

# ICE - Libya

For Oil Services

Company Profile

The Best On Time



E-Mail: [info@ice-oilservices.com](mailto:info@ice-oilservices.com)  
[www.ice-oilservices.com](http://www.ice-oilservices.com)





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# INTRODUCTION

**ICE Libya was established in 2022 by a group of highly Oil and Gas experts in the areas of oil services and Engineering, Assets Integrity Management, Corrosion and Inspection Engineering Management. Throughout the years ICE has gained the trust of its customers. An excess of 300 successful projects in the MENA region were delivered. ICE services cover many industrial sectors including; Oil and Gas, Power Generation, Infra Structure and Industry.**



# Vision

**V**

ICE shall bring innovative solutions for the safe and profitable operation of its customers.

The welfare of its clients and the community is our ultimate goal.

# Mission

**M**

Provide the end users with innovative proven engineered solutions to maintain the safety, integrity, reliability and the availability of the assets. We aim at providing

**M**

solutions for the end users to establish a safe and sustainable production and achieve operational excellence.





## OUR SERVICES

### 4.1. WORKOVER SERVICES

We currently can offer different rigs as 1200 HP, 1000 HP, 750 HP & 650 HP rigs. Our fleet includes 750 HP truck mounted and 650 HP, fast moving rigs that are ideal for both light and heavy workover campaigns as both rigs are equipped with full edge mud system that can handle normal drilling activities.

#### Scope of work:

- 🔥 Well rehabilitation
- 🔥 Casing milling and cutting
- 🔥 Recompletion and under reaming jobs in open hole intervals
- 🔥 Replacement of surface and downhole completion equipment
- 🔥 Fishing jobs
- 🔥 Well abandonment



## 4.2. SURFACE WELL TESTING

**ICE provides surface well testing packages with different pressure rate in addition to EPF includes all size of separators with, pumps, Tanks, chemical injection pumps & Heaters and all other related accessories based on client request.**

**Using mobile testing packages Efficiently bring wells online and optimize production planning decisions with accurate real-time data, for exploration and appraisal operations through development and production campaigns.**

**ICE delivers committed testing services when and where you need them.**

### 4.3. COILED TUBING, Nitrogen & Stimulation Services

ICE provides Coiled tubing, with various associated applications, Pumping, Stimulation, Nitrogen lifting, scale removal, well circulation, through tubing plug setting, milling & clean-out, utilizing its most updated units, treatment designs and chemical systems.

ICE employs Complete data acquisition, real-time fatigue monitoring and tubing forces modelling software packages, to predict coiled tubing string performance and fluid behavior at modelled down hole well conditions, & to monitor & update the working coiled tubing string history and integrity

Our services portfolio includes all the tools and services you need for efficient and effective CT interventions.

#### ICE Coiled Tubing also provide the following services:

- Stimulation treatments
- Spotting temporary and permanent cement plugs
- Squeezing operations for zone isolation / water or gas shut-off
- Fishing / milling operations
- Well killing
- Sand cleanouts
- Kicking off wells with Nitrogen
- Memory and real time Logging
- Running and pulling velocity strings
- HPHT wells
- Vertical and extended reach wells horizontal wells
- Dual Completion wells





## 4.4. SLICKLINE SERVICES

ICE has a wide range of equipment and down hole tools to serve all kind of slickline services for onshore & offshore operations, from basic completion intervention applications to advanced services include Basic removal of scale, wax and sand build-up, setting plugs, changing out gas lift valves, fishing and other complex well applications.

ICE provides slickline trucks & independent crane truck which designed to deliver heavy-duty service in desert environments, also provides a range of offshore equipment.

Different sizes of PCE and multiple sizes of slickline tools are available to meet the specific needs of customer operations.







## 4.5. Drilling Fluids & Mud Engineering Services

IGPSCO is one of the best drilling fluids service providers and chemical suppliers in the Middle East and offers cost effective mud engineering solutions for drilling complications like shale inhibition, abnormal pressure and temperature using both water and oil-based mud. IGPSCO has also successfully engineered wells demanding the use of carefully balanced chemical formulations to control sub-surface pressures and to perform a variety of other essential down-hole functions. IGPSCO has experience in drilling exploratory, appraisal and development wells, both vertical and horizontal. The company has wide experience in formulating drilling fluids for drilling complex geology with high H<sub>2</sub>S content and high temperatures. The Drilling Fluid Engineers at IGPSCO are drawn from a multinational pool of highly qualified and experienced specialists.

### DRILLING FLUIDS - LABORATORY SERVICES:

IGPSCO operates dedicated laboratory facilities, managed by qualified and experienced chemists, to carry out tests and analysis on well fluids and chemicals for operational and quality control purposes. These tests are performed both on the client's request and for quality assurance of chemicals. Laboratory work evaluates the behavior of chemicals and drilling fluid formulations under simulated 'downhole' conditions of temperature and pressure. Our chemists undertake R&D work to develop new products and formulations for field applications. The laboratories are also utilised to train new engineers.





