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ELECTRICAL &  
INSTRUMENTATION



ROTARY ELECTRICAL & INSTRUMENTATION PTE LTD

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## ROTARY ELECTRICAL & INSTRUMENTATION PTE LTD



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### An Integrated Engineering, Procurement, Construction Maintenance Services Provider for E & I

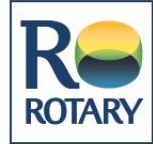
Rotary Electrical & Instrumentation is delivering over 40 years of extensive international experience in the Asia Pacific & Middle East Regions, offering with fully integrated Engineering, Procurement, Construction and Maintenance ("EPCM") services to the oil & gas, petrochemical and petroleum industries.

REI specializes in electrical and instrumentation EPCM projects, Process Control System, ELV System, Analyzer Houses & Systems Integration and HVAC Systems.



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### Integrated Management System

#### Our Vision

We aspire to be an excellent global engineering, procurement and construction company.

#### Our Mission

Our mission is to provide quality services that consistently meet our clients' needs and expectations through excellence in our operations.

#### Quality, Health, Safety Environment Policy

Our Management & Staff of REI is committed to:

To do it right the first time, and continue to improve in meeting customers' satisfaction and regulatory requirement in areas of quality, environmental protection, workplace safety and health.

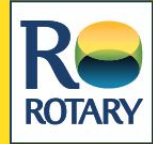
#### HSE Policy Statement

Our mission is to provide a safe working environment for our employees, protection of the environment, safeguarding owners' plants and equipment.



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# Engineering Capabilities



## Engineering Capabilities for E & I

As one of the region's leading engineering companies, our engineers and designers are professionals with practical experience in excess of 10 years in the E & I Engineering field.

Supported by design centers in India, Thailand, as well as a 3D modeling center in India, Rotary's Singapore engineering head office has strong capabilities in electrical and instrumentation engineering.

Rotary's engineering department is equipped with leading engineering design software in the market and adopts the use of SmartPlant, ETAP suite of products for EDMS, 3D modeling and other design works.

## Engineering Services

- Electrical System Basic & Detail Design (up to 66KV)
- 3D Modeling
- ELV Systems for CCTV, Building Access, PAGA & Intrusion Detection Systems
- SCADA/PLC/Distributed Control System
- Process Control Instrumentation & Metering Skids
- Process Analyzers, Analyzer Shelter and Integration
- Fire and Gas Systems & HVAC/ACMV Systems



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# Procurement Capabilities



## Procurement Capabilities for E & I

Our depth of presence in the industry over the years has meant that we have built up a vast global network of trusted suppliers. As a result, you benefit from the cost savings we enjoy through bulk procurement. And because we only deal with the best, you can be assured that our networks and supplies will arrive on time.

We use an integrated procurement system using SmartPlant Materials to track and manage materials from requisition to receipt, and to install at site. With the use of SAP solutions, Rotary is able to collaborate more closely with clients, partners and suppliers.

## Procurement Services

- Contract Negotiation with Vendors
- Procurement of Equipment and Materials
- Purchasing and Expediting of Materials
- Inspection Services (FAT & Site Inspections)
- Material Control and Warehousing
- Logistics Services



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# Construction Capabilities

## Electrical Capabilities

REI provides full spectrum of electrical services required by multinational companies in the Petroleum, Petrochemical and Oil and Gas (Onshore and Offshore) industries.

Our large and global pool of skilled craftsmen and specialists combine their skills to deliver the complete suite of electrical construction and installation works.

## Electrical Services

- Earthing and Lightning Protection System
- Lighting System & Heat Tracing System
- Electrical Sub-station (up to 66KV) and Motor Control Center
- HV & LV Cable Installation and Termination
- Power Transformer Installation (up to 66KV)
- Uninterruptible Power Supply and Emergency Standby Support System
- MV Motor Installation (11KV, 2750KW)
- Cathodic Protection System Installation



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# Construction Capabilities

## Instrumentation Capabilities

Our team of engineers specialise in delivering exceptional quality instrumentation works to a diverse clientele of multinational companies in the Petroleum, Petrochemical and Oil & Gas (Onshore & Offshore) industries.

