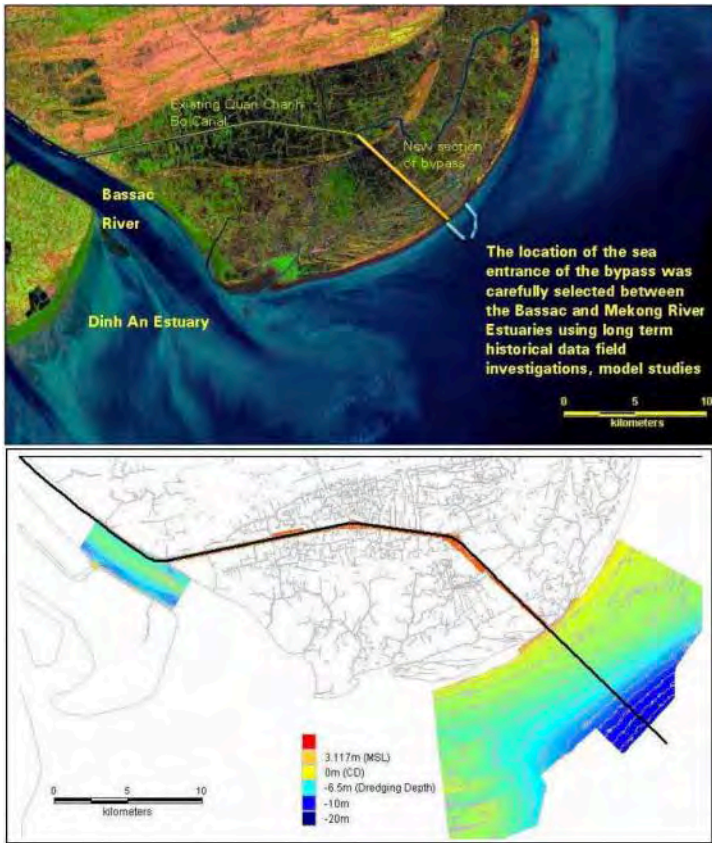
Client: Baria Serece JSC.

Multi-Purpose Port Terminal, Quay length: 463m (5 sections) to accommodate ships of 80,000DWT

Our services include:

- 2005 - 2006: Topographic & Hydrographic Surveys; Soil Investigation; Basic Design; Detailed Design to accommodate ships of 60,000DWT.
- 2009: Surveys and Verification of the existing quay, EIA Report and Detailed Design of the Upgrade Structure to accommodate ships of 80,000DWT.
- 2015 - 2016: Assessment of damages of the Section 1 (103m) after Ship collision; Detailed Design for Re-construction.
- 2019: Surveys and Verification of the existing quay, Laser Scanner 3D





# Project of New Entrance Channel to the Bassac River

## Project of New Entrance Channel to the Bassac River

Location: Duyen Hai and Tra Cu districts, Tra Vinh province, Mekong Delta, Vietnam.

Actually 70-80% of volume of exports/imports of the Mekong Delta has to be transferred to Ho Chi Minh city, overloading the traffic infrastructure in Ho Chi Minh city. Meanwhile, the Existing navigational channel (Dinh An channel) can accommodate vessels with a tonnage of about 5,000 DWT only at spring tide. In addition, the dredging work has to be executed at great cost as a result of speedy sedimentation.

The alternative of New navigation channel had been studied for 20 years. However, the alternative of Bypass channel via Quan Chanh Bo Canal to the Bassac river recommended by SNC - Lavalin (Canada) & Portcoast was approved by the Vietnamese Prime Minister in 2007 for its technical and economical feasibilities.

The project is inclusive of main work items: one-way channel of 40 km long (Bypass channel of 9 km long) for 10,000 DWT fully-loaded and 20,000 DWT partially-loaded vessels, breakwater (length of 2.4km), 30-km-long bank protection dike, ferry, navigation AIDS, etc.

Our services include:

- 2004: Soil Investigation; Topographic, Hydrographic & Hydrological surveys (SNC-Lavalin is a Leader of JV).

Client: Project Management Unit of Waterways - Vietnam MOT.

- 2005 -2015: Topographic & Hydrographic Surveys; Geotechnical Investigation; Geophysical & Hydrological Surveys; Feasibility Study & Basic Design; Mathematical Modeling; Detail Design; Construction Supervision.

Client: Maritime Project Management Unit 3 - Vinamarine - Vietnam MOT.





# Vietnam Lee & Man Paper International Port



## Vietnam Lee & Man Paper International Port

Site: Hau Giang Province, Vietnam.

Client: Vietnam Lee & Man Paper MFG. Ltd. (Hong Kong). Berths: 2, Quay length: 481m, 10,000 DWT fully-loaded and 20,000 DWT partially-loaded vessels, 1100m long for bank protection.

Our services include:

- Topographic & Hydrographical surveys.
- Geotechnical Investigation.
- Feasibility Study, Basic Design, EIA Report.
- Detailed Design.





# Chan May Port Upgrading existing Jetty



## Chan May Port - Upgrading existing Jetty

Site: Thua Thien - Hue Province, Vietnam.

Client: Chan May Port - Royal Caribbean International.

Chan May port is a general seaport with total wharf length of 480m. Chan May Port cooperated with Royal Caribbean Cruises to accommodate the Luxury Cruise ship (over 362m in length and total gross tonnage of 225,282 GRT) in year 2015 (After Upgrading the existing Jetty).

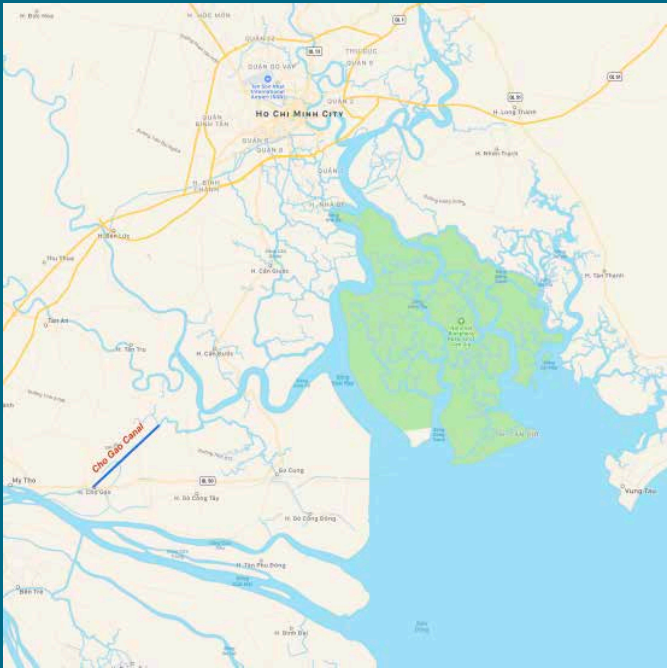
Our services include:

- Data collection; Topographic & Hydrographical Surveys; Side Scan survey.
- FS and Basic Design; Detailed Design for Upgrading existing Jetty.
- Tender Document; Construction Supervision.





# Cho Gao Canal Upgrading Project



## Cho Gao Canal Upgrading Project

Site: Tien Giang Province, Vietnam.

Client: PMU of Waterways (PMU-W) - Vietnam MOT.

The Cho Gao Canal is the Main Inland Waterway linking Ho Chi Minh City with most provinces in the Mekong Delta. The Project's main objectives are to dredge and expand the canal (width of 80m & length of 28.5 km) and to build Bank Protection.

Our services include:

- Topographic & Hydrographical surveys.
- Geotechnical Investigation.
- Mathematical Modeling & Detailed Design.





# Southern Van Phong General Port



## Southern Van Phong General Port

Site: Van Phong Economic Zone, Khanh Hoa Province, Vietnam.

Owner: Thanh Yen Group

The deepest is 11meters, the piers is 234meters in length and 35meters in width, vessels, container ships with load up to 70,000DWT.

Our services include:

- Topographic, Bathymetricsurvey & Hydrographical surveys;
- Geotechnical Investigation;
- Feasibility Study&Basic Design, EIA Report;
- Computer simulation & modelling;
- Foundation analysis and Detailed design;
- Construction Supervision.





# Saigon Peninsula Project



## Saigon Peninsula Project

Site: Ho Chi Minh city, Vietnam.

Client: The Saigon Peninsula Group Corporation. Saigon Peninsula will feature a multifunctional park, an International Cruise Terminal, office towers, resort villas, apartment blocks, a hotel, and other functional areas and facilities.

Our services include:

- Project Management for Revetment.
- Topographic & Hydrographical surveys; Soil Investigation; Feasibility Study & Basic Design and Detailed Design for International Cruise Terminal for 50,000-60,000GRT Cruise Ships.





# Ong Keo Port



## Ong Keo Port

Site: Nhon Trach, Dong Nai, Vietnam.

Client: Long Thuan Investment Corp.

Ong Keo Port serves mainly coal transported from Indonesia, Australia ... The capacity was anticipated approximately 9.5 million tons annually.

### Our services include:

- Construction Supervision.
- Topographic and Soil Investigation, Feasibility Study & Basic Design for general cargo ports which including 1 berth for vessel up to 50.000DWT and 1 wharf for vessel 5.000DWT and barge up to 2.000DWT.





# Van Ninh General Port

## Van Ninh General Port

Site: Quang Ninh Province, Vietnam.

Client: Van Ninh International Port JSC.

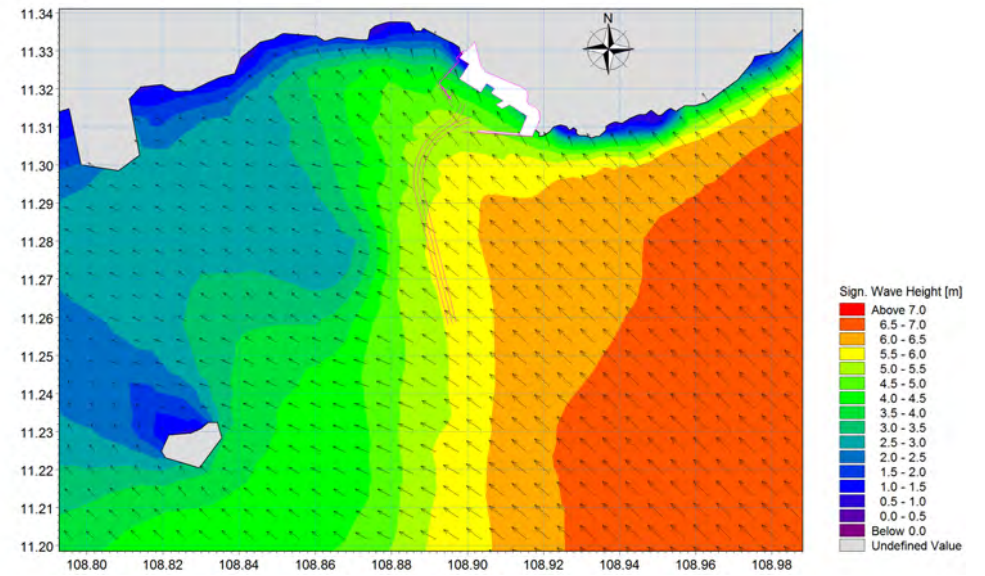
Multi-Van Ninh General Port and the port connecting road, Two development phases:

- Phase 1 (2019-2020): 02 berths for 20,000DWT vessels with total berth length of 500m, dredging of water basin, handling equipment and technical infrastructure equipped on the area of about 25 ha, port connecting road with a length of about 4 km.
- Phase 2 (2020 - 2022): 06 berths for 20,000DWT vessels with total berth length of 1,500m, dredging of water basin, handling equipment and technical infrastructure.

### Our services include:

- Topographic and Hydrographical Survey;
- Soil Investigation;
- Detailed Planning 1/500; Feasibility Study, Basic Design and Detailed Design.





# Ca Na General Port

## Ca Na General Port

Site: Ninh Thuan Province, Vietnam.

Client:

- Ninh Thuan Province Department of Transport (2016)
- Trung Nam Ca Na International Seaport Joint Stock Company

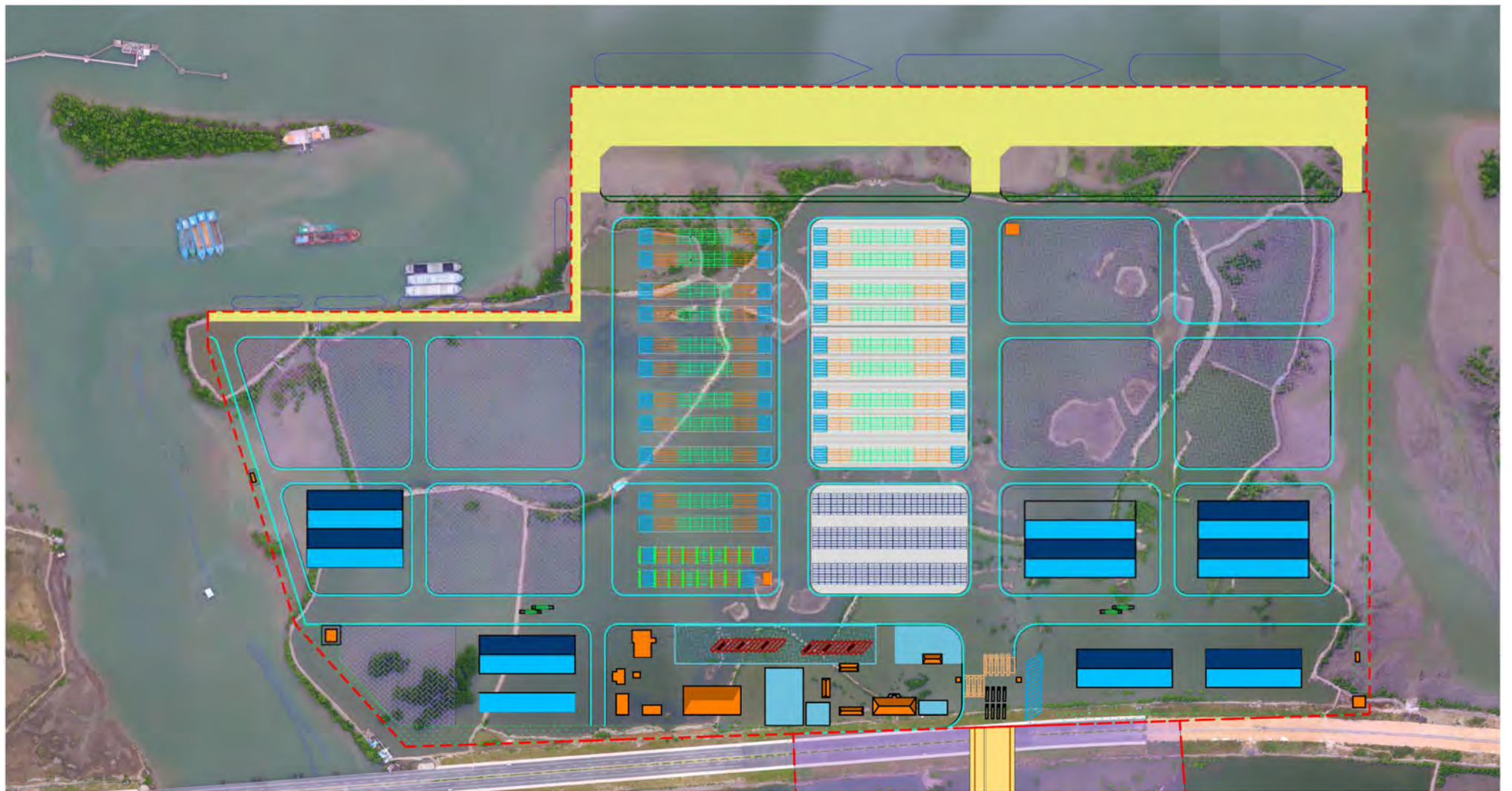
Ca Na - General Port is planned to be a multi-purpose port serving Ca Na Industrial Zone and im-export requirements of the province and nearby provinces.

The phase 1 of project comprise: Berth No. 1A & No. 1B with capacity up to 100.000 DWT.

Our services include:

- Detailed Planning 1/2000; Design for navigation channel, pilotage area.
- Topographic, Bathymetric Survey, Hydrographical Survey, Soil Investigation.
- Detailed Planning 1/500, Feasibility Study & Environmental Impact Assessment.
- Mathematical Modelling.
- Basic Design and Detailed Design - 100,000 DWT berth.
- Legal Procedures.





# My Xuan International General Port

## My Xuan International General Port

Site: Ba Ria-Vung Tau Province, Vietnam.

Client: Formosa International Development Corporation

2008: Development of a general and container port comprising 04 berths with total length of 1,100m, to accommodate vessels upto 60,000 DWT.

2019: Development of Phase 1 of the project comprising two 60,000 DWT general and container berths together with warehouse and yard system and auxiliary works to serve operation of the port. The total area is 91ha. The estimated cargo throughput is 2.6 million tons / year.

### Our services include:

- Topographic Survey, Soil Investigation;
- Feasibility Study, Environmental Impact Assessment, Detailed Design





# Sea Star International Seaport

## Sea Star International Seaport

Site: Ba Ria - Vung Tau Province, Vietnam.

