

COMIPANY PROFILE

















ANALYST REVIEW

ENGINEERING AND CONSTRUCTION CORPORATION FOR GENERAL

CONTRACTING. Is committed to provide Design, Supply, Installation, Testing, Commissioning and Maintenance of Electro-mechanical works to its clients for various projects. EZZE Contracting Company Management will provide sufficient and appropriate resources to implement and achieve quality objectives within definite programs and schedules to meet regulatory and obligatory requirements.

ENGINEERING AND CONSTRUCTION CORPORATION FOR GENERAL CONTRACTING. will continually seek to improve its quality management system effectiveness towards more customer satisfaction by refining its Project Quality Plan through use of advanced technology, quality products, training of staff and implementing quality management system that meets the requirements. The management will review the quality policy on annual basis in line with the company annual quality objectives.

ENGINEERING AND CONSTRUCTION CORPORATION FOR GENERAL CONTRACTING...
THE COMPANY HAS FOLLOWING OPERATING SEGMENTS



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1. Introduction

Contractor in the Kingdom of Saudi Arabia and particular in Eastern Province. ECC is an 100% Saudi Arabia owned establishment operating in the Kingdom since 2015 specializing in Civil/Structural, Mechanical, Piping, Electrical & Instrumentation projects including General Maintenance, Project Consultancy Services, Manpower supply, Hire of Equipment's, Fabrication and Scaffolding having vast experience in the respected field. We have executed several projects for Royal Commission, SABIC affiliates, Saudi ARAMCO, EPC Contractors and many other private sector clients in Saudi Arabia.

Staffed by experienced engineers, skilled crafts-man and laborers **ECC** prides itself not only on their depth of expertise of the trade, but as well as for the speed and efficiency of the services rendered.

Our customized services with an immediate response and extra care for the customer's needs is an enviable reputation we share throughout the years as evidenced by repeat assignments form our contented clients.

Reliability of manpower-supply towards meeting our client's production deadlines is also a confidence we carry at ENGINEERING AND CONSTRUCTION CORPORATION FOR GENERAL CONTRACTING In an effort to share our expertise in the industrialization boom, we offer our best services at most competitive prices in the Kingdom.

Our most recent contribution to the increasing demand professionals is the creation of our professional and technical services. In line with ECC strong vision and long-term, plans to pursue and engage in the various development projects in Saudi Arabia, ECC strengthened its structures and capabilities to meet the increasing demand of high technology services. Our professional & technical services are managed by professional with expertise in supply, construction, erection and commissioning of Civil/Structural, Mechanical, and Piping, Electrical and Instrumentation projects

ECC has proven ability to deliver technically outstanding, cost effective solutions to some of the most challenging projects. Our technical capability, hands-on knowledge and experience, understanding of project issues and clients' focus have formed the foundation for project success. Our emphasis on long-term solutions comes from our commitment to safety, constructability, operability and sustainability.

ECC provides an integrated team approach to successfully implementation & optimum project solutions with the lowest life cycle costs. **ECC** corresponds to a client's decision gate for project sanction.

ECC finally would like to thank you for taking the opportunity to read our profile and we look forward to having the opportunity of exploring the possibilities of working together for your projects.

2. Presidents Point Of View

Dear Sir,

We take this opportunity to introduce **ECC** as General Contractors in the field of Structural, Mechanical, Piping; Electrical & Instrumentation has completed 9 years successfully. We are continuing to pursue our program of constant innovation and expansion to cover an ever-growing wide range of activities and multi-services. Over the year we have gained a wealth of experience in all aspects of the Construction industry, General Maintenance, Industrial Maintenance, Technical & Industrial Manpower-supply, Hire of equipment's, overall maintenance of shutdown projects, House-keeping and Janitorial Contracts, Road Construction, Road Maintenance Contracts, & Life Support Services and we have established ourselves is one among the leading contractors in the Kingdom particularly in Eastern Province which include a number or prestigious assignments across Saudi Arabia We are now able to attribute our contribution for longterm projects, which will enable us to obtain customer's fulfillment and satisfaction, and we can undertake a wide range of construction projects, for a large number of clients, and consolidating our position as one of the leading Contractors in the Kingdom, offering several types of above-mentioned projects

However, despite our diversification we have always maintained our ultimate goals, productivity and safety. To uphold our exacting standards, we are not only employ highly trained and experienced personnel, but also ensure that they are conversant with latest standards, well verse with the languages, methods of operation and good administration functions.

We shall continue to pursue our objectives of professionalism, efficiency and dedication to client satisfaction enabling us to meet the challenges of the future confident in the knowledge that we have the capability and expertise to complete any assignment to the most stringent international standards

Our strategic alliance with other companies allows us as offering complete and/or additional wide range of services to our clients, including turnkey projects.

ECC

3. Installation of Mechanical System

Installation of Fire Fighting System

ECC also specialized in an ideal service to our clients such as firefighting system with	th our
dedicated professional team and skilled manpower with having well experienced in	1
respective field.	
Our service will be admitting with a standard quality required specification as per of	elient
requirement until we execute and handover to client.	
There is various type of categories belongs to the Fire Fighting System which we v	vill be
provide as per site requirement.	
Water Suppression Systems	
Alarm and Detection Systems	
Chemical Suppression Systems	
Gas Suppression Systems	
Water Suppression Systems	

Since its inception, the fire protection Industry has used water as the prime fire-extinguishing medium. It is available in quantity, affordable and environmentally friendly.

ECC is capable to serve our clients with the preliminary design, engineering, supply or all systems, installation and commissioning plus the service and maintenance according to the current NFPA and European standards. Our engineers stand ready to engineer water-based systems that include:

Sprinkler systems, wet and dry

Deluge systems, standard and pre-action

Water mist systems

Pump stations

Hydrant Systems



We have successfully completed many projects both as a consultant to the owner, and as a contractor. Our fabrication facility can pre-fabricate all the pipe work, trim and test all the valves prior to delivery to site enabling us to deliver on time and to budget.

4. Gas Suppression Systems

Fire extinguishing systems based on gaseous agents are quite apt for dealing with fire without leaving any residues behind, which make them highly efficient for locations containing expensive equipment and tools. In fact, Gas Based suppression systems can deal with fire, even in places where sprinklers cannot reach. Gas Based Suppression Systems are used mainly in confined rooms or areas where the space is cramped or confined, which makes them perfect for power plants and industrial locations.

To ensure the safety of workers working in the industrial workplace, the gaseous agents used in our fire suppression systems are professionally engineered and environmentally friendly.

Gas based fire suppression systems work by either replacing the oxygen, as is the case with Carbon Dioxide systems, or creating a chemical reaction with the burning material to extinguish the fire





5. Fire Alarm and Detection Systems

ECC offer a complete range of specialist Fire Alarm and Detection systems, as well as fully integrated evacuation information systems, to meet the diverse needs of our clients. **ECC** has grown at a steady pace, invested in dedicated, qualified staff so that we can bring our expertise, knowledge, experience and support to our residential, corporate and public service customers both locally and regionally.







Detection

- ➤ Spot type heat detection
- ► Linear heat detection
- ➤ Air sampling smoke detection
- ➤ Standard smoke detection
- ➤ Sophisticated gas & flame detection

Manual Stations

- ➤ Discharge stations
- ➤ Key lock-out stations
- ➤ Abort stations

Audible and Visual Devices

- ➤ Alarm horns
- ➤ Alarm strobes
- ➤ Alarm bells
- >Explosion proof devices
- **▶**Combination units

6.CCTV IP & CONVENTIONAL CAMERAS AND ACCESSORIES



ONLINE MONITORING!...

CCTV IP & CONVENTIONAL CAMERAS AND ACCESSORIES

HIGH RESOLUTION CAMERAS

AHD, TVI Analogue Cameras

High Resolution IP Cameras

Wireless Cameras

Covert Cameras

Built In Memory Storage

Audio / e PTZ Functions

360° Indoor Cameras

Poi Supports

Face and Motion Detection

Recordings

HD DVR / NVR / NVS

4,8,12,16,32,64 Recorders

Pentaplex Operations

Full IP compatible

CMS Software Support Up to 128 Cameras

Built in DVD Writer and USB Back Up

User Friendly GUI

Real Time Recording with HD Quality on Each Channel

Digital PTZ Controller

Support Up to 16 TB HDD



CCTV MONITORS AND ACCESSORIES





7. ELECTRICAL SERVICE SUPPLY & INSTALLATION

ELECTRICAL PROJECT:

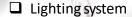
ENGINEERING AND CONSTRUCTION CORPORATION

FOR GENERAL CONTRACTING.is a full service electrical contracting company that specializes in controls and to and

installation, Establishment has the skills, knowledge and experience to make your project a long-lasting success.

ENGINEERING AND CONSTRUCTION CORPORATION FOR

GENERAL CONTRACTING. Design ,Supply and installation of cable tray , EMT & PVC Conduits' Cable & wire pulling ,light fixture , panel boards with termination ,testing & Commissioning . Establishment also design , Install & maintain electrical low voltage system such as



■ Power System

☐ CCTV Security Camera

☐ Building Automation Management system (BMS)

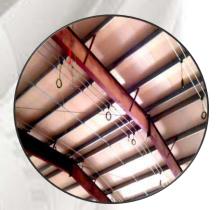
☐ Fire alarm security System

□ Access Control Security System

☐ DATA network system (UTP /Optic Fiber)

☐ Public Address & Other Audio Visual System



















SWITCHGEAR, CONTROL, PROTECTION & DISTRIBUTION SYSTEM

Installation, Testing and Commissioning of: High

Voltage Switchgear

•Medium Voltage Switchgear Power

Distribution Boards Main

Distribution Boards Lighting

Control Panels

- Low Voltage & Medium Voltage Cable Pulling
- ■Termination & Splicing of LV & MV Cables (Certified by SEC) Power

Management Systems

■Power Factor Correction

Uninterruptible Power Supply

Automatic Transfer Switch Battery

Chargers

8. Fabrication of HVAC Duct system

ECC provided service of fabrication and Installation of HVAC system with the help of our dedicated team of engineers, skilled manpower, Required Machinery's, Use of Standard Materials based on general planning, instruction & Under safety in the supervision of client requirement.