## **DRILLING FLUIDS - CHEMICAL SUPPLIES:**

**IGPSCO has a wide-ranging experience in a complete range of drilling fluids additives such as De-emulsifiers, De-oilers, H<sub>2</sub>S scavengers, Scale/Corrosion inhibitors, Oxygen scavengers, Biocides and Drag reducers for specific field and crude requirements. IGPSCO also has tie-ups with many of the leading manufacturers of chemical for the oil & gas sector. IGPSCO customises and supplies specialised oilfield chemicals for various operations, like drilling, completion services, maintenance, and crude oil treatment.**

### **Shale Stabilizers**

**Sodium Sulphonated Asphalt  
/Sodium Asphalt Sulfonate**

**Potassium Sulphonated Asphalt / Potassium Asphalt Sulfonate**

**Oxidized Asphalt, Blown Asphalt**

**Synthetic Gilsonite: Equivalent To natural Gilsonite**

**PHPA (Powdered/Liquid and Low Viscosity PHPA)**

**Dispersants and Deflocculants / Thinners**

**Lignites : Lignite Powder**

**,Causticized Lignite, Potassium Lignite,**

**Chrome Lignite, Causticized Potassium Lignite, Organophillic Lignite**

**Lignosulfonates : Chrome Free Lignosulfonates , Ferro-Chrome**



- Cloud Point Glycol :High Medium and Low Cloud Point
- Sodium Silicate/Potassium Silicate
- Polyacrylate ,Polyglycol , Polyacrylamide
- Natural Gilsonite
- Asphaltine Shale Stabilizer
- OBM Fluid Loss Reducer

#### **Lignosulfonate Chrome Lignosulfonate , Potassium Lignosulfonate**

- Tannin : Modified Tannin Based Thinner
- Polyacrylates
- Anionic Polymers

#### **Drilling Mud Deafoamers and Foaming Agents**

- Alcohol Base Defoamer
- Brine Defoamer
- Stearate Base Defoamer
- Butyl Base Defoamer
- Silicate Base Defoamer
- Drilling Foaming agent

#### **Drilling Mud Lubricants and Spotting Fluids**

- Extreme Pressure Lubricant (Water Based)
- Extreme Pressure Lubricant (Esther Based)
- Extreme Pressure Lubricant (For Sodium Silicate Mud)
- Extreme Pressure Lubricant (Environmentally Friendly Nontoxic Oil Based)
- Range of Customized Special Purpose Lubricants
- Anionic Surfactant
- Asphaltic Base Spotting Fluid
- Drilling Detergent
- Rig Wash
- Cationic Surfactant
- Non Ionic Surfactant





- Spotting Fluid (Non Weighted) : Pipe Free /Stuck Pipe remover  
- Spotting Fluid (Weighted) : Pipe Free /Stuck Pipe remover

#### **Filtration Control Chemicals (Fluid Loss Control Additives)**

- Carboxy Methyl Cellulose: CMC HV, CMC LV  
- Poly Anionic Cellulose: PAC R, PAC LV, PAC ULV  
- Resinated Lignite  
- Pregelatinized Starch/ Drilling starch High Temperature

#### **Loss Circulation Material**

- Walnut Shell (Nut Plug): Coarse, Medium and Fine  
- Mica Flakes: Coarse, Medium and Fine  
- Blended LCM and Fibrous LCM  
- Calcium Carbonate F/M/C and Seized Calcium Carbonate

#### **Drilling Polymers**

- Partially Hydrolyzed Poly Acryl amide (PHPA): Liquid  
- Partially Hydrolyzed Poly Acryl amide (PHPA): Powdered  
- Cloud Point Glycol: High Medium and Low Cloud Point Glycol

#### **Viscosifiers**

- Bentonite Extender API/OCMA  
- Carboxy Methyl Cellulose (CMC)  
- Poly Anionic Cellulose (PAC)  
- Drilling Starch  
- Modified Lignite/ Organophilic Lignite  
- Guar Gum  
- Sodium PolyAcrylate : Liquid and Powder  
- Total Seal F/M/C  
- Cotton Seed Hull  
- Cellophane Flakes  
- Marble Chips  
- Saw Dust  
- Xanthum Gum  
- Hydro Ethyl Cellulose (HEC)  
- Sodium Polyacrylate





- Synergistic Polymer
- Guar Gum
- Attapulgate Clay(Salt Water Clay)
- Xanthum Gum(XC Polymer)
- Drilling Polyme

#### **Emulsifiers for Water based and Oil Based Systems**

- Primary Emulsifier
- Secondary Emulsifier

#### **Corrosion Inhibitors and Scavengers and Biocides**

- Corrosion Inhibitor for Oil Line
- Corrosion Inhibitor for Gas Line
- Oxygen Scavenger
- Zinc carbonte (H2S Scavenger)
- Biocide (Amine type and Aldehyde Type and Ammonium Type)

