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## BAHWAN ENGINEERING GROUP

OMAN • DUBAI • ABU DHABI

Founded in 1977, Bahwan Engineering Group is one of Oman's most prominent business houses, having grown into one of the largest engineering, construction, trading, and services conglomerates in the country.

For over forty-five years, the Group has played a key role in nation-building projects, not only in Oman but also in the UAE. Guided by its core values, the Group has consistently delivered numerous projects to the highest standards of quality and excellence.

Today, BEC undertakes integrated, multi-disciplinary construction projects under one umbrella, encompassing Civil, Mechanical, Electrical, Instrumentation, Elevators & Escalators and Diesel Power Generation. In addition, the Group is engaged in trading Electrical, Mechanical and Chemical products, and offers comprehensive Facilities Management Services.

With a workforce of approximately 7,000 employees, including around 1,000 engineers, the Group has established itself as a leader in integrated construction across sectors such as Oil, Gas & Power, High Voltage

Transmission & Distribution, Airports, Hotels, Hospitals, Landmark Buildings, and Commercial-Residential Complexes.

Landmark projects such as Muscat International Airport, Salalah Airport, Oman LNG, Sohar Seawater Intake and Return System, Sohar Power & Desalination Plant, Barka and Sohar Power Transmission Systems, Sohar Fertilizer Plant, and Duqm refinery Project underscore the Group's growing reputation as Oman's premier and preferred engineering contractor.

BEC was the first company in its category in the Sultanate of Oman to achieve ISO 9001 certification in 1995. It has since maintained this certification with significant enhancements to the Quality Management System over the years.

The Group also maintains a robust and well-documented HSE Management System aligned with international standards and holds certifications for ISO 45001:2018 and ISO 14001. BEC is widely recognized for its excellent HSE performance and stands among the safest contractors in Oman.

## OUR BUSINESSES

PROJECTS	PRODUCTS	SERVICES	MANUFACTURING
Oil, Gas & Power	Electrical Products	Facilities Management	Chemical Manufacturing
MEP	Mechanical Products	Industrial Maintenance	
Electrical & Instrumentation	Power Generation	Elevators / Escalators / Trav-o-lators Maintenance	
Civil Construction	Elevators, Escalators & Trav-o-lators	Generator & Auxiliary Maintenance	
District Cooling	Renewable Energy	Chemical & Industrial Products	
	Water & Waste Water	Diesel Power Generators Hire	
			OTHER INTERESTS
			Investments

To be the region's first choice EPC organisation by exceeding the expectations of our clients, offering a bright career path to employees and ensuring sustainable growth for the community while preserving the environment

# VISION MISSION VALUES

## Integrity

- Support for doing the right thing.
- Keep promises even if it takes extra effort.
- Won't turn our backs towards something wrong or unsafe.
- Take responsibility and be accountable for all our words and deeds.

## Excellence

- Keep raising the bar.
- Go the extra mile to deliver the best.
- Be self-motivated.
- Strive to innovate and create.

## Commitment

- Committed to ensure safety for everyone.
- Encourage employees to achieve their maximum potential.
- Work towards exceeding customer expectations.
- Appreciate the skills and abilities of others.
- Extra care for actions that affect the community we live in.

## Teamwork

- We are one.
- Listen to and learn from each other.
- Work with enthusiasm and appreciation.
- Combine our expertise and knowledge.

Excellence in execution, sales and services with focus on customer satisfaction; care for employees, community & environment and sustainable growth

# BUSINESS UNIT PROJECTS

BEC's vast experience in the construction industry has been instrumental in the successful completion of prestigious projects in Oman & UAE. With around 10,000 employees, including about 1000 engineers, the Group is an established leader in integrated construction projects across diverse sectors.



OIL, GAS & POWER



MEP



ELECTRICAL & INSTRUMENTATION



CIVIL CONSTRUCTION



DISTRICT COOLING



RENEWABLE ENERGY



WATER & WASTE WATER

## Oil, Gas & Power Projects

Oil, Gas & Power Projects Division executes integrated multi-disciplinary Engineering & Construction projects on CMEI basis under one umbrella, involving Civil, Mechanical, MEP, Electrical and Instrumentation works.

The division has been associated with nation-building projects such as, Oman LNG, Sohar Refinery, Sohar Fertiliser Plant, DHDS Project of Oman Refinery, Salalah Methanol Plant, Sain Rawl Depletion Compression Project, Marmul Polymer Flooding project etc. in Oil & gas sector. The division is in forefront in installing Power and Desalination plants in Oman and UAE, having executed many projects including Sohar-1 IWPP, Barkha-2 IWPP, Sohar-2 IPP and Oman's largest Power Plant, 2000MW Sur IPP. The division is also associated with CMEI / MEI Construction works of Main Process Units at the Sohar Refinery Improvement Project and EPCC Contract at Marmul Cluster for Petroleum Development Oman.

Projects in UAE include MEI works for 600MW Power Plant at Al Aweer, Mechanical works for 450MW Power Plant at Jebel Ali, Mechanical works for Ruwais Refinery Expansion project and Mechanical construction works for Carbon Black & Delayed Coker project.

The Quality Systems of CMEI Operations have been certified to ISO 9000 Quality Standard since 1995, being the first to achieve this certification in its category in Oman. The division has an excellent HSE track record involving 15 Million LTI free man-hours at LNG Projects, 13 Million LTI free man-hours at Sain Rawl Project of PDO, 12 Million LTI free man-hours at Ruwais Refinery Expansion project, 5 Million LTI free man-hours at Sohar Fertiliser etc.

CMEI Operations of BEC has been the most preferred and trusted partner of International EPC Contractors such as Bechtel, Chiyoda Foster Wheeler, Samsung, GSEC, Doosan, SKEC, Daewoo, Hyundai, TR Engineering, Mitsubishi etc., having executed multiple projects with each of these organisations.



1 Mechanical, Electrical & Instrumentation construction works of process, off-sites and utilities for Qalhat LNG Project (Train III).

2 Mechanical, Electrical & Instrumentation construction works for DHDS Project, Oman Refinery.

3 Civil, Mechanical, Electrical & Instrumentation construction works for Marmul Polymer Flooding Project.

4 OLNG Train I & II: EPC of temporary facilities/ utilities, EPC of new industrial building and Civil & Mechanical construction works for off-sites and utilities.

5 Civil, Mechanical, Electrical & Instrumentation construction works for Sain Rawl Depletion Compression Project.

6 Mechanical, Electrical & Instrumentation Construction works for Sohar International Urea & Chemical Industries.



## Oil, Gas & Power Projects

7 Mechanical, Structural, Piping, Electrical & Instrumentation works for Duqm Refinery Project

8 CME&I works for Sohar Refinery Improvement project.

9 Mechanical, Structural & Piping Installation works for Ruwais Refinery Project, Abu Dhabi.

10 Engineering Procurement and Construction works for conversion of Open Cycle Power Plant to Combined Cycle Power plant (58 MW), Saih Rawl.