Duct Fabrication of HVAC:

Sheet metal fabrication is an art in itself and requires special training to make sure the ducts are solid and will carry the HVAC air through a system with no leaks. Ducts are used to provide a passage for ventilation, heating and air conditioning. Galvanized mild steel with the Required gauge thickness as per the requirement of client.

DESIGN & CONSULTING

Our HVAC Design and Drafting Services include:

- Design & drafting services for HVAC system construction Plan drawings
- HVAC Design and Layout Design
- Design, development and construction plan drawings
- HVAC Load Calculation (Cooling and Heating)
- HVAC Pipe sizing and its Layout Design
- Schedule for Equipments
- Air Conditioning Design & Layouts
- HVAC Design, Detailing & Drawings
- HVAC Consultation
- Duct sizing and design layout plan drawings
- Equipment piping sizing and design layout plan drawings

Our Water Drainage Design Services include:

- Preliminary Drainage Assessment
- Detailed Foul and Surface Water Drainage Design
- Sustainable Drainage Systems
- Design Audits and Problem Solving
- Package Sewage Treatment Plant
- Sewers for Adoption

Drainage Design Services and Assessment

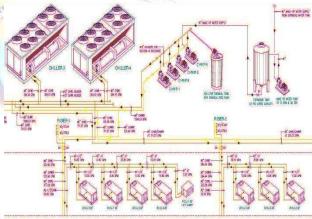
- Existing Drainage Infrastructure
- Strom water run-off from green field calculation
- Storm water storage requirements and design

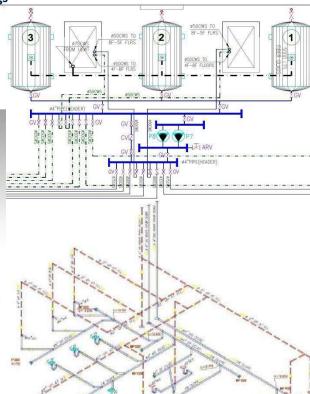
Our Drainage Design services for foul and storm water flow including:

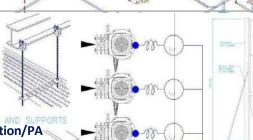
- New development of foul and storm water flow
- Existing drainage system to accommodate additional flows capacity and suitability
- Hydraulic analysis and simulation modelling of foul and storm water drainage systems
- Design of detailed drainage layouts
- On-line and off-line storage facilities and simulation modelling
- Preparation of detailed drainage schedules, plans and sections
- Sustainable Urban Drainage Systems and techniques

Electrical Design and Drafting Services include:

- Design and Drafting of Lighting System
- Design and Drafting of Power System
- Design and Drafting of Fire Protection System
- Electrical Power and Lighting System Plans
- Electrical Diagrams / Layouts in Industries
- Access Control/CCTV/Telecommunication/SystemIntegration/PA Systems







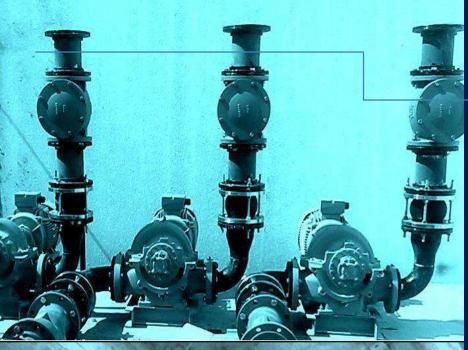


Our Porject Gallery Details

& Worked Services......





















Types of ducts:

The types of ducts to be fabrication by **ECC** as follows

- I . Rectangular ducts
- ii. Round duct w/spiral seam



iii. Flat oval ducts



iv. Flexible ducts





The construction of a pre-insulated duct generally follows a standard procedure regardless of the shape of the duct: • Tracing • Cutting • Gluing • Folding • Taping • Flanging and reinforcement if required • Sealing



Tracing:

Using a Teflon pencil, which can be supplied by STIFERITE, an outline of the duct shape, can be scribed on the PIR panel. All measurements refer to a duct's internal dimension. This means the area of air passage or opening of the duct. All tracing and/or plotting is done on the internal side of the duct.

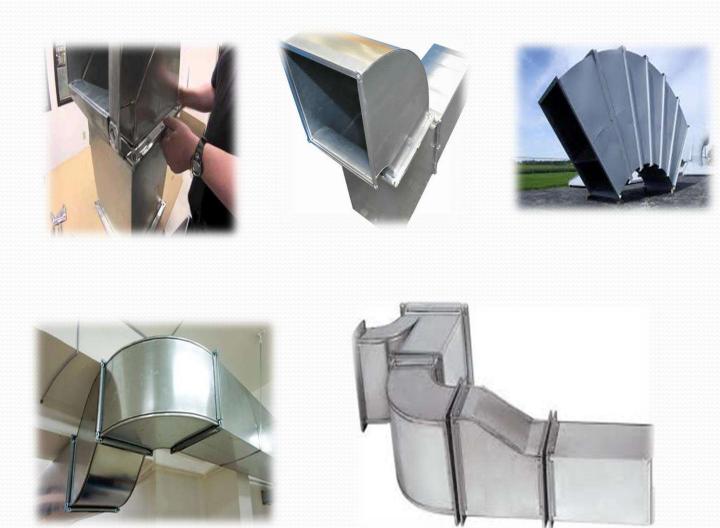
Cutting:

45° miter cuts are made along the edge of the duct, while "V" cuts or grooves of the same angle are made for folding of the panel into shape. Other special purpose angles can be made including 22.5°. All the cuts are made using Jack Planes made available by STIFERITE.

Sealing:

After the duct has been assembled, all internal joints must be hermetically sealed with silicon. Apply a bead of silicon to all the joints and then using a radiuses tool or a wet finger run it along the length of the silicone to spread the sealant along the side of duct wall. Besides sealing the joints, the silicon also prevents any foam particles from entering the flow of air.

ECC provided fabrication of different type's joints of Duct for the installation and Standard procedure specifications.



The material used for duct for the fabrication is as follows:

- ➤ Galvanized steel.
 - >Aluminum.
 - ➤ Polyurethane and phenol insulation panels (pre-insulated air ducts)
 - Fiberglass duct board (reinsulated non-metallic ductwork)
 - >Flexible ducting.
 - Fabric ducting.
 - ➤ Waterproofing.
 - ➤ Vibration isolators.

ECC will follows the standards such as:

- **>**ASHRAE
- **>**SMACNA
- >UMC
- ➤ SAES(Saudi Aramco Engineering Standard)

SAES-K-001 - Design and Installation of Heating, Ventilating and Air Conditioning Systems

SAES-K-002 - Air Conditioning Systems for Essential Operating Facilities

SAES-K-003 - HVAC Systems for Communications Facilities & Data Centers

SAES-K-100 - Saudi Aramco Mechanical (HVAC) Code

SAES-K-101 - Regulated Vendors List for Heating, Ventilating and Air Conditioning

(HVAC) Equipment

> SABIC

H01-E01 – HVAC System Design Criteria

H02-C01 - HVAC Installation

H02-S01 – Specification for HVAC Equipment

Installation of HVAC System

ECC is specialized in doing HVAC Installation works in all over the Eastern province of KSA we have done some of our major project In 5 storey& 4 storey building in Dammam, KHOBAR & Jubail region we have specialized and categorized staff in doing this kind installation works of HVAC system

I would like to give to a little bit of detailed explanation of this process system in HVAC we have refrigeration cycling system so the design is based on the simple principle process of refrigeration cycle

As you can see the simple process of this cycle works which are used in our daily day-to-day life. So this process is been used in our chiller system like AHU, ACCU, Package unit, Rooftop unit etc.

The HVAC system consist of AHU, ACU, CFU so the design of these equipment is been calculated by Dew point, wet bulb temperature, Dry bulb temperature CFM of room. In installation of HVAC system, we used a designed & fabricated from metal sheet, which is called duct. Therefore, the duct may consist of S.S, G.I etc.



HVAC System Ducting installation

HVAC System

Our HVAC service contracts and air handling unit maintenance agreements provide a planned, preventative AHU maintenance solution to sustain the optimum efficiency of your air handling unit or BEMS, enabling you to see real savings in energy costs and reduced carbon emissions. Another key component of our services is ensuring you are aware and compliant with any legislative requirements, e.g. F-Gas Regulations.

HVAC service contracts can also be customized to suit individual requirements, ensuring that you receive an AHU maintenance package, which is tailored to meet your specific site, and application requirements. Choose from five comprehensive standard HVAC maintenance agreements.









9. Installation of RTR Piping.

Pipeline maintenance services enable your pipelines to operate at maximum efficiency by keeping them clean, our mechanical, chemical, and gel cleaning methods allow us to match your pipeline conditions and ensure debris removal at reduced cost. We clean crude oil, refined products, water, natural gas, and specialized petrochemical pipelines, including difficult-to-treat ethylene systems.













10. Installation & Fabrication of Pipe Spool

The installation of pipe systems follows its fabrication and is very frequently a part of it. The installation of pipe can be accomplished in the following two primary ways, or combinations thereof:

- A. Field fabricate and install
- B. Shop fabricate and field erected

Some contractors prefer to do most, if not all fabrication in the shop, others prefer to set up at the job-site, while others are flexible enough to utilize the best of both methods.

Field fabrication and installation is exactly what it means. The pipe is fabricated on-site, either directly at the place where it is mounted, or in a temporary accommodation in the field.





11. Installation of Sanitary Sewers

Sewage treatment is less effective when sanitary waste is diluted with storm water, and combined se we rover flows occur when runoff from heavy rainfall or snowmelt exceeds hydraulic capacity of sewage treatment plants

To overcome these disadvantages, some cities built separate sanitary sewers to collect only municipal wastewater and exclude storm water runoff collected in separate storm drains.



