

SEVEN SEAS ELECTRICAL & AUTOMATION FZE  
SUPPLY, SERVICES & TRADING

REGISTERED



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# Our Profile

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- **Seven Seas Electrical & Automation FZE** is Engineering, Control and Automation specialist. We are involved in the Design, Service, Sales, Trading, Supply, Repair and Upgrade/Migrate to New systems. We serve wide range of industry segments including Marine, Offshore, Oil, Gas, Power/Water Utilities, Food, Storage, Processing & Manufacturing industries. We aim to provide a world-class service to our customers, supply quality products and services.
- We can offer the widest and most extensive quality solutions on different products as per our client's budget.
- We specialize in different applications across the industry. We provide technical consultancy for projects in the field of Electrical and Automation trade.
- If you or your company are looking for spares, installations or repairs at a fast and economical service we would like to meet with you to discuss your future objectives and how our services may be of help in obtaining your overall goals. We also accommodate bulk general supply orders for Electrical and Industrial Automation products as per the client needs on very competitive market rates.



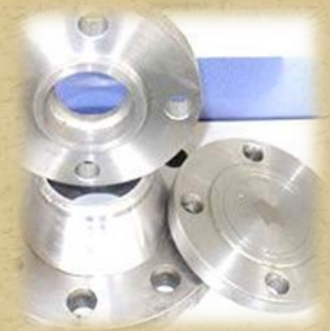
A photograph of an oil refinery at sunset. The sky is a mix of blue and orange, with scattered clouds. The refinery consists of several tall, cylindrical distillation columns connected by a complex network of pipes and metal walkways. Some parts of the structure are illuminated with warm yellow lights, creating a contrast with the cool tones of the twilight sky. The overall scene depicts a large-scale industrial operation.

# Oil Field Sector Supply



# Oil Field/Petrochemical Sector Supply & Services

- **Pipes and Tubes**
- **Flanges ANSI/SASME**
- **Fittings**
- **Stud Bolts and Sealing Products**
- **Valves**
- **Hose and Fluid Handling Division**



# Oil Field/Petrochemical Sector Supply & Services

**Pipes and  
Tube**



**Stud  
Bolts and  
Sealing  
Products**



**Fittings**



**Valves**



**Flanges  
ANSI/SA**



**Hose and  
Fluid  
Handling  
Division**





# Oil Field Products

## Pipes and Tubes



SMLS Line Pipes A106B / API 5LX42 from Size 1/2 to 24 inch

SMLS Pipes A333 Gr.6 / API 5LX52 from Size 1/2 to 24 inch

SMLS / EFW Pipe Stainless Steel Size 1/2 to 10 inch in Gr. SS316 / SS321 / Duplex / Super Duplex / Ni Super Alloys

ERW Pipes from Size 6 inch to 36 inch Std and XS Wall

Instrument Tubings in SS316L / 904L / Inconel/ Cu-Ni / CS

Structural Pipes / Tubulars

## Flanges ANSI / SASME



Forged CS Flanges SO / NPT / WN / BLIND / SW IN A105N / A350 LF2 / A694 ranging from CL.150 to CL.2500 ANSI and CL.5000 and 10000 API all sizes

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Spades and Spectacles in Carbon Steel / SS all sizes

# Oil Field Products

## Fittings



BW Fittings SMLS up to 48 inch in WPB / WPL6 & WPHY 52 / Stainless Steel 316L and SS 321 / Duplex / Super Duplex / Ni Alloys Up to Size 12 inch



Forged Fittings SCRD / SW / OLETS in A105N / A350 LF2 / SS316L and 321 SS / Duplex / Super Duplex / Ni Alloys



Instrument Tube Fittings in SS 316L / Alloys

## Stud Bolts and Sealing Products



B7/L7 and B7M / B8 / B8M Studs and Nuts up to 3.5 Inch Dia.