11 Mechanical, Electrical & Instrumentation construction works for 585 MW Power & 33 MIGD Desalination, Sohar IWPP Phase-1.

12 Mechanical, Structural & Piping Installation works for 680 MW Power & 26 MIGD Desalination, Barkha IWPP Phase-2.

## Mechanical, Electrical & Plumbing (MEP) Services

Mechanical, Electrical & Plumbing Projects (MEP) division has been associated with landmark projects in Oman & the UAE. This division has diverse experience in executing Mechanical & Electrical works for Airports, Hotels, Hospitals, Palaces, Ministry & Bank Headquarters, Shopping Malls, Commercial Complexes, Industrial Projects, Multi-storeyed Buildings, Residential Complexes and various Iconic projects. Due to the in house strength of engineering capabilities, co-ordination of services and vast experience with local knowledge, we deliver projects to the exceeding satisfaction of our clients.

A team of dedicated engineers is geared to carry out installation of:

- Central Air-Conditioning & Ventilation Systems
- Plumbing & Sanitation
- Firefighting & Fire Alarm
- Electrical and Specialized Systems
- Solar Powered Systems

For over four decades, MEP division has been associated with prestigious projects in various sectors.



### **Muscat Intl. Airport**

Complete MEP works for Passenger Terminal Building and Utilities for Airport infrastructure comprising of 35,000 TR of cooling plant, 40 MVA of standby power generation, 3 nos. 132/11 kV Substations, 70 nos. 11 kV/415 V Secondary Substations, 550 kms of cabling, 225km of piping (CHW, Fire fighting, water supply etc.) and various specialist systems like Fire Alarm & Fire Fighting, Public Address System, IT Passive Network, BMS & SCADA etc.



### **Salalah Airport**

Air-conditioning & Mechanical ventilation works (ACMV) comprising 10000 TR Centralised Cooling plants and 8 kms external Chilled water networks and complete HVAC works for all the buildings.



## Mechanical, Electrical & Plumbing (MEP) Services

- 1 Royal Opera House, Muscat.
- 2 Muscat City Centre.
- 3 Central Bank of Oman HQ, Muscat.
- 4 Royal Guard of Oman Technical College.
- 5 Oman Convention & Exhibition Centre.
- 6 Majlis Oman, Muscat.
- 7 Mall of Oman, Muscat.
- 8 380 bed Hospital and Residential Complex at Sohar.
- 9 Movenpick Hotel & Furnished Apartments, Spa and 7 nos. Residential Towers for Oceana, The Palm, Dubai.

## Electrical Projects & Instrumentation

Since 1977, the Electrical Projects Division has grown into a key player in turnkey EPC execution of Grid Stations and Transmission & Distribution projects across Utilities, Oil & Gas, Process Plants, and Power sectors. The Division handles projects ranging from LV works up to 400kV on a full EPC basis.

With a proven track record in Oman and the UAE, the Division has significantly contributed to major E&I projects in Oil & Gas and Power Generation sectors. It continues to set benchmarks in project management and timely completion of complex works.

### Key completed projects include:

- 400/132kV Grid Station at Rustaq with 162km 400kV OHL
- 220kV Nizwa GS with 55km OHL and 31km underground cable
- 400/132/33kV Duqm GS, 400/33kV Mahout GS
- 132kV Al Khoudh GS, which is a first Digital station in Oman.
- Three 400kV GS in Sohar, 220kV Barka (first in Oman), Sohar & Sur Transmission Systems
- 260km 400kV OHL from Sur to Izki and 400/220kV Ibri IPP GA
- 19 EPC 132/11kV Substations in Dubai.
- EHV and MV complete network at Muscat International Airport Project

The Division also completed the electro-mechanical installation for 'PDO's 100MW Amin Solar PV Plant' - marking its foray into renewable energy.

The Division understanding the need of Renewable Energy are implementing Solar System in all the new Grid Stations connecting North -South OETC Oman Grid. Recent prestigious projects awards include: 400/132kV kV Grid Stations at Dhofar, Shaleem 400kV Switching Station and 400kV Harweel Wind Farm Grid Station to connect Oman's OETC North-South grid

The most significant Project to connect Masirah Island to MIS, which involves 400kV Extension at Mahout GS, 55kMx132kV OHL, 57KMx Land cable and 60KM x 132kV Subsea Cable link (first of its kind in Oman)

To date, BEC holds the distinction of having executed the 'Highest Number of 400kV Grid Stations in Oman' - competing successfully with both local and international firms, a matter of pride for a local company.



1 400kV OHL Gantry at 400/132kV Rustaq Grid Station.

2 500MVA 220/132/33kV Auto Transformer at Nizwa Grid Station.

3 3X 500MVA, 400/220/33kV Power Auto Transformer at Sohar Free Zone (SFZ) Grid Station.

4 400/33kV Mahout Grid Station.

5 400/132/33kV Duqm Grid Station.

6 220kV Gas Insulated Switchgear at Mabellah-1 Grid Station.



## Electrical Projects & Instrumentation

7 400kV Gas Insulated Switchgear at Sohar IPP-3 Grid Station.

8 400kV Seh Al Makaram (SIS) Grid Station with 3 X 500MVA Power Transformer.

9 400/220kV Iibri IPP Grid Station with 3 X 500MVA Power Transformer.

10 220kV Grid Station at Sur for Oman Electricity Transmission Company.

11 132/33kV Grid Station - Madinat Nizwa.

12 132kV GIS at Al Quoz Substation for Dubai Electricity and Water Authority (DEWA).

13 132/33kV Al Khoudh Grid Station with 4 X 125 MVA Transformer (First Digital Grid Station for OETC).

14 100 MW Solar Photovoltaic Power Generation Plant at Amin, PDO.

