

FORCE
Offshore Kish

SUBSEA PIPELINE

PROTECTION & STABILITION



- Flexible Concrete Mattress
- Freespan Correction Grout Bag
- Offshore Grout Injection Spread
- Offshore Grouting Operation Management

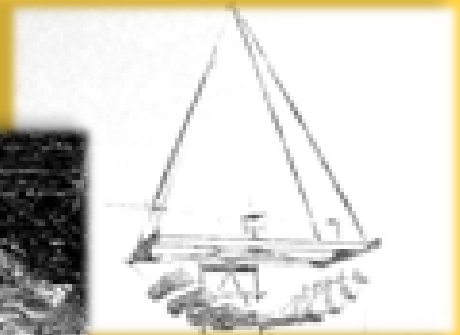
More info : www.force-ok.com



FORCE OFFSHORE KISH company was established as the first Iranian company that manufacture all kind of grout bag , blanket and Geo bag, Marine grouting operation , Flexible Concrete mattress construction, etc.

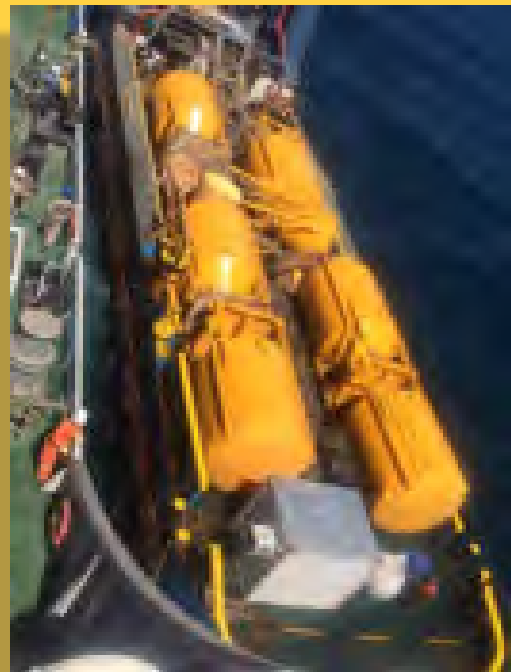
FORCE OFFSHORE KISH is led by a highly motivated management team and supported by skilled engineering and operation's team.

For more information, please see : www.force-ok.com



Facilities and Equipment:

- Experienced Engineering, Management and Operation team.
- Equipment of Mixing and Marine grout injection.
- Grout bag and Geo bag MFG. Workshop
- Concrete block mattress fabrication yard



Products and Services:

1. Free span grout bag MFG.

FORCE OFFSHORE's fabric formworks are a flexible shuttering, Fabricated from woven fabric which is filled with grout in-situ.



2. Geo bag MFG.

Special bags that used for securing pipeline (can be used under / above the pipeline) to make Stabilizing and impact prevention.

Geo bag is made of Polypropylene nonwoven geo textile. Mega Geo bag and Geo sand bag are instances of this MFG.



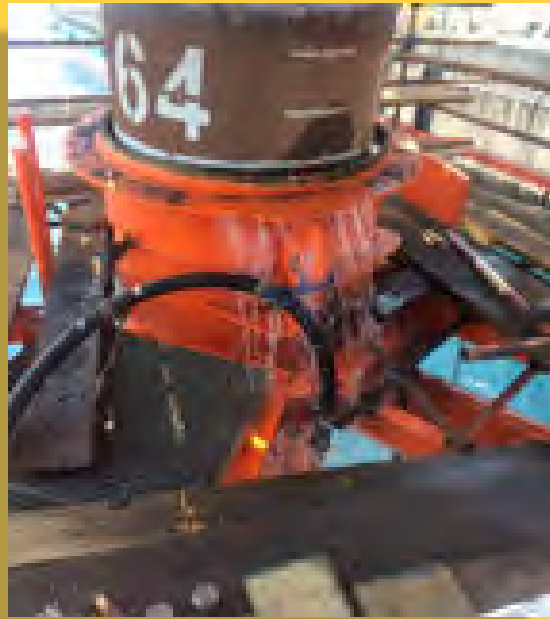
3. Free Span Correction grouting operation

In FSC project, after grout bag installation, until the filling, cement grout injection should starts. Concrete mix and pumping operations are performed on a vessel.