12. Fabrication of Steel Structure

Structural steel fabrication can be carried out in shop or at the construction site. Fabrication of steelwork carried out in shops is precise and of assured quality, whereas field fabrication is comparatively of inferior in quality.

In construction site fabrication is most common even in large projects due to inexpensive field labor, high cost of transportation, difficulty in the transportation of large members, higher excise duty on products from shop. Beneficial taxation for site work is a major financial incentive for site fabrication.



13. Fabrication and Erection of Storage Steel tanks

We carry out design, development and fabrication of light, medium and heavy structural works, piping and all types of tanks and pressure vessels, oil field skids, mechanical plant room, district cooling plant room and structures.

Our fabrication workshop is equipped with latest machinery, which includes oxygen / gas profile cutters, guillotine, plate rollers, etc.

We have the facility to offer full design and construction of all types of structural as a single





Fabrication & Erection of structural steel buildings, offshore platforms, atmospheric tanks, pressure vessels, product tank farms, LPG spheres and miscellaneous steel structures for several years

Our team of experienced professionals in design, engineering, fabrication & construction work round the clock only to satisfy our customers

FIELD FABRICATED TANKS AND VESSELS

Stainless Fabrication opened for business, field fabricated tanks Our highly skilled personnel use innovative equipment and efficient fabrication methods to construct tanks wherever our customers need it—even on the side of a mountain or a mile below the earth's surface in an abandoned mine. The experience we have in field fabrication has set us apart in our industry and has made us a top tank manufacturer across varying industries.

SHOP FABRICATED TANKS AND VESSELS

While we got our start field fabricating large, above ground tanks, We continually invest in state-of-the-art technology to produce the high-quality chemical/industrial, food/beverage grade and pristine pharmaceutical vessels we are known for:

☐Pressure vessels
□Mixers
□Reactors
☐Storage tanks

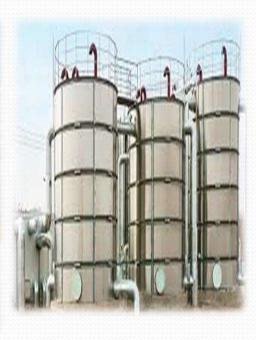
Typically, tanks can be modified for much less than replacement cost! ECC personnel have
the skills and experience to
☐Inspect and repair damage
□Add or move fittings
□Install new man ways
☐Perform agitation repairs or modifications
☐Replace a damaged top and/or sidewall
☐Replace outer jacket
☐Build and Install ladders, platforms, handrails
TANK INSPECTIONS, REPAIRS & MODIFICATIONS
Things happen. You notice a leak or crack in a weld. A fitting gets hit by a fork truck and it

can't be used. The tank vent is restricted and now the top of your tank is crinkled like a pop

can.













Storage Tanks

Water storage tanks need to be periodically inspected and cleaned to help maintain good water quality in the distribution system, and to help extend the life of the tank. Regular tank inspections can also help to identify small problems that may develop into major problems that can create health related issues, lead to costly repairs or premature tank failure. Tanks that are not periodically cleaned can cause contamination events that can harm human health or can contribute to customers' aesthetic complaints



Individual systems

In modern buildings, the design, installation, and control systems of these functions are integrated into one or more HVAC systems. For very small buildings, contractors normally estimate the capacity, engineer and select HVAC systems and equipment. For larger buildings, building service designers, mechanical engineers, or building services engineers analyze, design, and specify the HVAC systems.

Specialty mechanical contractors then fabricate and commission the systems. Building permits and code-compliance inspections of the installations are normally required for all sizes of building.

District networks

Although HVAC is executed in individual buildings or other enclosed spaces the equipment involved is in some cases an extension of a larger district heating (DH) or district cooling (DC) network, or a combined DHC network. In such cases, the operating and maintenance aspects are simplified and metering becomes necessary to bill for the energy that is consumed, and in some cases energy that is returned to the larger system.

For example, at a given time one building may be utilizing chilled water for air conditioning and the warm water it returns may be used in another building for heating, or for the overall heating-portion of the DHC network (likely with energy added to boost the temperature).

Basing HVAC on a larger network helps provide an economy of scale that is often not possible for individual buildings, for utilizing renewable energy sources such as solar heat, winter's cold, the cooling potential in some places of lakes or seawater for free cooling, and the enabling function of seasonal thermal energy storage.

14. Fabrication through Different Type of Wildings

ECC shall also capable to fabricate a different type of welding as per client requirement & requirement of standards to give a required design & quality to the particular work.

We are specialized in providing this kind of service for you with the help of our dedicated team of engineers, skilled manpower, Required Machinery's, Use of Standard Materials based on general planning, instruction & Under safety in the supervision of client requirement (incl. TIG Welding, MIG/MAG Welding, SMAW Welding, Spot Welding, Arc Welding etc.,)



TIG Welding

MIG/MAG Welding

SMAW Welding

Spot Welding

We are take extra precautions on fabrication of welding, installation of heavy duty electrically operated equipment's works which must under our dedicated team of engineer to be taken responsibility to execute all fabrication &installation works required quality.

Our scope of work starts from use of Standard materials, Standard Specifications until hand over with required quality.

ECC will take extra precautions & follow safety standards for Health & Safety of our workers during the scheduling work procedure to execute all works without involving any harmful situations.

Type of project, size and scope of the project, pipe size and material, accessibility of the equipment, surface treatment after fabrication, weather conditions, availability of qualified personnel, time available to do the job, etc.

15.Installation of Mechanical Equipment

The Contractor shall provide supervision, labor, equipment, materials, tools, and supplies unless specifically noted as being provided by others, to perform the work described herein in accordance with this document and the referenced specification, drawings, and related documents. Work not specifically shown on the drawings or enumerated herein but that is reasonably necessary for the proper completion of the contract shall be provided by the Contractor the same as if shown on the drawings or enumerated herein.



The mechanical equipment shall be installed in accordance with all applicable federal, state and local codes, standards, rules, regulations, and laws including, but not limited to, the codes and standards referenced in the Specification.

Unload OWNER furnished equipment and materials. Load and transport equipment and materials from the storage area to the installation location.

Install all the equipment shown on the drawings or as noted in other contract documents. Equipment installation shall include the supply and placement of grout for equipment or materials and the supply and installation of anchors and fasteners as required for a complete installation.

Motor driven equipment placement shall include alignment, assembly of belts, sheaves, couplings, guards, etc. as required for a complete installation.

The Contractor shall inspect the location for the equipment to be installed prior to beginning installation to insure readiness of area including anchor bolt locations, size, projections and placement of support steel where applicable.

Work in an area shall be coordinated through the OWNER Construction Manager. No installation of equipment shall be installed without release of the area for such installation.

All materials and equipment furnished by the Contractor shall be in accordance with the specifications. OWNER shall approve substitution of any materials deviating from the specifications and drawings in writing. A description of Contractor supplied substituted material shall be submitted to the OWNER Construction Manager for approval

The methods followed in site fabrication are similar but the level of sophistication of equipment at site and environmental control would be usually less. The skill of personnel at site also tends to be inferior and hence the quality of finished product tends to be relatively inferior. However, shop fabrication is efficient in terms of cost, time and quality

Structural steel passes through various operations during the course of its fabrication.

Generally, the sequence of activities in fabricating shops is as shown in Table1

The sequence and importance of shop operations will vary depending on the type of fabrication required. All these activities are explained briefly in the subsequent parts of the section

1	Sequence of Operation
2	Surface Cleaning
3	Cutting & machining
4	Punching & Drilling
5	Straightening, Bending & Rolling
6	Fitting & Remaining
7	Fastening (Bolting, rivet & Welding)
8	Finishing
9	Quality Control
10	Surface treatment
11	Transportation

DESCRIPTION:

In the field of Civil/Structural, Mechanical, Piping, Electrical & Instrumentation having completed9 years successfully.

9 years of experience and the significant resources in the form of fleet and equipment's make us a successful General contractor in Plant construction, mechanical and piping erection and civil works activities. Mobilization of Men and material for delivering highest quality projects on time has been the hallmark of ECC

Planning and Scheduling is undertaken prior to the commencement of any work by our skilled and highly trained workforce, together with constant liaison between our management teams, clients and consultants, ensures that each contract is fulfilled with the utmost efficiency whilst conforming to exacting international standards and specifications, aimed at completing the project within budget and timeframe.

ECC has been responsible for the execution of a number of projects, which have made substantial contribution to the economic expansion and development programs of Kingdom Of Saudi Arabia. It has been involved in wide range of projects and gained considerable experience and expertise, thus increasing our capacity to execute a wide variety of construction work projects and related contracts.

ECC from the ground up has the capability to undertake civil construction including foundations, civil structures, and sub-structures together with the associated ancillary installations for major Industrial Complexes.

Structural steel fabrication and erection including pre - engineered and hot rolled steel framed buildings, pipe racks and equipment structures commonly found in Industrial facilities. Pipelines and pipe work form the major component of any process plant, our expertise in fabrication and erection in carbon steel, stainless steel, alloy steel and other materials in a variety of erection projects provides a significant complementary contribution to our other construction activities.

Mechanical erection services are also required for most plant installations; we are fully equipped to undertake the installation of all types of static equipment and rotating machinery to the most stringent standards.

ECC is specialized in the installation of mechanical equipment and piping systems. We have a long- standing record of accomplishment in Petroleum, Petro-chemical, and industrial process plant construction projects. We have been involved in Greenfield plants, plant revamping and upgrades.

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We offer full installation services for electrical power and instrumentation including MV/LV installations, distributed control systems and alarm and monitoring systems, of the latest technological and highest degree of precision.

16. Our Strengths

ECC works in close co-ordination with various Industrial sector companies to plan and project their variable work force requirements to provide support for operation and maintenance requirements.