## Civil Construction

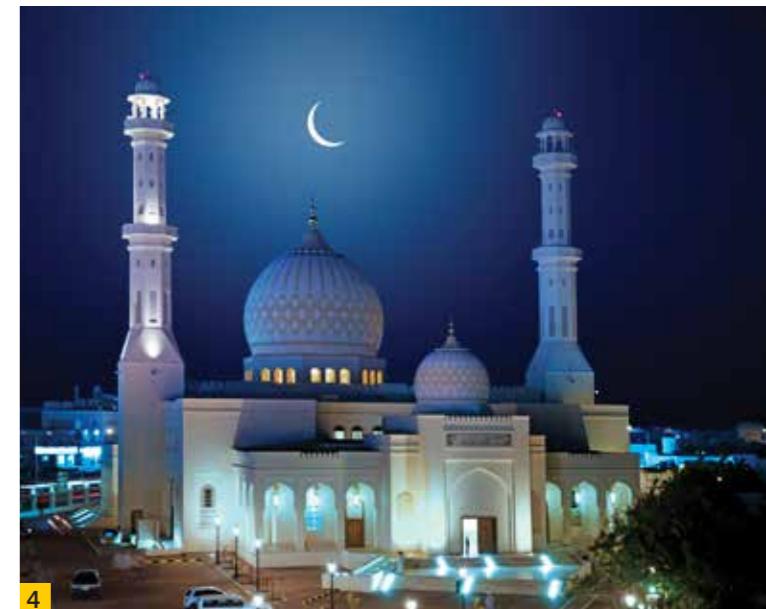
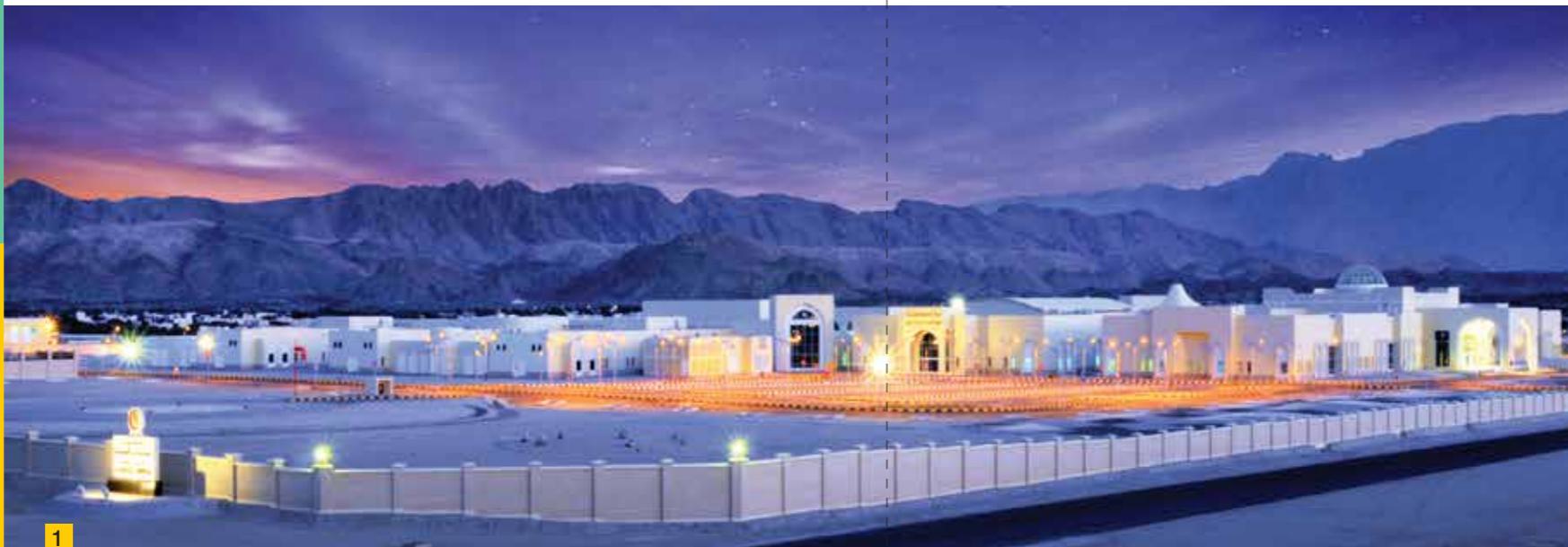
For over four decades, BEC Civil Division, has been associated with nation building projects in Oman by successfully executing EPC projects, BOO, BOOT and PFI, either solely or in Joint Venture with other leaders in the industry.

Our core values of integrity, excellence, commitment and teamwork have enabled us to successfully execute numerous projects to exacting international standards. Our dedicated and result oriented management and project planning control enable us to deliver projects on time. We follow a collaborative and pro-active approach in dealing with clients and endeavour to constantly outperform by delivering projects of the highest quality standards, completed on time and within the allocated budgets.

### The range of operations includes:

- Multi-storied Office Buildings & Bank Buildings.
- Infrastructure Buildings & Structures.
- Industrial Construction related to Gas, Power, Petrochemical, Water & Sewage Industry.
- Workshop, Warehouse & Accommodation Facilities.
- Multi-storied Building construction involving high finishes for Institutions and Mixed-use Developments.
- Hospitals
- Hotels
- High-end Luxury Villas for VVIP's
- Mosques
- Integrated Township Projects

Civil Division is fully mobilized to undertake multi-disciplinary projects of any type, magnitude, complexity and has dedicated teams of highly experienced engineers to execute projects in time and with unmatched quality. It is this proven ability to deliver projects which instils confidence in clients and consultants to entrust the division with some of the most prestigious and demanding projects. The division works closely with consultants by exchanging value engineering inputs resulting in optimized solutions.



1 Al Masarra Hospital for Ministry of Health at Amerat.

2 Oman Arab Bank HQ at Al Ghubrah.

3 Royal Tulip Hotel, Muscat.

4 Mosque at Sur.

5 Al Hail Greens Residential Development

6 Construction of JW Marriott at Oman Convention & Exhibition Centre



## Civil Construction

7 Duqm Refinery Project : EPC 2 Utilities and Offsites – Civil & UG piping Construction Works for Package-4.

8 CME&I works for Sohar Refinery Improvement project.

9 Design & Build of Seawater Intake and Return System at Sohar (334,000 m<sup>3</sup>/hr. capacity) for Majis Industrial Services SAOC.

10 Balance of Plant of Sur Independent Power Plant.

11 Duqm Integrated Power & Water Plant: Civil and Architectural Package for Seawater Intake and Desalination Plant

12 Liwa Plastics Industries Complex Project – EPC 2, Sohar – Civil Works & Process Buildings.

13 CME&I Works for 250,000 cu.m / day capacity Sohar Independent Water Project.

14 Construction of new 400/220kV Iibri Grid Station and associated 220kV OHL Works.

## District Cooling

Muscat District Cooling, part of BEC Group is an Omani company providing chilled water as a utility service. As the demand for cooling and energy-efficient solution is growing, district cooling is becoming an essential part of urban development. District cooling system provides buildings with cooling which is energy-efficient, cost effective and environment friendly.



## Water & Waste Water Projects

The Water & Waste Water Projects division offers construction solutions & maintenance for Desalination Plants, Water Treatment Plants & Sewage Treatment Plants. The division also executes indoor and outdoor Reverse Osmosis Plants, Softeners, Demineralisers for specialised uses such as hospitals, hotels, industrial projects etc.



- 1 District cooling & MEP Services for Tilal Complex, Muscat.
- 2 District cooling & MEP Services for Muscat International Airport.
- 3 District cooling for Al Mouj (The Wave) Muscat.

- 1 Desalination plant at Oman LNG plant - Sur.
- 2 Upgrade Darsait STP for Haya from 12,000 m<sup>3</sup>/day to 22,000 m<sup>3</sup>/day.
- 3 Indoor Reverse Osmosis plant for Rustaq Hospital.