Client: S.S.I.P CORP

Sea Star International Seaport is planned as an multi-purpose port on the total area of 68.0 ha with total berth length of 900m for 30,000 DWT vessels.

Phase 1 of the project focuses on the development of one 30,000 DWT berth covering on an area of 18.48 ha with total berth length of 235m. Estimated cargo throughput is 01 mil general cargo and 01 mil coal/year.

Our services include:

- Master plan Update;
- Topographic survey, Soil investigation;
- Feasibility Study preparation and Basic Design, EIA Report, Detailed Design for Phase 1.





# Phu My Inland Container Depot (ICD)



## Phu My Inland Container Depot (ICD)

Site: Phu My 3 Specialized Industrial Park, Phuoc Hoa Ward, Phu My Town, Ba Ria – Vung Tau Province

Client: Thanh Binh Phu My Joint Stock Company

Total area: 25 ha

Including 5 ports, Phu My ICD will provide services: storage, transshipment, warehousing, loading and unloading, and customs clearance, etc. for businesses in Phu My 3 Specialized Industrial Park and surrounding areas.

Our services include:

- Topographic and Bathymetric Survey;
- Investment Proposal, 1/500 Detailed Planning Preparation.





# Tay Ninh Logistics Center, ICD and General Port



## Tay Ninh Logistics Center, ICD and General Port

Site: Hung Thuan Commune, Trang Bang Town, Tay Ninh Province

Client: Tay Ninh International Logistics Corporation

Total area: 50.77 ha ICD, 160.85 ha Logistics Center, and 53.24 ha General Port to receive ships of 2,000 tons

Development of a modern Logistics Center, ICD and General port on the Saigon River at international level as a transshipment point for goods from ASEAN countries.

Our services include:

- Topographic and Bathymatric Survey;
- Detailed Planning 1/500 Prepration.





# My Xuan A Port



## My Xuan A Port

Site: My Xuan commune, Phu My town, Ba Ria - Vung Tau province

Owner: My Xuan International Port Ltd. (MIP)

Total area: 55ha

Berth length of up to 486m, and can handle international ships/barges and domestic ships/barges up to 30,000 DWT. And the dedicated barge berth can accommodate barge up to 2,500 DWT serving for domestic and foreign owners in My Xuan area, Phu My Town, Ba Ria-Vung Tau province.

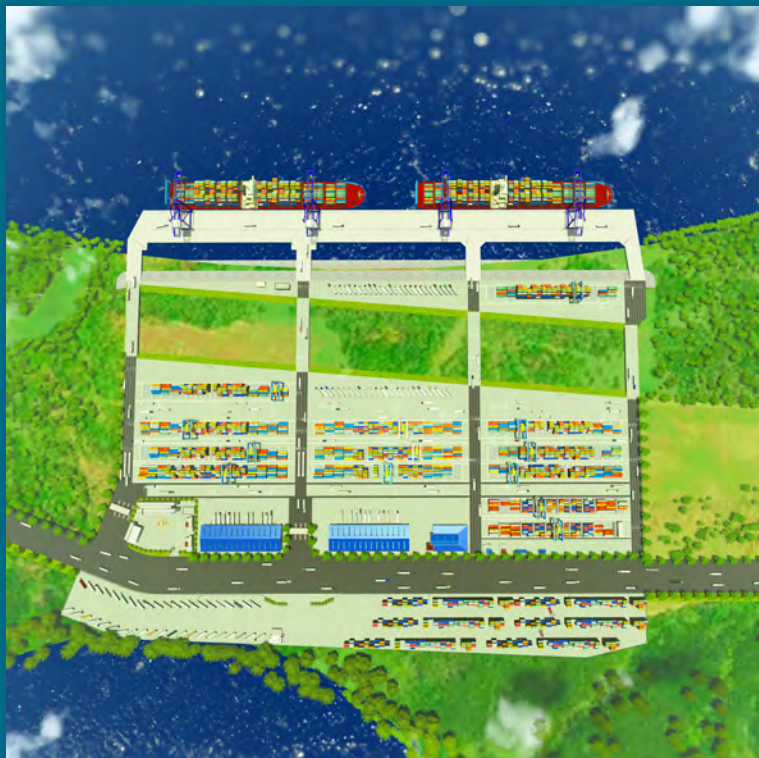
Our services include:

- Topographic survey, Geological survey, Hydrological survey;
- Detailed planning 1/500, Basic Design and Detailed Design;
- Construction permit.





# Phuoc An Port and Logistic zone



## Phuoc An Port and Logistic zone

Site: Nhon Trach District, Dong Nai Province

Client: PetroVietnam Phuoc An Port Investment & Operation Joint Stock Company (PAP)

Total area: 183ha

Total length of Berth is 670m, with 02 Container berths to accommodate 10,000 - 60,000 DWT vessel.

Our services include:

- 2009 - 2010: Detailed Plan with the scale of 1/2000 and 1/500, Investment report, and Feasibility Study & Basic Design
- 2020 - 2021: Topographic and Geotechnical Survey, Basic design, Detailed design and related legal procedures - Phase 2





# Gemadept - Terminal Link Cai Mep Terminal



## Gemadept - Terminal Link Cai Mep Terminal

Site: Ba Ria - Vung Tau Province, Vietnam.

Client: Gemadept - Terminal Link Cai Mep JSC.

Main project features: The Project studies the extension of Gemalink Terminal for a further towards downstream, and to upgrade container vessel size from 200,000DWT to 250,000DWT.

Our services include:

- Detailed planning on the scale of 1/500; Environment Impact Assessment Report and legal procedures
- Bathymetric survey; Soil investigation; Feasibility study report
- Environment Impact Assessment Report and legal procedures





# Cai Mep Ha Logistics Center



## Cai Mep Ha Logistics Center

Site: Ba Ria - Vung Tau Province, Vietnam.

Client: Department of Transport of Ba Ria - Vung Tau Province.

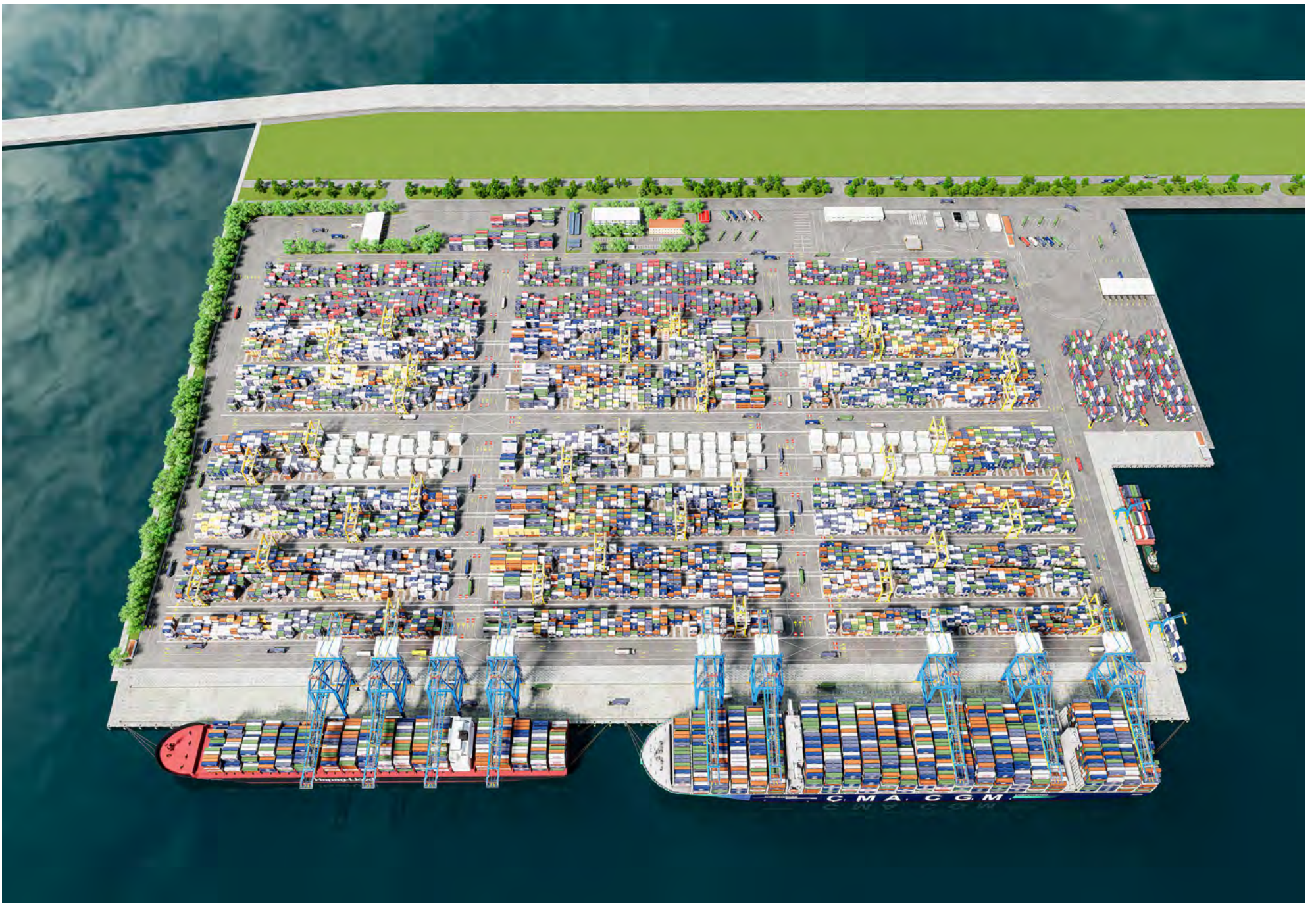
Total area: 1,763 ha; 5.76km (246 ha) berth for vessels up to 200,000DWT; 2.70km (90ha) berth for barges up to 5,000T.

Consultant J/V: Nippon Koei – Portcoast – Nippon Koei Vietnam

Our services include (2019 - 2020):

- Preparing Planning Task of Zoning plan at scale of 1/2,000
- Bathymetric Survey
- Preparing Zoning plan at scale of 1/2,000





# Berth number 5 & number 6 at Lach Huyen deep-sea port area belonging to Hai Phong Seaport



## Berth number 5 & number 6 at Lach Huyen deep-sea port area belonging to Hai Phong Seaport

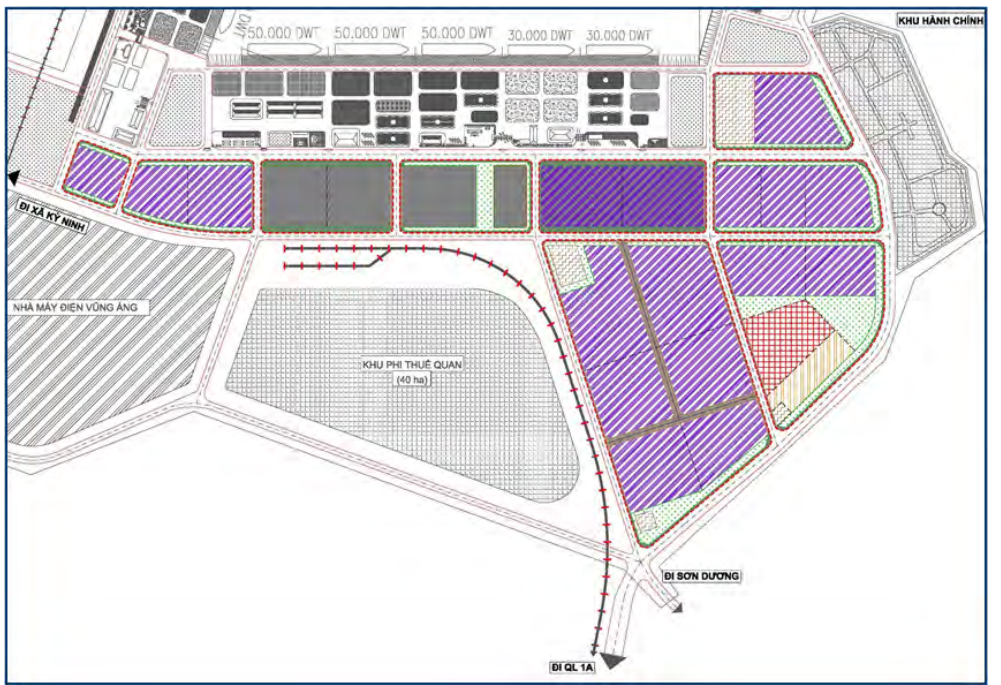
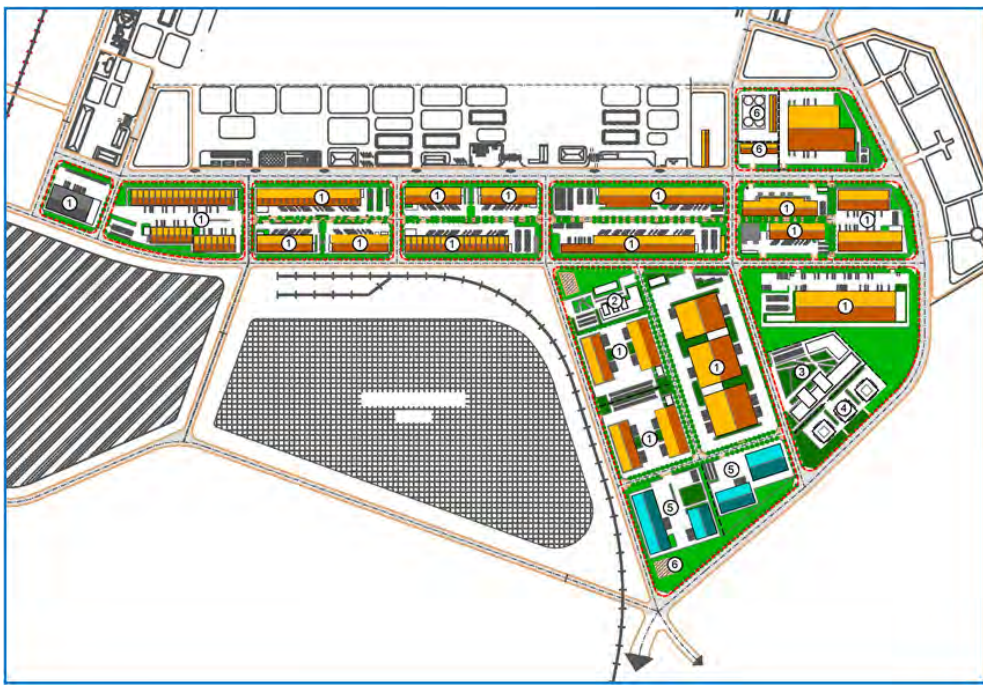
Site: Lach Huyen deep-sea port area, Cat Hai island, Hai Phong city, Vietnam.

Client: Hateco Group Joint Stock Corporation.  
Total area: Project goals are to invest and construct two container berths number 5 & number 6 capable to accommodate 18,000 TEUs vessels at Lach Huyen deep-sea port area, Hai Phong City

Our services include:

- Feasibility Study; Basic Design; Detail Design





# Vung Ang Logistics Center



## Vung Ang Logistics Center

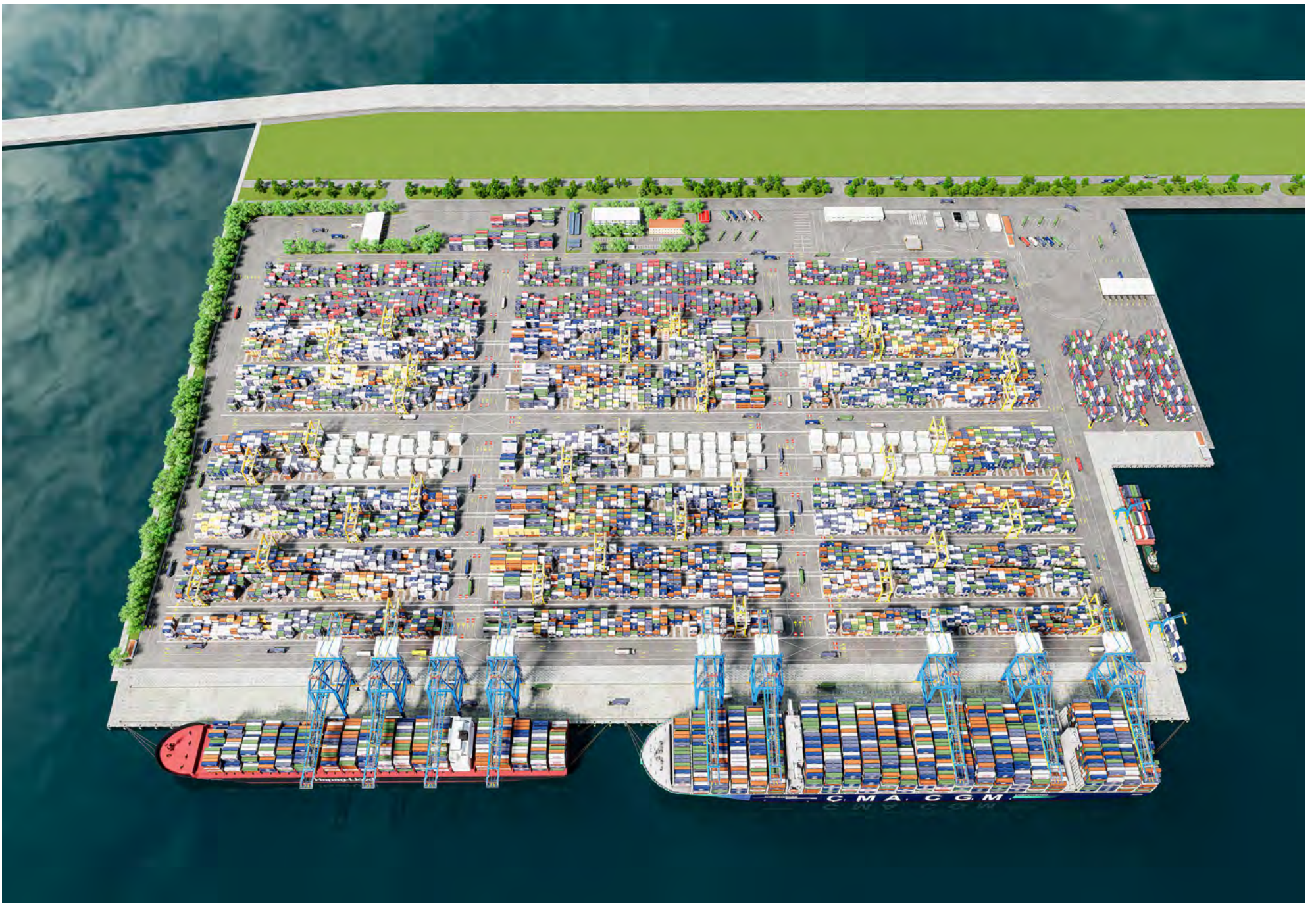
Site: Ha Tinh Province, Vietnam.

