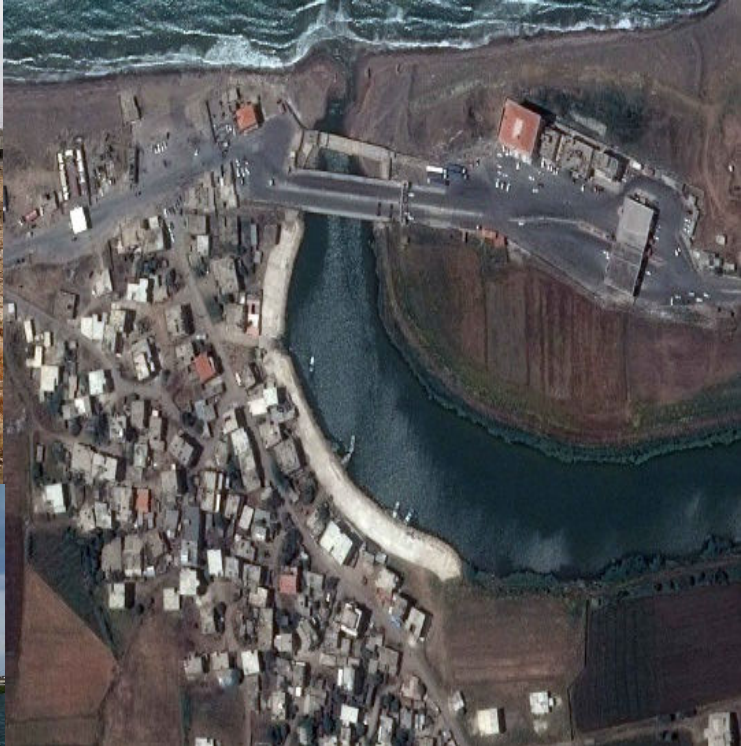




COASTAL PROTECTIONS

SEATEC SARL

We understand the language of Waves



LEBANON

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SUPERVISING EXPERTS AND TECHNICAL ENGINEERING CONSULTANTS SINCE 2000

/ ABOUT US /

SEATEC provides its clients with design and supervision services in coastal and port engineering, covering surveying, site investigation, tender and detailed design, numerical modeling, feasibility and EIA studies, permitting, construction planning, management and supervision.

Serving public as well as private sectors in Lebanon and abroad since 2000, **SEATEC** is dedicated to give its clients the best engineering assistance.

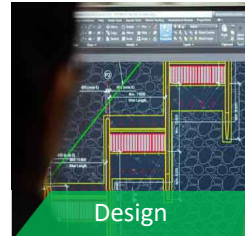


✓ OUR SERVICES ✓

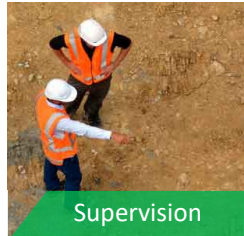
*SEATEC IS COMMITTED TO PROVIDING ITS CLIENTS
WITH THE BEST ENGINEERING SERVICES COVERING THE FOLLOWING:*



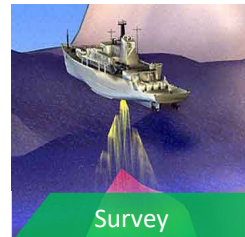
Coastal Protections



Design



Supervision



Survey



Enviro Studies





Coastal Protections - SEATEC scope

• DESIGN

- Conceptual, Tender and detailed design
 - o Master planning for coastal protections
 - o Site selection and evaluation
 - o Dredging plan
 - o Marine structures (Breakwaters - platforms)
 - o Landscaping
 - o MEP (Electrical and water supply...)
 - o Feasibility studies
 - o Detailed drawings
 - o Tender documents, technical specification and BOQ
 - o Assistance of Client in bidding procedures
 - o 3D views and animation
- Modeling
 - o Numerical modeling of deepwater and nearshore waves
 - o 2D/3D physical modeling and collaboration with international companies
- EIA / Permitting
 - o EIA studies
 - o Permits follow up