## Renewable Energy

Renewable energy plays a dominant role in our Group's strategic plans for the future. BEC Group has been the pioneer in solar energy initiatives in Oman. We have invested in and developed Oman's first PV Solar Plant feeding power to a public grid.

We, along with our select partners, can design, build, commission and maintain efficient solar energy infrastructure from the ground up, helping our clients meet growing needs for clean and sustainable power. We are working on various opportunities to exploit the nation's abundant Solar Irradiance, aimed at conservation of depleting fossil energy resources. BEC Group is further working closely with international contractors to develop the nation's Wind Energy potential.

Capitalising on our expertise and experience, we are able to undertake turn-key responsibilities for renewable energy projects for all applications – from captive small auxiliary power generation units to large-scale independent power plants connected to a national grid.



### Bahwan Green Energy

We have developed, built, installed and commissioned the first commercial on-grid PV Solar Power Plant in the region. We are also responsible for operation and maintenance of the plant for its contracted 20 years and beyond.

## BUSINESS UNIT PRODUCTS

The Products Business Unit of BEC provides a comprehensive basket of solutions to the diverse Electro-mechanical needs of the vibrant industry in Power, Oil & Gas and Building Services sectors.

Prestigious projects in the Sultanate of Oman related to Industrial, Power, T&D, Oil & Gas, Transport, Tourism, Health care, Hospitality, and Education etc. share one thing in common which is, Products & Solutions from BEC's Products Business Unit (BU).

The BU represents a number of leading manufacturers from around the world who enjoy eminent leadership status in the Sultanate – a status gained and sustained due to the trust bestowed by their ever growing clientele in the quality of engineering solutions and after-sales-services provided. Teams of Managers, Engineers and Executives are well equipped to provide technical support to the various customers in arriving at the optimum solution. Sales teams are backed by excellent Service Engineers, geared to render 24 hours service backup.

Inventory of spare parts is maintained in BEC's own 40,000 m<sup>2</sup> warehouse with a dedicated team catering to the needs of our clientele. It is the only Business Unit of its kind in Oman that also offers Customized Solutions to its clients with a commitment to address their business and technology demands while upholding industry standards & best practices. The Products Business Unit operates branches in Salalah & UAE.



ELECTRICAL PRODUCTS



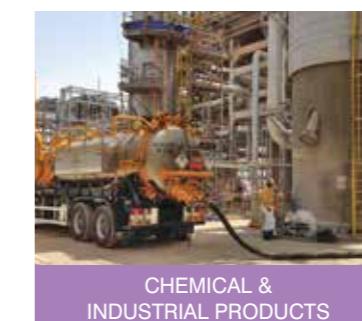
MECHANICAL PRODUCTS



POWER GENERATION



ELEVATORS & ESCALATORS & TRAV-O-LATORS



CHEMICAL & INDUSTRIAL PRODUCTS

## Electrical Products

At the Electrical Products Division of BEC Group, we represent a number of leading manufacturers from around the world. We have a team of professionally qualified Engineers and Sales Executives who are fully conversant with all the aspects of the Electrical Products being handled by us. Hence, we are able to provide adequate technical support to the various products we sell.

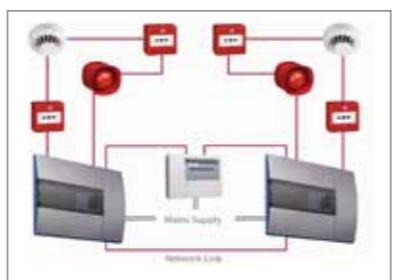
The Sales Team is backed up by a team of professionally trained and well-equipped Service Engineers, who can assist in Installation, carry out Commissioning and provide After-Sales Services to meet Client's requirements at any time.

Dealing in a wide range of Product requirements of Power, Oil & Gas and Building Services Projects the Electrical Products Division of Bawhan Engineering Co. LLC is the largest of its kind in Oman. The Division is able to successfully assist utilities, contractors and retailers on most of their requirements and has been associated with many of the leading projects that have been executed and are being executed in the Sultanate of Oman.

Electrical Products marketed by the Division comprehensively cover underground and overhead line transmission & distribution of Electricity, construction of electrical substations, building electrification and electrical applications in the O&G sector.

The Division carries large stocks of several Electrical Products such as Cables; Wires; Termination/Jointing Kits and Tapes; Cable Tiles; Conductors; Insulators; OHTL Stay fittings, hardware and accessories; Wood Poles; Overhead line Disconnectors; Distribution Transformers; RMUs; Feeder Pillars; LV Switchgear; Earthing and Lightning Protection equipment; Winding wires; Lighting Poles; Flood Lights; etc. to make them available at short notice.

It is the only division of its kind that also offers requirement based Customized Solutions to its clients and has been one of the pioneers in local fabrication of solar skids, transformer skids, Containerized Switch-rooms, UPS & Battery stations etc.



Our product offering includes the following from reputed manufacturers from around the world:

- Power Cables (LV & MV Up to 33 kV)
- Power Cables (HV 132 kV to 400 kV)
- Control Cables/LSF Cables and Single Core Wires (600/1000V and 450/750V)
- Instrument Signal Cables
- Fire-proof Cables
- Mechanical Seals for Cable and Pipe Entry
- Cold Shrink, Heat Shrink, Plug & other terminations (LV, MV & HV), Joints (LV, MV & HV) & Insulation Tapes (LV & MV)
- OHTL Jumper Sleeves, Customized Shrouds / Sleeves / Insulation and other 'Wildlife & Asset Protection' Products
- Caution Tape for Pipe & Cables (Detectable / Non-detectable)
- Cable Fault Locator
- Cable Tray / Trunking & accs. Galvanized Steel
- Cable Tray / Trunking & accs. GRP
- Earthing & Lightning Protection
- LV & MV Bus Ducts Compact Metal Clad, Metal Enclosed and Cast Resin
- AC/DC UPS Systems, AC/DC Converters - Modular & Stand Alone Systems
- Batteries NiCd, SLA, Li & Others
- Fire Alarm System & Accs.
- Central Battery Systems
- Passive Fire Protection
- Smart Energy Meters & AMR Solutions
- Power, Distribution Transformers Oil Filled
- Power, Distribution Transformers Cast Resin Dry Type
- Ring Main Units - SF6 Insulated
- Neutral Earthing Resistors
- 33 kV Outdoor Circuit Breakers
- Pole Mounted Autorecloser
- Wooden Poles
- Overhead Line Insulators
- Overhead Line Fittings, Hardware & Accessories
- Overhead Line Conductor
- Overhead Line Disconnector & Switches 11 kV, 33 kV & 132 kV
- Overhead Line Fault Locators
- Substation Fittings, Connectors, Tubular Busbars
- Lightning Arresters 11 kV, 33 kV, 132 kV
- LV Switchgear 415V - MCC, PCC, DBs & Feeder Pillars
- MV Switchgear 11 kV AIS, GIS
- Retrofit Solutions (Oil To VCB) for 11 kV Indoor Switchgear
- MV & HV GIS 33 kV, 132 kV, 220 kV & 400 kV
- Flood / Street Lighting Steel Poles & High Masts
- Flood / Street Lighting, Emergency Lighting & General LED Indoor/outdoor Luminaires
- Customized Solutions, Package Sub-stations, Containerized Switch-Rooms, Transformer Package Skids
- Explosion-proof / Weather-proof and Increased Safety Equipment, LED Flood / Street Lighting
- Explosion-proof / Weather-proof LED Flood / Street Lighting, Plug Socket
- Industrial Weather-proof Plugs & Sockets, Junction Boxes, DBs

## Mechanical Products

The Mechanical Products Division's portfolio encompasses products, services and solutions covering the broad spectrum of the Building Services Industry – a one stop shop providing a complete basket of solutions for the diverse needs of the ever growing Building Services Industry in the Sultanate.