Client: Ha Tinh Province Investment and Development Fund.

Our services include:

- 2018: Basic design, Construction design of Survey and Data Collection about the Socioeconomic, Ports Infrastructure, Logistics Industry, Infrastructure of Transportation in Vung Ang and Ha Tinh province, Study Report Preparation.
- 2017-2018: Additional planning, Topographic survey, Soil investigation, Detailed Planning, Mathematical model.
- 2007-2008: Topographic survey, Soil investigation, Detailed Planning, Mathematical model.





# Berth number 5 & number 6 at Lach Huyen deep-sea port area belonging to Hai Phong Seaport



## Berth number 5 & number 6 at Lach Huyen deep-sea port area belonging to Hai Phong Seaport

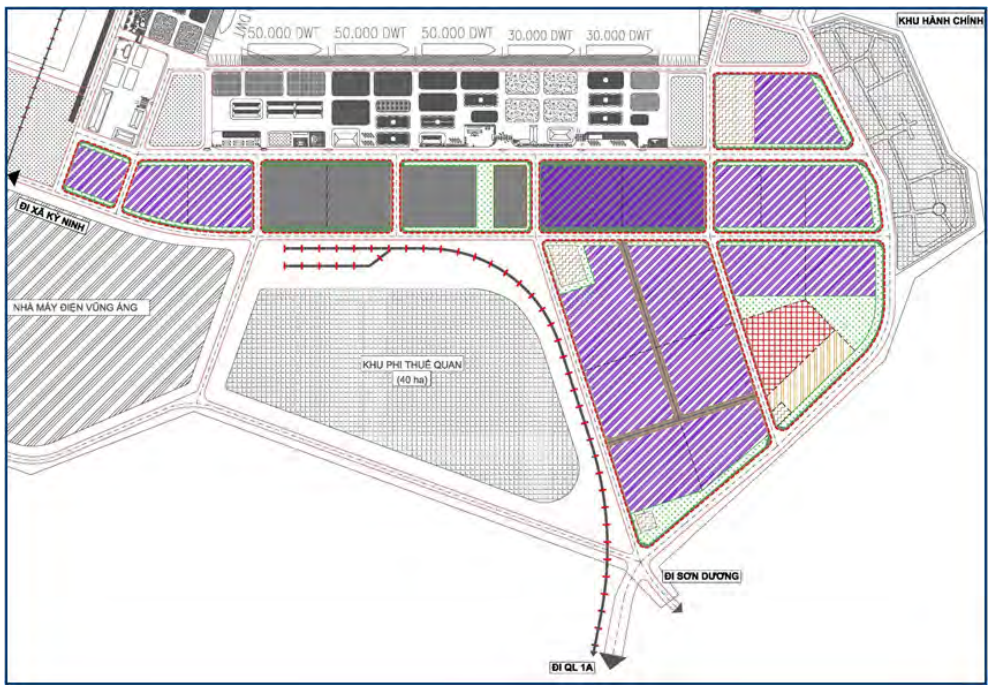
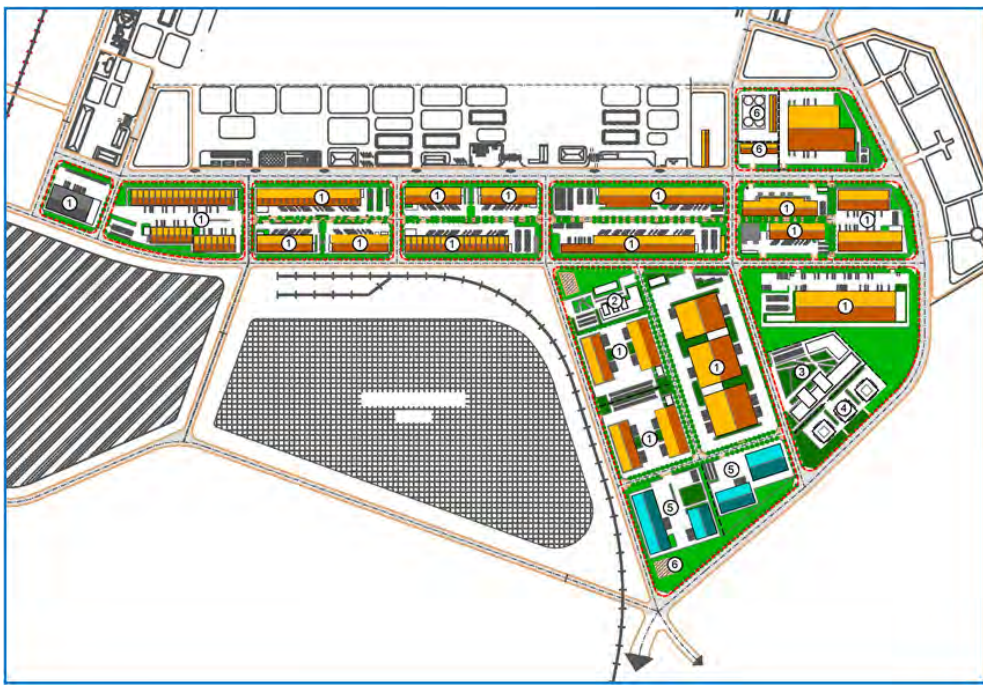
Site: Lach Huyen deep-sea port area, Cat Hai island, Hai Phong city, Vietnam.

Client: Hateco Group Joint Stock Corporation.  
Total area: Project goals are to invest and construct two container berths number 5 & number 6 capable to accommodate 18,000 TEUs vessels at Lach Huyen deep-sea port area, Hai Phong City

Our services include:

- Feasibility Study; Basic Design; Detail Design





# Vung Ang Logistics Center

## Vung Ang Logistics Center

Site: Ha Tinh Province, Vietnam.

Client: Ha Tinh Province Investment and Development Fund.

Our services include:

- 2018: Basic design, Construction design of Survey and Data Collection about the Socioeconomic, Ports Infrastructure, Logistics Industry, Infrastructure of Transportation in Vung Ang and Ha Tinh province, Study Report Preparation.
- 2017-2018: Additional planning, Topographic survey, Soil investigation, Detailed Planning, Mathematical model.
- 2007-2008: Topographic survey, Soil investigation, Detailed Planning, Mathematical model.



No.	Name of Projects	Location	Client / Owner	Our services	Contract Duration
I	<b>PROJECTS FOR PORT PLANNING</b>				
37	Phu My ICD Port Project	Ba Ria - Vung Tau Province	Thanh Binh Phu My Joint Stock Company	2020: Bathymetric survey, Investment Proposal and 1/500 Detailed Planning preparation. 2021: Bathymetric survey, Geotechnical Survey, Feasibility Study, Basic Design and Detailed design for Berth No.1	2020; 2021
36	Tan Thanh ICD and Logistics services area	Ba Ria - Vung Tau Province	Logistics Cai Mep Joint Stock Company	Adding port into Detailed planning of inland waterways; Topographic Survey and Soil Investigation; Feasibility Study Report and Basic Design; Environmental Impact Assessment Report; Detailed Design and Construction permit	2021
35	Vinh Long Petro Petroleum General Depot Port	Vinh Long Province	Vinh Long Petro Petroleum Company Limited	Topographic and Bathymetric survey, Soil Investigation, Adding port into Detailed planning of Mekong Delta Seaports Group, Feasibility Study Report and Basic Design Detailed Design	2021
34	Tay Ninh General Port, ICD port and Logistics services area	Tay Ninh Province	Tay Ninh International Logistics Corporation	Topographic Survey and Detailed Planning 1/500 Preparation	2021
33	Cai Mep Logistics Center and ICD port	Ba Ria - Vung Tau Province	Cai Mep International Logistics Ltd	Topographic Survey and Detailed Planning 1/500 Preparation	2021
32	Ca Na Port Area Phase 1 - Ca Na General Seaport	Ninh Thuan Province	Trung Nam Ca Na International Seaport Joint Stock Company	Adjustment of detailed planning of Ca Na port area phase 1	2021
31	My Xuan A International Port	Ba Ria - Vung Tau Province	My Xuan International Port Ltd	Topographic survey, Geological survey, Hydrological survey, Detailed Planning 1/500, Basic Design and Detailed Design and construction permit	2021
30	LNG terminal for Ca Na Power Complex	Ninh Thuan Province	Vietnam A&A Technology and Investment Company Limited	Master Planning Revision of LNG terminal for Ca Na Power Complex	2020
29	Son Duong Logistics Center and Services Project	Ha Tinh Province	Ha Tinh Economic Zone Authority	Topographic survey, Detailed Planning 1/500 preparation	2020
28	Phuoc Thuan General Domestic Port	Ba Ria - Vung Tau Province	Phuoc Thuan Logistics Service Port Joint Stock Company	Topographic and Geotechnical Survey, 1/500 Detailed planning, Basic design and Detailed design	2020
27	Cai Mep Ha Logistics Center Project	Ba Ria - Vung Tau Province	Department of Transport of Ba Ria - Vung Tau Province	2019: Preparation of Planning Task of Zoning Plan at scale of 1/2000 2020: Preparation of zoning plan with scale of 1/2000; Topographical Survey & Benchmark installation	2019 - 2020
26	Nha Trang Cruise Terminal	Nha Trang City	Nha Trang Terminal Joint Stock Company	Detailed Planning 1/500 for the 220,000 GT passenger terminal	2019
25	Mo Nhat Inland Waterway Port and General Warehouse	Ba Ria - Vung Tau Province	Dai Dat Trading Construction Company Limited	Topographic and Hydrographical Survey, Soil Investigation, Detailed Planning 1/500, Feasibility Study, Environmental Impact Assessment and Detailed Design	2019



No.	Name of Projects	Location	Client / Owner	Our services	Contract Duration
24	Van Ninh General Port	Quang Ninh Province	Van Ninh International Port JSC	Detailed Planning 1/500, Topographic and Hydrographical Survey, Soil Investigation, Feasibility Study, Basic Design and Detailed Design	2019
23	Hoa Binh - Bai Vong Cruise Terminal and Logistics Services Complex	Kien Giang Province	Hoa Binh Ham Ninh Joint Stock Company	Topographic survey, Soil investigation, Detailed Planning scale 1/500, Feasibility Study preparation and Detailed Design for phase 1	2016 - 2020
22	Long Son Petrochemical Port (LSP)	Ba Ria - Vung Tau Province	<ul style="list-style-type: none"> <li>- Long Son Petrochemicals Co., Ltd (LSP) (a Joint Venture between Siam Cement Group of Thailand, Qatar Petroleum and Petrovietnam</li> <li>- Posco Engineering and Construction Co., Ltd.</li> <li>- The Consortium of TPSK.</li> </ul>	<p>2008-2013: Topographic &amp; Hydrographical Survey and Hydrological Survey (02 times in 2008 &amp; 2009), Geotechnical Survey (04 times in 2008, 2009 and 2013) and Detail Planning in 2008;</p> <p>2012-2013: Mathematical model, Basic Design, EIA Report;</p> <p>2017-2018: Topographic &amp; Hydrographic Survey, Sub- bottom Profiling &amp; Soil Investigation, Detailed Design Review and Simulation Model, Magnetometer and Sidescan Sonar Survey - Package F</p> <p>2018: Topographic and Soil Investigation Survey -Package L</p> <p>2018 - 2020: Soil Investigation - Package A1</p> <p>2019 - 2021: Construction Supervision; Bathymetric Survey after Dredging and Design review - Package F</p>	2008-2013 & 2017, 2018, 2019 - 2021
21	Southern Van Phong General Port	Khanh Hoa Province	Thanh Yen - Van Phong Joint Stock Company	<p>2011: Topographic survey, Soil investigation, Detailed Planning, Feasibility Study preparation and Basic Design, EIA Report, Construction Supervision, Design of upgrading for wharf of 50,000 DWT.</p> <p>2018: Topographic survey, Soil investigation, Detailed Planning, Feasibility Study preparation and Basic Design, EIA Report, Construction Design for wharf of 20,000DWT and 5.000DWT.</p> <p>2018: Design of two-way navigational channel and turning basin for arrival of 70,000DWT vessels; Environmental Impact Assessment.</p> <p>2019: Port operation announcement</p> <p>2021: Survey and Design for berth No.2</p>	2011; 2018;2019 ;2021
20	Hoa Sen Ca Na - Ninh Thuan General Port	Ninh Thuan Province	<ul style="list-style-type: none"> <li>- Department of Transport - Ninh Thuan Province (2016)</li> <li>- Hoa Sen Group (2017)</li> </ul>	<p>2016: Topographic and Hydrographical Survey and Planning 1/2000</p> <p>2017-2019: Detailed Planning, 1/500, Topographic and Hydrographical Survey, Soil Investigation, Feasibility Study &amp; Environmental Impact Assessment; Mathematical Modelling; Detailed Design – 70,000 DWT berth</p>	2016; 2017 - 2019



No.	Name of Projects	Location	Client / Owner	Our services	Contract Duration
19	Detailed Planning for Seaports System - Group 5	Ho Chi Minh City, Dong Nai Province and Ba Ria Vung Tau Province	Vietnam Maritime Administration (Vinamarine)/Ministry of Transport (MOT)	2011: Survey and data collection about the Socioeconomic, Ports Infrastructure, Infrastructure of Transportation in Group 5, Master Planning Report Preparation; 2013: Master Planning Revision Report Preparation 2017: Master Planning Revision Report Preparation.	2010 2013 2017
18	Vinh Dam Complex	Kien Giang Province	Saigon Investment Construction And Commerce Co.Ltd & Toan Hai Van JSC.	- 2007-2008: Topographic survey, Soil investigation, Detailed Planning, Mathematical model - 2017-2018: Additional planning, Topographic survey, Soil investigation, Detailed Planning, Mathematical model - 2018: Basic design, Construction design of seaports No. 1 & 2 with a tonnage of 3,000 DWT - K1-K8 bank embankment, Chanel - Waterfront of the wharf and signaling buoys system - 2018: Topographic survey, Geophysical survey, Soil investigation, Hydrographic Survey for items of Ocean Lotus Island, Breakwater, Beaches 2A&2C	2007-2008 & 2017 - 2019
17	Rach Gia Cruise Terminal	Kien Giang Province	Kien Giang Province's Management Board for Transport Works	2016 - 2017: Topographic & Hydrographical Survey, Geotechnical Investigations, Detailed Plan with the scale of 1/500 2019: Topographical survey, Soil investigation, Feasibility Study	2016-2017; 2019
16	Ha Tien Terminal	Kien Giang Province	Department of Transport Kien Giang Province	Topographic & hydrographical Survey, Detailed Plan with the scale of 1/2000 and 1/500	2016-2017
15	Ninh Chu Terminal	Ninh Thuan Province	Department of Transport Ninh Thuan Province	Topographic & Hydrographical Survey, Plan with the scale of 1/2000	2016-2017
14	Cruise Terminal in Phu Quoc Island	Kien Giang Province	Vietnam Maritime Administration (Vinamarine)/Ministry of Transport (MOT) (2014), Department of Transport - Kien Giang province (2015-2018)	Topographic & Hydrographical Survey, Geotechnical Investigations, Computational Simulation and Modelling, Detailed Plan, Feasibility Study, Basic Design, EIA report, Foundation Analysis, Detailed Design and Construction Supervision.	2014-2020
13	Detail Planning of Logistics Service Development in Vung Ang Province and Overall Planning of Logistics Service Development in Ha Tinh Province	Ha Tinh Province	Ha Tinh Province Investment and Development Fund & Department of Transport - Ha Tinh Province	Survey and Data Collection about the Socio-economic, Ports Infrastructure, Logistics Industry, Infrastructure of Transportation in Vung Ang and Ha Tinh province, Study Report Preparation	2015-2016