• SURVEY

- Topographic survey
- Bathymetric survey (multi beams echo sounding)
- Underwater inspection (diving, underwater pics and videos, sampling, assessment of existing structures conditions)
- Geotechnical investigation: Follow up on site of drilling and sampling operations (onshore and offshore)

• SITE SUPERVISION

- Follow up by SEATEC supervision team of works execution on site (daily presence)
- Instructions for contractors
- Inspection
- Approval of contractor payments

MPWT
DGLMT
DGRB
POTA
EDL

: Ministry of Public Works and Transport
: Directorate General of Land and Marine Transport
: Directorate General of Roads and Buildings
: Port Of Tripoli Authority
: Electricité Du Liban





Coastal Protections

- **PROTECTION OF NAHER EL KEBIR RIVER BANKS (LEBANON – CLIENT : MPWT / DGLMT)**
 - Design and Supervision of river bank protection with sloped rocky protection, R.C. platforms and dredging of river entrance. (2012 - 2013)
- **AKKAR BEACH PROTECTION (AKKAR • LEBANON – CLIENT : MPWT / DGLMT)**
 - Design of groynes and detached breakwaters for the coastal protection Akkar Beach. (2016)
- **TALL HAYAT COASTAL PROTECTION (AKKAR • LEBANON – CLIENT : MPWT / DGLMT)**
 - Design of groynes and detached breakwaters for the coastal protection of nearshore houses. (2016)
- **COASTAL PROTECTION OF PLOT N126-127 (BEDDAWI • LEBANON – CLIENT : SOLVOCHEM)**
 - Design of a rocky coastal protection (L=270m). (2013)
- **COASTAL PROTECTION OF THE RECLAIMED LAND FOR THE WWTP AT TRIPOLI (LEBANON)**
 - Review of the armoring stones concept and design (L=900m). (2004 - 2005)
- **COASTAL PROTECTION OF THE RECLAIMED LAND FOR THE WASTE DISCHARGE AT TRIPOLI (LEBANON)**
 - General guidance for the Contractor in charge of executing the coastal protection (Rocky slopes, land reclamation and retaining wall). (2006)
- **PROTECTION OF SOUTHERN SANDY BEACH AT TRIPOLI (TRIPOLI • LEBANON – CLIENT : MPWT / DGLMT)**
 - Design of a stones seawall as coastal protection (L=260m). (2006)
- **GROYNE & QUAY WALL AT SOUTHERN SANDY BEACH / TRIPOLI • LEBANON (CLIENT : MPWT / DGLMT)**
 - Design of a Groyne (with rocky protections) and a quaywall @ -3.00m with precast concrete blocks. (2006)
- **COASTAL PROTECTION AT EL MINA CORNICHE (TRIPOLI • LEBANON – CLIENT : SOTEG)**
 - Design of a rocky coastal protection (L=300m). (2014)
- **COASTAL PROTECTION OF MARSATI SCHOOL (BATROUN • LEBANON – CLIENT : MPWT / DGLMT)**
 - Design of a coastal protection with Accropodes blocks for the maritime school at Batroun. (2019 - 2020)
- **EDDEH RESIDENCE COASTAL PROTECTION (AMCHIT • LEBANON – CLIENT : EDDEH)**
 - Design of a rocky coastal protection for nearshore chalets. (2014)
- **BYBLOS BEACH VILLAGE COASTAL PROTECTION (BYBLOS • LEBANON – CLIENT BBV)**
 - Design and Supervision of a rocky coastal protection for nearshore apartments. (2014 – 2015)
- **SEAWALL FOR LE PECHE RESTAURANT (MAAMELTEIN • LEBANON – CLIENT : AQUAMARINA)**
 - Design of a RC seawall for the protection of Le Pêche Restaurant (2013)
- **COASTAL PROTECTION OF DBAYEH HIGHWAY (LEBANON – CLIENT : MPWT / MPWT)**
 - Conceptual Design of a highway coastal protection (L=300m). (2014)
 - Design and Supervision of the marine protection works along 1500m of the coastal road (Accropodes Blocks, rocky protection, walkways, landscaping, lighting, road, bituminous coating...). (2016 - 2017 - 2018)
- **COASTAL PROTECTION FOR PLOTS 92 - 229 (ANTELIAS • LEBANON – CLIENT : AISHTI)**
 - Design and Decree preparation for rocky coastal protection. (2012 - 2013 - 2017)





