



OILFIELD SOLUTIONS AT YOUR DOOR STEP

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EDFLO ENERGY SERVICES LIMITED

1.0 THE COMPANY

- 2.0 **EdFlo Energy Services Limited** is an indigenous company incorporated in 2015 to provide services in the oil and gas industry. The services include Routine pigging , Intelligent pigging, Pipeline pre-commissioning, pipeline chemical cleaning, supply of production chemicals, non-destructive testing, tank cleaning and maintenance, Valve supply and maintenance, coating and cladding, lockout tagout systems, blasting and painting, Filtration services, Asset integrity management, Cathodic protection, fabrication and pipeline repairs, onshore & offshore supply of petroleum products.
- 3.0 **EdFlo Energy Services Limited** has established Technical Partnership Agreements with some prominent Companies in the United Kingdom and U.S.A. These companies have been in the industry for decades and are designers and manufacturers of materials and equipment that **EdFlo** uses for its operations.
- 4.0 **EdFlo's** heritage, experience, expertise and business focus position have driven its success in the service industry business.

Here are some indicators in this regard:

- Large equipment portfolio and support base. (EdFlo maintains a portfolio of pipeline/commissioning equipment.
- Over 15years of combined Local and International Experience in Oil & Gas of key staff and managers.
- We have a team having over 15 years pipeline Services experience.
- Specific experiences relating to Pipeline Pumping, Drying, Testing, Nitrogen Purging Etc.

2.0 SERVICES

- Inline Inspection Services – UT, MFL
- Routine Pigging Services
- Non Destructive Testing
- Pipeline Commissioning Service
- Pipeline Decommissioning Service
- Tank Cleaning and Maintenance
- Pipeline Chemical Cleaning Services
- Supply of Production Chemicals
- Chemical Treatment
- Coating and Cladding
- Sand blasting and Painting
- Cathodic Protection
- Valve Leak Detection, Maintenance, and Replacement
- Fabrication and Pipeline Repair On Site and Off site
- Project Management
- Procurement & Contractual Services

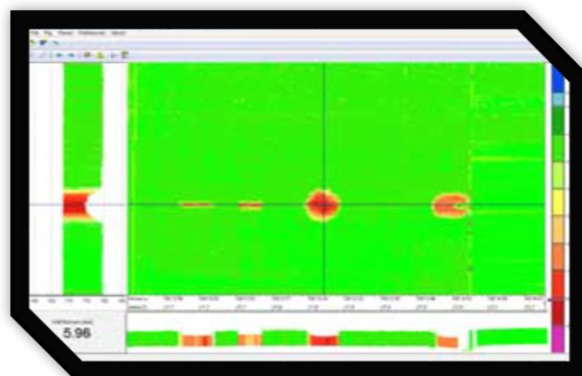
2.1 IN LINE INSPECTION (ILI)

EdFlo Energy Services Limited in collaboration with our overseas technical partner provides premier In-line inspection services. Our fleet of Geometry, Magnetic Flux Leakage (MFL), Ultrasonic Intelligent tools utilize the best technology available in the world

2.1.1 ULTRASONIC INTELLIGENT PIGGING

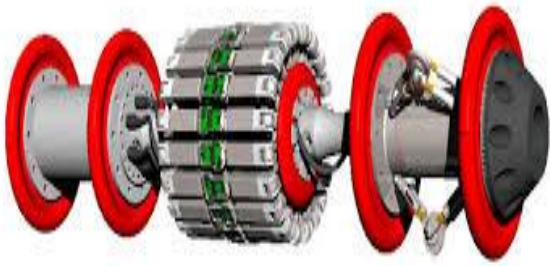
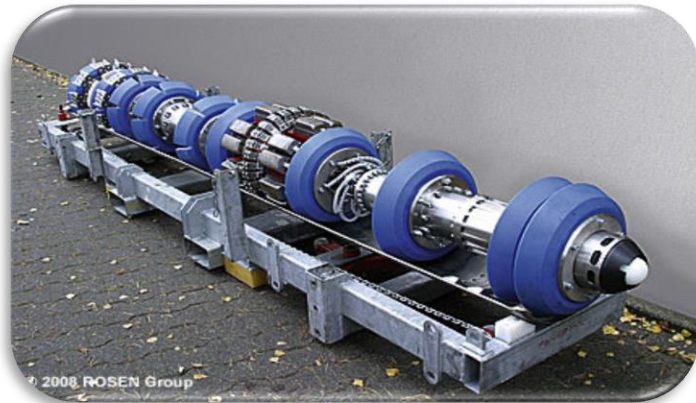
EdFlo Energy offers the UT pigging technique which provides unparalleled inspection accuracy in steel and dense material pipelines. The smallest corrosion, pitting or erosion is immediately detected and measured in relation to the pipeline integrity.

