



شركة بيسكو للخدمات الصناعية المحدودة  
Bisco Integrated Services Co. Ltd.



## PRE QUALIFICATION

### Non-Metallic Industrial Services

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United Arab Emirates | Oman | Bahrain

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# INTRODUCTION

Introduction

# Introduction

It is our great pleasure to introduce our company “BISCO” a wholly Saudi Arabian ISO 9001:2015 certified under Commercial Registration No **2055008098**. The head office is in Al Madinah Street Al- Jubail, Kingdom of Saudi Arabia and branches in Dubai, Bahrain & Oman.

**BISCO** has been started in the year 2007 and managed to cater the Quality needs of the various industrial sectors in the K.S.A with a strong force of Qualified, Highly Experienced and Energetic Personnel.

**BISCO** is a leading service provider of **NDT & Advanced Inspection Services** to the industry. We serve to industries like manufacturing, oil gas, power plant and construction. **BISCO** established to cater the needs of fast growing Industrial City. We pride ourselves on our management expertise, quality of workmanship and excellent in safety as our goal to satisfy the needs of our clients and ensure repeat business where ever it is possible.

At present, we are providing our services to **SABIC (VENDOR#504671), SECO (Vendor#63718 & Saudi Aramco (Vendor# 10037273), Advanced Petrochemical Company-100662, MARAFIQ – 3936 MA’ADEN – 8315 & SAHARA-10137** and all other leading companies in Eastern Province, Kingdom of Saudi Arabia. BISCO has achieved the SABIC Global Contract award for NDT and Inspection Services.

We help our customers to meet their quality requirements with emphasis on quality service, quickly turnaround time and customer satisfaction. BISCO is a company leading by highly qualified personals providing services in the oil, gas, power plant & construction sectors.

**Yours truly,**

**Ahmed Khalifa Al –Buainain**  
**General Manager**

MANAGEMENT

Quality  
Management  
System

# Quality Management System

BISCO operates a Quality Management System that implements the management of the Company Quality, Health, Safety and Environmental policies. The aim is to maintain and continuously improve the performance of the Company and to promote a safe working environment for all Company and contracted personnel.

The Company's Quality Management System is based on established principles of organization, planning, execution, reporting, review of performance, feedback of experience and independent verification of the work, including the application of continuous improvement. The purpose of the Quality Management System is to have the management organization structured and operate in such a way as to ensure that the principle and aims of the Company Policy are practiced. This is achieved by visible and active leadership by management to motivate and secure the involvement and participation of all employees. The agreed continuous improvement programs promoted within the Company specify the goals and address the effectiveness of the Company's management and operational activities.

BISCO Number One Ethic is the safety, health and well being of its employees, Contractors, Customers and the public. BISCO will never knowingly endanger people or pollute the environment. BISCO will foster an atmosphere that focuses on prevention of accident and protection of the environment. Safety will never be comprised.

## Quality Policy

To provide reliable service to customers through continuously upgraded technology, training and motivation of people.

### Quality Target

Aim to achieve the non-conformance to zero  
Maintain Quality at all Phases of processes

- ▶ The quality objectives of the company are evolved and monitored as detailed in documented procedures.
- ▶ The quality policy is communicated through visual displays and pocket booklets the same is understood, at all levels of the organization and followed.
- ▶ This is assessed and reviewed periodically by the MR for compliance and commitment to Total Quality and discussed at the Management Review Meetings for Quality policy implementation.

## The Vision of BISCO

"BISCO will emerge as one of the preferred destinations for Inspection services in Middle East, for customers valuing reliability, durability and continuously updated technology and superior customer responsiveness"

## Mission Statement

- ▶ To maintain the image as a service provider of Quality and value added Engineering services and to be one among the market leaders and gain expertise in current endeavours.
- ▶ To motivate our employees to excel in their performance with quality and safety by providing appropriate training and create opportunities for individual continued development and recognition by rewarding them suitably.

# COMPANY DETAILS

Company  
Details





# Company Details

## Head Office - KSA

### Bisco Integrated Services Co. Ltd.

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## UAE

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Email: betadxb@eim.ae  
Web: www.betainspection.com

## MUSCAT

### Beta Inspection Services

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Tel: +971 4 3466484,  
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Email: info@biscofzc.com  
Web: www.betainspection.com

## BAHRAIN

Mashtan Bldg. Office No.053  
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Kingdom of Bahrain  
Tel: +973 66 600101  
Email: info@biscosaudi.com

## Beta Inspection Services LLC

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Abu Dhabi – UAE  
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Fax: +971 2 5503174  
Email: betaauh@eim.ae  
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**Mr. Ahmed Khalifa Al-Buainain**  
General Manager- Administration & HR

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**Mr. Venus Sebastian**  
Manager - Operations

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## NDT & Inspection Division