No.	Name of Projects	Location	Client / Owner	Our services	Contract Duration
12	Detailed Planning for Seaports System in Mekong Delta (Group 6)	Mekong Delta	Vietnam Maritime Administration (Vinamarine)/Ministry of Transport (MOT)	2010: Survey and data collection about the Socioeconomic, Ports Infrastructure, Infrastructure of Transportation, Master Planning Report Preparation. 2015: Master Planning Revision Report Preparation.	2010 2015
11	FHS Son Duong Port	Ha Tinh Province	Owner: Formosa Ha Tinh Steel Corporation (FHS) Main Investor: Formosa Plastics Group, China Steel, JFE Steel / CECI Engineering Consultants, inc., Taiwan	2008 - 2010: Topographic Survey, Hydrographical Survey, Geotechnical Survey, Geophysical Survey, Hydrological Survey, Mathematical Modeling, Feasibility Report (Phase 1 & Phase 2) 2009 - 2013: Planning Preparation, Detailed Planning and Detailed Design of Son Duong Port (phase 1) with International Partner CECI Engineering Consultants.Inc. (Taiwan - China) 2016 - 2017: Hydrographical Survey. 2018 -2020: settlement monitoring	2008-2020
10	Vietnam Seaport System Master Plan till year 2020 and orientation to year 2030	Vietnam	Vietnam Maritime Administration (Vinamarine)/Ministry of Transport (MOT)	2007: Data Collection, Survey and Master Plan Preparation for Vietnam Seaport System till year 2020 and orientation to year 2030. 2013: Master Planning Revision Report Preparation	2007 2013
9	Logistics Development in the field of Transport till year 2020	Vietnam	Vietnam Maritime Administration (Vinamarine)/Ministry of Transport (MOT)	Survey and Data Collection about the Socio-economic, Ports Infrastructure, Logistics Industry, Infrastructure of Transportation on Nationwide; Study Report Preparation	2013
8	Logistics Development Scheme in Ba Ria Vung Tau province	Ba Ria - Vung Tau Province	Department of Transport - Ba Ria Vung Tau Province	Survey and Data Collection about the Socio-economic, Ports Infrastructure, Logistics Industry, Infrastructure of Transportation in Ba Ria Vung Tau Province, Study Report Preparation	2013
7	Planning of mud dumping sites in Ba Ria Vung Tau	Ba Ria - Vung Tau Province	Department of Transport Ba Ria - Vung Tau province	Detailed plan	2008 & 2010
6	Van Phong International Transshipment Port	Khanh Hoa Province	Vietnam National Shipping Lines & Vietnam Maritime Administration (Vinamarine)/ Ministry of Transport (MOT)	Topographic survey & hydrographical survey, Geotechnical investigations, Detailed Plan, Feasibility Study and Detailed design.	2005-2006 & 2007-2009
5	Phuoc An Port, Access Road and Logistics Area	Dong Nai Province	Phuoc An Port Investment and Operation JSC.	2009 - 2010: Detailed Plan with the scale of 1/2000 and 1/500, Investment report, and Feasibility Study & Basic Design 2020 - 2021: Topographic and Geotechnical Survey, Basic design modification and Detailed design - Package 1	2009 2021



No.	Name of Projects	Location	Client / Owner	Our services	Contract Duration
4	Infrastructure Investment in Hiep Phuoc Terminal in Hiep Phuoc Industrial Park	Ho Chi Minh City	Tan Thuan Industrial Promotion Co., Ltd (Tan Thuan IPC)	Detailed Plan	2008
3	Con Dao Island	Ba Ria - Vung Tau Province	Vietnam Maritime Administration (Vinamarine)/ Ministry of Transport (MOT)	Detailed Plan	2007
2	Overall and Comprehensive Study of Inland Waterway Development in Mekong Delta to 2010 and orientation to 2020	Mekong Delta	Vietnam Maritime Administration (Vinamarine)/ Ministry of Transport (MOT)	Overall Plan	2005
1	Coal and Thermal Power Plants in the South of Vietnam	South Vietnam	Vietnam Electricity (EVN)	Detailed Plan	2005
<b>II PROJECTS FOR SURVEY, FEASIBILITY STUDY, BASIC DESIGN, DETAILED DESIGN</b>					
95	Port No. 5 and Port No. 6 project of Lach Huyen Port Group in Hai Phong Seaport	Hai Phong City	Hateco Group JSC	Preparation of Feasibility Study, Detailed Design and Cost Estimates	2021
94	GEMALINK Container Terminal Vietnam	Ba Ria - Vung Tau Province	Gemadep Terminal Link Cai Mep Terminal Joint Stock Company	2007 - 2009: Topographic Survey, Geotechnical survey, Feasibility Study & Basic Design, EIA Report, Detailed Design 2021: Preparation of Marine Safety Plan for container vessel of 200,000 DWT entering Gemadep – Terminal Link Cai Mep Port 2021 - 2022: Detailed planning on the scale of 1/500; Bathymetric survey, soil investigation; Feasibility study report; Environment Impact Assessment Report and legal procedures (Gemadep – Terminal Link Cai Mep Port - Phase 2	2007; 2021-2022
93	Sai Gon Hiep Phuoc Port	Ho Chi Minh City	Sai Gon - Hiep Phuoc Port Joint Stock Company	2005 - 2011: Topographic & Hydrographical Survey, Geotechnical survey, Feasibility Study & Basic Design, EIA report, Detailed Design, Construction Supervision 2021: 3D laser scanning, 3D Modeling and Building Visualization for Port Digitization	2005 - 2011; 2021



No.	Name of Projects	Location	Client / Owner	Our services	Contract Duration
92	SP- SSA International Terminal (SSIT)	Ba Ria - Vung Tau Province	SP-SSA International Container Services Joint Venture Company (SSIT) (a Joint Venture of SSA Marine (USA), Saigon Port, and Vinalines)	2006 - 2012: Topographic & Hydrographical, Geotechnical survey, Feasibility Study & Basic Design, EIA report, Detailed Design, Construction Supervision, Tender documents and Project Management 2019: Structural inspection by 3D Laser Scan, Detailed design for demolition and reconstruction work, Project Management and Construction Supervision for the SSIT's berth after collision incident of the Fareast Honesty. 2020: Structural Verification for upgrading SSIT barge berth from 500 DWT to 2,500 DWT 2021: Preparation of structural assessment for existing quay deck, turning basin, navigational channel; Preparation of Maritime Safety Plan and Port Operation Announcement Decision to allow accommodation of vessels up to 200,000 DWT at SSIT	2006-2012; 2019; 2020; 2021
91	Cai Mep Ha Downstream Port	Ba Ria - Vung Tau Province	Saigon Newport One Member Limited Liability Corporation	Topographic and bathymetric survey, hydrological survey, numerical modelling and Pre-Feasibility study report	2021
90	Cai Mep Ha General and Terminal Terminal	Ba Ria - Vung Tau Province	Saigon Newport One Member Limited Liability Corporation	Topographic and bathymetric survey, hydrological survey, numerical modelling and Pre-Feasibility study report	2021
89	Ca Na LNG Power Center Phase 1 - 1500 MW and Ca Na LNG Port	Ninh Thuan Province	Trung Nam Construction Investment Corporation	- Soil investigation of 03 onshore drilling holes for Preparation of pre-feasibility study report of port construction items - Preparation of pre-feasibility study report of port construction items	2021
88	Ca Na Port Area Phase 1 - Ca Na General Seaport	Ninh Thuan Province	Trung Nam Ca Na International Seaport Joint Stock Company	- Modification of the detailed design of ancillary works in Phase 1 to serve the operation of Berth 1A and detailed design of synchronous infrastructure (including detailed cost estimates) - Adjustment of detailed planning of Ca Na port area phase 1 - Survey, design and port announcement decision for Ca Na General Seaport 1A - Topographic and Bathymetric survey, Hydrological survey, Soil Investigation detailed design for Ca Na General Seaport 1B - Detailed design of internal road for Ca Na General Seaport 1A	2021
87	Hon Dau luxury resort	Hai Phong City	Him Lam Corporation	Topographic and Bathymetric survey, Hydrological survey, Soil Investigation and wave transport modeling for design of embankment	2021



No.	Name of Projects	Location	Client / Owner	Our services	Contract Duration
86	Tan Thanh ICD and Logistics services area	Ba Ria - Vung Tau Province	Logistics Cai Mep Joint Stock Company	Adding port into Detailed planning of inland waterways; Topographic Survey and Soil Investigation; Feasibility Study Report and Basic Design; Environmental Impact Assessment Report; Detailed Design and Construction permit	2021
85	Vinh Long Petro Petroleum General Depot Port	Vinh Long Province	Vinh Long Petro Petroleum Company Limited	Topographic and Bathymetric survey, Soil Investigation, Adding port into Detailed planning of Mekong Delta Seaports Group, Feasibility Study Report and Basic Design Detailed Design	2021
84	Phuoc Dong Industrial Park and Port	Long An Province	IMG Phuoc Dong Joint Stock Company	2020: Topographic and Bathymetric survey and back filling quantity calculation 2021: Topographic and Bathymetric survey, Hydrological survey, Soil Investigation and design embankment, yard, and wharf for ships of 20,000 DWT for wharf, yard and embankment project	2020; 2021
83	Ca Na I LNG Combined Cycle Gas Turbine Power Plant (1500 Mw)	Ninh Thuan Province	Novatek Gas & Power Asia Pte Ltd	Topographic and Bathymetric survey, Hydrological survey and Soil Investigation	2021
82	Tra Vinh V1-2 48MW Offshore Wind Power Plant	Tra Vinh Province	HDEC-SINOHYDRO China Consortium	Permanent navigator design	2021
81	My Xuan A International Port	Ba Ria - Vung Tau Province	My Xuan International Port Ltd	Topographic survey, Geological survey, Hydrological survey, Detailed Planning 1/500, Basic Design and Detailed Design and construction permit	2021
80	PTSC Downstream Port	Ba Ria - Vung Tau Province	PT. Meindo Elang Indah	Inspection and assessment of the port structure of PTSC, running the real time model, navigation channel assessment, maritime safety measurement plan under the Sao Vang - Dai Nguyet project	2020 - 2021
79	Phuoc An port, Access Road and Logistics Area	Dong Nai Province	PetroVietnam Phuoc An Port Investment and Operation JSC.	2009 - 2010: Detailed Plan with the scale of 1/2000 and 1/500, Investment report, and Feasibility Study & Basic Design 2020 - 2021: Topographic and Geotechnical Survey, Basic design modification and Detailed design - Package 1	2009 2021
78	Port of Marine Mechanical Industry Service Zone	Ba Ria - Vung Tau Province	Hai Duong Company Limited	Planning and Feasibility Study Phase: Additional Planning, Topographic Survey and Soil Investigation, Feasibility Study Report and Basic Design Detailed Design Phase: Soil Investigation and Detailed Design - Phase 1	2020



No.	Name of Projects	Location	Client / Owner	Our services	Contract Duration
77	Vung Tau International Cruise Terminal	Ba Ria - Vung Tau Province	Department of Transport of Ba Ria - Vung Tau Province	Topographic survey, Bathymetric Survey, Hydrological Survey, Mathematical Modelling; Site selection and assessment	2020
76	Tra Vinh Phase 3 Project in Vietnam	Tra Vinh Province	Safelane Global Limited	Seaspy magnetometers và sidescan	2019; 2020
75	Son Duong Logistics Center and Services Project	Ha Tinh Province	Ha Tinh Economic Zone Authority	Topographic survey, Detailed Planning 1/500 preparation	2020
74	Phuoc Thuan General Domestic Port	Ba Ria - Vung Tau Province	Phuoc Thuan Logistics Service Port Joint Stock Company	Topographic and Geotechnical Survey, 1/500 Detailed planning, Basic design and Detailed design	2020
73	Phu My ICD Port Project	Ba Ria - Vung Tau Province	Thanh Binh Phu My Joint Stock Company	2020: Bathymetric survey, Investment Proposal and 1/500 Detailed Planning preparation. 2021: Bathymetric survey, Geotechnical Survey, Feasibility Study, Basic Design and Detailed design for Berth No.1	2020; 2021
72	Cai Mep Ha Logistics Center Project	Ba Ria - Vung Tau Province	Department of Transport of Ba Ria - Vung Tau Province	2019: Preparation of Planning Task of Zoning Plan at scale of 1/2000 2020: Preparation of zoning plan with scale of 1/2000; Topographical Survey & Benchmark installation	2019 - 2020
71	Bao Long – Phu My Domestic Port	Ba Ria – Vung Tau Province	Bao Long – Phu My Investment And Development Company Limited	Basic Design and Detailed Design, 1/500 detailed Planning, Construction Supervision	2020 - 2021
70	Coal Transshipment Terminal for Thermal Power Plants in Mekong Delta	Tra Vinh Province	Vietnam National Coal - Mineral Industries Group (Vinacomin) SUMITOMO Corporation EVN/ Power Project Management 2	2011 – 2014; 2015 – 2016: Topographic & Hydrographic survey, Soil Investigation, Feasibility Study & Basic Design 2020: Study for site selection for coal transshipment terminal	2011 - 2014 2015-2016 2020
69	Tra Vinh 78mw Offshore Wind Farm Project	Tra Vinh Province	PowerChina International Group Limited Hiep Thanh Wind	Hydrological Survey; Temporary jetty design, permit, consultant and permanent navigator design, permit; Geo-physical survey	2019-2020



No.	Name of Projects	Location	Client / Owner	Our services	Contract Duration
68	Binh Dai Wind Power Plan Project	Ben Tre Province	PowerChina International Group Limited Binh Dai Wind	Hydrological Survey, Seabed And Coastal Erosion Study; Temporary jetty design, permit, consultant and permanent navigator design, permit; Geo-physical survey	2019-2020
67	Thanh Long Bay Resort Complex	Binh Thuận Province	Nam Investment Joint Stock Company	2019: Bathymetric Survey and Soil Investigation 2020: Topographic survey, Geological survey, Hydrological survey, Mathematical Modelling, Pre-feasibility Study report, Feasibility Study report, Basic Design, Detailed Design for Breakwater and Marina.	2019-2020
66	Professional Study Service For Supply Base Site Selection	Kien Giang Province	Phu Quoc Petroleum Operating Company (PQPOC)	Potential Site Assessment, Existing Ports Status and Port Development Plan Updates, Assessment of ability of the existing and planned ports, Transportation Assessment.	2019
65	Prime Resorts And Hotels	Khanh Hoa Province	Cam Lam Investment Co., Ltd	Laser Scan and Building Information Model (BIM) for current status of the Prime Resorts and Hotels	2019
64	Quang Binh Wind Farm	Quang Binh Province	B&T Wind Farm Joint Stock Company	Geological-Geotechnical site investigations and Laboratory test, Geophysical survey	2019
63	Mo Nhat Inland Waterway Port and General Warehouse	Ba Ria - Vung Tau Province	Dai Dat Trading Construction Company Limited	Topographic and Hydrographical Survey, Soil Investigation, Detailed Planning 1/500, Feasibility Study, Environmental Impact Assessment and Detailed Design	2019
62	Van Ninh General Port	Quang Ninh Province	Van Ninh International Port JSC	Detailed Planning 1/500, Topographic and Hydrographical Survey, Soil Investigation, Feasibility Study, Basic Design and Detailed Design	2019
61	My Xuan International General Port Project	Ba Ria - Vung Tau Province	Formosa International Development Corporation	Topographic Survey, Geological Investigation, Feasibility Study, Environmental Impact Assessment, Detailed Design and Port Construction License	2008-2010 2018-2020
60	Long Son LNG Complex	Ba Ria - Vung Tau Province	The Power Engineering Consulting Joint Stock Company.	Study and assessment of the maritime traffic and assessment of the possibility of LNG vessels to operate at the area.	2018
59	UPC-Vinh Loi / Wind Farm	Bac Lieu Province	UPC Vietnam (HK) Limited	Geotechnical Work	2018
58	PTSC Downstream Port	Ba Ria - Vung Tau Province	McDERMOTT ASIA PACIFIC SDN BHD	Inspection and assessment of the port structure of PTSC and Vietsopectro, running the real time model, navigation channel assessment, maritime safety measurement plan under the Sao Vang - Dai Nguyet project	2018 - 2019
57	Saigon Co.op port	Ho Chi Minh City	Saigon Co-op Cooperation	Topographic survey, Soil investigation and Feasibility Study preparation	2018