From Air-conditioning to Heating, Ventilation, Filtration, Building Management Systems, Piping & Valves to Air Distribution, the Division represents more than 40 international Principals – each one of them a **world leader** in their respective field. **Carrier, Armstrong, Siemens, SPX (Marley), Nuaire, ESAB** are just a few of the world renowned names that the division represents.

A vast majority of the brands represented by the division enjoys **leadership status** in the Sultanate – a status gained and sustained due to the trust bestowed by their ever growing clientele in the quality of services and solutions provided by them.

A team of Managers, Engineers and Executives provide technical support to the various customers in arriving at the optimum solution for their needs and look after the sales of the Products. The sales team is adequately backed by an excellent service team of Engineers & Technicians - trained at the various principals' factories - to render **24 hours service back up** for equipment sold by the Division. A vast inventory of spare parts is maintained both in the company's 40,000 m<sup>2</sup> warehouse and the Parts Show Room attached to the office. A dedicated team caters to the spare parts needs of the equipment sold by the Division.



Broad categories of Systems & Accessories include:

- Air Conditioning Equipment
- Ventilation - Industrial and Domestic Extract & Supply Fans
- Building Management Systems and standalone Digital Controls
- Cooling Towers
- Water Circulation Pumps, Pressurization Systems, Deaeration Systems, Expansion Systems, Plate Heat Exchangers.
- Metering Solutions – BTU, Water, GAS and Electricity meters
- Noise and Vibration Control Solutions -
- Energy Recovery Equipment
- Specialized Equipment:
  - ◆ Precision Close Control AC Systems for Server Rooms, Data Centers.
  - ◆ Pre-Conditioned Air (PCA) units for Air Craft Cooling
  - ◆ De-humidification Systems
  - ◆ Packaged Fire Tube and Water Tube, Steam Boilers and Hot Water Boilers Calorifiers and Solar Heating System
- Air Distribution - Grilles, Diffusers, VAVs, Sound Reduction Units, Volume Control Dampers, Fire Dampers and associated equipment
- Heat Pipes & Dehumidification Equipment Plate Heat Exchangers
- Pipes, Valves & Fittings for Water Services
- Insulation material and accessories -Rubber, Fibreglass and Polystyrene Foam in boards, Rolls & Pipe Sections, Adhesives & Vapour Barriers
- Pre-insulated ducting systems
- Pre-insulated Piping Systems
- Ducting Material and accessories
- Filters - Aluminium, HEPA, Bag, Panel and other types of Filters
- Welding Products – Equipment and Consumables
- Compressors & Condensing Units for Cold Store Applications
- HVAC Spare Parts and Accessories
- Sealed/Semi-Sealed Compressors
- Refrigerant Gas and Oil
- Coils Cleaning Chemicals
- Fan Motors, Relays, Capacitors, Timers, Contactors, Thermostats etc.
- Filter Dryers and Expansion Valves
- Copper Pipes, Copper Coils, Fittings & Accessories

## Power Generation

Universal Engineering Services LLC (UES), is the sole authorised agents for Cummins Power Generation, After Sales Services and Cummins Filtration (Fleet guard Filters). Cummins Power Generation is the leading manufacturer of reciprocating engine based power solutions and has a Global presence.

We commenced our operations in 1980 with supply, turnkey installation and operation & maintenance services of medium to high capacity Diesel Electric Generators, Diesel Engines & Gas Engines.

UES has a dominant and nationwide market presence with an installed population of more than 2500 Diesel Generators/ Diesel Engines of various capacities and applications. Our client list includes all Ministries in Oman, Telecom Companies, OAMC and almost all the oil & gas companies including PDO. Cummins Generator range varies from 17 KVA to 3500 KVA. Multiple Generators can be installed for higher power requirement.

Our full-fledged Service Workshop & Parts Warehouse are located in Muscat. A strong service team of 80 professionals is available round the clock. We maintain high inventory of capital spares, fast moving spares & consumables to serve our valued customers. Our Service Centre is an Approved Repair Facility for Cummins and Cummins Generator Technologies & WEG Motors (DC / LV / MV & HV Motors).

UES is the first authorized company in Sultanate of Oman to Repair & Overhaul the IECEx Motors.

### Quality

The exclusive quality assurance and control programme certified to ISO 9001:2015 monitors all activities like Enquiry, Delivery, Installations, Testing & Commissioning and After-sales services.

### Award

UES has been awarded Gold Level in 2017 in recognition of its efforts and achievement in distribution excellence and outstanding customer support through participation in the Cummins Excel Programme.



1



4



2



3



Universal Engineering Services LLC is the sole authorized distributors for Cummins Filtration Inc. "Fleetguard Filters" in Oman since 1980.

Cummins Filtration is a world-leading Manufacturer and supplier of filtration systems and products for heavy-duty applications under its core brand "Fleetguard". Fleetguard has over 10,000 products covering the widest range of Air, Coolant, lube oil, fuel and hydraulic filters in the heavy duty industry, configured as Spin on and Cartridge ranging micron levels from 2 micron to 20 micron having filtering efficiency of 98.7% depending on applications.

Fleetguard engineers monitor manufacturing of all its products to meet or exceed OEM Specifications to ensure the engines get their maximum life.

Fleetguard supplies directly to more than 140 Original Equipment Manufacturers worldwide.

Leading manufacturers like Cummins, Caterpillar, Volkswagen, Ford, Dong

Feng, Foton, DAF, John Deere, Iveco, Komatsu, Liebherr, Kamaz, Belaz, Scania and others work with Cummins Filtration to develop the protection and advanced solutions required for their New Generation Engines.

Fleetguard has 5 Technical centers located in Cookeville, Tennessee; Stoughton, Wisconsin; Quimper, France; Pune, India; Wuhan, China, and 13 manufacturing plants around the world to cater to its markets.

All products benefit from Fleet guard's OEM associations and QS 9000/ ISO 9001/ TS16949 standards.