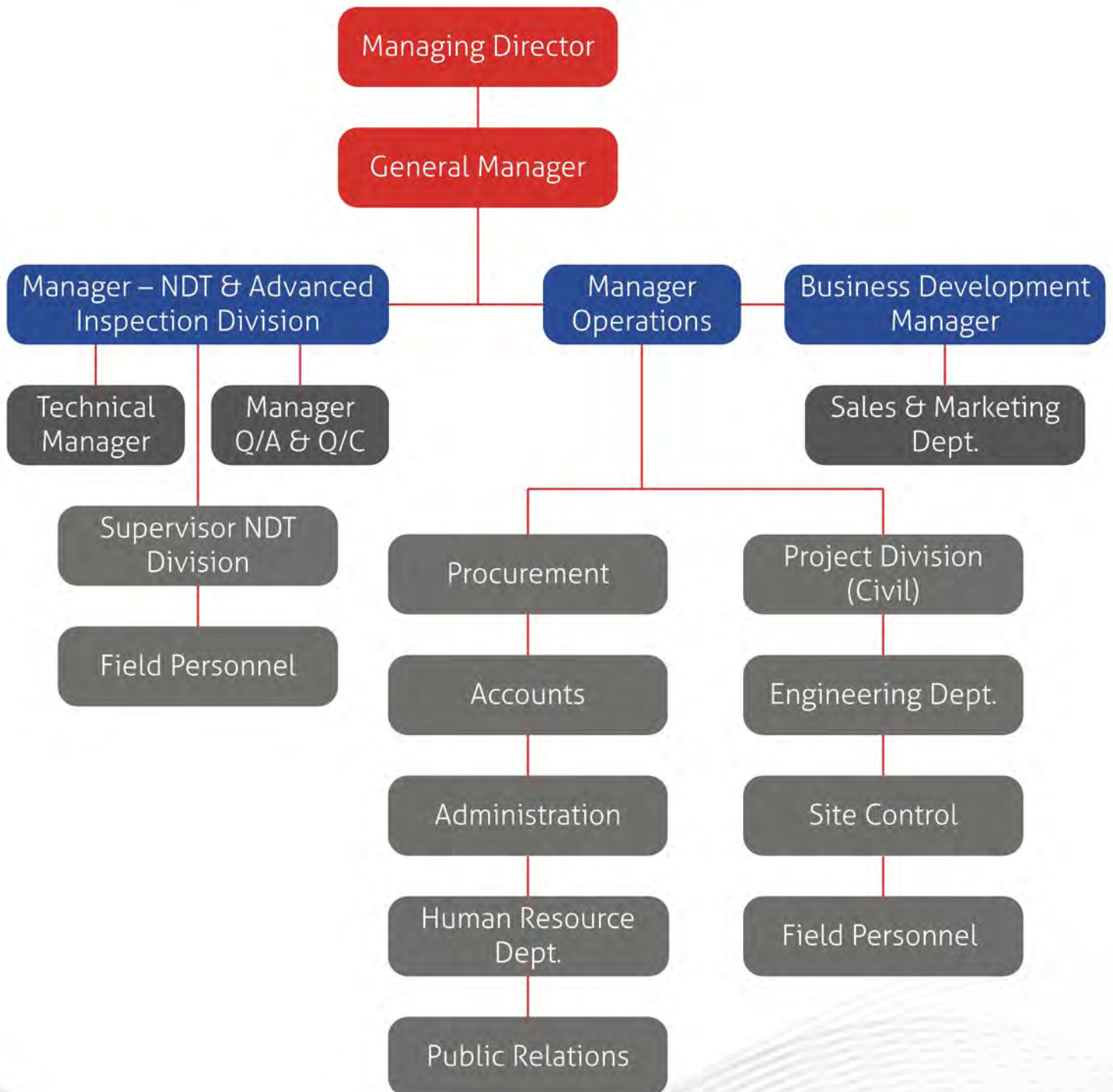
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ORGANIZATION