Spiral Wound, Fibre, Metal Ring Joint Gaskets and Flange Insulation Kits, Sealing Tapes, Packing etc.

# Oil Field Products

## Valves



Cast Steel Gate / Globe and check valves from Size 1/2 inch to 48 inch In CL. 150, Cl. 300 and CL. 600



Forged Valves in SW / NPT CL.800 / 1500 Size 1/2 to 2 inch Gate / Globe / Check and Ball Valves in CS / SS / Duplex / Super Duplex and Ni Alloys



Ball Valves CL.150 / 300 / 600 / 900 / 1500 / 2500 up to Size 48 inch and Actuated Valves on application



Gunmetal / Bronze valves for Oil / Gas Application



Instrument Manifolds and Needle ball Valves for various applications

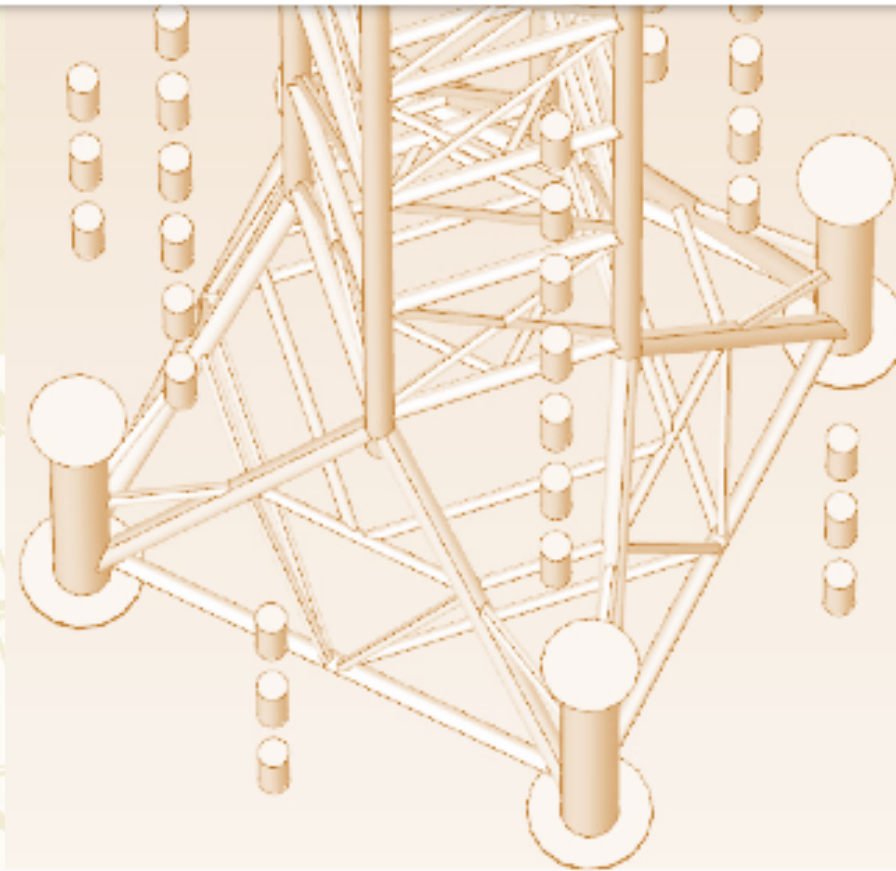
## Hose and Fluid Handling Division



High Pressure Hydraulic Hoses, High Pressure Water Blast Hoses, Composite Hoses, Stainless Steel Metallic Hoses, Heavy duty Rubber Lay flat Hoses, Bunkering Hoses, High Pressure Drilling and BOP Hoses, Bulk Delivery Hoses, Water, Oil Suction and Delivery Hoses, Grit, Bitumen and Sand Blasting Hoses, Fire Hoses, Aviation Fuel Hoses, A wide range of fittings, adaptors, quick disconnect couplings etc. of various sizes and material to suit site conditions, Dry break Spill-free Couplings, Loading arms and related equipment, Testing facilities, Annual Maintenance and Certifying of Hoses



# CORROSION & CATHODIC PROTECTION ENGINEERING



# Our Portfolio : Corrosion & Cathodic Protection (CP) Engineering

- We have diversified business in the field of Corrosion Engineering and specialized in the field of Cathodic Protection to provide high quality services to Oil & Gas, Construction and Marine Sector.