Large diameter piping up to 64" and non-metal pipelines such as HDPE can also be inspected with the UT intelligent pig.



2.1.2 MAGNETIC FLUX LEAKAGE PIGGING (MFL)

MFL can be used with or without liquid in the pipeline and offer a higher inspection speed and hence greater range. These MFL tools are based on the latest standards of electronics, data processing and measuring principles.



2.1.3 GEOMETRIC CALIPER PIG (GCP)

The geometry tool is used to ascertain if the intelligent pig will be able to go through the pipeline without getting stuck. It is also used to locate dents, and check the ovality of the pipeline.



2.2 ROUTINE PIGGING SERVICES

Pipelines need to be regularly cleaned in order to remove debris build-up and to keep them operating efficiently. Regular cleaning removes corrosive deposits that continuously build-up while the pipeline is in service. It also prevents back pressure due to debris buildup and also increase production efficiency.

EdFlo Energy offers routine professional pipeline pigging advice which may involve design of a pigging program that is adapted to a particular pipeline. Key elements of the program may include the specification of the types of pigs to use, the frequency of pigging, pig travel speed etc.

It also includes the control and execution of safe pigging operation, data gathering & analysis, and recommends improvement on the program. The life span of routinely pigged pipeline are longer



2.3 NON DESTRUCTIVE TESTING (NDT)

EdFlo Energy offers the following types of inspection, non-destructive testing and verification services:

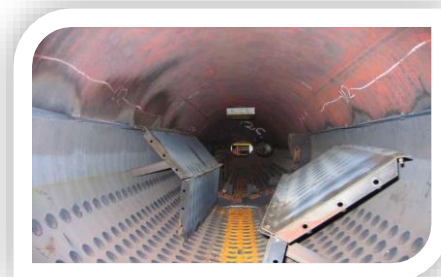
Ultrasonic Flaw Testing (UT), Ultrasonic Thickness Measurement (UTM), Penetrant Testing (PT), Fluorescent Penetrant Testing (FPT), Magnetic Particle Testing (MPT), Fluorescent Magnetic Particle Testing (FMT), Radiographic Testing (RT), Eddy Current Testing (ET), Roughness Testing (RT), Hardness Testing (HT), Helium Leak Testing (HLD)

Paint / Coating Inspection, NDT Combined with Rope Access (RA/NDT), Consulting on Testing and Inspection, third Party Verification and Testing.



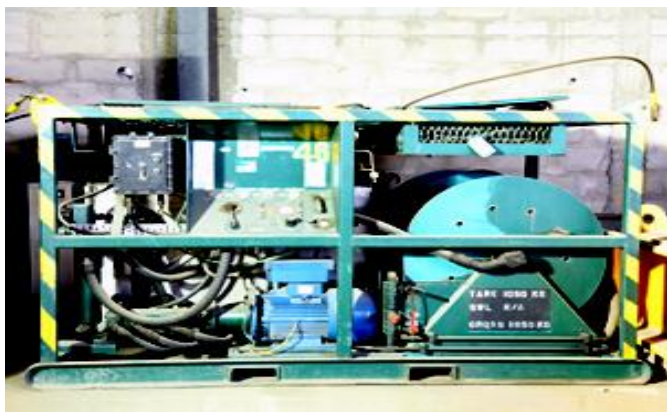
2.3.1 OTHER INSPECTIONS SERVICES

- **Boroscopic/Remote Visual Inspection**
- **Tubular Inspection** – Heat Exchangers, Boilers, condensers, air fin coolers and chillers etc.
- **Tank/Pressure Vessel Inspection**
- **Helium Leak detection**
- **Construction Inspection** – Pipeline, Storage tanks, Fabrication of 'U' stamp Pressure Vessel, New Petrochemical Plants, Refineries, Power Plants, Offshore Structures, Offshore Platforms, FPSO, FSO's and Shipbuilding etc.
- **Condition Assessment and Remaining Life of Boilers (CARLA)**