# Organization Chart

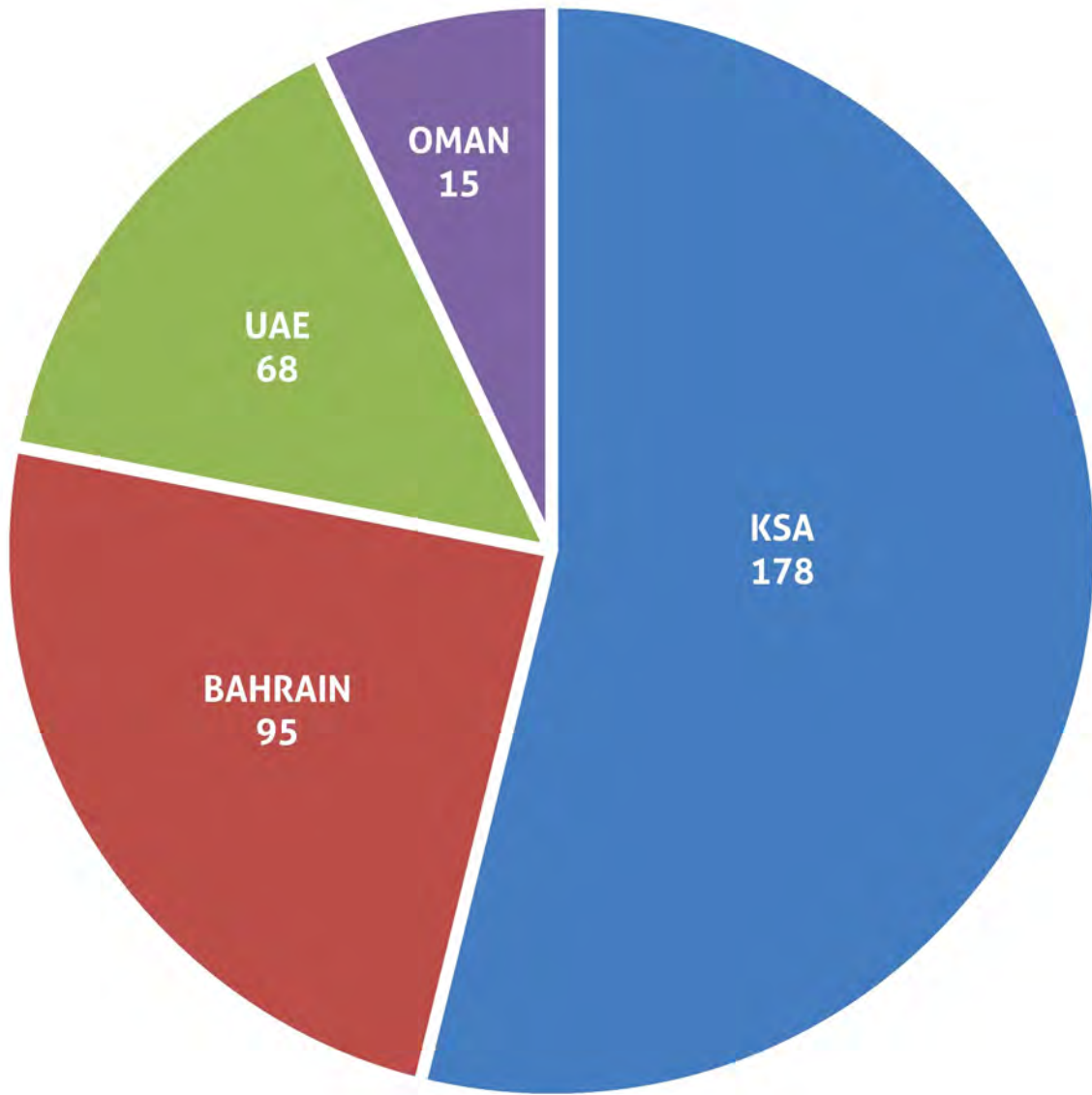
# Organization Chart



EMPLOYEE

# Employee Chart

# Employee Chart



# CLIENT DETAILS

Client  
Details

# Client Details



Saudi Basic Industries Corporation (SABIC)  
Vendor No. 504671



Saudi Aramco  
Vendor No. 10037273



Saudi Aramco Shell Refinery Co. (SASREF)  
Vendor No. 1002511



Sadara Chemical Company  
Vendor No. 2717



Saudi Electricity Company (SECO)  
Vendor No. 63718



Saudi International Petrochemical Co. (SIPCHEM)  
Vendor No. 101751



Saudi Chevron Philips (S-CHEM)  
Vendor No. 125590



Tasnee Petrochemicals  
Vendor No. 102206



Advanced Petrochemical Company (APPC)  
Vendor No. 100662



Saudi Arabian Mining Company "Ma'aden"  
Vendor No. 8315



المؤسسة العامة لتحويل المياه المالحة  
Saline Water Conversion Corporation  
Saline Water Conversion Corporation (SWCC)  
Vendor No. 3711



Saudi Aramco Total Refining  
Petrochemical Company (SATORP)  
Vendor No. 11600





Al-yusr Townsend & Bottum Co. Ltd. (AYTB)  
Vendor No. 14684



Gs Engineering & Construction  
Vendor No. 100670



Sahara Petrochemical Company  
Vendor No. 101137



Etec Arabia Ltd. Company



شركة بلفال للصناعات الثقيلة  
BILFAL HEAVY INDUSTRIES

Bilfal Heavy Industries



Daelim Saudi Arabia Co. Ltd. (DAELIM)



Dresser Al- Rushaid Valve & Instrument Ltd.



HARRIS PYE  
Harris Pye Engineering



شركة سيجونغ العربية السعودية  
SEJONG SAUDI ARABIA LLC.

Sejong Corporation



Oksan Arabia Eng & Const. Co. Ltd.

Mikang Arabia Co. Ltd.



Hanwha Saudi Contracting Co. Ltd.



Azzam Trading & Contracting Co. Ltd



Sinopec E&c Middle East Co. Ltd.



Sanku ARCC Saudi Co.

BUSINESS AREA

Major  
Business Area

# Major Business Area

- Fibre-Reinforced Plastic (FRP) & GRP Services
- High-Density Polyethylene (HDPE)
- Polypropylene (PP)
- Polyvinylidene fluoride (PVDF)

# Major Business Area

GRP pipes services includes all fiberglass pipe mainly GRP, GRV, GRE, and RTR pipes.