Operational services are rendered thru highly skilled individuals who undertake particular tasks or meet variable short term operating requirements that are not economically viable, for permanent placements, for our clients

Our expertise in Human Resources Services have been drawn over many years from the associated activities of the organization providing highly skilled workforce familiar with all aspects of plant maintenance.

Our Commitment to support Clients during critical activities where timely completion is measured in daily production gain or save on down time, has secured our position as a preferred contractor for these requirements.

Project Management team is headed by a Professional Manager for Project Planning, scheduling, controlling and monitoring.

PMT equips each project execution in-charge with the required data and cost information on regular basis. It works on each project in resource planning, resource allocation and resource utilization

to completion stage. It provides periodical Reports to Management for decision-making.

Procurement for Industrial Projects is a tough task and requires highly experienced professionals and sophisticated systems to enable delivery of material on time for projects. To ensure that material supplied is at the best price with appropriate quality, **ECC** has set up extensive "Supply Chain Network" with reputed Suppliers and its affiliates.

Material control involves exhaustive logistics and distribution for a In ECC PMT plays a vital role in making each project a successful venture. It manages planning & scheduling and monitors Budgeted costs Vs Actual Costs, works out cost analysis and supports execution teams in each stage of the project.

PMT works in tandem with Estimation, Engineering & Execution teams

Briefly, **ECC** Project Management team runs the Project cycle from the initiative stage geographically diversified company.

ECC has fully equipped Stores at Al Khobar city.

17. Human Resources

In **ECC**, we believe that SAFETY is a conceptual revolution. A fundamental transformation of the way people learn, do business, relate to each other and seek fulfillment in life and work. The accidents represent a social loss of great magnitude in the form of pain, loss of earning capacity and cost due to disturbance on economic efficiency. Safety is our basic tool to gain freedom from accidents and preserving lives and keeping families together.

ECC notes every importance to health and safety from the humanitarian, economic, and legal viewpoint. It is the policy of our company to provide and maintain safe and healthy working conditions and to follow operating practices that safeguard all employees, which will result in efficient operations. In line with this policy, management of the organization is committed to the protection of its human resources, properties and the environment

To attain our objective of ZERO ACCIDENTS, Vigorous efforts are extended to accident prevention in all possible ways and implications. We consider the same as an important element in our construction process under the direct responsibility of the project execution team.

Our Loss Control Program is educative, creates awareness, and trains employees on how to take adequate precautionary measures while handling hazardous activities. It also addresses some of the administrative methods we have established for the achievement of safe and healthy working environment. A Manager along with trained professionals, who in turn train all our safety conscious employees of

Hand tools like Spanner, Wrenches, Pliers, Hammers, D Shackle, Shelling, Wooden Blocks Slats& other lifting & shifting materials as required.

18. Project Quality Plan



ECC Recognizes that the quality of service that Client Organizations expect of their services can only is achieved by establishing a system that will allow this to happen.

The system, as far as possible common to all projects, consists of general guidance and a set of established procedures for all activities that are normally associated with providing service to clients

The emphasis within **ECC** is on planning the work from the earliest opportunity so that all concerned parties have a clear understanding of their contribution towards the achievement of Quality Service. Project Quality Plans are the means that each individual member of staff is aware of what is required of him.

The Project Quality Plan will define among other things, the Client Brief, the Program, Organization, Responsibilities and Work Procedures to be followed, and will be the key element in the successful application of ECC Quality System.

In order to monitor and verify that work has been carried out in accordance with the Project Quality Plan, it will be necessary to keep simple records (in the form of check lists, signed and dated) that required activities have taken place. This will provide the documentary evidence necessary to demonstrate compliance with the Quality System.

To have a common object with the client and commitment to develop, our administrating project task team organization capable of performing the contractual scope of work with in an effective manner as per the specifications within the schedule while maintaining expected quality without compromise to safety, **ECC** assigns project director.

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1.0 PREAMBLE

1.1 Introduction

This Quality Manual describes the organization of **ECC** And its Quality Assurance System conforming to ISO-9001: 1994

1.2 Structure

The manual is structured in Chapters & Sections as per its table of contents. Some chapters contain more than one Section, which are numbered serially like 1.1, 1.2, and so on for Chapter 1 where first digit indicates chapter number and second digit the section number. Sections begin with page number 1 and the page number is continuous within the section and not throughout the manual. If a Chapter does not contain sections, the Chapter begins with page 1 and the page number is continuous within the Chapter. This will facilitate future modification of Chapter/Section without affecting other Chapters/Sections. Whenever Sections have procedures/specimen forms and formats applicable to that Section, they are arranged after the content of Quality Manual and each procedure/specimen forms & formats begin with page 1 and the page number is continuous within that procedure/specimen forms and formats.

1.3 Distribution

The responsibility for the issue, Control and Maintenance of this manual is of the Management Representative (MR). Only Controlled Copies are issued within the organization as per the distribution list maintained by MR. Each page of controlled copies of the manual bear's stamp of "Controlled Copy" in red ink.

1.4 Modifications

The Management Representative is responsible to bring out any revisions resulting from changes required to be done. Each page of this manual has revision and edition status. When revision resulting from changes on any page of this manual is carried out, the page is replaced with the updated page having appropriate revision status. After substantial number of revisions of any page of the manual involving bulk changes, the total manual is re-issued with new edition number setting all pages of the manual to revision status "O" based on the decision of MR. For distribution of revised pages/ chapters/manual, same method is employed. Only the original copy of the older revision may be preserved with "MR" for future reference, if decided by MR.

2.0 MANAGEMENT RESPONSIBILITY

2.1 Quality Policy

The primary objective of **ECC** is to function as customer need-driven organization through efficient teamwork. In order to achieve these objectives, **ECC** is committed to establishing and maintaining an effective and efficient Quality Systems conforming to the requirements both at corporate and project levels. Quality objectives and intents are:

Conceptual and detailed designs adequate to meet customer's requirements including functional safety, aesthetic, reliability and cost characteristics stressing conformance to all relevant codes and standards, economy, and conformance to project specifications

Performance based vendor selection, evaluation, and surveillance together with mutual growth through continuous exchange of knowledge and performance information.

2.2 Guiding Principles of the Organization

- Continuous Pursuit of Perfection & Harmony
- Collective efforts with individual dignity
- Decision Making Based on Analysis of Facts Management by policy based on values.
- •Value based thoughts & policies meeting the needs of the organization and aspirations of its members.
- Observation of "PDCA" Cycle

- •Planning, implementation, standardization, & summarization for future planning.
- Customer's Satisfaction
- •Pursuit of customer's delight through concern and communication.
- •Innovation & Involvement Planning, implementation, standardization, & summarization for future planning.
- •Concern for Environment Living up to the expectation of physical & social environment.
- Intangibles Responsiveness, sincerity, cordiality & courtesy.

2.3 Organization

ECC

Management is responsible for establishing, implementing and maintaining the company's Quality Policy. Organizational structure of the company is described in Appendix "A" showing span of control under President & Operation Manager covering Technical Manager, Departments.

2.3.1 Responsibility and Authority

President as Chief Executive Officer owns the total responsibility of effective system implementation, maintenance towards management of quality performance and delivery. Vice President, Technical Manager, and individual Department Chiefs are held responsible for the respective areas of control.

Responsibilities and authorities of various levels of personnel in the organization is described below:

a) President

- •Articulation of vision & mission of the company.
- Evolving strategies & leading towards the vision.
- •Overall management of the organization. To establish an overall plan for development of business, select key subordinates and organize them to achieve the objectives of the plan.
- ■To maintain discipline in the company.
- Review of Quality Management System.
- •Management of interface within the organization and with external agencies for ensuring incremental and continued improvement of company's performance, goodwill and image

b) CEO

The Chief executive officer is responsible for:

- •Ensuring that the management commitment towards quality is evident, consistent and sustained.
- Establishing policies and a system of procedures to accomplish quality objective.

c) Operation Manager

- ■The Operation Manager is responsible for:
- Ensuring that necessary resources for implementing the Quality System are provided.
- •Assigning duties, delegating authorities, setting-up adequate methods and standards of performance and evaluating results objectively.
- Production of all contracted Architectural and Engineering Services

d) Quality Management Representative

The Quality Management Representative is responsible for:

- •Continuously maintain and verify compliance with the requirement of the Quality System as of ISO-9001 by conducting periodic system reviews.
- Performing the audit of projects.
- Supervising the Quality System.
- The resolution of any non-conformance in the system.
- •Assuring that the Quality Policy is understood implemented and maintained at all organizational levels and by sub-contractors, suppliers and vendors.

e) Project Managers

The Project Managers are responsible for:

- •Managing all aspects of the project execution in accordance with client requirements within time, cost, quality and technical objectives.
- •Coordinating and supervising the design/analysis work carried out by groups in compliance with Company, client and other standards and codes of practice
- •Ensuring that all-technical analysis, calculations and drawings are verified and approved in accordance with project procedures.
- Promoting quality assurance.
- •Ensuring that all staff assigned to his group are familiar with project procedures and have ready access to them.
- •Preparing the quality plan and monitoring its execution.
- Coordination with clients, agencies and subcontractors

f) Finance Manager

- ■The Finance Manager is responsible for:
- Client Invoicing
- Company Accounts, Payroll, and
- •General Financial Planning

g) Administrative Services Personnel

- Administrative Services Personnel are responsible for:
- •Implementation of the administration parts of the system such as recruitment of personnel,
- •Staff welfare, visas, housing, transportation, travel arrangements, office accommodation and furnishings.
- Secretarial services, company vehicles

h) Senior Engineer

•Responsible for professional/technical staff input to assigned projects, includes Senior Architects.

i) Site Manager (Construction Management Group)

Responsible for the local management and control of a specific project work site, with support as required from the main design office, to supervise construction activities and to ensure compliance with a Quality Assurance Plan. - Make sure that every member of his staff knows from whom will he take instructions and to whom he may give them without undue delays and interference.

Attend all-important meetings with client or supervising staff and subcontractors.

Review field reports.