# Our Portfolio : Corrosion & Cathodic Protection (CP) Engineering

## **CAPABILITIES: CORROSION & CATHODIC PROTECTION ENGINEERING**

We can provide complete solutions for corrosion engineering Industry to meet client requirements on turnkey basis for the structures such as pipelines, Above Ground Storage Tank (AGST), Buried Vessel, Tank & Vessel Internals, plant pipe work, marine structure, Jetty and drilling for CP works.

We also undertake construction of concrete foundation for Transformer Rectifier, Junction boxes, excavation and back filling for cable and pipe laying, drilling & construction of Cathodic Protection related works.

We have successfully provided complete solution for Cathodic Protection and Corrosion Industries, our scope of work includes the following activities

- Site survey, feasibility, cost estimate, planning & projects
- Cathodic Protection System Audit, Analysis and Report
- Detailed Engineering Design and documentation
- Cathodic Protection material manufacture & supply.
- Installation supervision, testing and commissioning.
- CP maintenance and monitoring

# Our Portfolio : Corrosion & Cathodic Protection (CP) Engineering

## • CATHODIC PROTECTION PRODUCTS

### Sacrificial Pre-packaged anodes

- Pre-packaged Magnesium anode
- Pre-packaged Zinc anodes

### Sacrificial Anodes (Bare anodes)

- Aluminium (Al-Zn-In)
- Zinc (Zn-Al-Cd)
- Soft iron anodes (Pure Iron & Fe-Ni)
- Magnesium anodes

### Impressed Current Anodes

- MMO Tubular anodes
- MMO Ribbon anode
- High Silicon Cast Iron anodes

### Junction Boxes (for safe zone)

- MS painted (Painted)
- SS Painted (Without painted)
- GRP / FRP

### Junction Boxes (for Hazardous zone)

- Cast Aluminum
- Cast Stainless Steel
- GRP / FRP
- ExnA (Non-sparking zone)

## Permanent Reference Electrode

- Pre-packaged Cu/CuSO<sub>4</sub> (soil application)
- Ag/AgCl (soil and sea-water application)

## Cables

- XLPE/PVC
- HMWPE
- KYNAR/HMWPE
- HALAR/HMWPE
- PVDF

## Test Station

- Big Fink Type Test Station
- Flush Fink Type Test Station
- Anti-Fouling system:
- Aluminium-Copper anode system.

## CP System Accessories:

- M clamps
- C clamps
- U bolts
- Thermite weld materials



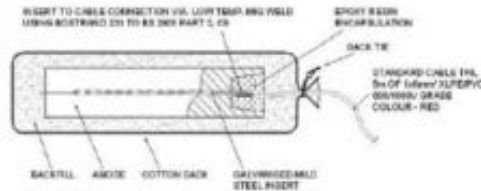
# Corrosion & Cathodic Protection (CP) Engineering

