

DAEYANG ENGINEERING

YOUR **BEST PARTNER** IN THE WORLD



Branch Office



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Let's build a history of challenge and creation with **DAEYANG ENGINEERING**



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history

2003

- Company Founded

2004

- Registered to The Korea Engineering & Consulting Association (KENCA) as Engineering Company
<Harbor&Coast, Civil Structure, Soil&Foundation>

2006

- Registered to Ministry of Land, Transport, and Maritime Affairs as a International Contractor
- Registered to Seoul Land Management Agent as a Civil Works Supervision Company
- Found a R&D Center Annexed to the Korea Industrial Technology Association

2008

- Registered to Seoul(Gyeongsangnam-do transferred) Land Management Agent as a surveying company
- Move Headquarters to Gyeongsangnam-do , Korea

2013

- Certified with the Quality Management System (KS Q ISO 9001:2009 / ISO 9001:2008)

2014

- Changed as DAEYANG ENGINEERING Co.,Ltd.

a preface

DAE YANG ENGINEERING Co.,Ltd. was founded in 2003. Since then, with accumulated technology and top-class technical service in harbor and coastal construction, DAE YANG has developed as leader in civil engineering and total construction supervision. Recently DAE YANG is aiming at the 2nd leap through land planning, landscape architecture and tourism projects.

As DAE YANG wants to be the engineering leader with active future-oriented ideas and actions, DAE YANG is focusing its resources to provide futuristic and optimal design which puts first people, environments, future and technology. Also, based on firm technology foundations, DAE YANG will develop now technologies and train specialists, which will help DAE YANG show its potential to the fullest.

DAE YANG will not be satisfied with a current state as a Korea's leading company, but will keep developing new technologies and face challenges to be a world top class company. Furthermore, DAE YANG will never stop working hard until all of your needs are fulfilled, and will make every effort to be a company that you can always rely on.

information

Company Name DAE YANG ENGINEERING CO., LTD.