## ■ Installation of GRP pipe

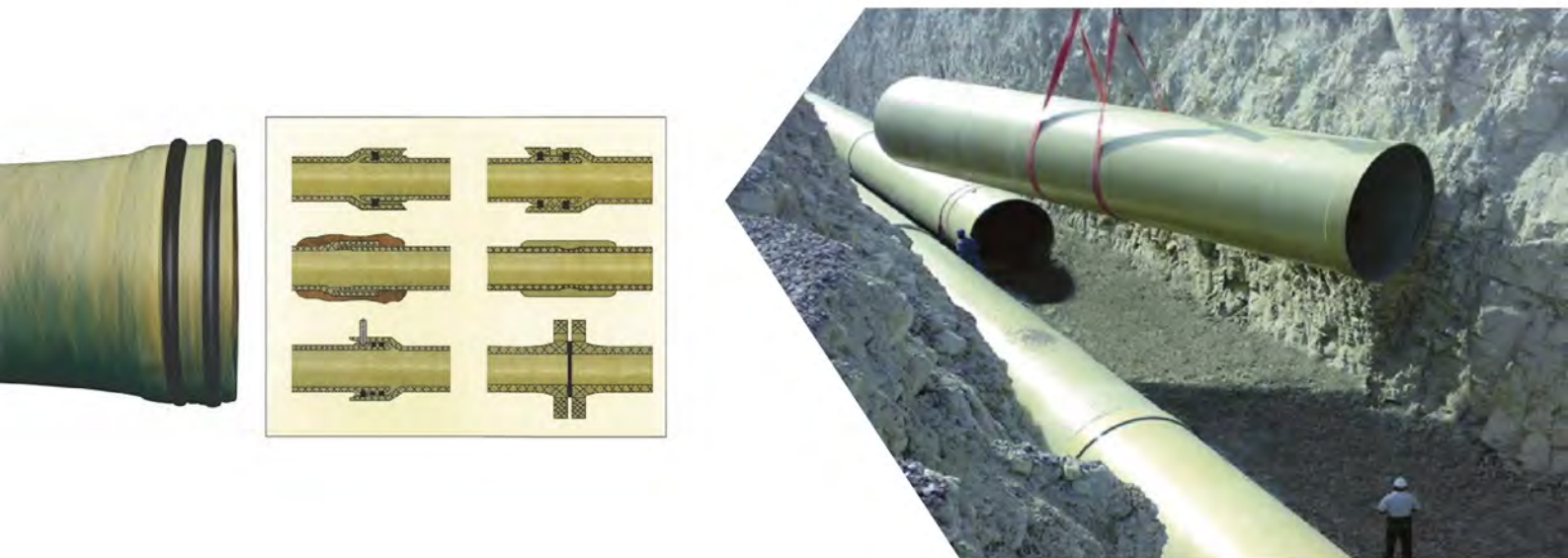
## ■ Repair

## ■ Tanks

Design, fabrication and supply of various GRP tanks.

## ■ Lining

## ■ Grating



## Installation of GRP Pipe

Pipe will be laid on the support and lamination will be carried out. Thrust Blocks where required will be built on pipe.

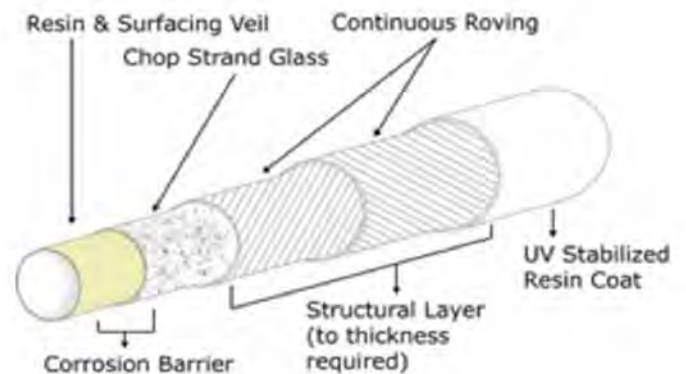
Every pipe will be supported by at least two cradles and anchored at one of these. The remaining cradle will be designed as guide, allowing longitudinal expansion of the pipe but restraining lateral movements. For pipes supported in more than two cradles, the cradle closest to the middle of the pipe will be used as an anchor. The anchors will be located with regular spacing in order to ensure even distribution of longitudinal pipe expansion on the joints.

The inside of the cradles will be covered with a 5 mm thick cradle liner to avoid direct contact between pipe and cradle. Liners will be made from materials that are resistant to the actual environment like EPDM. High friction liners will be applied at anchors while low friction liners shall be applied at guides. The pipe supports are designed as anchors or guides. Anchors are designed to restrain pipe movement. Guides are designed to allow the pipe to expand in the longitudinal direction but restrain it from any lateral displacement.

Aboveground pipes will be supported appropriately to withstand the actual load caused by

- External and environmental loads
- Weight of pipe and fluid.
- Reaction forces caused by internal pressure.

Friction induced in couplings and against guides in case of temperature and/or pressure variations.

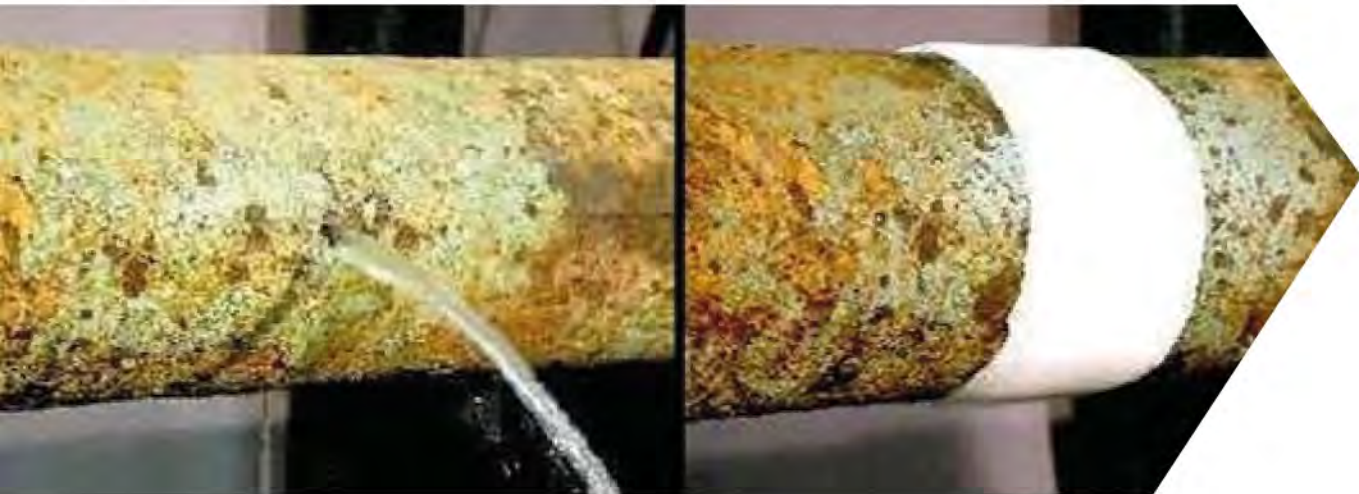
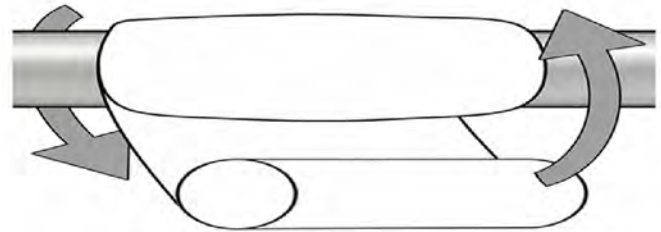


## Repair of GRP Pipe

Typically, damaged pipe can be repaired quickly and easily by qualified personnel at a jobsite. The repair design depends on the wall thickness, wall composition, application, and the type and extent of damage. Structural fracture of the pipe wall is evaluated on a case-by-case basis to provide repair sufficient to restore the original pipe strength.