No.	Name of Projects	Location	Client / Owner	Our services	Contract Duration
56	Sea Star International Seaport	Ba Ria - Vung Tau Province	S.S.I.P CORP	2009; 2018: Additional planning, Topographic survey, Soil investigation, Feasibility Study preparation and Basic Design, EIA Report, Detailed Design for Phase 1, Construction License 2021: Project Management Service for Soil Improvement Construction	2009 & 2018 & 2021
55	Hoa Binh Bai Vong passenger port and logistic service complex	Kien Giang Province	Hoa Binh Ham Ninh Joint Stock Company	- Topographic survey, Soil investigation, Detailed Planning scale 1/500, Feasibility Study preparation and construction design - Stage 1. - Construction supervision	2016 - 2020
54	Duyen Hai 1 thermal Power Plant (1,245MW) - Coal Unloading Jetty	Tra Vinh Province	GENCO 1 - Vietnam Electricity (EVN)	Topographic and Hydrographical survey, Soil Investigations, Geophysical Survey, Hydrological survey, Feasibility Study & Basic Design, EIA report, Tender Preparation and Evaluation, Detailed Design Review, Construction Supervision.	2009-2017
53	Cai Mep International Terminal (CMIT)	Ba Ria - Vung Tau Province	Cai Mep International Terminal Ltd., Co. (a Joint Venture of APM Terminals, Vinalines and Saigon Port)	2006 - 2012: Topographic & Hydrographical Survey, Geotechnical survey, Feasibility Study & Basic Design, EIA report, Detailed Design Review, Construction Supervision, Tender documents and Project Management 2016: Structural Appraisal for Berth, First Time, 5 Year Interval 2018: Mathematical Modelling, Real Time Simulation and Maritime Safety Plan Preparation of 180,000 TEU Vessel 2020: Structural Appraisal of the Existing CMIT Terminal and Maritime Safety Plan Preparation for Capability Possibilities Study of CMIT Terminal to Accommodate 214,000 TEU Vessel 2021: Extension of testing and commissioning period of CMIT Terminal to accommodate upto 214,121 DWT vessels and Operation Announcement Obtainment for CMIT Terminal to accommodate upto 214,121 DWT vessels	2006-2012; 2016; 2018; 2020; 2021
52	Duyen Hai 3 thermal Power Plant (660MW) - Coal Unloading Jetty	Tra Vinh Province	GENCO 1 - Vietnam Electricity (EVN)	Detailed Design Coal Unloading Jetty – Trestle to Accommodate 30,000DWT Bulk Carriers; Sedimentation Study of waterfront Area and CW Intake Canal	2015-2017
51	Myanmar International Terminals Thilawa Port (MITT)	Yangon, Myanmar	Myanmar International Terminals Thilawa (MITT) / China Harbour Engineering Co. (CHEC)	Inspection existing structure of MITT Port (Section S6 & S7): Piles, Beams, Deck slabs, Quay crane tracks, Bollards & Fenders..., Verify load carrying capacity of wharf structure Detailed design for additional tie-down for new quay cranes & RTG cranes.	2017



No.	Name of Projects	Location	Client / Owner	Our services	Contract Duration
50	Long Son Petrochemical Port (LSP)	Ba Ria - Vung Tau Province	<ul style="list-style-type: none"> <li>- Long Son Petrochemicals Co., Ltd (LSP) (a Joint Venture between Siam Cement Group of Thailand, Qatar Petroleum and Petrovietnam</li> <li>- Posco Engineering and Construction Co., Ltd.</li> <li>- The Consortium of TPSK.</li> </ul>	<p>2008-2013: Topographic &amp; Hydrographical Survey and Hydrological Survey (02 times in 2008 &amp; 2009), Geotechnical Survey (04 times in 2008, 2009 and 2013) and Detail Planning in 2008;</p> <p>2012-2013: Mathematical model, Basic Design, EIA Report;</p> <p>2017-2018: Topographic &amp; Hydrographic Survey, Sub- bottom Profiling &amp; Soil Investigation, Detailed Design Review and Simulation Model, Magnetometer and Sidescan Sonar Survey - Package F</p> <p>2018: Topographic and Soil Investigation Survey -Package L</p> <p>2018 - 2020: Soil Investigation - Package A1</p> <p>2019 - 2021: Construction Supervision; Bathymetric Survey after Dredging and Design review - Package F</p>	2008-2013 & 2017, 2018, 2019 - 2021
49	Lach Huyen Port Infrastructure Construction Project	Hai Phong City	Vietnam Maritime Administration (Vinamarine)/ Ministry of Transport (MOT)	<p>- 2010-2015: Feasibility Study Review, Updated Feasibility Study Review, Detailed Design Review - Client: Vinamarine (Presented by Project Management Unit No.2);</p> <p>- 2011: Soil investigation, Hydrological Survey for the Detailed Design - Client: Jica Study Team (Presented by Oriental Consultants Co. Ltd.);</p> <p>- 2013-2017: Construction Supervision (JV comprising Nippon Koei, JPC, Portcoast and NK Vietnam) - Client: Vietnam MOT (Presented by Project Management Unit No.2)</p>	2010-2019
48	Southern Van Phong General Port	Khanh Hoa Province	Thanh Yen - Van Phong Joint Stock Company	<p>2011: Topographic survey, Soil investigation, Detailed Planning, Feasibility Study preparation and Basic Design, EIA Report, Construction Supervision, Design of upgrading for wharf of 50,000 DWT.</p> <p>2018: Topographic survey, Soil investigation, Detailed Planning, Feasibility Study preparation and Basic Design, EIA Report, Construction Design for wharf of 20,000DWT and 5.000DWT.</p> <p>2018: Design of two-way navigational channel and turning basin for arrival of 70,000DWT vessels; Environmental Impact Assessment.</p> <p>2019: Port operation announcement and Channel Opening Announcement for 70,000 DWT Berth</p> <p>2021: Survey and Design for berth No.2</p>	2011; 2018;2019 ;2021



No.	Name of Projects	Location	Client / Owner	Our services	Contract Duration
47	Saigon Peninsula Project	Ho Chi Minh City	The Saigon Peninsula Group Corporation	Topographic and Hydrographical survey, Soil Investigation, Feasibility Study & Basic Design, EIA report and Detailed Design for International Cruise Terminal for 50.000- 60.000GRT Cruise Ships. Project Management for Revetment.	2016-2018
46	Hyosung Vina Chemicals Port	Ba Ria - Vung Tau Province	Hyosung Corporation/Hyosung Vina Chemicals Co., Ltd	Planning Add, Topographic and Hydrographical survey, Soil Investigation, Feasibility Study & Basic Design, Environmental Impact Assessment Report; Hydrodynamic modelling & Ship Maneuvering Simulation Study, Detailed Design; Construction Supervision; Port Operation announcement; Surveying and inspecting construction quality of revetment structure and soft soil improvement	2016-2017; 2019
45	Hoa Sen Ca Na - Ninh Thuan General Port	Ninh Thuan Province	- Department of Transport - Ninh Thuan Province (2016) - Hoa Sen Group (2017)	2016: Topographic and Hydrographical Survey and Planning 1/2000 2017-2019: Detailed Planning, 1/500, Topographic and Hydrographical Survey, Soil Investigation, Feasibility Study & Environmental Impact Assessment; Mathematical Modelling; Detailed Design – 70,000 DWT berth	2016; 2017 - 2019
44	ICD Long Binh Transshipment Port Project	Ho Chi Minh City	Duc Khai Corporation	Detailed Planning 1/500, Topographic Survey, Soil Investigation, Hydrological Survey, Feasibility Study for Phase 1	2016-2017
43	Cai Mep General Port	Ba Ria - Vung Tau Province	Thuan Hai Corporation	Topographic & Hydrographic Survey, Soil Investigation, Feasibility Study & Basic Design, Detailed Design	2016-2017
42	PTSC Downstream Port	Ba Ria - Vung Tau Province	PTSC Mechanical & Construction Co., Ltd. (PTSC M&C)	2017: Provision of Technical Consultancy Service for Marine Spread Going Inward/Outward of Song Dinh Channel and Berthing at PTSC Downstream Port 2021: Inspection and Structural verification	2017; 2021
41	Vinh Dam complex project	Kien Giang Province	Saigon Investment Construction And Commerce Co.Ltd & Toan Hai Van JSC.	- 2007-2008: Topographic survey, Soil investigation, Detailed Planning, Mathematical model - 2017-2018: Additional planning, Topographic survey, Soil investigation, Detailed Planning, Mathematical model - 2018: Basic design, Construction design of seaports No. 1 & 2 with a tonnage of 3,000 DWT - K1-K8 bank embankment, Chanel - Waterfront of the wharf and signaling buoys system - 2018: Topographic survey, Geophysics survey, Soil investigation, Hydrographic Survey for items of Ocean Lotus Island, Breakwater, Beaches 2A&2C	2007-2008 & 2017 - 2019



No.	Name of Projects	Location	Client / Owner	Our services	Contract Duration
40	Rach Gia Cruise Terminal	Kien Giang Province	Kien Giang Province's Management Board for Transport Works	2016 - 2017: Topographic & Hydrographical Survey, Geotechnical Investigations, Detailed Plan with the scale of 1/500 2019: Topographical survey, Soil investigation, Feasibility Study	2016-2017; 2019
39	Ha Tien Terminal	Kien Giang Province	Department of Transport Kien Giang Province	Topographic & Hydrographical Survey, Detailed Plan with the scale of 1/2000 and 1/500	2016-2017
38	Comprehensive Development Project for Cai Mep - Thi Vai Navigational Channel	Ba Ria - Vung Tau Province	Vietnam Maritime Administration (Vinamarine)/ Ministry of Transport (MOT)	Topographic & Hydrographical survey, Soil Investigation, Hydrological Survey, Feasibility Study, Basic Design, Hydrodynamic Model, Fast-time & Real-time Simulation in Channel Design	2012-2016
37	Nghi Son Refinery and Petrochemical Complex (NSRP)	Thanh Hoa Province	Nghi Son Refinery and Petrochemical LLC / JGCS Corporation/Toyo Construction Co., Ltd.	Site Selection, Preliminary Design of Marine Structures (Loading/Unloading Jetties, Construction Phase's Quays, Approach Channel and Single Point Mooring); Topographic & Hydrographic Survey, Side scan & Sub bottom Profile survey, Wave & Current Monitoring, Hydrological Survey, and Geotechnical Survey.	2003-2016
36	Cruise Terminal in Phu Quoc Island	Kien Giang Province	Vietnam Maritime Administration (Vinamarine)/ Ministry of Transport (MOT) (2014), Department of Transport - Kien Giang Province (2015-2018)	Topographic & Hydrographical Survey, Geotechnical Investigations, Computational Simulation and Modelling, Detailed Plan, Feasibility Study, Basic Design, EIA report, Foundation Analysis, Detailed Design and Construction Supervision.	2014-2020
35	Phu My Port	Ba Ria - Vung Tau Province	Ba Ria Joint Stock Company of Services for Import Export of Agro - Forestry Products and Fertilizers (Baria Serece)	<ul style="list-style-type: none"> <li>- 2005 - 2006: Topographic survey, Soil investigation, Basic design, Construction design for vessels of 60.000 DWT</li> <li>- 2009: Survey and inspection on the existing jetty, EIA report and design of upgrading for wharf of 80,000 DWT.</li> <li>- 2015: Monitoring displacement of bridge segment 103M Phu My Port in the moving process of cranes</li> <li>- 2015 - 2016: Assessment of damage level of the segment 103m; Survey, design dismantling and repair design of segment 103m of Phu My Port.</li> <li>- 2017 - 2018: Inspection of upgrading Phu My jetty to accommodate ships with a maximum capacity of 80,000 DWT; Upgrading river pier No. 2 - Phu My port to 1,500-2,000 DWT; Inspection on River Pier No. 5 and construction maintenance process</li> <li>- 2020: Inspection and verification, 3D laser scanning and design for reinforcing structures for 72m trestle and 132m jetty service</li> <li>- 2021: Study on the cargo handling capacity enhancement of Baria Serece port</li> </ul>	2005-2018; 2020; 2021



No.	Name of Projects	Location	Client / Owner	Our services	Contract Duration
34	Vietnam Lee & Man Paper International Port	Hau Giang province	Vietnam Lee & Man Paper MFG. Ltd. (Hong Kong)	Topographic & Hydrographical survey, Geotechnical Investigation, Detailed Planning, Feasibility Study, Basic Design, EIA Report, Detailed Design	2014-2016
33	Chan May Port - Upgrading Existing Jetty	Hue Province	Royal Caribbean Cruise Ltd. /Chan May Port Ltd., Co.	Data collection, Topographic & Hydrographical Survey, Side Scan survey, Feasibility Study and Basic Design, Detailed Design, Tender Document, Construction Supervision.	2014-2016
32	Cho Gao Canal Upgrading Project	Tien Giang Province	Ministry of Transport (MOT)	Topographic and Hydrographical survey, Geotechnical Investigation, Mathematical Modeling & Detailed Design.	2010-2016
31	Ong Keo General Port	Dong Nai Province	Long Thuan Investment Corporation.	2015 - 2016: Topographic & Hydrographic survey, Soil investigation, Environmental Impact Assessment, Feasibility Study & Basic Design, Detailed Design; 2018: Construction Supervision for 5,000 DWT barge berth; 2020: Structural inspection survey and verification report, Maritime Safety Report preparation for internal berth to receive ships of up to 5,000 DWT; Topographic survey, Geotechnical survey and modification design for outer berth to receive ships of 50,000 DWT and barges of 20,000 DWT.	2015-2016 & 2018 & 2020
30	Annual Dredging and Maintenance of Navigation Channels	Hai Phong, Sai Gon - Vung Tau, Vung Tau - Thi Vai, Quy Nhon, Nghi Son, Dinh An - Can Tho, Da Nang, Soai Rap - Hiep Phuoc, Anh Thoi channel	Southern Vietnam Maritime Safety Corporation (VMS-S) & Vietnam Maritime Administration (Vinamarine)/ Ministry of Transport (MOT)	Hydrographical survey	2013 - 2020
29	The Kampot Port Project (KSP)	Kampot, Cambodia	TRY PHEAP GROUP CO., LTD.	2016 - 2017: Topographic survey, Port planning and Preparation of bidding documents 2017 - 2018: Installation of navigation aids at Papa Petroleum Port	2016-2017 & 2017 - 2019
28	Establishment of Navigational Channel and Maritime Signal System for Dong Tranh River and Navigational Channel from Tat Ong Cu - Tat Bai Confluence to Go Gia River	Ho Chi Minh City	Southern Vietnam Maritime Safety Corporation (VMS-S)	Topographic & Hydrographical Survey, Geotechnical Investigation, Construction Economic Technical Report.	2014-2015



No.	Name of Projects	Location	Client / Owner	Our services	Contract Duration
27	Mekong Delta Region Urban Upgrading Project (MDR-UUP) - My Tho city sub-project - Item of Tien River Embankment	Tien Giang Province	Project Management Unit of Mekong Delta Region Urban Upgrading Project (MDRUUP) - My Tho city sub-project	Topographic & Hydrographical Survey, Geotechnical Investigation, Geophysical Survey, Hydrological Survey, Modifying the basic design, Detail Design and Tender Document	2014-2015
26	Vinh Tan Power Complex Infrastructure Project - Coal Unloading Jetty for Vinh Tan 2 Thermal Power Plant (2x622MW)	Binh Thuan Province	GENCO 3 - Vietnam Electricity (EVN)	Detailed Design Review and Construction Supervision	2012-2015
25	Vinh Tan Power Complex Infrastructure Project - Land reclamation for Vinh Tan 4 thermal Power Plant (2x600MW)	Binh Thuan province	GENCO 3 - Vietnam Electricity (EVN)	Detailed Design Review and Construction Supervision	2014-2015
24	The Improvement project of Navigational Channel to the Bassac River	Tra Vinh Province	Vietnam Maritime Administration Vinamarine) - Ministry of Transport (MOT)	2004: Soil Investigation, Topographic, Hydrographic & Hydrological survey (SNC-Lavalin is a Leader of JV) Client: Project Management Unit of Waterways - Vietnam MOT 2005-2015: Topographic & Hydrographical Survey, Geotechnical Investigation, Geophysical Survey, Hydrological Survey, Feasibility Study & Basic Design, Mathematical Modeling, Detail Design, Construction Supervision. Client: Maritime Project Management Unit 3 - Vinamarine - Vietnam MOT	2005-2014
23	Tien Sa port extension and upgrade project	Da Nang City	Da Nang Port SJC. & Project Management Unit 85 - Ministry of Transport (MOT)	Topographic survey & hydrographical survey; Geotechnical survey, Feasibility Study Preparation & Basic Design; Environmental Impact Assessment, Site clearance	2013-2014
22	FHS Son Duong Port	Ha Tinh Province	Owner: Formosa Ha Tinh Steel Corporation (FHS) Main Investor: Formosa Plastics Group, China Steel, JFE Steel / CECI Engineering Consultants, inc., Taiwan	2008 - 2010: Topographic Survey, Hydrographical Survey, Geotechnical Survey, Geophysical Survey, Hydrological Survey, Mathematical Modeling, Feasibility Report (Phase 1 & Phase 2) 2009 - 2013: Planning Preparation, Detailed Planning and Detailed Design of Son Duong Port (phase 1) with International Partner CECI Engineering Consultants.Inc. (Taiwan - China) 2016 - 2017: Hydrographical Survey. 2018 -2020: settlement monitoring	2008-2020
21	Study for Port Project in Cambodia (SITC)	Sihanoukville, Cambodia	Confidential	Topographic & Hydrographic Survey, Geotechnical Investigation, Hydrological Survey, Numerical Modeling, Basic Design	2012-2013