- **COASTAL AND FLUVIAL PROTECTION OF PARCEL N32 (NAHR IBRAHIM • LEBANON)**

- Coastal and Fluvial protection of parcel N32 at Naher Ibrahim. (2012)

- **COASTAL PROTECTION OF SPORTING CLUB (BEIRUT • LEBANON)**

- Coastal protection of underwater concrete and seawall. (2019)

- **COASTAL PROTECTION OF PLOT KHALDEH PLOT (KHALDEH – LEBANON)**

- Design of a rocky coastal protection for the plot. (2012)

- **COASTAL PROTECTION FOR GHAZIEH INDUSTRIAL ZONE (LEBANON – CLIENT : MPWT / DGLMT)**

- Design of coastal protection - stones armoring - (L=500m). (2003 - 2004)

- **COASTAL PROTECTION FOR INDUSTRIAL ZONE AT GHAZIEH (LEBANON – CLIENT : MPWT / DGLMT)**

- Design of a rocky coastal protection for industrial buildings with land reclamation. (2006 - 2007 - 2008 - 2009)
- Supervision of execution works. (2010)

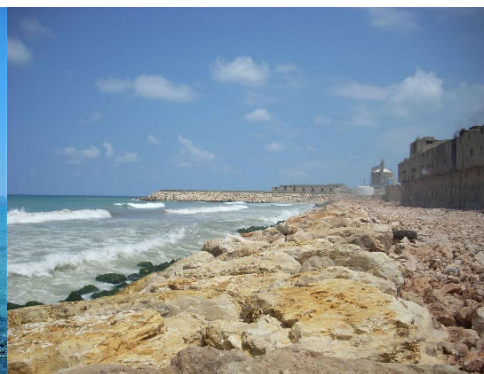
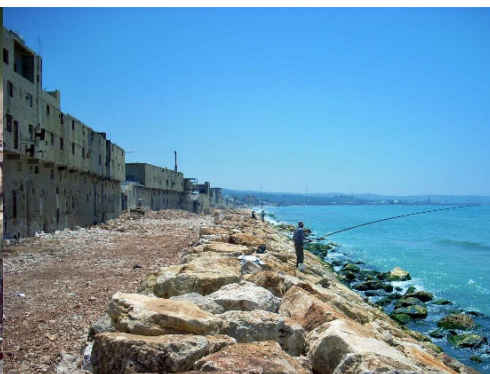
- **COASTAL PROTECTION FOR TYR LIGHTHOUSE (LEBANON – CLIENT : MPWT / DGLMT)**

- Design of a rocky underwater reef protection for Tyr lighthouse. (2013)