## PRODUCT PICTURES

### TEST STATION



## SACRIFICIAL ANODES (PRE-PACKAGED - MAGNESIUM AND ZINC)



# Corrosion & Cathodic Protection (CP) Engineering

## **SACRIFICIAL ANODES BARE (ALUMINIUM, ZINC & MAGNESIUM)**





# Corrosion & Cathodic Protection (CP) Engineering

## IMRESSED CURRENT ANODES (MMO)

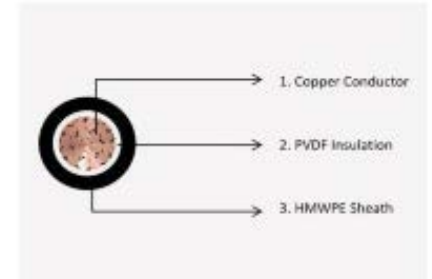


# Corrosion & Cathodic Protection (CP) Engineering

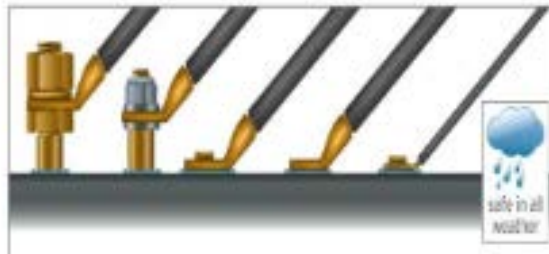
## ICCP ANODES (HIGH SILICON CAST IRON ANODE)



## CABLES



## CABLES CONNECTION





# Electrical Supply

# Our Portfolio : Electrical

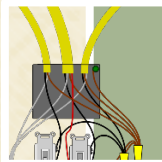
## ELECTRICAL SECTION

### Electrical Manufacturing & Supply



- Manufacturing & Supply of Electrical Products

### Electrical Services



- Installation, Testing & Commissioning
- Power Rental Services
- Cable Laying and Termination (MV/LV)
- Protection Relays Setting, Testing & Commissioning
- Relay Coordination Study
- Fiber Optic Cable Splicing, Termination and Testing

### Electrical Trading



- Circuit breakers, Protection relays & digital Metering
- PTs, CPTs and CTs
- Power, Distribution & Dry Type Transformer
- Diesel Generator
- Cables & Wires
- Enclosures
- Electrical fittings and accessories
- Lighting Poles