#### **Oil Based Systems and Products**

- Amine Treated Lignite
- OBM Fluid Loss Controller
- OBM Emulsifiers : Primary and Secondary
- Organic Surfactant Emulsifier

#### **Cement additives**

- Calcium Chloride
- Silica Flour
- Fly ash

#### **Workover and Completion Fluids**

- Calcium Bromide
- Zinc Bromide
- Organophilic Clay ,Organophilic Lignite



- **Fumed Silica**
- **Cementing Grade Bentonite**
- **OBM Viscosifier**
- **OBM Filtration Controller**
- **OBM Rheology Modifier**
- **OBM Emulsifiers**

#### **Weight Materials**

- **Bentonite API/OCMA**
- **Barite API /OCMA**
- **Calcium Carbonate: Fine /Medium**

#### **Coarse and Seized Calcium carbonate**

- **Ground Marble Chips**
- **Hematite**
- **Attapulgite Clay**

#### **Commercial Chemicals: Stocked and Traded**

- **Potassium Chloride (KCL)**
- **Calcium Chloride**
- **Salt : Sodium Chloride**
- **Lime :Calcium Hydroxide**
- **Potassium Sulphate**
- **Soda Ash**
- **Soda Bi-Carbonate**
- **Magnesium Oxide**
- **Sodium Bi-Carbonate**
- **Potassium Hydroxide (KOH)**
- **SAPP**
- **Caustic Soda**
- **Citric Acid**
- **Acetic Acid**
- **Potassium Iodide**



# CIPS and DCVG survey



**Used to determine the status of a buried pipeline**

**Is made using reference electrodes, data logger and processor**

**Can detect the location and severity of corrosion**

**Can detect locations of coating deterioration**



# PIPELINE SERVICES

## PIPELINE SERVICES

**Pipeline services fall into four categories:**

- Pre-commissioning of new pipeline.**
- Commissioning of new pipeline.**
- Maintenance of existing pipelines.**
- Revalidation of existing pipelines.**

**In practice, this work can be roughly divided into two groups, namely, work performed on newly constructed pipelines and work to be carried out on existing pipelines.**







## Tubular Running Services (TRS)

is committed to the delivery of quality equipment and personnel. We offer our customers a comprehensive casing and handling packages.

### Hydraulic Power Tong:

IGPSCO casing power tongs are Selected to suit high torque casing, providing maximum torque with reliable performance. We provide a full range of casing sizes to meet the varying needs of each client.

We offer non-marking jaws and dies to handle and save the premium tubing string and corrosion resistant alloys (CRA).

### Power Back Unit:

Built and certified to the highest industry safety standards with a proven history of success in the field, our power back units are designed to provide a reliable power source for a wide range of hydraulic requirements for onshore and offshore applications.



## **PROTECTION (CP) SERVICES (FULL SERVICES)**

**CP surveys**  
**CP Designs**  
**CP materials supply**  
**CP installation**  
**CP commissioning and Startup**

### **Corrosion Monitoring Services inclusive of:**

**Design of the corrosion monitoring systems**  
**Supply of Corrosion monitoring materials**  
**(e.g. corrosion coupons, retrieval tools, electrical resistance probes, etc)**  
**Corrosion site monitoring inclusive of data base and routine monitoring**

### **Assets Integrity Consultancy, including:**

- 1.Risk based inspection exercise**
- 2.Corrosion management systems**
- 3.Dead leg studies**
- 4.Failure Investigation**
- 5.Root cause analysis**



# Engineering Solutions

Engineering Solutions

**ICE supports its clients for specialized engineering services, we have already supported the major engineering Oil and Gas projects. ICE together with its partners delivers state of the art engineering solutions to cover the following project stages:**

**PREFEED & FEED & Basic Engineering Detailed Engineering.**



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COMPANY PROFILE



# Safety Equipment Suppliers

We provide safety solutions for a safe day at work, we do so through wide variety of safety PPE brands from well know partners, well trained sales team and holding right stock to sustain our supply capability even at tight times.


**Head protection**  
**Hearing Protection**  
**Protective Clothing Hand and Arm**  
**Protection Foot Protection**  
**Eye and Face Protection**  
**Respiratory Protection**



# Assets Integrity Management



**ICE provides high expertise with wealth of experience in assets Integrity Management.**



## General Trading and Training

**ICE works hand-in hand with International partners to complement its services, ICE is hence the sole representative. ICE through its training arm can put a detailed plan for the development of human capital both technically and in terms of management**



# OUR CLIENTS



**First**



**ABB**



**ORASCOM**



**ARCHIRODON**

**COOP**

American  
International  
Contractors,  
Inc



**Enppi**



Egyptian LNG



دانة غاز  
**DANAGAS**



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65 Almanara Road, Tobruk , Libya.



E-Mail: [info@ice-oilservices.com](mailto:info@ice-oilservices.com)  
[www.ice-oilservices.com](http://www.ice-oilservices.com)



Phone: +218-627622868



Fax : +218- 627622868



Mobile: 092-5500224 – 0915500224 – 0925889913