The Motto of Company Sincerity, Faith, Renovation

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CEO Kyu-Hak Seo

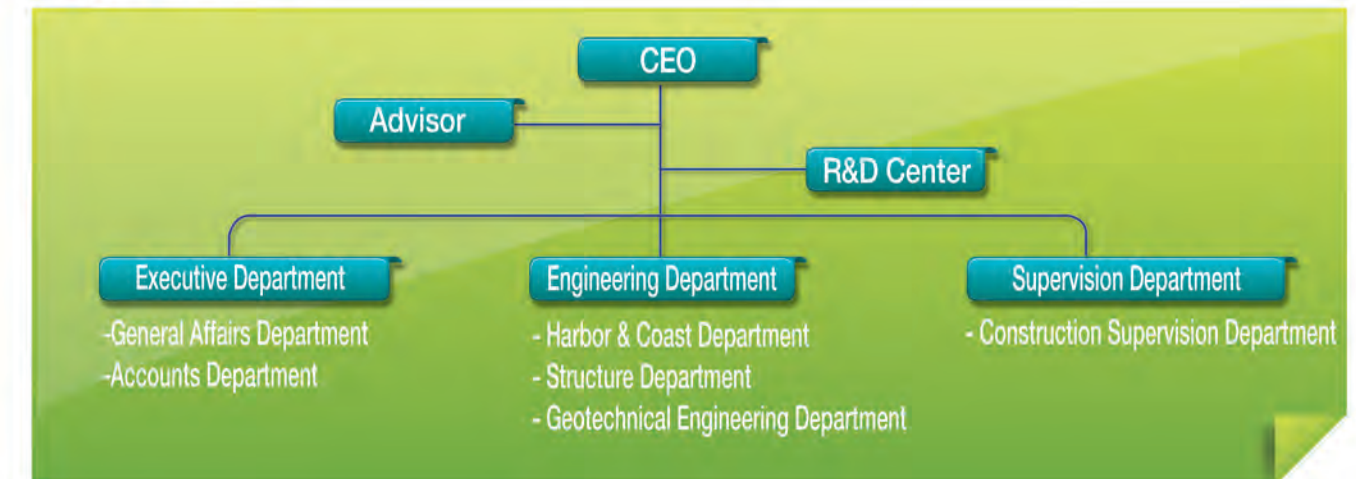
Homepage <http://www.daeyangeng.com>

Date of foundation 2003. 6. 12

Registration Information

- The Ministry of Knowledge Economy
: Engineering Company (Harbor&Coast, Civil Structure,
Soil&Foundation)
- The Ministry of Education, Science, and Technology
: Research Institute
- The Ministry of Land, Transport and Maritime Affairs
: International Contractor (Construction Engineering)
- Gyeongsangnam-do
: Civil Engineering Supervision Company Survey and Geological
Information
- CRK-RS
: the Quality Management System
(KS Q ISO 9001:2009 / ISO 9001:2008)

Organization



Business Scope Provide the best total service from feasibility study to supervision





Develop Marine Space & Design Marine Structures Systematically and Effectively

Harbor

Harbor and Coastal Dept.

Harbor & Coastal Dept. plans and designs harbor, coastal and marine structures for a systematic and effective use of the ocean. It has accumulated technology and know-how through various projects. With highly qualified engineers, it provides the best harbor design services through computerized design databases.

Also, with putting first customer satisfaction and profit creation, all the engineers in Harbor & Coast Dept. are armed with a sense of duty and making efforts to deliver the best result. They are ready to play a leading role in developing the 21st century new harbor and coastal space.

Main jobs

- Development Planning and Engineering of Harbors and Hinterland
- Basic Planning and Design of Fishing Ports
- Dredging & Reclamation Engineering and Seaside Industrial Complex Design
- Coastal Corrasion and Sedimentation Engineering
- Planning and Design of Shipyard Facilities
- Waterfront Redevelopment and Harbor Remodeling
- Planning and Design of Marine Culture Space (Waterfront, Marina)
- Planning and Design of Commercial Port (For Container, Passenger, Bulker, Tanker)
- Planning and Design of Tidal Power Plants
- Planning and Design of Oil and LNG Handling Facilities (Jetty, Buoy, Dolphin)
- Harbor & Coastal Structure Turn-Key and Private Investment Projects
- Planning and Design of Docks





Main jobs

- Planning and Design of Bridges and Underground Structures
- Planning and Design of Port Structures
- Precision Analysis of Structures (3D Simulation)
- Reinforcement Design of Structures
- Design Supervision of Civil Engineering Structures



Structures in Harmony with Nature

structure

Structure Dept.

Structure Dept. is working hard to design environment-friendly and futuristic structures that our descendants can be proud of. Based on strong teamwork and advanced technology, Structure Dept. designs various bridges, port structures and underground structures.

Through technology innovation and new material development, Structure Dept. will build more economical and beautiful structures. With turn-key and alternative design, Structure Dept. carries out comprehensive design and planning which takes into consideration function, landscape, and maintenance. To be the leader of the 21st century, Structure Dept. never spares efforts to strengthen its competitive edge.





Geotechnical Design Services based on Various Studies and Accumulated Data

Geotechnical Engineering Dept.

Geotechnical Engineering is the basic area which studies the engineering properties and mechanical behavior of soil. With the patiently accumulated data and advanced technology, Geotechnical Engineering Dept. provides proudly the best services in design, construction, investigation, test and measurement.

Main jobs

- Geotechnical investigation service
 - Borehole investigation
 - In-site test and laboratory service
 - Geophysical prospecting
- Soft Ground Design
- Structure Foundation Design
- Seepage Analysis of Levee and Dam
- Retaining Structure and Underground Structure Design
- Slope Stability Analysis and Reinforced Slope Design
- Stability Management Measuring about Soft Ground and Structure Settlement