2.4. PIPELINE PRE-COMMISSIONING:

EdFlo pre –commissions newly constructed or refurbished pipelines to ensure that the pipe meets the requirements of our clients. Our pre-commissioning services include, flooding, cleaning, gauging, hydrotesting, dewatering, drying and nitrogen purging.



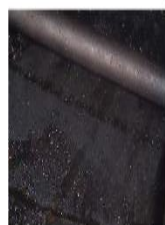
2.5 TANK CLEANING AND MAINTENANCE SERVICES

EdFlo offers the following tank cleaning services:

- Fuel Oil Tank cleaning
- Utility manhole and Vault Cleaning
- Tank and Vessel Cleaning During Decommissioning and Renovations
- Chemical Assisted Tank Cleaning Operation
- Tank Maintenance
- Waste water Treatment Neutralization



Before



After



2.6 CHEMICAL CLEANING SERVICE

Wax, sand and scale deposits tend to impact greatly on the cost of production. They reduce the through put of production lines. This means that the pumps will have to do more work in driving the fluid through the line. We offer chemical de- waxing, de-sanding and de-scaling services of Tanks and pipelines.

EdFlo Energy Services Limited offers professional chemical cleaning services in the following areas:

- Chemical enhanced cleaning of pipelines.
- Online Chemical Cleaning of Gas Pipelines.
- Chemical descaling: Heat Exchangers, chiller units, piping Etc.
- Chemical dislodgement of sediments from oil storage tanks.

2.7 COATING AND CLADDING

To deter external corrosion it is standard practice to coat pipelines. Coating Work: airless and low pressure and two component hot-spray technique; coating with mineral compounds; sealing; application of deck coatings; special fireproof coating; metalizing.

2.8 BLASTING AND PAINTING

We offer blasting and coating Services for pipelines, tanks, platforms etc



2.9 CATHODIC PROTECTION SERVICE

Our experienced engineers can provide a full design service for your CP application. By reference to client supplied and recognized international standards, our NACE qualified engineers will develop cost effective solutions to ensure that your requirements are met in full.

Our Cathodic Protection Department can provide a full project management service covering site investigations, design, materials supply, installation, and commissioning and system handover.



2.10 VALVE LEAK DETECTION AND MAINTENANCE

Valve integrity is of utmost importance, we offer valve maintenance and leak detection services.

The Ultrasonic valve Leak Detector unit has all the features needed to determine if valves are leaking, where they are leaking, and at what rate.



2.1 1 PIPELINE REPAIRS, FABRICATION AND CONSTRUCTION

EdFlo offers the following repair methods which are accepted in the industry.

- Composite Repair Systems
- Mechanical Bolt –on – Clamp
- Sectional Replacement
- Fully welded Sleeves
- Weld Metal Deposit



Our team have been involved in various tank and pipeline construction projects.



3.0 PROCUREMENT AND CONTRACTUAL SUPPORT

We are Original Equipment manufacturers distributor for a variety of world-class oil industry product and equipment. We also offer post installation and after sales services with provision for in-country stock holding/inventory for prompt/just in-time delivery of critical service spares.

We have the reach and means to procure materials from around the globe through a wide supplier/stockists network worldwide. The quality assurance program employed is supported by superb equipped laboratories and sophisticated equipment, which is used for the inspection and testing of materials, welding processes, dimensions and quality of coating and linings.

Procurement Services Range

- Lockout Tagout devices
- Onshore, offshore supply of petroleum products
- Valves: Valve Positioners and Indicators
- Flame Arrestors
- Instrumentation and Flow Control Products
- Pipe Fittings, Stud Bolts and Flanges
- Process Equipment
- Supply of Production Chemicals
- Chemical Treatment





EDFLO ENERGY SERVICES LIMITED

4.0 COMPANY CONTACT DETAILS

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