No.	Name of Projects	Location	Client / Owner	Our services	Contract Duration
20	Pilot Pick-up and Drop- off Zone in Ba Ria - Vung Tau Province	Ba Ria - Vung Tau Province	Vung Tau Port Authority - Vinamarine	Topographic & Hydrographical survey	2013
19	Saigon International Terminals Vietnam (Hutchison Ports SITV)	Ba Ria - Vung Tau Province	Saigon International Terminals Vietnam Limited (SITV)	Topographic & Hydrographical survey, Geotechnical survey, Feasibility Study & Basic Design, EIA report, Detailed Design Review, Construction Supervision, Tender documents, Instruments and monitoring works during the construction implementation; Engineering work for upgrading up to 100,000DWT vessels berthing; Structural appraisal for berth, first time, 5 year interval; Design review, EIAR preparation and Independent Site Audit for Twilight warehouse; Port Announcement for 100,000 DWT Vessel Accommodation	2006-2012, 2015-2017 & 2018-2019
18	Cai Lan International Container Terminal (CICT)	Quang Ninh Province	Cai Lan International Container Limited Liability Company (CICT) (a Joint Venture of SSA Marine (USA), Vinalines and Quang Ninh Port)	Topographic & Hydrographical Survey, Geotechnical Investigation, Feasibility Study & Basic Design, EIA report, Detailed Design, Construction Supervision, Tender Documents and Project Management	2008-2012
17	Posco Port (Posco Vietnam and Posco SS - Vina)	Ba Ria - Vung Tau Province	Posco Vietnam Co. Ltd and Posco SS VINA Co., Ltd (Two of the main affiliates of Posco - South Korea)	Topographic & Hydrographical Survey, Geotechnical survey, Feasibility Study & Basic Design, EIA report, Detailed Design Verification of the existing berth structure for 60,000DWT vessels berthing Topographic Survey and Construction 2013 - 2017: Supervision for annually dredging 2018: Port maintenance procedure preparation 2019: On the preparation of environmental impact assessment report for dumping dredged material within Posco Vietnam Co., Ltd's land area	2006-2008; 2012-2017; 2018; 2019
16	SP-PSA International Port (SP-PSA)	Ba Ria - Vung Tau Province	SP-PSA International Port Company Ltd. (a Joint Venture of PSA Singapore, Vinalines and Saigon Port)	2006 - 2009: Topographic & Hydrographical Survey, Geotechnical investigation, Feasibility Study & Basic Design, EIA report, Detailed Design 2016 - 2017: Specifying the capacity of general cargo vessels equivalent to container vessel of 120,000 DWT in/out - 2020: Port Structural verification	2006-2009 2016-2017 2020



No.	Name of Projects	Location	Client / Owner	Our services	Contract Duration
15	PVGas Port	Ba Ria - Vung Tau Province	PetroVietnam Gas Corporation (PVGAS)	2012: Site survey of existing structure, bathymetric survey, Basic Design, FEED Design and cost estimation and Marine Navigation Study 2013: Topographic & Bathymetric Survey and Side Scan Survey and obtainment of Marine Notice (annually)	2012-2017
14	Ho Chi Minh City Urban Railway Construction Project Ben Thanh - Suoi Tien Section (Line 1)	Ho Chi Minh City	Ho Chi Minh City People's Committee Management Authority for Urban Railways	Topographic and Geotechnical Survey	2012
13	Studying of Vessel berthing area in Ba Ria Vung Tau province	Ba Ria - Vung Tau Province	Vung Tau Port Authority - Vinamarine	Topographic & hydrographical Survey, Design	2012
12	Coal Unloading Jetty of Quang Trach Thermal Power Plant	Quang Binh Province	Vung Ang - Quang Trach PetroElectric Project Management Unit - PetroVietnam (PVN)	Topographic & Hydrographical Survey, Geotechnical Survey, Detailed Design	2011-2012
11	Cai Mep - Thi Vai International Terminal (ODA loan)	Ba Ria - Vung Tau Province	Ministry of Transport (MOT) / JICA Study Team	Topographic & Hydrographical survey, Hydrological Survey, Geotechnical Investigation, Feasibility Study, Basic Design, EIA Report, Detailed Design, Tender Documents, Project Management, Construction Supervision.	2005-2011
10	My Xuan International General Port Project	Ba Ria - Vung Tau Province	Formosa International Development Corporation	Topographic & hydrographical survey, Geotechnical survey, Feasibility Study & Basic Design, EIA report, Detailed Design	2008-2010 2018-2020
9	Dredging of Soai Rap River Navigation Channel - Phase II	Ho Chi Minh City	Tan Thuan Industrial Promotion Co., Ltd. (Tan Thuan IPC)	Topographic and Hydrographical Survey, Geotechnical Investigation, Hydrodynamic Model, Feasibility Study, Basic Design, EIA Report, Detailed Design.	2007-2010
8	Saigon Premier Container Terminal (SPCT)	Ho Chi Minh City	Saigon Premier Container Terminal (SPCT)	Topographic & Hydrographical Survey, Geotechnical survey, Feasibility Study & Basic Design, EIA report, Detailed Design Review and Project Management Instruments and monitoring works during the construction implementation	2005-2009
7	Van Phong International Transshipment Port	Khanh Hoa Province	Vietnam National Shipping Lines & Vietnam Maritime Administration Vinamarine) - Ministry of Transport (MOT)	Topographic survey & hydrographical survey, Geotechnical investigations, Detailed Plan, Feasibility Study and Detailed design.	2005-2006 & 2007-2009
6	Dung Quat Refinery - Package 5A & 5B	Quang Ngai province	Vietnam Oil and Gas Group (PetroVietnam)	Topographic and hydrographical surveys, Geotechnical Investigations, Computational Simulation and Modelling , Foundation Analysis and Detailed Design	2004-2007
5	Cai Mep Petroleum Port Project	Ba Ria - Vung Tau Province	Vungtau Petro JSC.	Detailed Design	2007



No.	Name of Projects	Location	Client / Owner	Our services	Contract Duration
4	Petec Cai Mep Port	Ba Ria - Vung Tau Province	PETEC Trading and Investment Corporation	Detailed Design	2007
3	Improvement Project for 2 Southern Waterway Routes and Can Tho Port	Can Tho City	Vietnam Inland Waterways Administration (VIWA) / Project Management Unit of Waterways (PMU-W)	Surveys and Feasibility Study Preparation for Ca Mau - Nam Can Waterway Upgrading Technical Design for Bank Protection Work for Cho Gao Channel	2002-2003 & 2004-2005
2	Sea Entrance and Construction of Sa Huynh Fish port	Quang Ngai Province	Department of Aquiculture Quang Ngai province	Topographic Survey and Detailed Design	2001-2004
1	Port of Phu My Steel Plant	Ba Ria - Vung Tau Province	Southern Steel Company	Technical Design, Construction Supervision.	2002-2003
<b>III PROJECTS FOR ENVIRONMENT IMPACT ASSESSMENT</b>					
29	GEMALINK Container Terminal Vietnam	Ba Ria - Vung Tau Province	Gemadept Terminal Link Cai Mep Terminal Joint Stock Company	2007 - 2009: Topographic Survey, Geotechnical survey, Feasibility Study & Basic Design, EIA Report, Detailed Design 2021: Preparation of Marine Safety Plan for container vessel of 200,000 DWT entering Gemadept – Terminal Link Cai Mep Port 2021 - 2022: Detailed planning on the scale of 1/500; Bathymetric survey, soil investigation; Feasibility study report; Environment Impact Assessment Report and legal procedures (Gemadept – Terminal Link Cai Mep Port - Phase 2	2007; 2021-2022
28	Tan Thanh ICD and Logistics services area	Ba Ria - Vung Tau Province	Logistics Cai Mep Joint Stock Company	Adding port into Detailed planning of inland waterways; Topographic Survey and Soil Investigation; Feasibility Study Report and Basic Design; Environmental Impact Assessment Report; Detailed Design and Construction permit	2021
27	Hyosung Vina Chemicals Port	Ba Ria - Vung Tau Province	Hyosung Corporation/Hyosung Vina Chemicals Co., Ltd	Planning Add, Topographic and Hydrographical survey, Soil Investigation, Feasibility Study & Basic Design, Environmental Impact Assessment Report; Hydrodynamic modelling & Ship Maneuvering Simulation Study, Detailed Design; Construction Supervision; Port Operation Announcement; Surveying and inspecting construction quality of revetment structure and soft soil improvement	2016-2017; 2019
26	Mo Nhat Inland Waterway Port and General Warehouse	Ba Ria - Vung Tau Province	Dai Dat Trading Construction Company Limited	Topographic and Hydrographical Survey, Soil Investigation, Detailed Planning 1/500, Feasibility Study, Environmental Impact Assessment and Detailed Design	2019



No.	Name of Projects	Location	Client / Owner	Our services	Contract Duration
25	My Xuan International General Port Project	Ba Ria - Vung Tau Province	Formosa International Development Corporation	Topographic Survey, Geological Investigation, Feasibility Study, Environmental Impact Assessment, Detailed Design and Port Construction License	2008-2010 2018-2020
24	Sea Star International Seaport	Ba Ria - Vung Tau Province	S.S.I.P CORP	2009; 2018: Additional planning, Topographic survey, Soil investigation, Feasibility Study preparation and Basic Design, EIA Report, Detailed Design for Phase 1, Construction License 2021: Project Management Service for Soil Improvement Construction	2009 & 2018 & 2021
23	Cai Mep International Terminal (CMIT)	Ba Ria - Vung Tau Province	Cai Mep International Terminal Ltd., Co. (a Joint Venture of APM Terminals, Vinalines and Saigon Port)	2006 - 2012: Topographic & Hydrographical Survey, Geotechnical survey, Feasibility Study & Basic Design, EIA report, Detailed Design Review, Construction Supervision, Tender documents and Project Management 2016: Structural Appraisal for Berth, First Time, 5 Year Interval 2018: Mathematical Modelling, Real Time Simulation and Maritime Safety Plan Preparation of 180,000 TEU Vessel 2020: Structural Appraisal of the Existing CMIT Terminal and Maritime Safety Plan Preparation for Capability Possibilities Study of CMIT Terminal to Accommodate 214,000 TEU Vessel 2021: Extension of testing and commissioning period of CMIT Terminal to accommodate upto 214,121 DWT vessels and Operation Announcement Obtainment for CMIT Terminal to accommodate upto 214,121 DWT vessels	2006 - 2012; 2016; 2018; 2020; 2021
22	Duyen Hai 1 thermal Power Plant (1,245MW) - Coal Unloading Jetty	Tra Vinh Province	GENCO 1 - Vietnam Electricity (EVN)	Topographic and Hydrographical survey, Soil Investigations, Geophysical Survey, Hydrological survey, Feasibility Study & Basic Design, EIA report, Tender Preparation and Evaluation, Detailed Design Review, Construction Supervision.	2009-2017
21	Long Son Petrochemical Port (LSP)	Ba Ria - Vung Tau Province	- Long Son Petrochemicals Co., Ltd (LSP) (a Joint Venture between Siam Cement Group of Thailand, Qatar Petroleum and Petrovietnam - Posco Engineering and Construction Co., Ltd. - The Consortium of TPSK.	2008-2013: Topographic & Hydrographical Survey and Hydrological Survey (02 times in 2008 & 2009), Geotechnical Survey (04 times in 2008, 2009 and 2013) and Detail Planning in 2008; 2012-2013: Mathematical model, Basic Design, EIA Report; 2017-2018: Topographic & Hydrographic Survey, Sub- bottom Profiling & Soil Investigation, Detailed Design Review and Simulation Model, Magnetometer and Sidescan Sonar Survey - Package F 2018: Topographic and Soil Investigation Survey - Package L 2018 - 2020: Soil Investigation - Pkg A1 2019 - 2021: Construction Supervision; Bathymetric Survey after Dredging and Design review - Package F	2008-2013 & 2017, 2018, 2019 - 2021



No.	Name of Projects	Location	Client / Owner	Our services	Contract Duration
20	Southern Van Phong General Port	Khanh Hoa Province	Thanh Yen - Van Phong Joint Stock Company	<p>2011: Topographic survey, Soil investigation, Detailed Planning, Feasibility Study preparation and Basic Design, EIA Report, Construction Supervision, Design of upgrading for wharf of 50,000 DWT.</p> <p>2018: Topographic survey, Soil investigation, Detailed Planning, Feasibility Study preparation and Basic Design, EIA Report, Construction Design for wharf of 20,000DWT and 5.000DWT.</p> <p>2018: Design of two-way navigational channel and turning basin for arrival of 70,000DWT vessels; Environmental Impact Assessment.</p> <p>2019: Port operation announcement and Channel Opening Announcement for 70,000 DWT Berth</p> <p>2021: Survey and Design for berth No.2</p>	2011; 2018;2019 ;2021
19	Saigon Peninsula Project	Ho Chi Minh City	The Saigon Peninsula Group Corporation	<p>Topographic and Hydrographical survey, Soil Investigation, Feasibility Study &amp; Basic Design, EIA report and Detailed Design for International Cruise Terminal for 50.000- 60.000GRT Cruise Ships.</p> <p>Project Management for Revetment.</p>	2016-2018
18	Hyosung Vina Chemicals Port	Ba Ria - Vung Tau Province	Hyosung Corporation/Hyosung Vina Chemicals Co., Ltd	<p>Planning Add, Topographic and Hydrographical survey, Soil Investigation, Feasibility Study &amp; Basic Design, Environmental Impact Assessment Report; Hydrodynamic modelling &amp; Ship Maneuvering Simulation Study, Detailed Design; Construction Supervision; Port Operation Announcement; Surveying and inspecting construction quality of revetment structure and soft soil improvement</p>	2016-2017; 2019
17	Hoa Sen Ca Na - Ninh Thuan General Port	Ninh Thuan Province	<p>- Department of Transport - Ninh Thuan Province (2016)</p> <p>- Hoa Sen Group (2017)</p>	<p>2016: Topographic and Hydrographical Survey and Planning 1/2000</p> <p>2017-2019: Detailed Planning, 1/500, Topographic and Hydrographical Survey, Soil Investigation, Feasibility Study &amp; Environmental Impact Assessment; Mathematical Modelling; Detailed Design – 70,000 DWT berth</p>	2016; 2017 - 2019
16	Cai Mep General Port	Ba Ria - Vung Tau Province	Thuan Hai Corporation	<p>2016 - 2017: Topographic &amp; Hydrographic Survey, Soil Investigation, Feasibility Study &amp; Basic Design, Detailed Design</p> <p>2019 – 2020: Soil Investigation after soil improvement</p>	2016-2020



No.	Name of Projects	Location	Client / Owner	Our services	Contract Duration
15	Cruise Terminal in Phu Quoc Island	Kien Giang Province	Vietnam Maritime Administration (Vinamarine)/Ministry of Transport (MOT) (2014), Department of Transport - Kien Giang province (2015-2018)	Topographic & Hydrographical Survey, Geotechnical Investigations, Computational Simulation and Modelling, Detailed Plan, Feasibility Study, Basic Design, EIA report, Foundation Analysis, Detailed Design and Construction Supervision.	2014-2016
14	Phu My Port	Ba Ria - Vung Tau Province	Ba Ria Joint Stock Company of Services for Import Export of Agro - Forestry Products and Fertilizers (Baria Serece)	<ul style="list-style-type: none"> <li>- 2005 - 2006: Topographic survey, Soil investigation, Basic design, Construction design for vessels of 60,000 DWT</li> <li>- 2009: Survey and inspection on the existing jetty, EIA report and design of upgrading for wharf of 80,000 DWT.</li> <li>- 2015: Monitoring displacement of bridge segment 103M Phu My Port in the moving process of cranes</li> <li>- 2015 - 2016: Assessment of damage level of the segment 103m; Survey, design dismantling and repair design of segment 103m of Phu My Port.</li> <li>- 2017 - 2018: Inspection of upgrading Phu My jetty to accommodate ships with a maximum capacity of 80,000 DWT; Upgrading river pier No. 2 - Phu My port to 1,500-2,000 DWT; Inspection on River Pier No. 5 and construction maintenance process</li> <li>- 2020: Inspection and verification, 3D laser scanning and design for reinforcing structures for 72m trestle and 132m jetty service</li> <li>- 2021: Study on the cargo handling capacity enhancement of Baria Serece port</li> </ul>	2005-2018; 2020; 2021
13	Vietnam Lee & Man Paper International Port	Hau Giang province	Vietnam Lee & Man Paper MFG. Ltd. (Hong Kong)	Topographic & Hydrographical survey, Geotechnical Investigation, Detailed Planning, Feasibility Study, Basic Design, EIA Report, Detailed Design	2014-2016
12	Ong Keo General Port	Dong Nai Province	Long Thuan Investment Corporation.	<ul style="list-style-type: none"> <li>2015 - 2016: Topographic &amp; Hydrographic survey, Soil investigation, Environmental Impact Assessment, Feasibility Study &amp; Basic Design, Detailed Design;</li> <li>2018: Construction Supervision for 5,000 DWT barge berth;</li> <li>2020: Structural inspection survey and verification report, Maritime Safety Report preparation for internal berth to receive ships of up to 5,000 DWT; Topographic survey, Geotechnical survey and modification design for outer berth to receive ships of 50,000 DWT and barges of 20,000 DWT.</li> </ul>	2015-2016 & 2018 & 2020