4. Jacket grouting operations

Force offshore developed their unique Continuous Recirculation Mixers. Over the years, FORCE OFFSHORE's grout mixers have been so consistent in their production of high strength grouts that platform designers have been able to reduce the length of the pile-sleeve connection.



5. Concrete mattress construction and operation

The use of concrete mattress is the other method to protect the pipeline. They have similar schemes to grout bag.



6. Flexible Concrete block mattress construction

Concrete block mattress consist of concrete blocks linked together with high resistance ropes. They are used to:

- Protect cable against dropped objects.
- Line Support and Stabilization.



7. Concrete/Grout blanket MFG.

To prevent from any soil erosion, especially in canals, it is necessary to protect this place with a firm layer. One of the best methods is the use of Concrete Blanket.



Accomplished and In Progress Projects

COMPLETED and ONGOING:

1-Concrete block mattress construction

Project Name: SOUTH PARS GAS FIELD DEVELOPMENT PHASES 12 Tubing

Client: IOEC

2- Grout Bag MFG. and Free Span Correction Grouting Operation

Project Name: SOUTH PARS GAS FIELD DEVELOPMENT PHASES 15, 16

Client: IOEC / RAL Offshore

3- Shoreline Protection Geo bag MFG. And Operation

Project Name: Siri – Assaloyeh Pipeline

Client: IOEC / RAL Offshore

4- Cable Crossing Concrete Block Mattress Construction

Project Name: SOUTH PARS GAS FIELD DEVELOPMENT PHASES 15, 16

Client: IOEC / S.G.K

5-Cable Crossing Concrete Block Mattress Construction

Project Name: SOUTH PARS GAS FIELD DEVELOPMENT PHASES 17, 18

Client: IOEC / S.G.K

6-Grout Bag MFG. and Free Span Correction Grouting Operation

Project Name: SOUTH PARS GAS FIELD DEVELOPMENT PHASES 12

Client: IOEC

7-Crossing Concrete Block Mattress Construction

Project Name: Foroozan Offshore Pipeline

Client: IOEC / S.G.K

8-Grout Bag MFG. and Free Span Correction Grouting Operation

Project Name: SOUTH PARS GAS FIELD DEVELOPMENT PHASES 15, 16

Client: IOEC

9-Geo Sand Bag MFG.

Project Name: SOUTH PARS GAS FIELD DEVELOPMENT PHASES 15, 16

Client: IOEC

10-Geo Sand Bag MFG.

Project Name: Foroozan Offshore Pipeline

Client: IOEC

11-Grout Bag MFG. and Free Span Correction Grouting Operation

Project Name: SOUTH PARS GAS FIELD DEVELOPMENT PHASE 17

Client: IOEC

12-Grout Bag MFG. and Free Span Correction Grouting Operation

Project Name: Foroozan Field

Client: S.G.K

13-Flexible Concrete Block Mattress Construction

Project Name: SOUTH PARS GAS FIELD DEVELOPMENT PHASE 19

Client: IOEC

14-Flexible Concrete Block Mattress Construction

Project Name: SOUTH PARS GAS FIELD DEVELOPMENT PHASES20, 21

Client: IOEC

15-Flexible Concrete Block Mattress Construction

Project Name: SOUTH PARS GAS FIELD DEVELOPMENT PHASE 14

Client: IOEC

16-Grout Bag MFG. and Free Span Correction Grouting Operation

Project Name: SOUTH PARS GAS FIELD DEVELOPMENT PHASE 18

Client: IOEC

17-Grout Bag MFG. and Free Span Correction Grouting Operation

Project Name: SOUTH PARS GAS FIELD DEVELOPMENT PHASE 16 (trench)

Client: IOEC

18-Geo Sand Bag MFG.

Project Name: Bahregansar Offshore Pipeline

Client: SADAF

19-Flexible Concrete Block Mattress Construction

Project Name: SOUTH PARS GAS FIELD DEVELOPMENT PHASE 13

Client: Deep Offshore Technology Co. (DOT/SADRA Co.)