Assist the Project Engineer in master planning and to synchronize general operation and execution.

j) Site Supervision Team (Construction Management Group)

A group of engineers and inspectors assigned to the project work site to support the Site Manager.

3.0 MANAGEMENT REVIEW

In ECC CONTRACTING .a Management Review meetings are an important opportunity to bring together an overview of the management system, to assess its performance, and to identify any opportunities where it can be improved. Held at least once per year, it's also a time to review the company's quality policy and set new objectives for the coming year. It's essential that "top management" be involved.

The agenda should include a review of:

- •internal and external audit findings and reports
- •Customer feedback look closely at the negative feedback, but don't leave out the positive feedback its valuable data too (and nice to hear!)
- supplier performance
- •All issues raised or resolved since the last review to make sure problems are being resolved properly, and to look for trends in the data
- •Process performance is the process reaching/maintaining performance targets?
- •any changes to standards, regulations, technology, competition, staffing, and other business activities that could affect the quality system
- •improvement requests
- •To be effective, attendees need to come to the meeting prepared with data, and be ready with some conclusions drawn from the data.

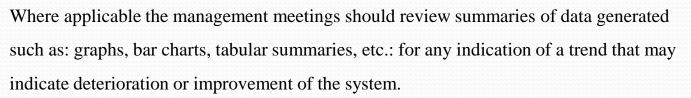
At the end of the management review process **ECC** record any decisions and actions to be taken to improve the management system, product, and/or processes, and what resource needs have been identified.

Quality Systems Toolbox makes it easy to schedule and record our management review meetings.

ECC ensures that the provisions of the management system and its effectiveness are reviewed. The meetings need to review current management & operational performance data and ensure that improvement opportunities have been addressed The standard says that review meetings should be held at "planned intervals". This can be monthly, quarterly or annually. We strongly recommend that they should be "scheduled events" in our organizations calendar and publicized well ahead of the actual meeting date.

- Our nominated Management Representative should chair management review meetings. Senior managers, line supervisors, compliance officers are a given. Maybe we should also extend an invitation to other "interested parties" from time to time, say, a representative from key suppliers.
- The meeting agenda needs to focus on quality related activities including the on-going development of the management system.
- The meetings could include a review of the following, as applicable:
- The minutes of the previous management meetings & a review of outstanding actions from the last management meetings
- Current organizational structure and resources

- ■R & D initiatives & development projects
- Operational performance indicators
- Results of audits
- Customer feedback
- Product, process and system
- Non-conformances
- Status of Corrective / Preventive Actions
- Recommendations for improvement
- Planning for training
- •Changes that could affect the system i.e. regulations or legislation



Targets for performance improvement need to be reviewed at each meeting.

Our Management Review Meeting Minutes need to include details of attendees, brief notes of the discussions/review activities, including action officers and proposed action completion dates.

Output from the management meetings shall include decisions and actions related to:

- •Improvement of the business / operations
- ■Improvement of the effectiveness of the overall management system Quality + WPHS +

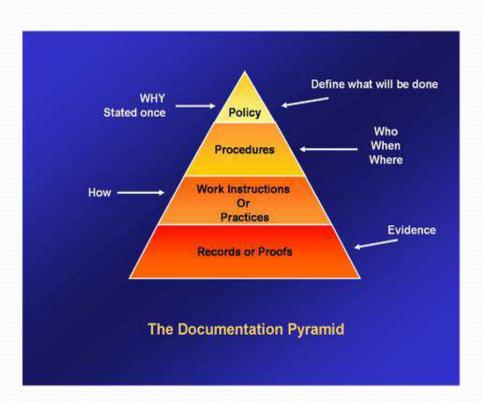
Environmental

- •Improvement of product related to customer requirements
- Raising of appropriate corrective / preventive actions, as required
- ■Resource need



4.0 QUALITY SYSTEM

A quality system in to **ECC**. Ensure that the quality level of a product or service is maintained. The system documentation can be viewed as hierarchy containing four tiers, as shown in the following illustrations:



All documentation moves from one level to the next in a descending order. If the system is properly structured, changes at one level will seldom affect the level above it, but may affect those below.

Policy:

The first tier of documentation is the policy manual. This is the document that defines what will be done and why. A quality policy manual should be written so it is clear, precise and practical, and easy to understand. The why can be stated just once as a quality policy statement? This statement should be a short, simple definition of the organization's quality intentions. For example:

Quality is the responsibility of each Tempest employee. We pledge to continuously provide products and services that meet or exceed customer expectations.

The remainder of the policy manual addresses that will be done to comply with the standard being used. Another way looking at the policy manual is to think of it as the commandments of the system. Each element of the standard is addressed individually and usually requires one page of less.

Procedures:

The second tier of documentation is quality procedures. These procedures describe the methods that will be used to implement and perform the stated policies. The procedures define who should perform the specific tasks, when the task should be done, and where the documentation will be made showing that task was performed.

They indicate the strategies that will be used to ensure the quality of the system. Procedures are more detailed than policies; whomever, they, too, should be written in a manner that will allow for easy understanding. It should be noted that procedures are not required for all elements. Many organizations combine the policy and procedures into one document. A procedure is needed if its absence would adversely affect the activity

Work Instructions:

Work instructions are usually department, machine, task, or product oriented a spell how a job will be done. The instructions are the most detailed of the documentation hierarchy. A work instruction may be in the form of a detailed drawing, recipe, routing sheet, specific job function (for example, turn nut four turns clockwise), photograph, video, or simply a sample for comparison or conformity.

The employee who performs the task best carries out the writing of work instruction. This person knows the process and problems encountered in that process. However, a documentation specialist may need to do actually writing. This method also creates a pride of ownership in the document, making it more likely to be carried out. Additionally, employee participation helps to ensure that future improvements will be suggested. Not every task requires a work instruction. For example, you do not need to tell a computer specialist to turn on the PC.

Records:

Records are a way of documenting that the policies, procedures, and work instructions have been followed. Records may be forms that are filled out, a stamp of approval on a product, or a signature and date on some type of document, such as routing sheet. Records are used to provide traceability of actions taken on a specific product or batch of products. They provide data for corrective actions and a way of recalling products, if necessary.

5.0 CONTRACT REVIEW

5.1 System Description

ECC .follows a couple of steps to be reach best review about Contracts, which give a mutual communication between clients.



We will make sure we have a contract in place before beginning any work. We're taking a big risk if we don't have a contract in place and we start work on a verbal agreement or letter of intent. Have the general contractor provide the most current set of plans and specs with the subcontract. The scope of work may have changed since we submitted our bid or provided pricing. It is important that our review any changes to the plans and specs to avoid being bound to performing additional work that was not included in our bid amount.

Carefully we read and understand the contract before signing. There may be provisions or clauses in the contract that we are not comfortable with. If the general contractor is unwilling to negotiate more favorable terms, it might be wise to walk away. Because the general contractor-subcontractor relationship is supposed to be mutually beneficial to both parties it also means that both parties will share some of the risks.

Risks should be allocated fairly, typically to the party best capable of managing them. Here are some clauses to watch out for in our subcontract:

Pay-when-paid or pay-if-paid clauses:

We will take extra careful with pay-when-paid provisions and avoid pay-if paid-clauses like the plague. Pay-when-paid means the general contractor doesn't pay the trade contractor until the owner pays them. Pay-if-paid means that if the owner never pays the general contractor then they aren't obligated to pay the subcontractor. Ideally, we want a payment schedule that requires us to invoice the general contractor by a specific date each month and that they will pay us within a specified number of days after receipt regardless of whether they have been paid by the owner.

Flow-down or pass-through clauses:

consequences.

These clauses typically incorporate by reference the terms of the general contract with the owner into the subcontract. This means the subcontractor assumes the same duties and obligations toward the general contractor that the general contractor is bound to the owner. We should never agree to a flow-down clause unless we are provided with a copy of the prime contract to review. If there are terms in the prime contract that we don't like we should ask the general contractor to alter or remove the flow-down clause to avoid unintended

Change orders:

The subcontract will generally require that any changes in work be submitted in writing. Never begin any work on a change order until we something in writing from the person authorized to issue change orders. We always remember to promptly submit claims to the general contractor for all additional costs and time extensions for the revised work.

Indemnification clauses:

These clauses will hold a trade contractor liable for any negligence on the part of the general contractor or others on the jobsite that we have no control over. The subcontract should only require us to assume liability for our own negligence and not that of the general contractor or any other third party on the jobsite.

Payment bonds:

We almost all public projects require that the general contractor post a payment bond to protect the owner. Increasingly, private owners are also requiring payment bonds as well to avoid having liens filed against their property in the event the general contractor fails to pay his subcontractors and suppliers. Trade contractors should obtain a copy of the payment bond from the owner to review. If we have to file a claim, make sure we fully document it and notify the surety in writing. Familiarize our self with any state statutes that may override the conditions in the bond contract for filing a claim.



We always follow a healthy business relationship between a general contractor and a trade contractor built on respect and mutual respect. Both parties must work well together in order to complete projects on time and within budget. In order for this to happen, general contractors needed to communicate effectively to their subs and treat them fairly. Subcontractors, in turn, should provide the general contractor with outstanding service and quality work.

6.0 DESIGN CONTROL

In the view of ECC .Design control states that when manufacturers or suppliers develop a product subject to design controls, they shall establish and maintain the proper documentation to ensure the specified design requirements are met.

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6.1 Design Plan

The overall development plan and defines design activities and responsibilities. It establishes roles of all contributors to the development process including marketing, purchasing, manufacturing, R&D, Regulatory Affairs, and others. The Plan also defines design elements, intended use, and interfaces associated with the overall design process.

6.2 Design & Control

Design Input

Establishes the requirements that will ensure the device will meet the needs of the intended users. This is often in the form of a Product Requirements document or a Device Specification document; et al. Design input does not come in a box and is not a tangible entity, but is a process of gathering all available information about how a device might fulfill one or more user needs, while defining requirements which characterize the device. A requirements document is the tangible embodiment of user needs and is "the" document that comprises all fundamentals to help decide how to implement the design. Requirements should specify what is needed, not the solution, and act as a basis for verification of the design. It is not a trivial document and requires time and effort.