# Electrical: Manufacturing & Supply

**Main Distribution Boards**

- Front Accessible
- Rear Accessible

**Motor Control Centers**

- Front Accessible
- Rear Accessible

**Sub Main Distribution Boards**

- Wall Mounted
- Floor Standing

**Power Factor Improvement Panels**

- Multiple Stages Options
- With and without detuned reactors

**Control Panels**

- Starter Type: DOL and Star-Delta Type
- VFD Type
- Soft Starter Type

**Distribution Boards**

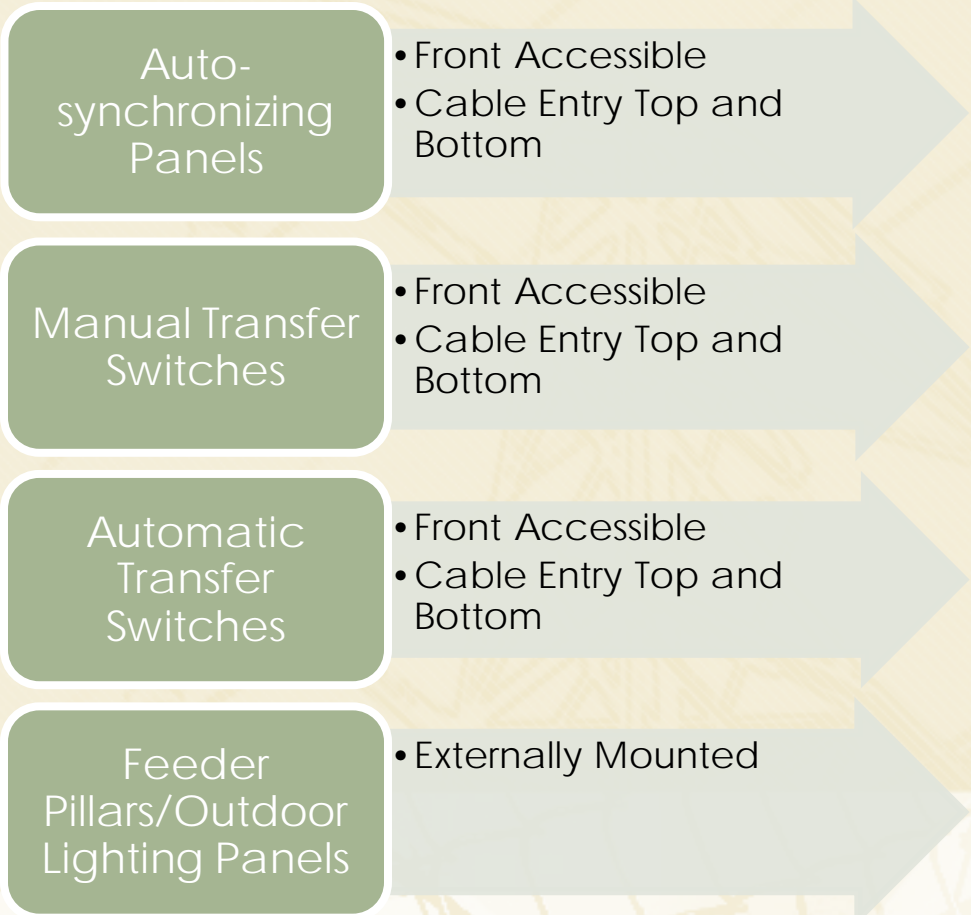
- Row type
- Enclosure Type

SEAS supplies the products based on the most recent applicable IEC standards which meet DEWA, SEWA and ADDC requirements.

The products delivered shall be Factory Tested in presence of Client/consultant.

## BRANDS WE DEAL WITH





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**BRANDS WE DEAL WITH**



**Complete Product Solution!**







# Electrical Services

- Power Rental Services(MV, LV)
- Retrofitting of Switchgears, Motor Control Centers and Control Panels
- Installation, Testing and Commissioning of Switchgear, Motor Control Centers, Control Panels (Insulation Resistance, Hi-POT Test, Functional Tests, Contact Resistance Test, Primary Injection Test, Secondary Injection test etc.)
- Installation, Testing and Commissioning of Transformers, Generators, Unit Substations, Package Substations etc.
- Underground Cable Laying, Cable Termination and Testing



# Electrical Services

- Cable Trays Installation, Cable laying and testing
- Scaffoldings Supply and Installation
- Power Cable Termination (MV/LV)

# Protection Relays Services

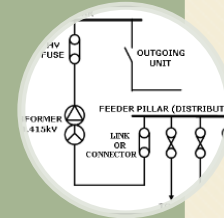
- Protection Relays Logic/Parameters Settings, Testing and Commissioning

Protection Relays Settings and Commissioning



- We conduct Protection Co-ordination Study based on the final customer Single Line Diagram mentioning all the rating details.

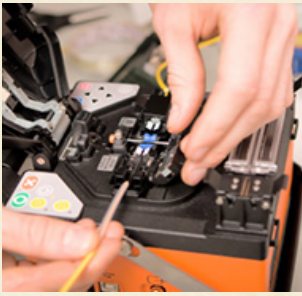
Protection relays Co-ordination Study



Fiber Optic Cable Splicing, Termination and Testing







## Fiber Optic Cable Splicing, Termination and Testing

### Fiber Splice & Termination

- Fast fiber splice and termination by us, make changes to your fiber optic network now.
- Our engineers terminate fiber optic cables onsite whether installed by you or existing cables. All cable types including single mode fiber (9/125 $\mu$ m) or multimode (62.5/125 $\mu$ m and 50/125 $\mu$ m) can be terminated with the required type of fiber termination.

### Fiber Optic Testing

- We are able to carry out fiber optic fault finding and fiber optic testing using an OTDR and visible light source on OS1 9/125, OM1 62.5/125, OM2 50/125 & OM3 50/125 fiber cables. Fiber optic testing services can be offered to clients who have installed cables themselves or have an existing network that they require testing to insure optimum performance.
- After the cables are installed and terminated testing can commence. Every Fiber optic cable will need to be tested for continuity, end-to-end loss, splice loss, insertion loss and then fault found if there are any problems.