1 RasMarkaz1, - Three nos. of fully custom built, project-specific genset solution featuring an IP65-rated enclosure and IP55 alternator installation in Duqm. Each system includes a fuel tank, switchgear container, and load bank.

2 Sohar Aluminum – High-capacity 1400 kVA enclosed genset supplied for the Sohar Aluminum Upgrade Project, specifically designed to support operations in the compressor house with built in Auto-changeover controls in the Genset controller.

3 Digital master Control for complex Multiple utility and generator control.

4 Mobile Power Trailer Units. 1100 kVA enclosed gensets mounted on mobile trailers, equipped with breaker panels, integrated fuel tanks, and cable drums. Multiple units supplied to a govt. client for supporting mobile and emergency power needs.

# Elevators, Escalators & Trav-o-lators

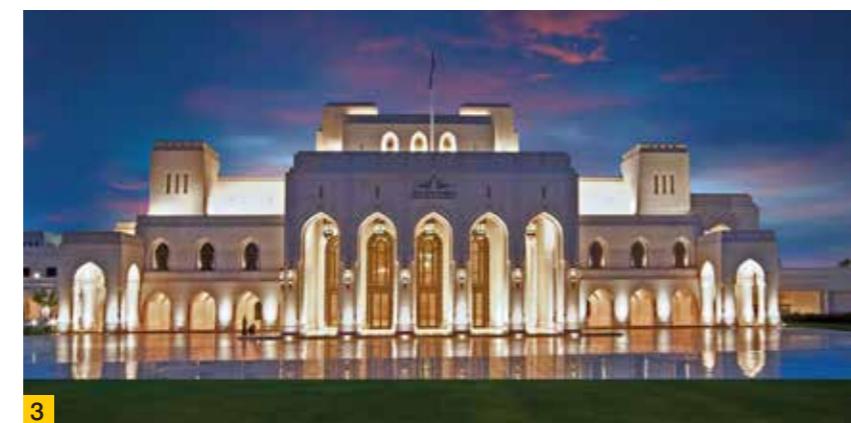
Bahwan Engineering Company's Elevators, Escalators & Trav-o-lators Division is the market leader of Oman for over decades in providing sustainable turnkey solutions to the multi-directional (Vertical and Horizontal) transportation requirements. The market leadership is being held by proven track records of timely completion, quality & safety on numerous prestigious and iconic projects of the country, with a dedicated team of management, trained engineers, supervisors and technicians to service the customers swiftly and efficiently to their ultimate satisfaction.

The Division's Vertical & Horizontal transportation range covers Elevators, Escalators, Trav-o-lators, Dumbwaiters, Scissor lifts & Platforms. The division also provide turnkey industrial solution for lifting equipment like overhead cranes and specialized equipment like passenger boarding bridges, cargo handling system and auto-car parking systems.

With the technical expertise from the traffic study, design, installation, commissioning & 24x7 maintenance, the division is richly experienced in catering to a broad category of customers and projects like residential, commercial, infrastructure, industrial, offices, hospitals, hotels, shopping complexes and mixed use developments.

OTIS, the 164 years old brand and the world's largest manufacturer cum service provider of VHT equipment provides innovative products like Gen2 (Flat belt technology) & Regen, which gives unique advantages of lubrication free, green, power saving, LEED friendly features to the clients. Further, the division's unique 24x7 Zoning maintenance ensures less downtime of equipment, giving comfort to the end users.

The exclusive Quality Control Programme accredited with ISO 9001-2015 monitors all activities like concept engineering, delivery, installation, testing & commissioning along with the company's OHSAS 18001:2007 ensuring the health & safety and the ISO 14001:2004 ensuring environment management of their activities.



1 Mall of Oman - 38 Elevators, 30 Escalators & 20 Trav-o-lators.

2 Oman Across Ages Museum - 13 Elevators.

3 Royal Opera House - 13 Elevators & 2 Escalators.

4 Omantel HQ - 13 Elevators.

5 Salalah Airport - 36 Elevators, 14 Escalators & 8 Boarding Bridges.

6 St Regis Hotel, Muscat

7 Al Mouj (The Wave) Development - Elevators & Trav-o-lators at hotels, apartments & commercial complex.

8 National bank of Oman HQ - 11 Elevators & 2 Escalators.

## Chemical & Industrial Products

Chemicals & Industrial Products division specialises in undertaking and delivering diversified contracts with technical, after sales services for various specialty chemicals. We undertake industrial turnaround and cleaning contracts for Oil & Gas & Petrochemical industries comprising of catalyst loading/unloading under normal to inert conditions, industrial high pressure cleaning using state of the art technology.

### Applications:

- Desalination Plants – Antiscalant & Defoamers for (R.O, MVC & MSF).
- Comfort Cooling & Industrial Process Cooling – Prevention of scaling, corrosion and bio fouling.
- Refinery process side additives- Prevention of carry overs in desalters, overhead corrosion, fouling and lubricity improvers.
- Drilling Mud Production Chemicals and associated services.
- Enhanced Oil Recovery Projects.
- Liquid Solid Separation (Waste water plants)

### Industrial Products Applications:

- Oil & Gas Industries : Pumps , Valves and associated fittings
- Desalination Plants – Waste water / Grey water recycling plants.
- Gas Compression for Flare Gas Recovery
- Oil spill control equipment's
- Specialized High Pressure Pumps for sea water intake systems.
- Chemical Dosing Skids and associated pumps and accessories.



Specialty Chemicals



Fire Heaters



Refinery process additives



Beam Pumps for oil production

## BUSINESS UNIT SERVICES

We are committed to help our clients maximise the life cycle & value generation from their assets through our facilities management, periodic maintenance, troubleshooting, upgrades, refurbishments and aftercare services.

Our commitment to self-deliver services allows us greater control over the quality of service delivery, flexibility and ability to maximize efficiency by reducing overall operating cost and at the same time displaying high practice of safety standards.



FACILITIES MANAGEMENT



INDUSTRIAL MAINTENANCE



GENERATOR & AUXILIARY MAINTENANCE



ELEVATOR / ESCALATOR/ TRAV-O-LATOR MAINTENANCE



DIESEL POWER GENERATORS HIRE

# Facilities Management

Facilities Management & Maintenance Division (FMMD) is a strategic arm providing integrated solutions in the following segments for over four decades:

- Airport
- Industrial Facilities
- Oil & Gas
- Refinery & Petrochemicals
- Power Plants
- Defence
- Hospitals
- Hotels
- Sports Complex
- Ministry Building
- Educational Complexes
- Commercial & Residential Complexes
- Banks
- Telecommunication
- Solar Renewables
- Data Center

## Facilities Management approach:

- 24 x 7 call out support
- Planned preventive maintenance
- Reactive & corrective maintenance
- Predictive maintenance
- Asset management.