Design Output

Applies to all stages of the design process. These final technical documents constitute the Design History File (DHF). This information shows that the device was developed according to the Design Plan and Design Inputs. It ensures that the Design Output meets the Design Input requirements and specifications. Design output is the accumulated information and instructions for building and maintaining the product. If followed, the result will be a device that consistently meets specified user need(s).

Design Review

These are planned, formal, and documented reviews of the design results conducted at appropriate stages of the device's design development. Formal Design Reviews (minimum of two) require the participation of representatives of all functions concerned with the design stage being reviewed and an individual(s) who does not have direct responsibility for the design stage being reviewed, as well as any specialists needed. The formal reviews ensure that Design Outputs are meeting the Design Input requirements and are being recorded.

Design Verification

Assesses conformance to the requirements, confirms, and documents (in reports) that the design output has met design input requirements. It verifies that the product was "made right".

Design Validation

Validation follows successful Verification and is performed under defined operating conditions on initial production units, lots, or batches, or their equivalents. It shall determine, by objective evidence, that devices conform to defined user needs and intended uses and shall include testing of production units under actual or simulated use conditions. Design validation shall include software validation and *risk analysis, where appropriate. It confirms that only safe and effective devices are produced for their intended use and therefore validates the "right product" was made.

Design Transfer

Ensures that the design specifications of the device are correctly translated into production specifications.

Design Changes

Design Changes are to be documented and validated or where appropriate, verified (again). They are also to be reviewed and approved again before their implementation.

Design History File (DHF)

Each manufacturer shall establish and maintain a DHF for each type of device. The DHF shall contain or reference the records necessary to demonstrate the design was developed in accordance with the approved design plan and the requirements of this part. It is a collection all outputs derived from the previous categories listed above.

Risk and Hazard Analysis activities are required during most phases of development.

Application of risk management to medical devices. The extent of testing and evaluation is proportional to the risks associated with the product. If risks are unacceptable, the manufacturer may need to redesign the device or establish appropriate warnings for use. If the Risk and Hazard Analysis procedures are found unacceptable or incomplete, FDA reviewers will question the "safety and effectiveness" of the device. It is therefore essential that any risks and hazards are mitigated to "acceptable" levels. Literature review shows that appropriate risk analysis procedures are always a challenge and fall short in more than half the cases studied. For these reasons, this author suggests that manufacturers establish a specific Risk Management section of their Design Control system.

When reviewing the design control requirements, FDA investigators will not determine if a design is appropriate, or safe and effective. They will evaluate the design control process, make recommendations based on whether the manufacturer has the required checks and balances in place, and verify implementation of the design control guidelines

6.3 Design Changes

Stages where change control procedures might be introduced include:

- •At the end of the concept design stage if the project is tendered at this stage (for example on a design and build project).
- •At the end of the concept design stage when the project brief (and employer's information requirements) might be frozen.
- •During the detailed design stage when the detailed design, technical design and specification are finalized.
- •During the tender stage when the tender documentation has been prepared.
- •When the contractor is appointed and any further changes may qualify as variations.
- •It is important that the need for changes is minimized.
- This can be done by:
- •Undertaking thorough site investigations and condition surveys.
- •Ensuring that the project brief is comprehensive and is supported by stakeholders.
- •Ensuring that legislative requirements are properly integrated into the project.
- •Ensuring that risks are properly identified.
- ■Ensuring that designs are properly coordinated before tender.

- •It is common for the cost consultant to report on the estimated cost of changes and for the client to priorities which changes are acceptable. The client may decide to fund additional costs from a design contingency. A change control procedure should clearly define the process by which changes are requested and approved and who is responsible for those processes, including:
- •The reasons for the change.
- ■Who is requesting the change?
- •The consequences of the change, including health and safety, time, quality, cost (and who will bear the cost).
- •Proposals for mitigation of any consequences.
- The risks associated with the change.
- •Alternatives to the proposed change.
- •Time by which the change must be instructed.
- ■There may then be:
- •Client evaluation of whether the impact of the change is acceptable and whether the proposal provides value for money.
- •Client instructions to the consultant team.
- •Contract administrator instructions to the contractor.
- •The client may have to consider a number of requests for changes and may therefore need the appropriate information to be able to priorities them relative to one another.
- •Change control procedures should be formally set out in a project quality plan to ensure that changes to controlled aspects of the project are referred for review to the right person at the right time and so that changes are properly documented and reflected in all project information.

7.0 DOCUMENT CHANGES/MODIFICATIONS

Superseded documents are promptly removed from all point of issue or use and replaced with updated documents. All superseded documents will be clearly marked "Superseded". Revised documents will be reviewed and approved by the same personnel that performed the original document review and approval unless specifically designated otherwise. A register of document revisions will be maintained to identify current revision status of documents. A description of the revision will be provided in the revised document, refer to Procedure No ECC "Document Control".

7.1 Registration of Documents

Incoming/outgoing documents and drawings will be registered in the recommended registers.

7.2 Codes and Standards

All national/international standards, regulations, rules etc., will be controlled and their status—will clearly be identified to ensure that the project team is always using up-to-date standards.

7.3 Communications

All external communication with client, vendors, subcontractors, other consultants, certifying authorities, etc., and all internal communications influencing the project performance will be documented in the form of minutes of meetings. Available for review by the client in accordance with provision of the specific contract. Upon contract completion, a hand-over package will be prepared, collated, documented and transmitted to the client, if requested by the client.

8.0 PURCHASING

This section describes organizational guideline in respect of implementing the QA element on "Purchasing" throughout the organization. The application of this Quality Assurance element extends to all project related purchases if the design contract includes assistance to client to procure items specified in the design. The purchasing activities will be pursued as per Procedure No ECC "Procurement".

9.0 CONTROL OF CUSTOMER SUPPLIED PRODUCT

This section describes the organizational practiced system for control of customer supplied product/data/ information etc.

The system applies for consultancy projects to a limited extent. The responsibility of exercising control lies with the respective project coordinator or the agency identified in the quality plan for each project under execution.

Purchases supplied products for company comprises Design inputs data for incorporation in design. The design data include Basic design input data, project details and process parameters that are made available by purchaser as part of contract. These data are checked for adequacy, correctness and ambiguity **ECC** 'S design. In case of delays/non-fulfillment of this obligation by purchaser, alternate sets of data are used based on AAGC's documented proven experience and available data bank, with prior consent of purchaser.

10.0 PRODUCT IDENTIFICATION & TRACEABILITY

Preparation of a design package involves the production of numerous types of documents in large quantities. Organizational approach towards "Product Identification & Traceability" at various stages of production of Product/Service output has been described; refer to Procedure No ECC QA-P.08"Product Identification & Traceability".

Controlling the process of preparing a design package is very critical in a Design Contract. The respective functional departments/groups as identified in each project quality plan are responsible for ensuring effective control of the process being planned and executed by them. The responsibility covers;

- •Planning Process Operation.
- •Approval of operator's qualification, Process Parameters, M/c etc. as applicable.
- •Monitoring and review of process operation & results

11.0 PROCESS CONTROL

11.0 Process of Design

The outputs of this process are drawings, documents, reports, specifications and others. This process and its controls have been described under 6.0 of this manual.

11.1 Process of Project Execution Services:

Each project has an identified Project Coordinator who is responsible for successful execution **ECC** scope of the project. The mode of control is specified in the Procedure No. **ECC** QA-P.11 "Project Execution Services & Maintenance". It ensures that work is carried out under controlled conditions.

Project Milestones are set at the start of the project and monitored on a weekly/fortnightly basis depending upon the span of the project. Monthly reports are produced in addition to regular progress review meetings for which minutes of meeting and action points for respective engineer are produced. Through this reports, management is informed and the client. Wherever necessary, corrective actions are taken, based on feedback received from the management and the client. Controls on subcontractors are also affected too similarly. The services provided by subcontractors are as per Procedure No. ECC QA-P.12 "Sub-contract Services". Design changes are handled as indicated under clause 6.3. Cost Control on the project is carried out to ensure that projects are executed within budget as per Procedure No. ECC QA-P.13 "Cost Control".

12.0 INSPECTION & TESTING

Licensed Software programs are validated and/or verified every six months for its correctness. Verification of design is covered under clause 6.0. The software programs will have documented evidence that the software programs are conforming to appropriate standards of accuracy, precision and reliability

13.0 CONTROL OF NON-CONFORMANCE & CORRECTIVE & PREVENTIVE ACTION

13.1 Non-Conformance

The section describes the overall guidelines to be follow for "Control of Non-Conforming Product" and "Corrective and Preventive Action" by various functional department/groups in the organization in respect of the deliverables to the customer.

Non-conforming product will identify to preclude its use until an appropriate identification of its disposition is been made, refer Procedure No ECC QA-P.04 "Non-Conformance and Corrective & Preventive Action". Any deficiency or nonconformance identified during audit, verification or routine surveillance that have effect on quality and design specification requirements will be addressed by request for corrective action. Joint decision with the client will determine whether non-conforming product can be reworked/repaired or rejected. Non- conforming product will be categorized as one of the following:

- a. re-work to specification
- b. reject or scrap

Records of non-conforming product disposition have been maintained as part of **ECC** quality records.

13.2 Corrective Action

Corrective action to clear the non-conformance will be proposed by the Discipline Engineer, reviewed by the Quality Management Representative, approved by the Project Manager and implemented. To prevent the recurrence of non-conformance. Investigation of the cause of non-conforming product will be conducted and action will be taken and may consist of one or several of the following:

- •Training of individuals not adhering to the engineering and quality procedures.
- •In-house courses should the non-conformity be more generalized.
- •Rectification/correction of in-house procedures to detect and eliminates causes.
- •Application of more experienced personnel to the activity found to be deficient.
- •The management committee to analyze all processes and initiate recommendations will review corrective actions.