20- Flexible Concrete Block Mattress Construction

Project Name: SOUTH PARS GAS FIELD DEVELOPMENT PHASE 22-24

Client: Deep Offshore Technology Co. (DOT/SADRA Co.)

21-Grout Bag MFG. and Free Span Correction Grouting Operation

Project Name: Reshadat Field Pipelines

Client: AKAM Co. (TASDID Offshore Development Co.)

22-Spool Piece Protection Flexible Concrete Block Mattress Construction

Project Name: Foroozan Field Pipelines Spool Piece Installation

Client: synergy subsea engineering LLC (Petroiran Development Co.)

23- Grout Bag MFG. And Free Span Correction Grouting Operation (Spool's FSC)

Project Name: Foroozan Field Pipelines Spool Piece Installation

Client: synergy subsea engineering LLC (Petroiran Development Co.)

24-J-Tube support & Cable Protection Grout Blanket MFG. and Grouting Operation

Project Name: South Pars SPIFON II Cable protection

Client: synergy subsea engineering LLC (E-Marine Co.)

25- Grout Bag MFG. And Free Span Correction Grouting Operation (Spool's FSC)

Project Name: SOUTH PARS GAS FIELD DEVELOPMENT PHASE 19

Client: Ral Offshore co. (IOEC)

26- Grout Bag MFG. And Free Span Correction Grouting Operation

Project Name: SOUTH PARS GAS FIELD DEVELOPMENT PHASE 20,21

Client: SGK – IOEC

27- Flexible Concrete Block Mattress Construction (cable crossing support)

Project Name: SOUTH PARS GAS FIELD DEVELOPMENT PHASE 14

Client: IOEC

28- Flexible Concrete Block Mattress Construction (Spool Protection)

Project Name: SOUTH PARS GAS FIELD DEVELOPMENT PHASE 19

Client: IOEC

29- Jacket's Pile Grouting, (SPD14A & SPD14C).

Project Name: SOUTH PARS GAS FIELD DEVELOPMENT PHASE 14

Client: Noandishan Offshore Lian – ISOICO

30- Jacket's Pile Grouting, (SPD13A).

Project Name: SOUTH PARS GAS FIELD DEVELOPMENT PHASE 13

Client: DOT – SADRA

31- Jacket's Pile Grouting, (SPD24A).

Project Name: SOUTH PARS GAS FIELD DEVELOPMENT PHASE 24

Client: DOT - SADRA

32- Grout Bag MFG. And Free Span Correction Grouting Operation

Project Name: SOUTH PARS GAS FIELD DEVELOPMENT PHASE 13

Client: DOSI Co. (SGK & IOEC Co.)

33- Grout Bag MFG. And Free Span Correction Grouting Operation

Project Name: SOUTH PARS GAS FIELD DEVELOPMENT PHASE 14

Client: RAL Co. (IOEC Co.)

34- Flexible Concrete Block Mattress Construction (Spool Protection)

Project Name: SOUTH PARS GAS FIELD DEVELOPMENT PHASE 14

Client: RAL Co. (IOEC Co.)

35- Grout Bag MFG. And Free Span Correction Grouting Operation

Project Name: SOUTH PARS GAS FIELD DEVELOPMENT PHASE 13

Client: DSOI Co. (IOEC Co.)

36- Flexible Concrete Block Mattress Construction (cable crossing support)

Project Name: SOUTH PARS GAS FIELD DEVELOPMENT PHASE 22-24

Client: DOT – SADRA

37- Jacket's Pile Grouting, (SPD24B).

Project Name: SOUTH PARS GAS FIELD DEVELOPMENT PHASE 24

Client: DOT - SADRA

38- Jacket's Pile Grouting, (SPD14B).

Project Name: SOUTH PARS GAS FIELD DEVELOPMENT PHASE 14

Client: Noandishan Offshore Lian – ISOICO

39- Grout Bag MFG. And Free Span Correction Grouting Operation

Project Name: SOUTH PARS GAS FIELD DEVELOPMENT PHASES 13, 14, 23

Client: RAL Co. (IOEC Co.)

40- Jacket's Pile Grouting, (SPD14D).