The Best Construction Supervision That Can Be Found on Construction Frontlines

supervision

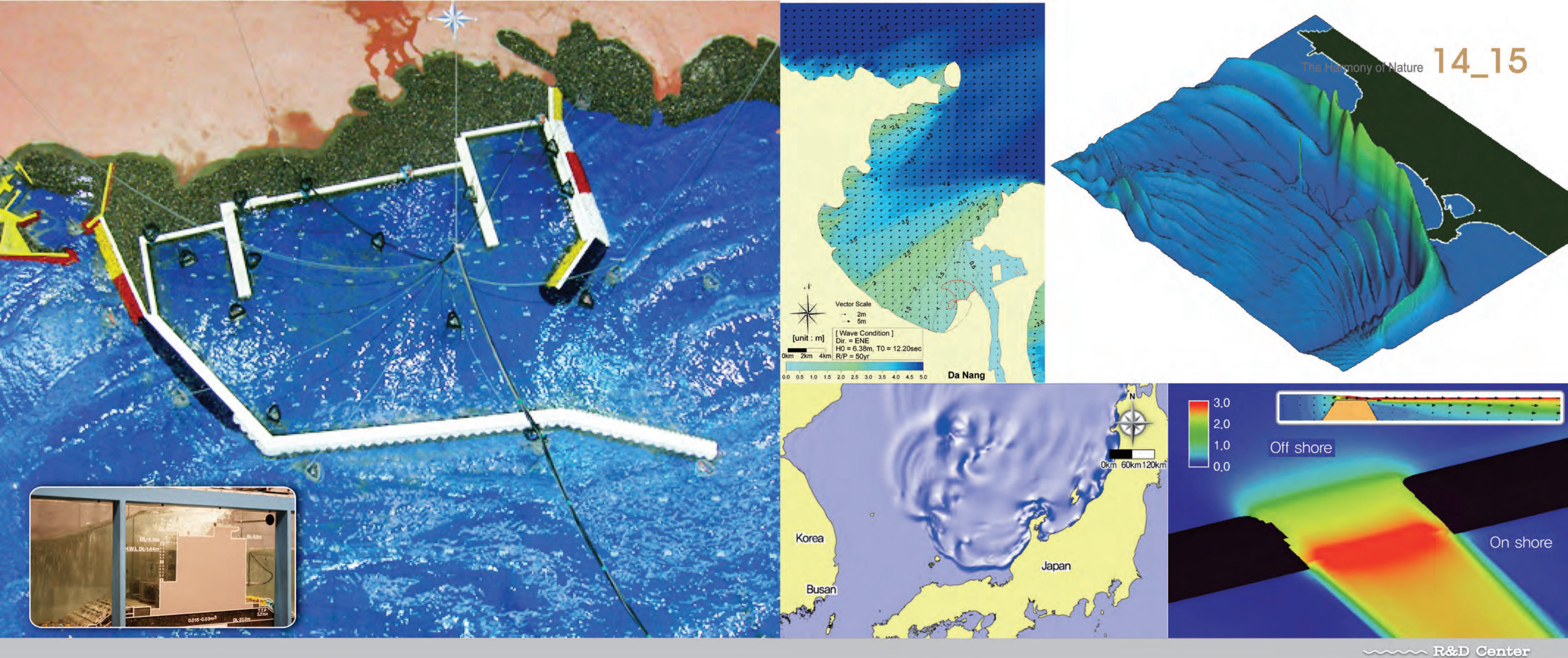
Construction Supervision Dept.

Construction Supervision Dept. has many highly qualified engineers, supervises construction work with superb quality and technology development, and provides the best satisfaction for customers.

To build the best architectures, engineers in Construction Supervision Dept. check every detail in construction work according to relevant construction rules and regulations. Also, as frontline workers in construction fields, engineers in Construction Supervision Dept. are making a great contribution to improve national competitiveness.