14.0 HANDLING, STORAGE, PACKAGING & DELIVERY

The Procedure No. ECC -QA-P.05 "Handling, Storage, Packaging and Delivery" outlines the procedures for handling, storage, packaging & delivery of all documents produced during the design process.

Packaging is not directly applicable to **ECC** present scope of services.

However while inviting bids from suppliers; **ECC** issues guidelines for the same ensuring protection of plant/equipment from damage or deterioration.



15.0 QUALITY RECORDS

This section describes the methodologies of practices followed in respect of "Control of Quality Records" by all functional departments forming the total quality chain.



Quality records shall be maintained to document and verify achievement of specified Quality System. Following quality records shall be maintained and controlled (wherever applicable):

- Design Verification Records
- Management Review Records
- Proposal/Contract Review Records
- Assessment of Sub-Contractors Records
- Client Supplied Products Records
- Inspection and Testing Records
- Training Records
- ■Non-Conformity Review Records
- Audit Reports
- ■Project Close Out Reports
- Statistical Analysis Reports

Conformity, refer to Procedure No. ECC -QA-P.04. Further audits will be conducted to verify that satisfactory corrective action has been taken.

16.0 INTERNAL QUALITY AUDITS



16.1 Periodic Internal Audits

Internal Audit Plan:

In the view ECC, internal audit plan will be developed based on a prioritization of the audit universe using a risk-based methodology, including input of senior management and the Audit Committee. Any significant deviation from the approved internal audit plan will be communicated to senior management and the Audit Committee through periodic activity reports

Reporting

A written report will be prepared and issued by the Director of Internal Audit or designee following the conclusion of each internal audit engagement and will be distributed as appropriate. A copy of each audit report will be forwarded to the Chancellor and other appropriate parties.

Internal audit reports generally include management's response and corrective action taken or to be taken in regard to the specific findings and recommendations. Management's response should include a timetable for anticipated completion of action to be taken and an explanation for any corrective action that will not be implemented.

The Internal Audit Department will be responsible for appropriate follow-up on engagement findings and recommendations. All significant findings will remain in an open issues file until cleared.

16.2 Management Audits

Our solution

ECC Audit Management Service saves you time and money. Our experienced, multilingual team of supply chain experts manages each stage of the audit process for you, supporting suppliers along the way.

ECC Audit Management Service provides:

Supplier contact: We will contact all of your suppliers, talk them through the audit process and help them book an audit.

Monitoring: We will monitor progress between the auditors and the suppliers, making sure that audits take place and results are correctly uploaded to the **ECC** platform.

Follow up: We will support suppliers in resolving issues and ensure that auditors review the actions taken.

Reports: We will keep you up to date throughout the project.

Benefits

Scalable and flexible service, designed to meet your needs, however big or small Saves you time and resources by streamlining communication between suppliers and auditors

- Our multi-lingual team guide your suppliers through the full audit journey, providing training and demonstrations
- Our process is proven to work across regions and sectors, and has been shaped by input from industry leaders and your peers
- Pre-agreed reporting structure provides progress updates when you need them Audit data is delivered via **ECC** Advance, our easy-to-use online platform.

16.3 Technical Audits

ECC successful exploration and mining projects involve diverse stakeholder groups each with their own development, financial and regulatory interests. There are many project risks and opportunities that can inform the investment decision an independent consultant can help predict a project's health, ensuring potential risks are managed appropriately throughout the project lifecycle.

ECC tailors our assessments to support our client's assurance and decision-making needs. Our combined expertise provides technical clarity - clarity, which you can take to the bank. We can help, whether you are conducting a parallel study for due diligence of a project evaluation, rapidly checking for fatal-flaws or auditing particular practices for compliance. Our specialists draw on a wealth of mining experience across the asset lifecycle, with teams, which best fit your project for full, multi-discipline due diligence reviews.

Discrete components of our assessments include specific technical problem solving and independent reporting for exploration, resources and reserves, mine and metallurgical process planning, mine geotechnical, groundwater and tailings storage.

ECC work globally in all jurisdictions and all mineral commodities. Our niche services include valuations of exploration and mining properties, technical advisory, compilation of listing documents and expert witness services.

ECC helps our clients to take that next step with confidence.

16.4 QMR Audits

ECC Quality Management Representative (QMR) is a cross-functional role involving Administrative, Project Management, Operations, and Business Development tasks. The QMR will report directly to the Operations Manager, this candidate will be assigned tasks relating to the creation, audit evaluation, revision, reporting and maintenance of the Company's Quality Management System; including its procedures, policies, forms and other related systems, documents and Quality Management systems, this will be involved the following key functions.

Managing the Quality Management System audit with in-house Internal Quality Auditors to verify that all activities are performed against the established or documented standard procedures.

Reporting to top management on the performance of quality management systems and any need for improvement on a weekly and monthly basis.

Leading internal training for quality control with operators to understand quality standards and awareness of product critical quality problems.

17.0 TRAINING

General Training



ECC realizes the quick changes in technology, which have a direct effect on the quality function and therefore will implement programs of training to update individual knowledge and skills. The personal skills required carrying out

ECC functional design and engineering duties are many and varied. Senior management will ensure that appropriate programs of training are put in place for each individual according to his particular role and requirements.

17.1 Introductory Training

ECC is giving particular attention to the selection and training of recruited personnel and personnel transferred to new assignments. Management will ensure that the key personnel deployed on ECC project assignment work are qualified, experienced and competent to undertake their tasks with minimum supervision.

17.2 Project Training

At the beginning of the project, The Project Execution Plan (if applicable) will be circulated to project personnel for review and confirmation of their understanding of their duties, responsibilities and lines of communication. During the initial stages of the project, project personnel shall be trained by the Quality Management Representative to be familiar with the objectives and operating procedures of the Quality Management Systems and the locally derived quality procedures. All staff requiring training on the procedures will be identified through the engineering supervisor, who shall discuss and agree the training needs with the project manager. The Project Manager shall be responsible for organizing appropriate in-house courses and seminars on the procedures as soon as possible after assignment of personnel to project.

17.3 Advanced Training

Project personnel shall attend follow-up courses as required for revised procedures or if Current procedures are not achieving their objectives. Personnel performing specific assigned tasks will be qualified based on appropriate education, training and/or experience as required. Appropriate training records shall be maintained.

18.0 STATISTICAL ANALYSIS

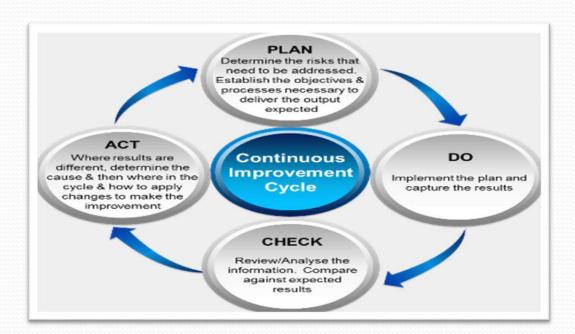
An approach will be followed in analyzing quality records through SPC (Statistical Process Control) techniques to formulate corrective actions/system improvements. The respective functional departments/ groups are responsible for effective implementation besides providing positive encouragement for using SPC techniques.

Use of statistical techniques will be implemented in concerned functional departments for effective analysis of quality records and process capability control, in following areas:

- ■Drawing approval cycle time.
- •Number of revisions in drawings and its root cause analysis.
- ■Root cause analysis of list bids.
- •Drawing production cycle time.



11. Health, Safety & Environment Plan



12.1Statement of Policy

ECC shall maintains a Safety and Program in order to ensure effective control of project, to eliminate property damage, personal injuries or loss of life. Safety shall be strictly adhered to by all **ECC** personnel on or off the job.

The program was developed to provide the management, supervisors and workers safety guidelines of activities of our company. Identified procedures and information are being essential for the protection of personnel and necessary to eliminate property damage which would otherwise results to work disruption and loss on production.

The company has adopted positive approach in its Program thus reflecting the basic framework and definitions of Saudi Arabian Government Laws,

ECC Safety Manual requirements and in accordance with **of ECC**.

The responsibility for the implementation of this program rest with the Project Managers, monitored and checked by the Project Safety Officers. **ECC** personnel and staff are adhered to support the implementation of the program by word and deed.

12.2 Health Safety and Environmental Protection

- Establish guide rail to prevent a person from falling especially working area on top.
- •10 minutes toolbox meeting shall be performed daily before starting work.

•15 minutes prior to knock off time, all working areas shall be clean of all debris and put in appointed garbage areas at site.

13.3 Health Safety and Environmental Plan

The health safety and environmental protection plan is adopted to establish, implement, promote and maintain a system to achieve the following goals.