No.	Name of Projects	Location	Client / Owner	Our services	Contract Duration
11	Tien Sa port extension and upgrade project	Da Nang City	Da Nang Port SJC. & Project Management Unit 85 - Ministry of Transport (MOT)	Topographic survey & hydrographical survey; Geotechnical survey, Feasibility Study Preparation & Basic Design; Environmental Impact Assessment, Site clearance	2013-2014
10	Saigon International Terminals Vietnam (Hutchison Ports SITV)	Ba Ria - Vung Tau Province	Saigon International Terminals Vietnam Limited (SITV)	Topographic & Hydrographical survey, Geotechnical survey, Feasibility Study & Basic Design, EIA report, Detailed Design Review, Construction Supervision, Tender documents, Construction Supervision Project Management; Instruments and monitoring works during the construction implementation; Engineering work for upgrading up to 100,000DWT vessels berthing; Structural appraisal for berth, first time, 5 year interval; Design review, EIAR preparation and Independent Site Audit for Twilight warehouse; Port Announcement for 100,000 DWT Vessel Accommodation	2006-2012, 2015-2017 & 2018-2019
9	SP- SSA International Terminal (SSIT)	Ba Ria - Vung Tau Province	SP-SSA International Container Services Joint Venture Company (SSIT) (a Joint Venture of SSA Marine (USA), Saigon Port, and Vinalines)	2006 - 2012: Topographic & Hydrographical, Geotechnical survey, Feasibility Study & Basic Design, EIA report, Detailed Design, Construction Supervision, Tender documents and Project Management 2019: Structural inspection by 3D Laser Scan, Detailed design for demolition and reconstruction work, Project Management and Construction Supervision for the SSIT's berth after collision incident of the Fareast Honesty. 2020: Structural Verification for upgrading SSIT barge berth from 500 DWT to 2,500 DWT 2021: Preparation of structural assessment for existing quay deck, turning basin, navigational channel; Preparation of Maritime Safety Plan and Port Operation Announcement Decision to allow accommodation of vessels up to 200,000 DWT at SSIT	2006-2012; 2019; 2020; 2021
8	Cai Lan International Container Terminal (CICT)	Quang Ninh Province	Cai Lan International Container Limited Liability Company (CICT) (a Joint Venture of SSA Marine (USA), Vinalines and Quang Ninh Port)	Topographic & Hydrographical Survey, Geotechnical Investigation, Feasibility Study & Basic Design, EIA report, Detailed Design, Construction Supervision, Tender Documents and Project Management	2008-2012



No.	Name of Projects	Location	Client / Owner	Our services	Contract Duration
20	Posco Port (Posco Vietnam and Posco SS - Vina)	Ba Ria - Vung Tau Province	Posco Vietnam Co. Ltd and Posco SS VINA Co., Ltd (Two of the main affiliates of Posco - South Korea)	Topographic & Hydrographical Survey, Geotechnical survey, Feasibility Study & Basic Design, EIA report, Detailed Design Verification of the existing berth structure for 60,000DWT vessels berthing Topographic Survey and Construction 2013 - 2017: Supervision for annually dredging 2018: Port maintenance procedure preparation 2019: On the preparation of environmental impact assessment report for dumping dredged material within Posco Vietnam Co., Ltd's land area	2006-2008; 2012-2017; 2018; 2019
6	SP-PSA International Port (SP-PSA)	Ba Ria - Vung Tau Province	SP-PSA International Port Company Ltd. (a Joint Venture of PSA Singapore, Vinalines and Saigon Port)	2006 - 2009: Topographic & Hydrographical Survey, Geotechnical investigation, Feasibility Study & Basic Design, EIA report, Detailed Design 2016 - 2017: Specifying the capacity of general cargo vessels equivalent to container vessel of 120,000 DWT in/out - 2020: Port Structural verification	2006-2009 2016-2017 2020
5	Sai Gon Hiep Phuoc Port	Ho Chi Minh City	Sai Gon - Hiep Phuoc Port Joint Stock Company	2005 - 2011: Topographic & Hydrographical Survey, Geotechnical survey, Feasibility Study & Basic Design, EIA report, Detailed Design, Construction Supervision 2021: 3D laser scanning, 3D Modeling and Building Visualization for Port Digitization	2005 - 2011; 2021
4	My Xuan International General Port	Ba Ria - Vung Tau Province	Formosa International Development Corporation	Topographic & hydrographical survey, Geotechnical survey, Feasibility Study & Basic Design, EIA report, Detailed Design	2008-2010 2018-2020
3	Dredging of Soai Rap River Navigation Channel - Phase II	Ho Chi Minh City	Tan Thuan Industrial Promotion Co., Ltd. (Tan Thuan IPC)	Topographic and Hydrographical Survey, Geotechnical Investigation, Hydrodynamic Model, Feasibility Study, Basic Design, EIA Report, Detailed Design.	2007-2010
1	Saigon Premier Container Terminal (SPCT)	Ho Chi Minh City	Saigon Premier Container Terminal (SPCT)	Topographic & Hydrographical Survey, Geotechnical survey, Feasibility Study & Basic Design, EIA report, Detailed Design Review and Project Management Instruments and monitoring works during the construction implementation	2005-2009
<b>IV PROJECTS FOR STRUCTURAL VERIFICATION</b>					
19	Upgrading wharf K15B, K15C for accommodate partial loaded vessels up to 60,000 DWT - Ben Nghe Port	Ho Chi Minh City	Ben Nghe Port Company Limited	Existing structural survey and inspection report of wharf K15B, K15C to accommodate partial loaded vessels up to 60,000 DWT	2021
18	Vietnam International Container Terminals (VICT)	Ho Chi Minh City	First Logistics Development Joint Venture Company	Inspection of seaport infrastructure	2021



No.	Name of Projects	Location	Client / Owner	Our services	Contract Duration
17	SP-PSA International Port (SP-PSA)	Ba Ria - Vung Tau Province	SP-PSA International Port Company Ltd. (a Joint Venture of PSA Singapore, Vinalines and Saigon Port)	2006 - 2009: Topographic & Hydrographical Survey, Geotechnical investigation, Feasibility Study & Basic Design, EIA report, Detailed Design 2016 - 2017: Specifying the capacity of general cargo vessels equivalent to container vessel of 120,000 DWT in/out - 2020: Port Structural verification	2006-2009 2016-2017 2020
16	SP- SSA International Terminal (SSIT)	Ba Ria - Vung Tau Province	SP-SSA International Container Services Joint Venture Company (SSIT) (a Joint Venture of SSA Marine (USA), Saigon Port, and Vinalines)	2006 - 2012: Topographic & Hydrographical, Geotechnical survey, Feasibility Study & Basic Design, EIA report, Detailed Design, Construction Supervision, Tender documents and Project Management 2019: Structural inspection by 3D Laser Scan, Detailed design for demolition and reconstruction work, Project Management and Construction Supervision for the SSIT's berth after collision incident of the Fareast Honesty. 2020: Structural Verification for upgrading SSIT barge berth from 500 DWT to 2,500 DWT 2021: Preparation of structural assessment for existing quay deck, turning basin, navigational channel; Preparation of Maritime Safety Plan and Port Operation Announcement Decision to allow accommodation of vessels up to 200,000 DWT at SSIT	2006-2012; 2019; 2020; 2021
15	Thi Vai General Port	Ba Ria - Vung Tau Province	Thi Vai General Port	Technical assessment & verification for upgrading load support capability of existing jetty 75,000DWT up to 93,000DWT	2017
14	PTSC Downstream Port	Ba Ria - Vung Tau Province	McDERMOTT ASIA PACIFIC SDN BHD	Inspection and assessment of the port structure of PTSC and Vietsopetro, running the real time model, navigation channel assessment, maritime safety measurement plan under the Sao Vang - Dai Nguyet project	2018 - 2019
13	Cai Mep International Terminal (CMIT)	Ba Ria - Vung Tau Province	Cai Mep International Terminal Ltd., Co. (a Joint Venture of APM Terminals, Vinalines and Saigon Port)	2006 - 2012: Topographic & Hydrographical Survey, Geotechnical survey, Feasibility Study & Basic Design, EIA report, Detailed Design Review, Construction Supervision, Tender documents and Project Management 2016: Structural Appraisal for Berth, First Time, 5 Year Interval 2018: Mathematical Modelling, Real Time Simulation and Maritime Safety Plan Preparation of 180,000 TEU Vessel 2020: Structural Appraisal of the Existing CMIT Terminal and Maritime Safety Plan Preparation for Capability Possibilities Study of CMIT Terminal to Accommodate 214,000 TEU Vessel 2021: Extension of testing and commissioning period of CMIT Terminal to accommodate upto 214,121 DWT vessels and Operation Announcement Obtainment for CMIT Terminal to accommodate upto 214,121 DWT vessels	2006-2012; 2016; 2018; 2020; 2021



No.	Name of Projects	Location	Client / Owner	Our services	Contract Duration
12	Myanmar International Terminals Thilawa Port (MITT)	Yangon, Myanmar	Myanmar International Terminals Thilawa (MITT) / China Harbour Engineering Co. (CHEC)	Inspection existing structure of MITT Port (Section S6 & S7): Piles, Beams, Deck slabs, Quay crane tracks, Bollards & Fenders..., Verify load carrying capacity of wharf structure Detailed design for additional tie-down for new quay cranes & RTG cranes.	2017
11	PTSC Downstream Port	Ba Ria - Vung Tau Province	PTSC Mechanical & Construction Co., Ltd. (PTSC M&C)	2017: Provision of Technical Consultancy Service for Marine Spread Going Inward/Outward of Song Dinh Channel and Berthing at PTSC Downstream Port 2021: Inspection and Structural verification	2017; 2021
10	Interflour Port	Ba Ria - Vung Tau Province	Interflour Vietnam Company Ltd.	Survey and inspection on the existing jetty of Interflour port. Upgrading of the existing 75,000DWT Berth to accommodate vessels up to 93,000 DWT vessels	2017 & 2019
9	Phuoc Khanh Oil and Gas Terminal	Dong Thap Province	Dong Thap Petroleum Trading Import Export Company Limited	Infrastructure inspection and upgrading design service for the existing terminal 32,000DWT vessels to accommodate vessels up to 43,000 DWT vessel	2017
8	Thi Vai Terminal	Ba Ria - Vung Tau Province	Siam City Cement (Vietnam) Ltd (former name: Holcim Vietnam Ltd)	- Survey, Status Assessment, Verification & Detailed Design for Repair of 50,000 DWT Jetty - Technical assessment & verification of load support capacity of existing barge loading jetty and obtaining the seaport operation license with the largest tonnage 1000DWT - Technical assessment & verification for upgrading load support capability of existing jetty 50,000DWT up to 60,000DWT	2011 & 2017
7	Port of Hiep Phuoc Power Company	Ho Chi Minh City	Hiep Phuoc Power Co., Ltd.	Infrastructure inspection service	2017
6	Chan May Port - Upgrading Existing Jetty	Hue Province	Royal Caribbean Cruise Ltd. / Chan May Port Ltd., Co.	Data collection, Topographic & Hydrographical Survey, Side Scan survey, Feasibility Study and Basic Design, Detailed Design, Tender Document, Construction Supervision.	2014-2016
5	Navioil Port	Ho Chi Minh City	Vietnam Vegetable Oils Industry Corporation - Acting As JSC. (Vocarimex)	Bathymetric Survey, Inspection and verification of load carrying capacities of existing wharf structure	2015
4	Port of Lafarge Cement Grinding Plant	Dong Nai Province	Lafarge Cement Co., Ltd.	Infrastructure inspection service	2014



No.	Name of Projects	Location	Client / Owner	Our services	Contract Duration
3	Phu My Port	Ba Ria - Vung Tau Province	Ba Ria Joint Stock Company of Services for Import Export of Agro - Forestry Products and Fertilizers (Baria Serece)	<ul style="list-style-type: none"> <li>- 2005 - 2006: Topographic survey, Soil investigation, Basic design, Construction design for vessels of 60,000 DWT</li> <li>- 2009: Survey and inspection on the existing jetty, EIA report and design of upgrading for wharf of 80,000 DWT.</li> <li>- 2015: Monitoring displacement of bridge segment 103M Phu My Port in the moving process of cranes</li> <li>- 2015 - 2016: Assessment of damage level of the segment 103m; Survey, design dismantling and repair design of segment 103m of Phu My Port.</li> <li>- 2017 - 2018: Inspection of upgrading Phu My jetty to accommodate ships with a maximum capacity of 80,000 DWT; Upgrading river pier No. 2 - Phu My port to 1,500-2,000 DWT; Inspection on River Pier No. 5 and construction maintenance process</li> <li>- 2020: Inspection and verification, 3D laser scanning and design for reinforcing structures for 72m trestle and 132m jetty service</li> <li>- 2021: Study on the cargo handling capacity enhancement of Baria Serece port</li> </ul>	2005-2018; 2020; 2021
2	Saigon International Terminals Vietnam (Hutchison Ports SITV)	Ba Ria - Vung Tau Province	Saigon International Terminals Vietnam Limited (SITV)	Topographic & Hydrographical survey, Geotechnical survey, Feasibility Study & Basic Design, EIA report, Detailed Design Review, Construction Supervision, Tender documents, Construction Supervision Project Management; Instruments and monitoring works during the construction implementation; Engineering work for upgrading up to 100,000DWT vessels berthing; Structural appraisal for berth, first time, 5 year interval; Design review, EIAR preparation and Independent Site Audit for Twilight warehouse; Port Announcement for 100,000 DWT Vessel Accommodation	2006-2012, 2015-2017& 2018-2019
1	Posco Port (Posco Vietnam and Posco SS - Vina)	Ba Ria - Vung Tau Province	Posco Vietnam Co. Ltd and Posco SS VINA Co., Ltd (Two of the main affiliates of Posco - South Korea)	<p>Topographic &amp; Hydrographical Survey, Geotechnical survey, Feasibility Study &amp; Basic Design, EIA report, Detailed Design Verification of the existing berth structure for 60,000DWT vessels berthing</p> <p>Topographic Survey and Construction</p> <p>2013 - 2017: Supervision for annually dredging</p> <p>2018: Port maintenance procedure preparation</p> <p>2019: On the preparation of environmental impact assessment report for dumping dredged material within Posco Vietnam Co., Ltd.'s land area</p>	2006-2008; 2012-2017; 2018; 2019



No.	Name of Projects	Location	Client / Owner	Our services	Contract Duration
<b>V PROJECTS FOR CONSTRUCTION SUPERVISION AND PROJECT MANAGEMENT</b>					
23	Sea Star International Seaport	Ba Ria - Vung Tau Province	S.S.I.P CORP	2009; 2018: Additional planning, Topographic survey, Soil investigation, Feasibility Study preparation and Basic Design, EIA Report, Detailed Design for Phase 1, Construction License 2021: Project Management Service for Soil Improvement Construction	2009 & 2018 & 2021
22	Bao Long – Phu My Domestic Port	Ba Ria – Vung Tau Province	Bao Long – Phu My Investment And Development Company Limited	Basic Design and Detailed Design, 1/500 detailed Planning, Construction Supervision	2020 - 2021
21	Long Son Petrochemical Port (LSP)	Ba Ria - Vung Tau Province	<ul style="list-style-type: none"> <li>- Long Son Petrochemicals Co., Ltd (LSP) (a Joint Venture between Siam Cement Group of Thailand, Qatar Petroleum and Petrovietnam</li> <li>- Posco Engineering and Construction Co., Ltd.</li> <li>- The Consortium of TPSK.</li> </ul>	2008-2013: Topographic & Hydrographical Survey and Hydrological Survey (02 times in 2008 & 2009), Geotechnical Survey (04 times in 2008, 2009 and 2013) and Detail Planning in 2008; 2012-2013: Mathematical model, Basic Design, EIA Report; 2017-2018: Topographic & Hydrographic Survey, Sub- bottom Profiling & Soil Investigation, Detailed Design Review and Simulation Model, Magnetometer and Sidescan Sonar Survey - Package F 2018: Topographic and Soil Investigation Survey -Package L 2018 - 2020: Soil Investigation - Pkg A1 2019 - 2021: Construction Supervision; Bathymetric Survey after Dredging and Design review - Package F	2008-2013 & 2017, 2018, 2019 - 2021
20	Ong Keo General Port	Dong Nai Province	Long Thuan Investment Corporation.	2015 - 2016: Topographic & Hydrographic survey, Soil investigation, Environmental Impact Assessment, Feasibility Study & Basic Design, Detailed Design; 2018: Construction Supervision for 5,000 DWT barge berth; 2020: Structural inspection survey and verification report, Maritime Safety Report preparation for internal berth to receive ships of up to 5,000 DWT; Topographic survey, Geotechnical survey and modification design for outer berth to receive ships of 50,000 DWT and barges of 20,000 DWT.	2015-2016 & 2018 & 2020