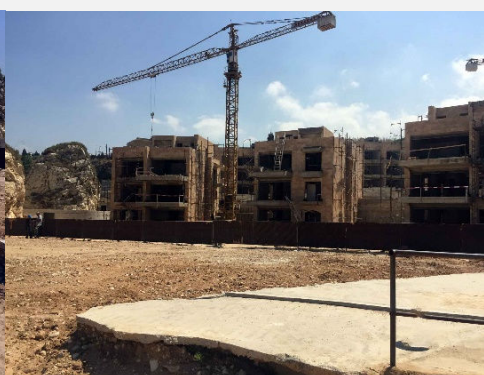
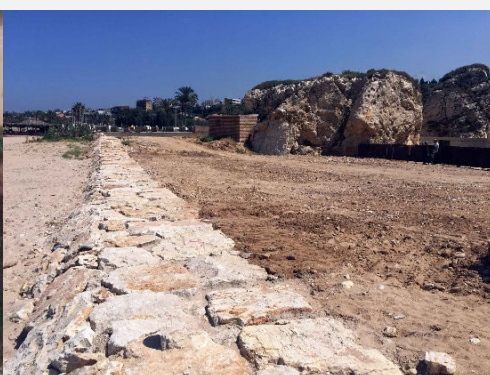
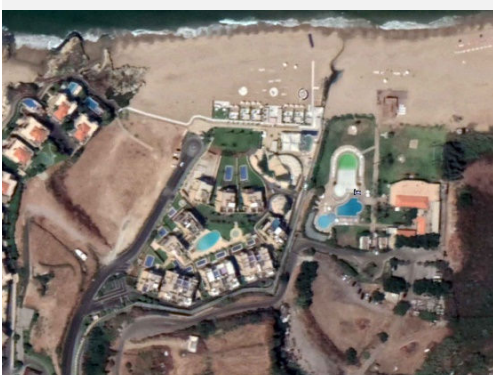


PROTECTION OF NAHER EL KEBIR RIVER BANKS

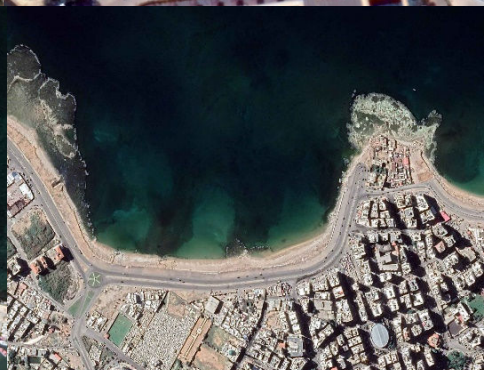
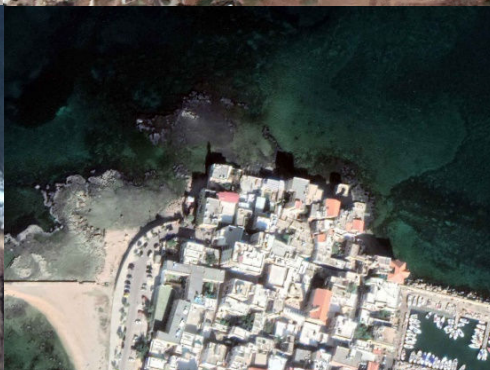
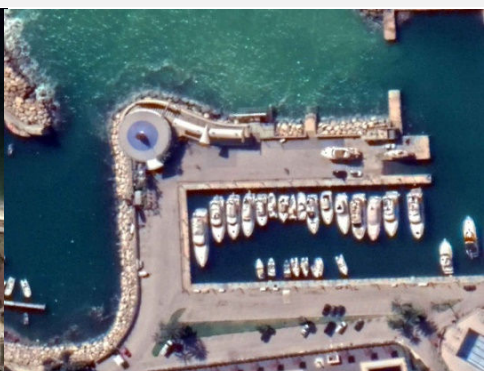
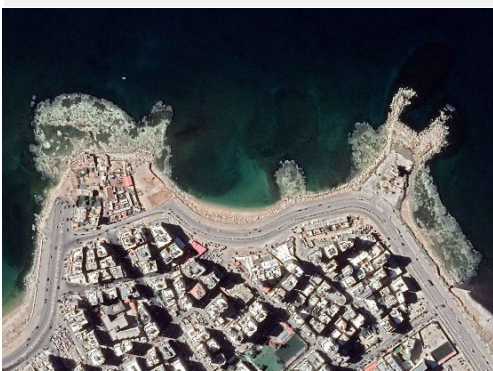




PROTECTION OF GHAZIEH INDUSTRIAL ZONE



PROTECTION OF BYBLOS BEACH VILLAGE



MISCELLANEOUS COASTAL PROTECTIONS



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THE END

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