Main jobs

- Responsible Supervision
- Quality Control, Construction Supervision, Procedure Management, and Safety & Environment
- Supervision According to The Laws and Regulations
- Technical Assistant
 - Technical Review on Design Documents and Main Structures
 - Completion Inspection
 - Site Supervision, Checkup, Evaluation and Technical Education
 - Review of Design Changes and Contract Amount Adjustments

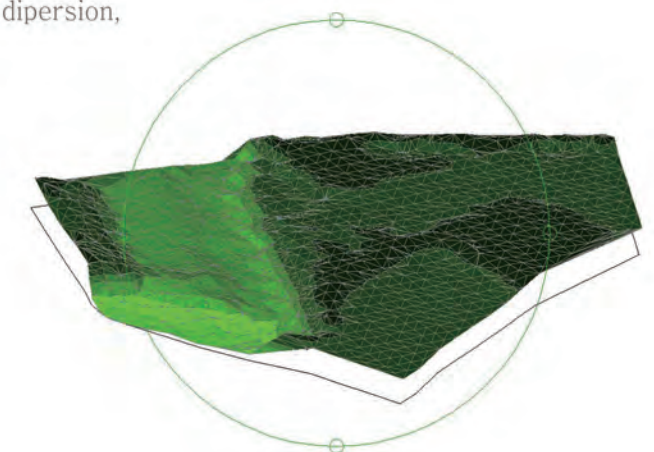


Research & Development

R&D center has been developing the new technology of Harbor & Coastal.
R&D center works in coporation with field agents to provide the best result.
Also, with accumulated know-how in numerical modeling of ocean.

Main jobs

- Numercal & Physical model
 - Wave, Surge, Current, Tranquility, Thermal effluent dipersion, Topography alteration, littoral movement etc.
- Oceangraphic survey
 - Wave, Tide, Current
- Design technology
 - Reliability design
 - Structure Modeling
 - BIM(Building Information Modeling)
- Harbor & Coast database setup



Major Projects

● Turn-Key & Detail design of Breakwater at Saemangeum Newport(Phase 1)

- Construction for tranquility of harbour
 - Breakwater: 1,600m
 - Shallow Draft Quay: 300m
 - Subsidiary Facility: 1EA



● Turn-Key & Detail design of Jeju naval base construction

- Construction for convenient and environment-friendly multi-purpose base connected with Naval base and Cruise Terminal
 - Breakwater : 2,449m
 - Naval Approaching Facility : 1,950m
 - Cruise Approaching Facility : 1,100m
 - Site making : 528,000m²
 - Subsidiary Facility : 1EA



● Turn-Key & Detail design of '10-Jin Wharf for measuring & removing Magnetic field

- Wharf Construction for measuring & removing Magnetic field of warships
 - Wharf for measuring & removing Magnetic field : 300m × 40m
 - Revetment: 304m
 - Facilities for measuring Magnetic field : 1EA
 - Facilities for removing Magnetic field : 1EA
 - Subsidiary Facility : 1EA



● Turn-Key & Detail design of Breakwater at Hong-Do Port

- Construction for tranquility of harbour
 - Breakwater : 150m
 - Subsidiary Facility : 1EA