## Hard FM Services:

- HVAC ■ Electrical Installations – MV & LV
- BMS ■ Plumbing Installations ■ Fire Fighting & Alarm Systems ■ UPS Systems
- General Infrastructure ■ Building Fabric
- Boilers ■ Laundry & Kitchen Equipment
- Water & Waste Water Treatment Plants
- Sewage Treatment Plants ■ Gas Turbine & Balance of Plant for Power stations
- Solar Plants & Associated Sub-stations
- Civil Infrastructure ■ Elevators & Escalators.

## Soft FM Services:

- Help Desk ■ Cleaning & Housekeeping
- Landscaping Services ■ Sewage Disposal
- Concierge ■ Catering ■ Furniture Movement.

## Refurbishment / Specialist Services:

- Annual Turnaround Works for Industries, Power Plants ■ Replacement / Refurbishment of HVAC Equipment ■ Replacement of Piping & Ductwork ■ Energy Saving ■ Replacement of Electrical Switchgear, Transformer, Diesel Generator etc. ■ Duct Cleaning & Remediation ■ Energy Efficiency Study & Retrofits ■ Ceramic Coatings ■ Vibration Analysis ■ Eddy Current Testing ■ Compressor Overhauls



1 Facility Maintenance of Oman Convention & Exhibition Centre.

2 Facility Maintenance of Royal Opera House Muscat, Oman.

3 Facilities Maintenance of Sultan Qaboos Grand Mosque, Oman.

4 Facilities Maintenance of Muscat International Airport.

5 Operation & Maintenance of Bahwan Green Energy Solar Power Plant - 303KWp Ground Mount system.

6 FM Services at Omantel HQ.

## Industrial Maintenance

BEC Facilities Management & Maintenance Division is specialized in delivering core hard services in Industrial Maintenance. These include maintenance of Fertilizer Plants, Refineries, Petro-chemical Plants, Power Plants, Process Industries, Industrial Boilers, Incinerators and Water & Waste Water Treatment Plants.

We also specialize in turn around works for the above mentioned Plants for both static & rotating equipment.

We ensure compliance with organization regulations and help our client to achieve set objectives cost effectively with minimal disruption to our clients business.

### Our plant maintenance capabilities include:

- Project Management
- Preventive and Predictive Maintenance
- Inventory Control
- Subcontractor Management
- Instrumentation and Controls
- Electrical Services
- Rigging
- Scaffolding, Industrial Painting & Insulation
- Piping & Fabrications
- Turnaround Works



1 Omifco -Replacement of Urea Reactor (21-R-101) in Urea Plant.

2 General maintenance services at Salalah Methanol Plant, Oman.





4

## Industrial Maintenance

- 4 General Maintenance services at Qalhat LNG Plant, Oman.
- 5 Operation & Maintenance of 1200 X 2 nos. Reverse Osmosis Plant at Wudam Naval Base, Oman.



5



## Elevator / Escalator / Trav-o-lator Maintenance

The Division Maintains Elevators, Escalators, Trav-o-lators, Overhead Cranes & Dumb-waiters, totaling more than 3,700 units in various prestigious places such as Airports, Banks, Commercial & residential buildings, Embassy, Industrial buildings, Hotels, Hospitals, Office complexes, Shopping malls, and Villas, with focused customer satisfaction.

Principal Trained Engineers & Technicians are available without interruption to handle customer needs instantly. The division maintains a large inventory of critical spares in the warehouse to ensure optimum availability to the customers.

### Highlights of their service regime are:

- ISO 9001 : 2015 certified operations
- Manufacturer recommended computerized scientific preventive programmed maintenance
- Branch operations in major cities to handle wide geographical spread of equipments
- 24X7 Call out / Emergency services
- Offering Repair / Modernization to optimize equipment's life



## Generator & Auxiliary Maintenance

The Generator & Auxiliary Maintenance Division carries out scheduled maintenance and calibration of Generator auxiliaries whether "Essential" - like water pump, fuel pump, lube oil pump etc. or "Non-Essential" auxiliaries like anti condensation heaters, jacket water heaters etc.

### Services include:

- Health Check Programs
- Annual Maintenance Contracts
- Component Servicing
- Injector and Fuel Pump Calibration Work
- Breakdown Service
- Minor and Major Overhauls
- Rewinding & overhauling of motors & alternators

## Diesel Power Generators Hire

The Universal Engineering Services hire division offers Diesel Power Generators, for short term and long term requirements, for construction, oil & gas industry, stand-by segment and other utility needs.

### Highlights

- Range from 20 kVA-1000 kVA
- All Gensets from world renowned brand - Cummins
- Acoustically housed Gensets suitable for 55° C ambient temperature operation.
- Availability of Bulk Diesel tanks, and accessories like Distribution boards, Power cables.
- Qualified Service technicians for Genset backup.
- 24 X 7 Callout Service
- Separate Service teams based in Sohar, Muscat, Salalah

## Chemical Manufacturing

BEC Group has ventured into manufacturing with the launch of Suhail Chemical Industries LLC (SCI) in the year 2000. SCI is the first fully-dedicated sulphuric acid plant in the Sultanate of Oman.

SCI boasts of a state-of-the-art manufacturing facility in the Sohar Industrial Area that can produce 90/TPD of pure sulphuric acid. Applying Double Conversion Double Absorption [DCDA] technology, the plant produces best quality Technical Grade and Battery Grade sulphuric acid, in a glass plant with negligible iron content, that are exported to GCC countries and Africa apart from catering to the local market requirements. SCI also trade in various industrial chemicals.

SCI has implemented stringent quality control measures, including monitoring of the effluents, to ensure that the entire operation is environment-friendly.

SCI implements robust quality assurance and control plans from design to delivery through well established quality management system which has been certified to ISO 9001:2015.

## Suhail Chemical Industries LLC



## Investments



## Other Interests

BEC Group's investment arm takes special interest in the development of Oman's infrastructure projects. It has been at the forefront of the privatization process of Power & Water sector through equity participation in independent power & water projects.

BEC Group along with world-class consortium partners has promoted and developed state-of-the-art Power projects including solar power pilot project and has participated in the first private desalination plant in the coastal city of Sur, among others.

### Major investments in this sector include:

- ACWA Barka SAOG (Barka 1 IWPP) 456 MW power plant and 30 MIGD desalination plant (since sold)
- Al Suwadi Power Co. SAOG (Barka 3 IPP) 750 MW power plant (since transferred)
- Al Batinah Power Co. SAOG (Sohar 2 IPP) 750 MW power plant (since transferred)
- Phoenix Power Co. SAOG (Sur IPP) 2,000 MW power plant.
- Phoenix Operation & Maintenance Co. LLC (Sur IPP) – Operation and maintenance of 2,000 MW power plant.
- Bahwan Veolia Water LLC (Sur IWP) Operation and maintenance of 29 MIGD desalination water plant.
- Bahwan Green Energy LLC - 303 kW power plant. Oman's first commercial renewable energy power project
- Al Asilah Desalination Company SAOC 17.66 MIGD RO Desalination plant.