Repair of damaged or leaked GRP Pipes will be carried out using similar type of resin and glass as that of original pipe. The damaged section of the pipe will be either repaired by overlay after grinding off the damaged area or the pipe section will be cut off, a new pipe will be introduced and laminated.

Similarly leaks from the joint will be repaired either by replacing the joint with the new one or through lamination. New connection will be provided from the existing line by providing appropriate branch and saddle.



## ■ Tanks

Both Horizontal and vertical storage tanks in various capacity will be provided for different fluid like Raw water, Potable water and Sea water. Similarly underground fuel storage tank can be supplied. Fiberglass fuel storage tanks can be used to store gasoline, aviation fuel, gasohol (90% gasoline and 10% ethanol mixture), Jet fuel, Diesel, potable water and waste water at ambient underground temperature. Fiberglass tanks are impervious to the effects of external corrosion. As fiberglass tanks are not susceptible to corrosion they are maintenance free.



## ■ Lining

Lining will be done as an anti corrosive barrier layer for interiors of tanks, process equipment as well as Concrete floor. The lining will be done either by Hand lay up or spray layup and different resin, namely polyester, Vinyl ester and Epoxy, will be used as the application may require.

Lining of surface is normally required when it is subjected to corrosive chemical or environment, lining protects the surface hence increase the service life.



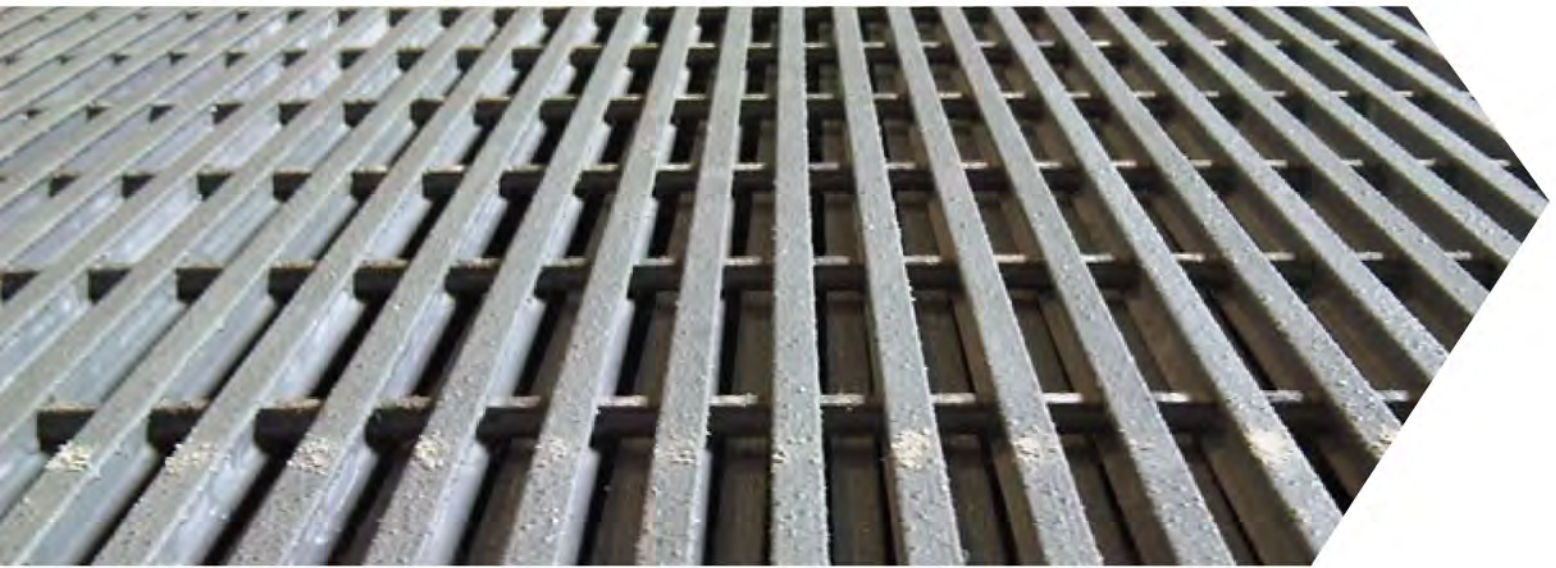


## ▀ Grating

In places where the service fluid or the spillage is corrosive, steel grating does not provide a long service life and has to be replaced frequently in such places GRP gratings are used. GRP grating are available in various sizes and shape as the application may require. These gratings are resistance to acidic as well as alkaline environment. They are available in various resins system like polyester, Vinyl ester and Epoxy.

Fiberglass Grating products have become a viable replacement for many traditionally metal items such as galvanized grating and stair platforms and industrial flooring. There are many advantages that Fibreglass Grating has over metallic materials. Fiberglass Grating does not corrode, it is easier to work with, requires no painting, and can incorporate abrasive substances to reduce slips, quite apart from being easier to work with than metals.