- •Protect employees who are its most valuable asset.
- •Provide a safe and healthy workplace free from recognized hazards, which may cause serious injury to the employees and damage to plant and machinery.
- •Achieve excellence by eliminating or reducing the potential and severity of personal injuries, property damage and impact on environment and community arising out of its operations.
- •Develop systems and operating procedures, allocate resources to identify, evaluate and eliminate work place hazards and periodically review with same for continuous improvement in the system.
- •Create awareness of safety needs on continuous basis and develop and implement training programs in safe work practices through communication at every level of the organization.
- •Confirm to applicable statutory regulations and international standards on Health, safety and environmental protection

13.4 Saudi Labor and Workmen Law

Articles 134-6 Article 134

The employer shall provide first-aid services for the workers in accordance with the standards to be determined by the Ministry of Labor in collaboration with the Ministry of Health. If the number of his workmen in a single location or town, or within a radius of fifteen kilometers, exceeds fifty, he shall employ a nurse who shall be familiar with first-aid services and shall be exclusively assigned to rendering such services; the employer shall assign a physician to examine and treat the workmen at the place to be provided by the employer for this purpose, and the employer shall provide them with the medicines necessary for their treatment. The aforementioned services shall be free of charge whether during work hours or otherwise. If in the cases mentioned above, the number of workmen exceeds a hundred, the employer shall, in addition, provide them with all other means of treatment in cases requiring treatment by specialists, or performance of surgical other operations. In case operations are performed, as well as in cases of incurable diseases, the expenses shall be taken from the Social Insurance Funds. The costs of treatment, medicines and hospitalizations in government or charitable hospitals, as well as the party, who will assume such costs, shall be determined pursuant to the decision to be made by the Minister of Labor in agreement with the Minister of Health, or to the rules laid down in the Social Insurance Law

However, if the number of workmen is less than fifty, the employer must provide the workmen with a medical aid cabinet which shall be maintained in a good condition and shall contain the bandages, medicines, and antiseptics to be determined by the Minister of Labor in agreement with the Minister of Health, in order to provide the workmen with first aid

Article 135

Every employer who employs more than fifty workers shall inform the appropriate Labor Office of the name of the physician whom he has selected to treat his workers. In case he employs more than a hundred workers, he shall inform the Office of the names of the physicians and specialists whom he has selected to treat his workers, and of the names of the hospitals that he has designated for that purpose. In both cases, he must notify the appropriate Labor Office of the minimum number of days fixed for the examination of workers, if this minimum shall not be less than three times a week

Article 136

Every employer shall prepare for each workman a medical file showing the result of the medical examination performed on the workman upon his employment, a description of the cases of his illness, the stages of his treatment, and the periods of his absence from work, provided that mention shall be made in the file of the kinds of ordinary and occupational diseases and labor injuries.

Safety Policy and Assignment Responsibility

I. Principle

The company shall vigorously promote on the job safety and accident prevention policy. The company shall ensure that they are clearly understood by all employees and contractor personnel. Through this, **ECC** encouraged and assists all personnel to protect themselves while working on site and driving along the highway

II. Objective

The objective of this section is to promote a safe and more productive work environment, increasing productivity time and worker's effectiveness and minimize or eliminate personnel injuries or property damages.

III. Application

The main thrust of this program is to stimulate our personnel to a higher level of safety awareness. To accomplish this thrust ECC will provides to its personnel, safety education and training to help them develop the proper skills required to perform and supervise their assigned task without any accidents. ECC shall develop a detailed hazard identification plan (HIP) for every project to identify safety hazards with in the area and prepare a corrective action plan for the safety of all personnel and equipment. The management shall ensure that personnel including supervisors will hold a weekly safety meeting and foremen /leadsmen shall hold a daily tool box meeting with their workers to discuss localize safety hazards. ECC shall review and update procedures to prevent accidents. Safety meeting shall be documented and kept in the appropriate project file, ECC shall make this document available for review and inspection

IV. Program Responsibilities

The Project Managers are responsible for the implementation of this program and all personnel are enjoined to adhere to the safety requirements



Introduction

- It is the policy of **ECC** to maintain a Safety and Program in order to ensure effective control to minimize injuries and losses during construction.
- The program has been developed to provide management, supervisors and workers with positive guidelines for activities. The program identifies procedures and information essential to protect workers and to minimize property damages, which may result to work disruption, production losses and delay in project completion.
- The company has adopted a positive approach in its Program by reflecting the basic framework and definitions of Saudi Arabian Government Laws.
- Approved Safety Program has been updated from time to time to facilitate changes that may occur during project execution or changes in Saudi Arabian Government Laws and ECC requirements.

Management

- The management is responsible for the implementation of the safety policy and to control personnel injuries and loss of property due to fire.
- Safety is not compromised at any time to meet other project parameters and Expectations such as those relating to cost and schedules.
- All critical and hazardous tasks and activities are adequately planned. He should also ensure that appropriate equivalent systems for these tasks have been processed, communicated and discussed with the concerned discipline supervisor and his crew.
- Management shall administer the policy or otherwise appoint a senior member to do the job.
- Management shall review the safety requirements and relevant documents of ECC Safety
 Regulations and ensure observance by all personnel.
- ECC Shall ensure that supervisions at all levels are suitably qualified and have received the appropriate training and are well informed of the changes in ECC procedures.
- To remind members of supervision to discharge their assigned responsibility.
- Set a personal example

Safety Officer

They have the full authority from the management to ensure:

- Prevention of injury to personnel, damage to plant, equipment and fire Ways to improve existing working methods.
- Legal and contractual requirements relative to safety, health and welfare.
- Advising the type of personal protective equipment that must be used and identifying the need for special safety equipment. To ensure that safety equipment is being utilized correctly. Identify potential hazards on new contract prior to crane erection.
- Determine the type and quantity of portable firefighting equipment required and that relevant Safety precautions are applied.
- Interface with ECC PMT Safety Advisor, Representative.
- Assist with training of employees.
- Attend job progress meetings.
- Coordinate with management for weekly meetings to discuss safety requirements relevant to activity forecast for incoming week.
- Set a personal example.
- Supervisors

Review and understand **ECC** safety policy and appreciate the responsibility allocated to each supervisor.

Review and understand relevant topic of **ECC** Safety Manual and ensure its compliance.

Ensure that tenders are adequate to cover working methods. To explain the sequence of operations and to outline potential hazards at each phase of construction work, and to indicate precautions to be adopted. To include JSA (job safety analysis) as required

Check work methods and precautions with supervisors before work commences.

Create safety awareness by promoting safety meetings and discussions.

Coordinate with Safety Supervisor regarding weekly safety meetings, to discuss the safety requirements relevant to forecast activities of incoming week.

Check, to ensure that Foreman and other designated personnel have appropriate work permit receiver cards and are properly trained to receive work permits and experienced to work in restricted areas. Check to ensure that all personnel and equipment that requires license or certification have valid documents. A log of expiration dates shall be maintained for monitoring.

Equipment Supervisor / Foreman

Check, to ensure that **ECC** owned and rental equipment are safe and in operational condition equipped with the required **ECC** safety requirements.

- Ensure that operators are employed only on equipment for which they are trained and certified to operate.
- Responsible to ensure all equipment is in good operating condition and to advise site managers and supervisors of the need to remove unsafe equipment from the job site.
- Encourage other personnel to practice good housekeeping.
- Set a personal example.

Jobsite Foreman

- Review and understand safety requirements of the project as per contract and be able to implement with his subordinates.
- Incorporate safety instructions into routine orders and ensure its compliance.
- Assist the Safety Officer on weekly field safety meetings.
- Correct unsafe practices such as horseplay and taking unnecessary risks.
- Assist the management in the orientation of new employees.
- Report unsafe conditions and defective equipment.
- Be able to take immediate action in the event of an accident /incident occurrence.
- Set a personal example.

Worker

- Ensure to use proper or correct tools and equipment for the job.
- Be able to use personal protective equipment provided by the company.
- Keep tools in good condition and report defects immediately.
- Refrain from horseplay and abuse of safety devices, equipment and welfare facilities.
- Never touch or tamper with valves switches etc.
- To follow instructions and if not sure about what to do, ask the foremen.
- Apply good housekeeping practices.
- Attentive on reporting minor injuries and have it treated and recorded in the treatment register.
- Be able to report unsafe working condition and equipment.
- Actively participate in complying with ECC Safety and Program.

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بأنه تم تسجيل هذه الموسسة بسجل مدينة الغير بموجب الإيصال رقم: ٢٧٢١٢٢٢	تاریخ المیلاد : ۱٬۴۰۰٬۰۴۲۷ هـ		ئارىخە:	تاريخه: ۲۲۷ هـ	هانف: ۱۳۸۹۷۱۱۴۸ الجنسیة: سهودی			شرارة مجرب مؤرس الرية
ل التجاري بمدينة الغير لشهادة في ١٤٤٤/٠٧/٠٩ هـ	جنسية ق: سسودي ثم السجل المدني - الإقامة : ١٠١٢٧،٥٥٤٥ للطات المدير	س المال: ٢٥٠٠٠ خمسة و عشرون ألف ريال ففظ لا غير مم المدير أو الوكيل المفوض : محمد واسم خلف القحطاني	نم الدفيظة - الجواز: نشاط: للاطلاع على بيتات الأشطة الرجاء مسح الرمز التجاري	نم السجل المدني - الإقامة : ١٠١٣٧٠،٥٥٤٥	س.ب: الرحز البريدي: ۲٤٦٧٣ مم التاجر: محمد واسم خلف القحطاني	إسم التجاري للمؤسسة. مؤسسة الهنسة والبناء للمقاولات العامة ركزها الرئيسي: ١٨٥٨١، جدة، هي الثقية، ٣٤٠١	رقم الموحد للمنشأة: ٢٠٢٥١٥١١،٧	وزارة التجارة Ministry of Commerce

يمكنك التحقق من صحة هذة الشهادة بالدخول على To Verify the information of this certificate visit http://v.mci.gov.sa

VAT REGISTRATION CERTIFICATE



تاريخ الإصدار: 2022/02/16 الرقم المميز: 3101068054





شهادة تسجيل في ضريبة القيمة المضافة VAT Registration Certificate

تشهد الهيئة العامة للزكاة والدخل بأن المكلف أدناه مسجل في ضريبة القيمة المضافة بتاريخ 2017/12/11

Hereby, The General Authority of Zakat & Tax (GAZT) certifies that the taxpayer below is VAT registered on 11/12/2017

اسم المكلف؛ مؤسسة الهندسة والبناء للمقاولات العامة مؤسسة الهندسة والبناء للمقاولات العامة

رقىم التسجيل الضريبين: 310106805400003 رقىم التسجيل الضريبين:

تاريخ نفاذ التسجيل: <u>2018/01/01</u> Effective Registration Date:

عنوان المكلف: الظهران، حي الدوحة، شارع عبدالله عامر الشامي ،34455 الظهران، حي الدوحة، شارع عبدالله عامر الشامي



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> هذه الوثيقة ورسلة من النظام الآلي ولا تحتاج إلى توقيع - الميئة العامة للزكاة والدخل -