# OUR COMMITMENT



## HEALTH, SAFETY & ENVIRONMENT

We at BEC, envision a safety culture to achieve an injury free workplace, to facilitate and empower employees to make continuous improvement aiming to establish us as the industry leader in Healthy, Safety and Environment. This will create value to our employees, clients and society at large and enhance overall business process.

The company has a well-established HSE policy, emphasizing "HSE is everyone's responsibility and part of the corporate philosophy. The Senior Management provides strong, visible HSE leadership & commitment and ensures that this commitment is translated into the necessary resources to develop, operate and maintain the company's HSE MS, HSE Plan and procedures to attain HSE policy objectives.

BEC Group's HSE management system is accredited with ISO 45001:2018 & ISO 14001:2015 certificates and is based on the Total Quality management (TQM) principle emphasizing on continuous improvement and integrating HSE aspects in every business endeavour with a proactive approach.

The corporate HSE department employs more than 175 qualified, trained & experienced expatriate and national (Omani) HSE staff, responsible to ensure compliance monitoring and review all aspects of HSE covering entire organizational activities.

In addition, BEC Group has established a dedicated Road Safety division at corporate level to monitor & review company wide driving activities. With this proactive approach, we have successfully completed most of the projects with ZERO LTI and strive to achieve incident and injury free workplace exacting to international standards.

### Some of BEC Group's ZERO LTI achievements:

- 15 Million LTI free man-hours at LNG Projects
- 13 Million LTI free man-hours at Saini Rawi Project of PDO
- 10 Million LTI free man-hours at Muscat International Airport Project MC-3
- 10 Million LTI free man-hours at Petroleum Development Oman (PDO)
- 12 Million LTI free man-hours at Sohar Refinery Improvement Project (SRIP)
- 9.6 Million LTI Free Manhours at Duqm Refinery EPC-01 PKG-02
- 13.5 Million LTI Free Manhours for ELP OETC Projects
- LTI Free Major Shutdowns in OLNG/SIUCI/OQ/OMC



## QUALITY

BEC is the first company in its category in Oman to achieve ISO 9000 certification which over a period continually improved the QMS Scope which is currently:

- Project management, Engineering, Construction, Facility Management & Maintenance and Product sales and services in the Gulf region.
- Supply, Installation and Maintenance of passenger & material conveying system and lifting equipment.
- Supply, Installation, Testing & Commissioning and after-sales services of Electrical & Mechanical equipment
- Manufacturing & supply of Sulphuric acid.

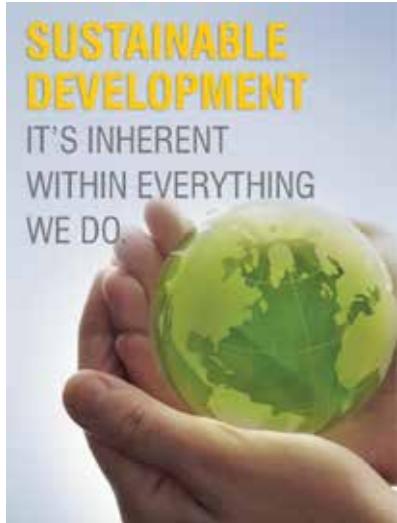
**ASME CERTIFICATIONS** - BEC is authorized, by American Society of Mechanical Engineers (ASME), to use Code Stamp 'A' – for Assembly of Power Boiler at Field sites and Code Stamp 'PP' for Fabrication and Assembly of Pressure Piping at Field sites. BEC is also authorized by The national Board of Boiler & Pressure Vessel Inspectors (NBBI) to use Code Stamp 'R' – for Metallic Repairs And / or Alterations at Field sites. The company has excellent Quality performance track record as one of the best Quality contractors in Oman.

### We do this by executing a formal quality program designed to ensure we:

- Provide customers with high quality installations and services which meet requirements and are fit for their purpose.
- Enhance the skills of employees through reviews and providing suitable training, the objective of which is to prepare employees to perform their work more effectively.
- Promote the culture of continual quality improvements and the philosophy of getting things "right first time".
- Control the supply, installation and completion programme of all projects.
- Promote the quality management systems and ensure implementation is achieved by internal auditing, management review, corrective and preventive action and implementation of KPIs.



# OUR COMMITMENT



## SUSTAINABILITY

At BEC Group, sustainable development is inherent within everything we do. We apply good practices on each of our projects, in co-operation with our clients & brand partners, and sustainable development is integral to our work. We apply the principles of sustainable development throughout the supply chain and across all the phases of the project life cycle.

### Solar & Wind Energy

BEC Group has been involved in helping clients with environmentally sustainable projects and products for many years. We have been the pioneer in solar energy initiatives in Oman. We have invested in and developed Oman's first PV Solar Plant feeding power to a public grid. We are working on various other opportunities to exploit the nation's abundant Solar Irradiance, aimed at conservation of depleting fossil energy resources. BEC Group is also working closely with international contractors to develop country's Wind Energy potential.

### Green Partnerships

Our Brand partners like Carrier, OTIS, Cummins etc. are some of the world leaders in Green initiative and support our vision of a greener world through their products such as Carrier Aquaedge Chillers, Armstrong Design Envelope Pumps, Cummins low emission Engines and OTIS Gen2 Regen elevators.



## Social Responsibility

**Bahwan Engineering Group** strive to be a positive presence in the communities in which we operate in by:

- Training the local workforce
- Improving educational resources and medical provisions
- Developing local suppliers
- Improving living conditions of employees
- Providing emergency assistance in the case of natural disasters

We also encourage our employees to participate actively in philanthropic, charitable and other activities. In addition, the company regularly makes contributions to various organizations that seek to improve the quality of life in the communities in which we operate.

## In-country Value

At BEC Group, it is not just about filling seats with local people, but providing local value throughout and beyond the supply chain. We take utmost effort for encouraging local market by maximising the procurement of local goods and services and also improving the capacity and capability of local people and companies in order to secure sustainable commercial benefits for the country.

### Areas of focus:

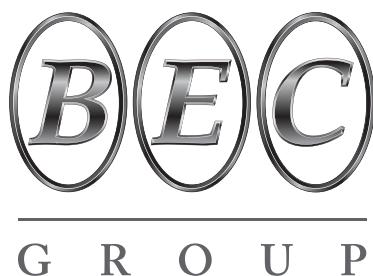
- Develop and enhance the capacity of local workers and provide them maximum job opportunities
- Increase the procurement of local goods and services
- Support local SMEs and hence stimulate long-term economic development beyond the projects we deliver.



## CARING FOR THE COMMUNITY

IT'S WHERE WE START FROM





## BAHWAN ENGINEERING GROUP



Bahwan Engineering  
Company LLC



Universal Engineering  
Services LLC



Muscat District Cooling  
Company LLC



Suhail Chemical  
Industries LLC



United Infrastructure  
Development Co.LLC



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