Available in a wide range of panel sizes, colors and depths ranging from 12 mm up to 50mm. The fiberglass grating is corrosion resistant, fire resistant, anti-slip, impact resistant and lightweight



# Major Business Area

The popularity of High-Density Polyethylene (HDPE) is primarily due to its low initial material cost and excellent chemical resistance. This allows thicker sections to be used compared to other geomembrane materials.

## HDPE Pipes

HDPE pipe is a type of flexible plastic pipe used for fluid and gas transfer and is often used to replace ageing concrete or steel mains pipelines. Made from the thermoplastic HDPE, its high level of impermeability and strong molecular bond make it suitable for high pressure pipelines.

## HDPE liner

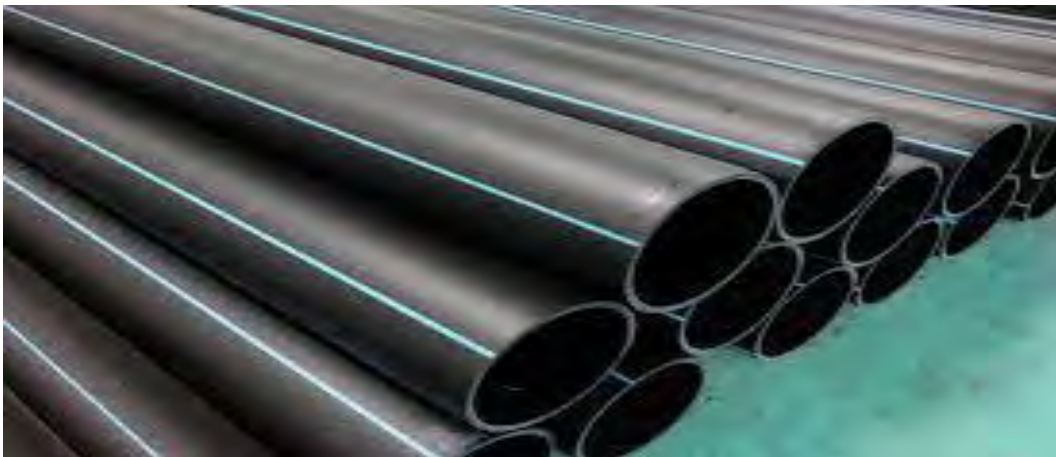
HDPE is a versatile material which is used widely across all applications. One of the main uses of HDPE is for landfill base liners where its chemical resistance is used to good effect. HDPE can also be used in a multitude of secondary containments, pond linings, and water containment projects. HDPE is best used as an exposed lining material, and has the UV resistance required for many years of outstanding service



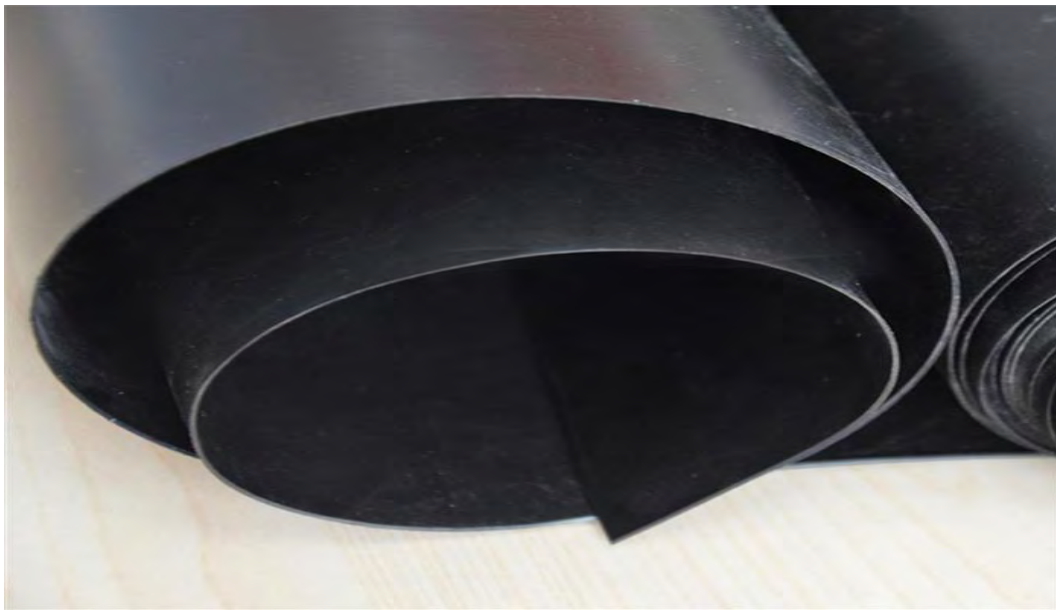
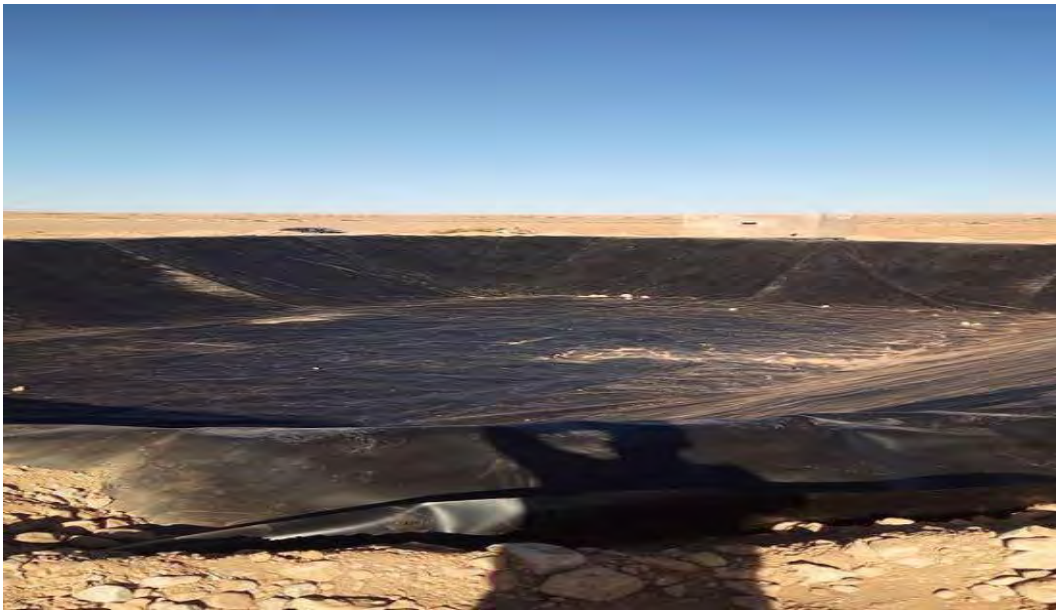
## HDPE