# Electrical: Trading

## Protective Devices

- Circuit Breakers
- Protection Relays

### BRANDS WE DEAL WITH



## Transformers

- Power Transformer (Federal Transformers)
- Distribution Transformer (Federal Transformers)
- Dry Type Transformer
- Potential Transformers, Control Power Transformers, Current Transformers

## Generators

- Diesel Generator Sets

### BRANDS WE DEAL WITH



# Electrical : Trading

## Electrical Fittings & Accessories

- Electrical Fittings, Wiring Accessories, Light Fixtures, Industrial Plugs and sockets, Lighting Poles
- Cable trays, Trunking and Accessories
- Heat Shrink Sleeves, Adhesive Sleeves, SS Cable Ties
- Conduit Trunking & accessories
- Cable Glands, Lugs, Terminals and Accessories
- Enclosures (Box type/ROW type)

## Cables and Wires

- Cables & Wires (Power cables, control cables, Fiber optic cables, patch cords, UTP cables, coaxial cables)

## Electrical Test Equipment

- Primary Injection kit, Dielectric Test kit, Secondary Injection test kit, Insulation Resistance Test Equipment



**Megger**



**FLUKE**



# Automation Product Portfolio

# Our Portfolio : Automation



## Specialized Automation Solutions (Supply and Installation)

- Auto-sliding Doors
- Motorized Gates
- Car Park Barriers
- Close Circuit Television Camera
- Supply and Installation Home and Building Automation
- Intercom Systems
- Data Networking/Communication Solutions:
- Enterprise Infrastructure/Networking & Security Solutions etc.



## Power System Automation Components and process Automation Components Supply

- Industrial Ethernet Switches (Ruggedcom)
- Protection Relays IEC 61850 compliant (SEL)
- Fiber Optic Cables, Pigtails, Patch cords
- Cat 5/6 cables and patch cords
- Coaxial Cables | Time Server,
- GPS clock and antenna
- Industrial Servers
- Gateways (Hardwired to IEC 61850 and Modbus to IEC 61850) etc.



## Process Automation Supply: Sensors

- Photoelectric detection devices | Photoelectric safety devices | Photoelectric inspection devices | Photoelectric measurement devices | Proximity inductive sensors | Complementary products | Proximity Inductive & Capacitive Sensors | Electricals & Controls | Temp. controller | Recorder, Counter/Timer | Panel meter, Sensor/Encoder | TPR/SSR/SMPS | Control Switch, | Light/Signal Tower | Pneumatics & Valves etc.

## Our Products

- PLC - Programmable Logic Controller.
- HMI - Human Machine Interface.
- SCADA - Supervisory Control and Data Acquisition.
- DCS - Distributed Control System.
- PLC , PAC Customized Control Panel.
- Process Control and Safety
- I/O Modules, Cables & Accessories.
- Instrumentation products.
- Motion control products.
- Robotics products.
- Industrial PC, Panel PC.
- Field PG, Testing Kit.
- Software & License.
- AC/DC VFDs.
- AC/DC Motors.
- AC/DC Power Supply.
- ACB, MCB, MCCB, ELCB, RCCB.
- Fuse, Switches, Isolator, Sensor.
- Conductor, Soft Starter, Relays.
- Metal / Steel Enclosures.
- LV Panel spares.
- CNC Machine spare.
- Measuring Instrumentation spares.

## Our sphere of activity

- Free Plant Survey.
- Free After sales service & support consultation
- Free Information for new release product & demonstration.
- Free consultation of alternate products for cost effective solution.
- Free consultation of replacement products for discontinued products.
- All technical documentation.
- Products & spare parts supply.
- Phased-out parts supply.
- Field Service.
- PLC Programming.
- System Migration.
- Startup & Commissioning.
- Spare parts Repair.
- System Upgrading.
- Training programs.
- Sourcing of Equipment/Machinery.
- Expansion/modernization of existing plants.
- Export Project/Product Sales.
- We service a wide range of industries including complete Processing & Manufacturing Industries. Cement, Marine, Oil & Gas, Petro-chemicals, Water, Solar, Energy, Food, Healthcare, Mining Etc.