● Port Design

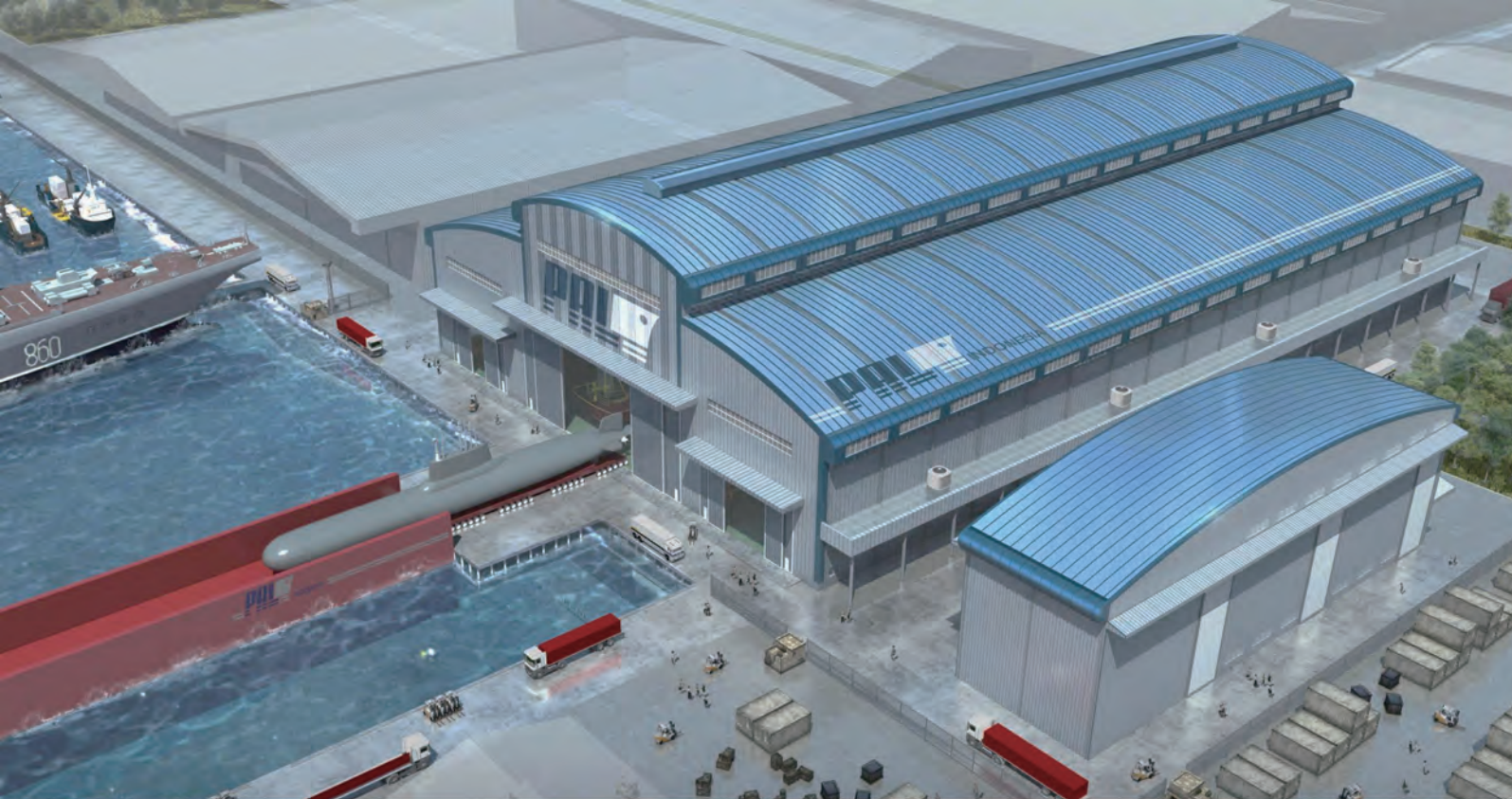
Government finance business

- Detail Design of outer facilities (Phase 2-1) at Pohang Youngilman
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- Design VE of '10-Pyeong 00Port Berthing Facilities
- Basic & Detail Design of Southport Berthing Facilities at Mokpo
- Basic & Detail Design of ship fueling facility at Sokcho
- Detail Design of Tourism facilities and Infrastructure at Silido
- Basic Design of Costal Improvement of Kkotji Beach at Taean-Gun

Turn-key and Alternative Design

- Alternative Design of Southern Breakwater and other Facilities(Step 2) at Ulsan New Port
- Turn-key Design of North Container Terminal Construction at Busan New Port
- Alternative Design of Revetment Road at Gunjang National Industrial Complex (Janghang District)
- Alternative Design of Gunjang New Port South Quaywall (section 3) Construction
- Turn-key Design of Mokpo Port Coast Guard dock and fishing pier Construction
- Alternative Design of Dojang Port Construction
- Turn-key Design of West Hinterland(section 1) Construction at Kwangyang Port
- Alternative Design of 2nd Spoil Dumping Field Construction at Gunsan Port
- Turn-key & Detail Design of Gunsan Shipyard Dock and Outfit Quaywall Construction
- Turn-key Design of Incheon New Port(Phase 1-1) Container Terminal Substructure Construction
- Turn-key Design of Busan New Port Breakwater Reinforcement Construction
- Turn-key & Detail Design of 08-301-1 Facilities Construction
- Alternative Design of Seokmoon National Industrial Complex Construction(section 6)
- Turn-key & Detail Design of Access Road and Revetment Construction(section 2)at Incheon New Port
- Turn-key & Detail Design of '10-Jin Wharf for measuring & removing Magnetic field
- Turn-key Design of 10-dong 00port Shiplift Facilities Construction
- Turn-key Design of South Breakwater at Pohang Yeongilman(Phase 1-1)
- Turn-key Design of West Container Terminal at Busan Newport(Phase 2-5)
- Turn-key Design of Breakwater at Saemangeun Newport(section 2)
- Turn-key & Detail Design of Breakwater at Hong-Do Port