The popularity of High-Density Polyethylene (HDPE) is primarily due to its low initial material cost and excellent chemical resistance. This allows thicker sections to be used compared to other geomembrane materials.

**HDPE Pipes** are flexible even at low temperature and have good adaptability to uneven underground. It is light in weight and its black color made it highly resistant to UV radiation. HDPE pipe is impact resistant and has more abrasion resistance than metal pipes. It is non-toxic and extremely resistant to chemicals, solvents, micro-organisms and radioactive waste water. Due to its high dielectric features, HDPE pipes are absolutely insensible to stray currents. Load losses remain very minimal because no concretions of any kind are produced aside from its extremely low inner roughness coefficient. It is become widely adopted in a variety of piping systems and are rapidly replacing most conventional pipes. HDPE pipes proved very successful in the main potable water supply, plumbing, drainage & sewerage, sprinkler & drip irrigation systems, firefighting networks, underwater piping system, laboratories, electrical conduits & fiber-optic ducts and gas distribution. It has a broad variety of industrial applications including the chemical industry, crude oil, mine slurry transportation and many other applications



**HDPE liner** with thick and durable property can be placed in exposed applications where the cost of other materials may be prohibitive. HDPE has excellent chemical resistance which is often the driving force behind the selection of HDPE. HDPE is a field assembled lining material that cannot be practically fabricated in the shop. All HDPE projects, regardless of size, must be installed by trained installers. HDPE is a versatile material which is used widely across all applications. One of the main uses of HDPE is for landfill base liners where its chemical resistance is used to good effect. HDPE can also be used in a multitude of secondary containments, pond linings, and water containment projects. HDPE is best used as an exposed lining material, and has the UV resistance required for many years of outstanding service.



## JOINTING METHODS FOR PIPES AND FITTINGS

Several types of joining methods are available for HDPE pipes and it depend on the size and type of application. The first common type of Joining HDPE pipe is Mechanical Joining which compose of Compression type and Flange type, and the other is the Permanent Joining which compose of Butt Fusion Welding and Electrofusion Welding.

### **Butt Fusion Welding**

Butt welding or Butt Fusion is a simplest and space-saving jointing method to connect the pipe and fittings of PE. The process starts by cutting the pipe ends straight and square to the axis and cleaned carefully by and electric planer. The pipes and fittings are held tight and pressed against a coated heating plate. As soon as the heating time and the required bead are reached, the heating plate is quickly withdrawn from the weld faces and the connection are pressed together to form a permanent joint.



## **Electrofusion Welding**

This is an easy system for jointing pipes and fittings of HDPE. A pre-installed resistance wires are embedded in the inside surface of the electrofusion coupling. When the pipes or fittings are inserted in the coupling and the wires are connected to the welding unit, the contact surfaces become warm and consequently melt into each other until it forms a rigid and durable joint. A welding unit is available for this procedure which operates the timing automatically. This makes the whole operation very easy and practical especially in narrow and tight installations.



## JOINING METHODS FOR LINERS

### Extrusion Welding

Extrusion welding is a finishing technique where a bead of molten plastic is used to weld thermoplastic geomembrane materials. The quality of an extrusion weld is dependent on the skills of the welder operator. Extrusion welding machines use a heated barrel with a plasticizing screw to deliver molten plastic to a specially shaped shoe. The shoe is shaped to make a bead of plastic suitable for the material type and thickness being welded. A hot air blower is attached to the extrusion welder to preheat the weld area. The welder uses its own weight to create the pressure required for welding and the operator steers the welder manually



## Wedge Welding

Wedge welding machines use a heated element to fuse thermoplastic sheet materials. Wedge welders are automatic machines that run between two overlapped sheets of material. The welder heats the interface between the materials and then presses the materials together to form a lap weld. The thermoplastic materials are fused at the molecular level without the addition of any glues or solvents.





## PVDF

PVDF, Polyvinylidene fluoride, is a fairly non-reactive, thermoplastic fluoropolymer with excellent chemical and thermal resistance for plastic pipework uses. PVDF resin is produced through polymerization of the vinylidene fluoride monomer. The PVDF resin is then used to make PVDF pipe as well as many other products.