## Brands Supported

- Allen-Bradley
- ABB
- Schneider
- Siemens
- Omron
- Ametek EIG
- Beckhoff
- Danfoss
- Delta
- Eaton
- Emerson
- Endress+Hauser
- Fanuc
- Fatek
- Fuji Electric
- GE
- Hitachi
- Honeywell
- Mitsubishi Electric
- Pepperl+Fuchs
- Phoenix Contact
- Weidmuller
- Wika
- Ruggedcom



# Power System Automation Components - Supply

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## Power System Automation Components and process Automation Components Supply

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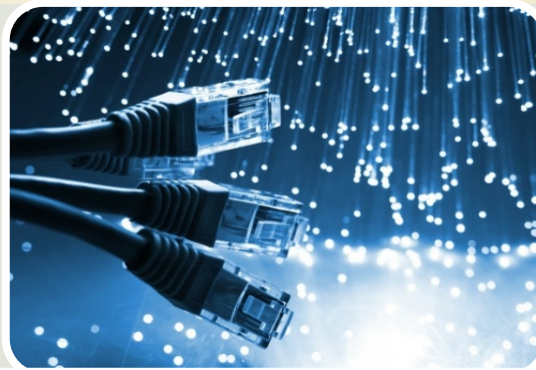
### SOME OF THE BRANDS WE DEAL WITH



# Process Automation Components - Supply



# Process Automation Components - Supply



Process Automation Supply:

Sensors

Photoelectric detection devices | Photoelectric safety devices | Photoelectric inspection devices | Photoelectric measurement devices | Proximity inductive sensors | Complementary products | Proximity Inductive & Capacitive Sensors | Electricals & Controls | Temp. controller | Recorder, Counter/Timer | Panel meter, Sensor/Encoder | TPR/SSR/SMPS | Control Switch, | Light/Signal Tower | Pneumatics & Valves etc.

SOME OF THE BRANDS WE DEAL WITH

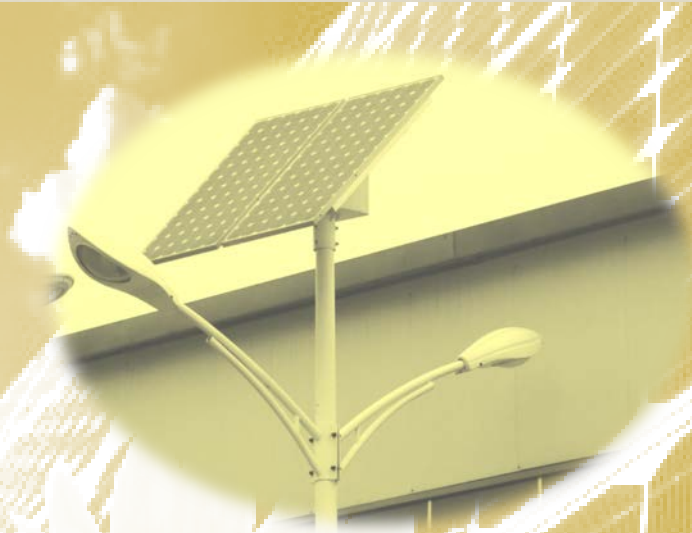
**Schneider**  
Electric

**Honeywell**

# Solar (Photovoltaic) Product Portfolio

# Solar Products (Photovoltaic)

- Solar Panels,
- Charge Controllers,
- Batteries,
- Inverters,
- Battery Chargers
- Solar Water Pumps
- Solar Water Heaters
- Solar Street Light,
- Solar Power Bill Board
- Solar Power RO system







**THANK YOU!!**