Private Investment Projects

- Busan Newport Container Terminal(Phase 2-3)
- Ulsan New Port Developement(Phase1-1)
- Detail Design for Private wharf(cement) at Pyeongtaek & Dangjin(West 6th berth)
- Basic & Detail Design for 00 quaywall and reclamation construction
- Design of Masan port Developement plan (Phase 1-1)
- Basic & Detail Design for Busan New Port (Phase 2-4)
- Survey Service for Feasibility Study of Sacheon (Songpo Bay) Industrial Development
- Consultants Service of Sacheon Gwangpo General Local Industrial Complex
- Design of quaywall construction at Geoje shipyard
- Consultants Service of Sacheon Songpo General Industrial Complex
- Approval Application Service for Rear Package Construction for Mokpo Daebul Pier (61th, 62th berths)
- Design and Supervision for Steel Pier Construction Design at Jinhae Port
- Design and Supervision for South Port Wharf (1~9th berth) at Ulsan New Port (Phase 1-2)
- Engineering Changes of quaywall construction at Geoje shipyard
- Detail Design of Shipyard Construction at Masan Port(section 5)
- Consultants Service of Public Water Surface Land Reclamation Master Plan at Gongsu
- Consultants Service of Public Water Surface Land Reclamation Master Plan at Hannaemosa
- Basic & Detail Design of Intake and Discharge channels of Posco SNG Plant
- Detail Desing & Development Plan of Shipbuilding Industry of Hadong Galsa-Man
- Design for F/D Mooring Method of Saemangeum New Port Breakwater(Phase1)
- T/K Design for Emirates LNG Terminal Project
- Design Review for Disaster Risk Districts Improvement Construction at Hongdo-Port
- Soft Ground Improvement for General Research Institute of Hadong Galsa-Man

Overseas design

- Coal Transportation Route Study of Nam-Dinh Power Plant
- Emirates LNG Terminal Project
- Upgrade the facilites for submarine repair and maintenance including a new submaine construction

Other design

- Turn-Key Design of Korea Armed Forces Athletic Corps
- Turn-Key & Detail Design of Gogunsan Islands connecting roads (section 2) construction
- Turn-Key Design of Boryung - Taeon (section 1) Road Construction
- Turn-Key & Detail Design of Aphae - Amtae (section 1) road construction
- Turn-Key Design of Aphae - Amtae (section2) road construction
- Turn-Key & Detail Design for Relocation of Republic of Korea Army Special Warfare Command and 3rd commando Brigade relocation)
- Turn-Key & Detail Design of Haui & Shinui Bridge
- Turn-Key Design of Hwayang & Jeokgeum Rode Construction

Supervision

- Supervision of extension constructionUlsan port Hwa-am pier outfitting Quaywall
- Supervision of Reconstruction & unloading crane rail installation
- Supervision of Jinhae National Industrial Complex construction
- Supervision of Ulsan port Yeompo pier (section 2) Construction
- Supervision of Private wharf(West No.6 berth) construction at Pyeongtaek & Dangjin
- Supervision of Kamcheon port outfitting Quaywall Construction
- Supervision of Pohang Youngilman Counter Facilities(Phase 2-1) Construction
- Supervision of Gamcheon Port Counter Facilities Construction
- Supervision of Galsa-Man Shipping Industrial Complex
- Supervision of Breakwater Construction of Ulleungdo Sadong Port(Phase 2)