Industries and applications select PVDF pipe due to its inert, durable qualities. PVDF piping is used most in the chemical process industry due to its ability to plumb aggressive, corrosive solutions. PVDF pipe also sees common use in high purity applications, semiconductor fabrication, electronics / electricity, pharmaceutical developments, and nuclear waste processing.

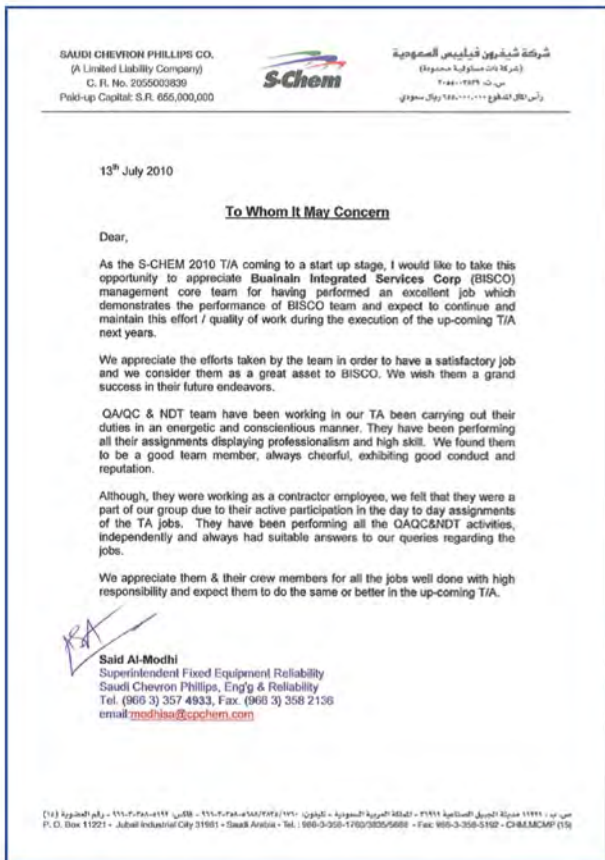


CERTIFICATE

Certificates  
of Appreciation

# Certificates of Appreciation

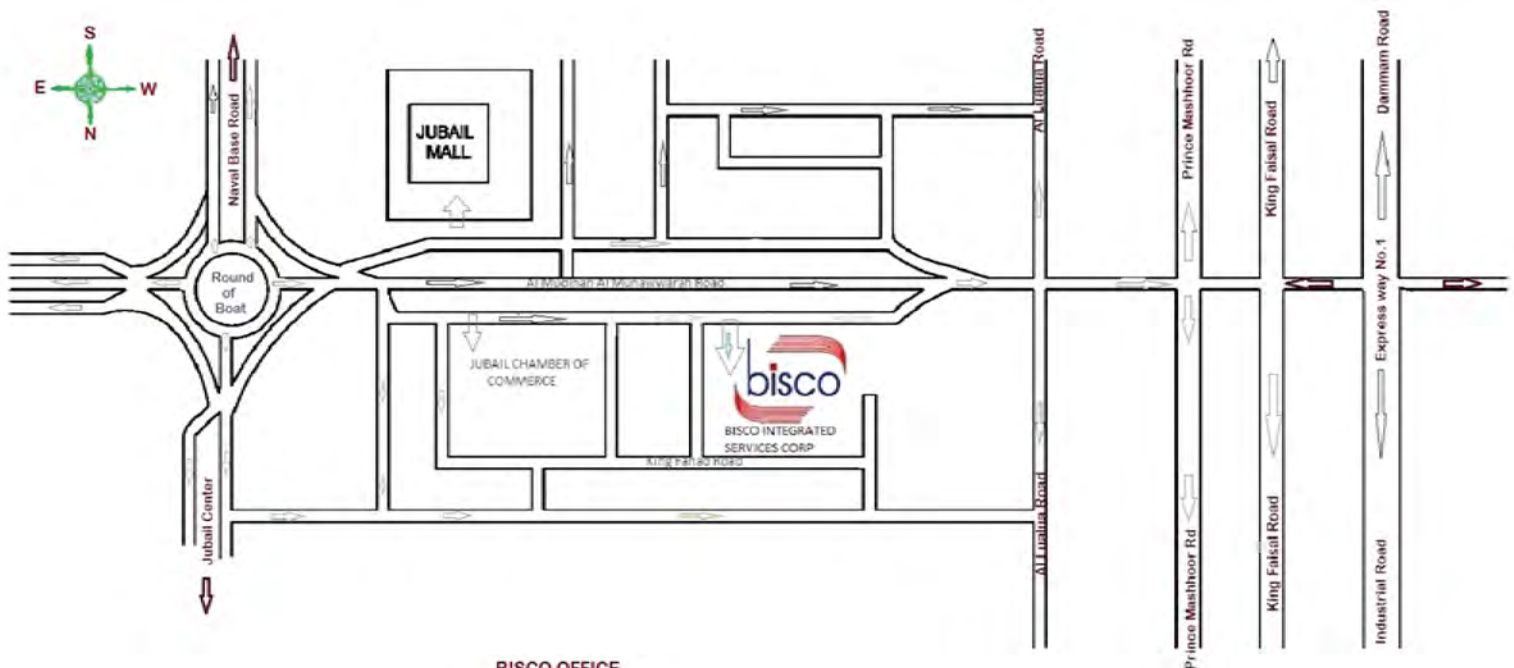




# LOCATION MAP

Location  
Map

# Location Map



**BISCO OFFICE  
LOCATION MAP**  
NOT TO SCALE



شركة بيسكو للخدمات الصناعية المحدودة  
Bisco Integrated Services Co. Ltd.



**THANK YOU**

[www.biscosaudi.com](http://www.biscosaudi.com)