No.	Name of Projects	Location	Client / Owner	Our services	Contract Duration
19	Cai Mep International Terminal (CMIT)	Ba Ria - Vung Tau Province	Cai Mep International Terminal Ltd., Co. (a Joint Venture of APM Terminals, Vinalines and Saigon Port)	2006 - 2012: Topographic & Hydrographical Survey, Geotechnical survey, Feasibility Study & Basic Design, EIA report, Detailed Design Review, Construction Supervision, Tender documents and Project Management 2016: Structural Appraisal for Berth, First Time, 5 Year Interval 2018: Mathematical Modelling, Real Time Simulation and Maritime Safety Plan Preparation of 180,000 TEU Vessel 2020: Structural Appraisal of the Existing CMIT Terminal and Maritime Safety Plan Preparation for Capability Possibilities Study of CMIT Terminal to Accommodate 214,000 TEU Vessel 2021: Extension of testing and commissioning period of CMIT Terminal to accommodate upto 214,121 DWT vessels and Operation Announcement Obtainment for CMIT Terminal to accommodate upto 214,121 DWT vessels	2006-2012; 2016; 2018; 2020; 2021
18	Duyen Hai 1 thermal Power Plant (1,245MW) - Coal Unloading Jetty	Tra Vinh Province	GENCO 1 - Vietnam Electricity (EVN)	Topographic and Hydrographical survey, Soil Investigations, Geophysical Survey, Hydrological survey, Feasibility Study & Basic Design, EIA report, Tender Preparation and Evaluation, Detailed Design Review, Construction Supervision.	2009-2017
17	Lach Huyen Port Infrastructure Construction Project	Hai Phong City	Vietnam Maritime Administration (Vinamarine)/Ministry of Transport (MOT)	- 2010-2015: Feasibility Study Review, Updated Feasibility Study Review, Detailed Design Review - Client: Vinamarine (Presented by Project Management Unit No.2); - 2011: Soil investigation, Hydrological Survey for the Detailed Design - Client: Jica Study Team (Presented by Oriental Consultants Co. Ltd.); - 2013-2019 Construction Supervision (JV comprising Nippon Koei, JPC, Portcoast and NK Vietnam) - Client: Vietnam MOT (Presented by Project Management Unit No.2)	2010-2019



No.	Name of Projects	Location	Client / Owner	Our services	Contract Duration
16	Southern Van Phong General Port	Khanh Hoa Province	Thanh Yen - Van Phong Joint Stock Company	2011: Topographic survey, Soil investigation, Detailed Planning, Feasibility Study preparation and Basic Design, EIA Report, Construction Supervision, Design of upgrading for wharf of 50,000 DWT. 2018: Topographic survey, Soil investigation, Detailed Planning, Feasibility Study preparation and Basic Design, EIA Report, Construction Design for wharf of 20,000DWT and 5.000DWT. 2018: Design of two-way navigational channel and turning basin for arrival of 70,000DWT vessels; Environmental Impact Assessment. 2019: Port operation announcement and Channel Opening Announcement for 70,000 DWT Berth 2021: Survey and Design for berth No.2	2011; 2018;2019 ;2021
15	Saigon Peninsula Project	Ho Chi Minh City	The Saigon Peninsula Group Corporation	Topographic and Hydrographical survey, Soil Investigation, Feasibility Study & Basic Design, EIA report and Detailed Design for International Cruise Terminal for 50.000- 60.000GRT Cruise Ships. Project Management for Revetment.	2016-2018
14	Pakistan Deep Water Container Port	Karachi, Pakistan	South Asia Pakistan Terminals Limited (SAPT)	2014 - 2016: Project management - Container Yard and Building Phase 1 2018: Independent Design Checking Service of the design under Container Yard and Building Phase 2 2019 - 2012: Project management - Container Yard and Building Phase 2 2020: 3D Laser Scan for container yard during settlement	2014-2016 &2018 &2019 - 2021
13	Cruise Terminal in Phu Quoc Island	Kien Giang Province	Vietnam Maritime Administration (Vinamarine)/ Ministry of Transport (MOT) (2014), Department of Transport - Kien Giang Province (2015-2018)	Topographic & Hydrographical Survey, Geotechnical Investigations, Computational Simulation and Modelling, Detailed Plan, Feasibility Study, Basic Design, EIA report, Foundation Analysis, Detailed Design and Construction Supervision.	2014-2020
12	Chan May Port - Upgrading Existing Jetty	Hue Province	Royal Caribbean Cruise Ltd. /Chan May Port Ltd., Co.	Data collection, Topographic & Hydrographical Survey, Side Scan survey, Feasibility Study and Basic Design, Detailed Design, Tender Document, Construction Supervision.	2014-2016
11	Vinh Tan Power Complex Infrastructure Project - Coal Unloading Jetty for Vinh Tan 2 Thermal Power Plant (2x622MW)	Binh Thuan Province	GENCO 3 - Vietnam Electricity (EVN)	Detailed Design Review and Construction Supervision	2012-2015



No.	Name of Projects	Location	Client / Owner	Our services	Contract Duration
10	Vinh Tan Power Complex Infrastructure Project - Land reclamation for Vinh Tan 4 thermal Power Plant (2x600MW)	Binh Thuan Province	GENCO 3 - Vietnam Electricity (EVN)	Detailed Design Review and Construction Supervision	2014-2015
9	The Improvement project of Navigational Channel to the Bassac River	Tra Vinh Province	Vietnam Maritime Administration Vinamarine) - Ministry of Transport (MOT)	2004: Soil Investigation, Topographic, Hydrographic & Hydrological survey (SNC-Lavalin is a Leader of JV) Client: Project Management Unit of Waterways - Vietnam MOT 2005-2015: Topographic & Hydrographical Survey, Geotechnical Investigation, Geophysical Survey, Hydrological Survey, Feasibility Study & Basic Design, Mathematical Modeling, Detail Design, Construction Supervision. Client: Maritime Project Management Unit 3 - Vinamarine - Vietnam MOT	2005-2014
8	Saigon International Terminals Vietnam (Hutchison Ports SITV)	Ba Ria - Vung Tau Province	Saigon International Terminals Vietnam Limited (SITV)	Topographic & Hydrographical survey, Geotechnical survey, Feasibility Study & Basic Design, EIA report, Detailed Design Review, Construction Supervision, Tender documents, Construction Supervision Project Management; Instruments and monitoring works during the construction implementation; Engineering work for upgrading up to 100,000DWT vessels berthing; Structural appraisal for berth, first time, 5 year interval; Design review, EIAR preparation and Independent Site Audit for Twilight warehouse; Port Announcement for 100,000 DWT Vessel Accommodation	2006-2012, 2015-2017 & 2018-2019
7	SP- SSA International Terminal (SSIT)	Ba Ria - Vung Tau Province	SP-SSA International Container Services Joint Venture Company (SSIT) (a Joint Venture of SSA Marine (USA), Saigon Port, and Vinalines)	2006 - 2012: Topographic & Hydrographical, Geotechnical survey, Feasibility Study & Basic Design, EIA report, Detailed Design, Construction Supervision, Tender documents and Project Management 2019: Structural inspection by 3D Laser Scan, Detailed design for demolition and reconstruction work, Project Management and Construction Supervision for the SSIT's berth after collision incident of the Fareast Honesty. 2020: Structural Verification for upgrading SSIT barge berth from 500 DWT to 2,500 DWT 2021: Preparation of structural assessment for existing quay deck, turning basin, navigational channel; Preparation of Maritime Safety Plan and Port Operation Announcement Decision to allow accommodation of vessels up to 200,000 DWT at SSIT	2006-2012; 2019; 2020; 2021



No.	Name of Projects	Location	Client / Owner	Our services	Contract Duration
6	Cai Lan International Container Terminal (CICT)	Quang Ninh Province	Cai Lan International Container Limited Liability Company (CICT) (a Joint Venture of SSA Marine (USA), Vinalines and Quang Ninh Port)	Topographic & Hydrographical Survey, Geotechnical Investigation, Feasibility Study & Basic Design, EIA report, Detailed Design, Construction Supervision, Tender Documents and Project Management	2008-2012
20	Posco Port (Posco Vietnam and Posco SS - Vina)	Ba Ria - Vung Tau Province	Posco Vietnam Co. Ltd and Posco SS VINA Co., Ltd (Two of the main affiliates of Posco - South Korea)	Topographic & Hydrographical Survey, Geotechnical survey, Feasibility Study & Basic Design, EIA report, Detailed Design Verification of the existing berth structure for 60,000DWT vessels berthing Topographic Survey and Construction 2013 - 2017: Supervision for annually dredging 2018: Port maintenance procedure preparation 2019: On the preparation of environmental impact assessment report for dumping dredged material within Posco Vietnam Co., Ltd.'s land area	2006-2008; 2012-2017; 2018; 2019
4	Cai Mep - Thi Vai International Terminal (ODA loan)	Ba Ria - Vung Tau Province	Ministry of Transport (MOT) / JICA Study Team	Topographic & Hydrographical survey, Hydrological Survey, Geotechnical Investigation, Feasibility Study, Basic Design, EIA Report, Detailed Design, Tender Documents, Project Management, Construction Supervision.	2005-2011
3	Sai Gon Hiep Phuoc Port	Ho Chi Minh City	Sai Gon - Hiep Phuoc Port Joint Stock Company	2005 - 2011: Topographic & Hydrographical Survey, Geotechnical survey, Feasibility Study & Basic Design, EIA report, Detailed Design, Construction Supervision 2021: 3D laser scanning, 3D Modeling and Building Visualization for Port Digitization	2005-2011; 2021
2	Saigon Premier Container Terminal (SPCT)	Ho Chi Minh City	Saigon Premier Container Terminal (SPCT)	Topographic & Hydrographical Survey, Geotechnical survey, Feasibility Study & Basic Design, EIA report, Detailed Design Review and Project Management Instruments and monitoring works during the construction implementation	2005-2009
1	Port of Phu My Steel Plant	Ba Ria - Vung Tau Province	Southern Steel Company	Technical Design, Construction Supervision.	2002-2003
<b>VI</b>	<b>PROJECTS FUNDED BY ODA LOAN, INTERNATIONAL FINANCE CORP. (IFC), ASIAN DEVELOPMENT BANK (ADB) AND WORLD BANK (WB)</b>				
8	Mekong Delta Region Urban Upgrading Project (MDR-UUP) - My Tho city sub-project - Item of Tien River Embankment	Tien Giang Province	Project Management Unit of Mekong Delta Region Urban Upgrading Project (MDRUUP) - My Tho city sub-project	Topographic & Hydrographical Survey, Geotechnical Investigation, Geophysical Survey, Hydrological Survey, Modifying the basic design, Detail Design and Tender Document	2014-2015



No.	Name of Projects	Location	Client / Owner	Our services	Contract Duration
7	Lach Huyen Port Infrastructure Construction Project	Hai Phong City	Vietnam Maritime Administration (Vinamarine)/Ministry of Transport (MOT)	- 2010-2015: Feasibility Study Review, Updated Feasibility Study Review, Detailed Design Review - Client: Vinamarine (Presented by Project Management Unit No.2); - 2011: Soil investigation, Hydrological Survey for the Detailed Design - Client: Jica Study Team (Presented by Oriental Consultants Co. Ltd.); - 2013-2019: Construction Supervision (JV comprising Nippon Koei, JPC, Portcoast and NK Vietnam) - Client: Vietnam MOT (Presented by Project Management Unit No.2)	2010-2019
6	The Improvement Project of Navigational Channel to the Bassac River	Tra Vinh Province	Vietnam Maritime Administration (Vinamarine) - Ministry of Transport (MOT)	2004: Soil Investigation, Topographic, Hydrographic & Hydrological survey (SNC-Lavalin is a Leader of JV) Client: Project Management Unit of Waterways - Vietnam MOT 2005-2015: Topographic & Hydrographical Survey, Geotechnical Investigation, Geophysical Survey, Hydrological Survey, Feasibility Study & Basic Design, Mathematical Modeling, Detail Design, Construction Supervision. Client: Maritime Project Management Unit 3 - Vinamarine - Vietnam MOT	2005-2014
5	SP- SSA International Terminal (SSIT)	Ba Ria - Vung Tau Province	SP-SSA International Container Services Joint Venture Company (SSIT) (a Joint Venture of SSA Marine (USA), Saigon Port, and Vinalines)	2006 - 2012: Topographic & Hydrographical, Geotechnical survey, Feasibility Study & Basic Design, EIA report, Detailed Design, Construction Supervision, Tender documents and Project Management 2019: Structural inspection by 3D Laser Scan, Detailed design for demolition and reconstruction work, Project Management and Construction Supervision for the SSIT's berth after collision incident of the Fareast Honesty. 2020: Structural Verification for upgrading SSIT barge berth from 500 DWT to 2,500 DWT 2021: Preparation of structural assessment for existing quay deck, turning basin, navigational channel; Preparation of Maritime Safety Plan and Port Operation Announcement Decision to allow accommodation of vessels up to 200,000 DWT at SSIT	2006-2012; 2019; 2020; 2021
4	Cai Lan International Container Terminal (CICT)	Quang Ninh Province	Cai Lan International Container Limited Liability Company (CICT) (a Joint Venture of SSA Marine (USA), Vinalines and Quang Ninh Port)	Topographic & Hydrographical Survey, Geotechnical Investigation, Feasibility Study & Basic Design, EIA report, Detailed Design, Construction Supervision, Tender Documents and Project Management	2008-2012



No.	Name of Projects	Location	Client / Owner	Our services	Contract Duration
3	Ho Chi Minh City Urban Railway Construction Project Ben Thanh - Suoi Tien Section (Line 1)	Ho Chi Minh City	Ho Chi Minh City People's Committee Management Authority for Urban Railways	Topographic and Geotechnical Survey	2012
2	Cai Mep -Thi Vai International Terminal (ODA loan)	Ba Ria - Vung Tau Province	Ministry of Transport (MOT) / JICA Study Team	Topographic & Hydrographical survey, Hydrological Survey, Geotechnical Investigation, Feasibility Study, Basic Design, EIA Report, Detailed Design, Tender Documents, Project Management, Construction Supervision.	2005-2011
1	Improvement Project for 2 Southern Waterway Routes and Can Tho Port	Can Tho Province	Vietnam Inland Waterways Administration (VIWA) / Project Management Unit of Waterways (PMU-W)	Surveys and Feasibility Study Preparation for Ca Mau - Nam Can Waterway Upgrading Technical Design for Bank Protection Work for Cho Gao Channel	2002-2003 & 2004-2005
<b>VII OVERSEA PROJECTS</b>					
7	Naval Berths 5-14, Naval Dockyard, Karachi Port	Karachi, Pakistan	M/s. Exponent Engineers (Pvt) Ltd.	Design Validation	2021
6	Port for Shunying Pulp and Paper Mill	Kampot, Cambodia	Shunying Pulp and Paper Company Limited	Concept design, Bathymetric, Sides Can Sonar, Magnetometer & Sub-Bottom Profiling Survey, Geotechnical investigation, Basic design and Detail design for Phase 1	2021
5	Ajman New Port	Ajman, United Arab Emirates	Investor: Hutchison Ajman International Terminals Limited - F.Z.E/ Consultant: Halcrow International Partnership, Dubai Branch	Data collection; design verification and cost estimation; Preparation of bidding documents and evaluation of bidding documents for breakwaters, quay ports and wharves under Ajman port development study project	2018
4	Myanmar International Terminals Thilawa Port (MITT)	Yangon, Myanmar	Myanmar International Terminals Thilawa (MITT) / China Harbour Engineering Co. (CHEC)	Inspection existing structure of MITT Port (Section S6 & S7): Piles, Beams, Deck slabs, Quay crane tracks, Bollards & Fenders..., Verify load carrying capacity of wharf structure Detailed design for additional tie-down for new quay cranes & RTG cranes.	2017
3	The Kampot Port Project (KSP)	Kampot, Cambodia	TRY PHEAP GROUP CO., LTD.	2016 - 2017: Topographic survey, Port planning and Preparation of bidding documents 2017 - 2018: Installation of navigation aids at Papa Petroleum Port	2016-2017 & 2017 - 2019



No.	Name of Projects	Location	Client / Owner	Our services	Contract Duration
2	Pakistan Deep Water Container Port	Karachi, Pakistan	South Asia Pakistan Terminals Limited (SAPT)	2014 - 2016: Project management - Container Yard and Building Phase 1 2018: Independent Design Checking Service of the design under Container Yard and Building Phase 2 2019 - 2021: Project management - Container Yard and Building Phase 2 2020: 3D Laser Scan for container yard during settlement	2014-2016 & 2018 & 2019 - 2021
1	Study for Port Project in Cambodia (SITC)	Sihanoukville, Cambodia	Confidential	Topographic & Hydrographic Survey, Geotechnical Investigation, Hydrological Survey, Numerical Modeling, Basic Design	2012-2013