Project Name: SOUTH PARS GAS FIELD DEVELOPMENT PHASE 14

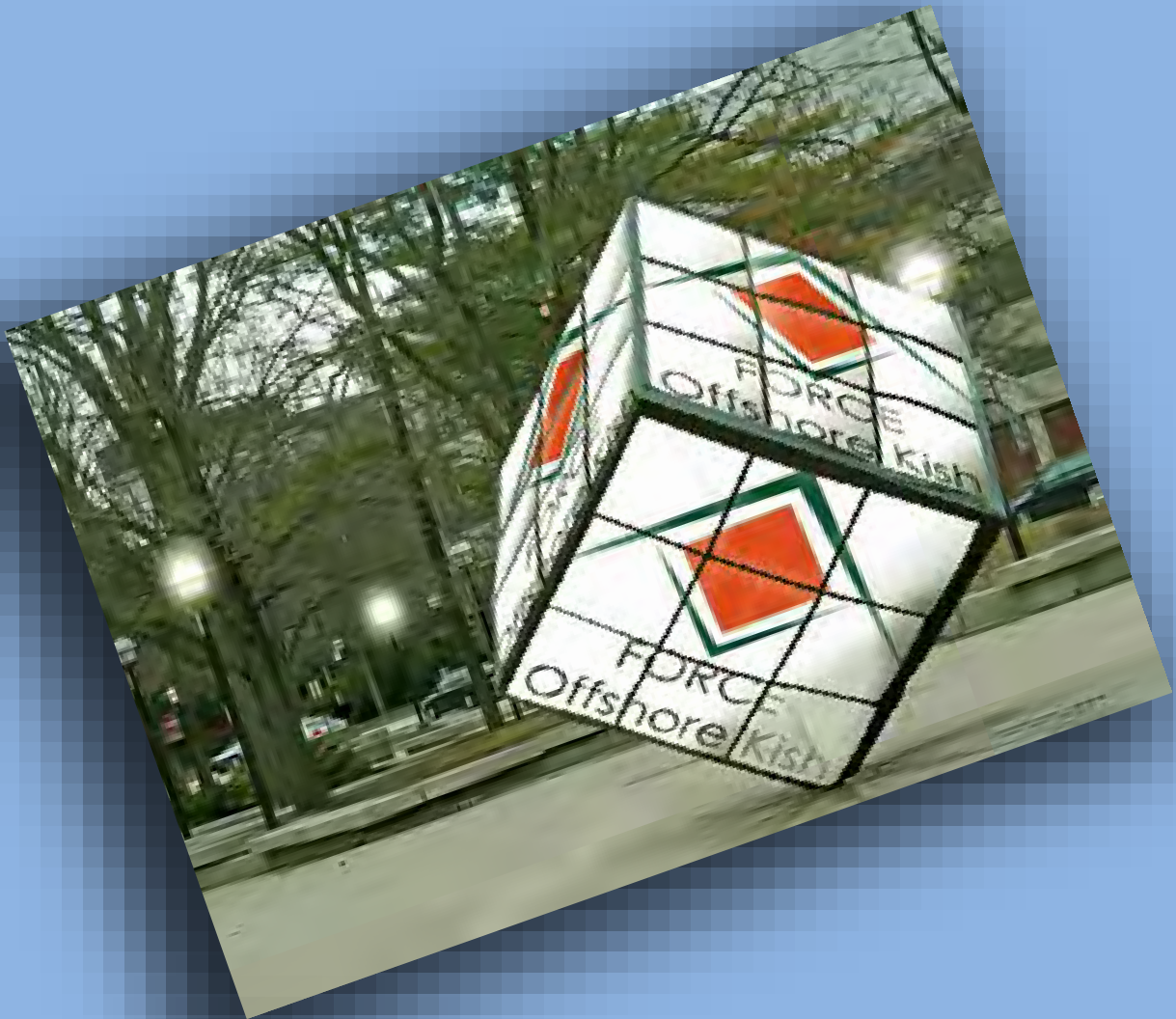
Client: Noandishan Offshore Lian – ISOICO

41- Flexible Concrete Block Mattress Construction (Spool Protection)

Project Name: SOUTH PARS GAS FIELD DEVELOPMENT PHASES 13,23

Client: IOEC







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