We have earned the distinctive reputation of being a reliable and trustworthy partner in the industry with an excellent track record.

## Instrumentation Services

- Installation of Remote Instrument Enclosures
- Integration of Analyzers in Shelters
- Installation of SCADA/PLC/DCS Systems
- Process Control Field Instruments
- Metering Skids & Gas Detection Systems Installation
- Fire Alarm and Fire Control Installation
- Telecommunication and Access Control Systems
- CCTV, PAGA and Intrusion Detection Systems



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# ELV Systems

## ELV Systems

Offering engineering & design services, product installation & integration services and testing & commissioning services in extra-low voltage (ELV) systems to the petroleum, petrochemical and oil & gas industries.

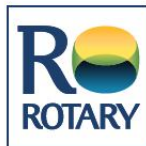
## ELV System Services

- Security Access Control System (SACS)
- Telephone & LAN Systems
- Public Address & General Alarm System (PAGA)
- Surveillance System (CCTV)
- Trunk Radio System (TRS)
- Fence Intrusion Detection System (FIDS)
- Master Clock System (MCS)



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# Process Control Systems

## Process Control Systems

Offering engineering & design services, product installation & integration services and testing & commissioning services in process control systems (PCS) to the petroleum, petrochemical and oil & gas industries. REI has a long history providing process control systems (PCS) solutions in the fields of bulk liquid storage terminals, offsite and utilities, refineries and petrochemical plants.

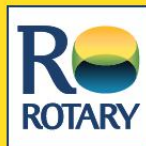
## Process Control System Services

- DCS/PLC Programming
- SCADA/HMI Development
- Panel Integration and Relay Logic (RL)
- Safety Integrated System (SIS)
- Tank Gauging System (TGS)
- Terminal Automation System (TAS)
- Site Commissioning and Service Report
- Products Handled (Rockwell, Siemens, Hollsys, Yokogawa, Honeywell and E & H)



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# Analyzer System Integration



## Analyzer System Integration

Full integration solution provider for Analyzer Systems from design to kick-off of operations and start-up activities. With specialized peoples we are providing detailed design of complete analyzer systems based on the needs of the clients.

## Analyzer Shelter Services

- Selection of Analyzer Housing
- Shelters Suitable for Zone 2 Area
- Natural Ventilation Calculations
- Forced Ventilation Calculations
- HAZOP/IEC Safety Study on Complete Analyzer Shelter
- PLC Based Shelter Control System

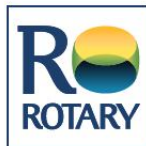
## Analyzer System Services

- Physical Property Analyzers
- On-Line CFR Engine Analyzer
- Moisture Analyzer for Hydrocarbons
- Gas Chromatographs (Liquid & Gas)
- Sample Conditioning/Recovery System Calculations
- Determination of Sample Probe Lengths
- DOPAK Sampling System
- On-Line Validation System



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# HVAC Systems



## HVAC System

Offering design, engineering, manufacturing, installation, supervision, testing & commissioning services in heating, ventilation, air conditioning (HVAC) systems to the commercial, petroleum, petrochemical and oil & gas industries.

## HVAC Systems Services

- Complete HVAC Turnkey Project
- System Design (Air-Cooled/Water-Cooled)
- System Schematics
- Complete Steel Work Fabrication & Installation of Ventilation

## HVAC Systems Services

- Equipment Selection
- Heat Load Calculation & Analysis
- Electrical Load Calculation & Layouts
- Local Codes Compliance
- Green Mark Study
- Multi-Split/Single-Split Systems
- Air Handling Units
- Space Saving, Energy Efficiency & Low Operating Cost



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# Prefab Substation & Instrument Enclosure



## Prefab Substations for E & I

Offering design, calculations, manufacturing, inspection, testing, delivery and installation of Prefabricated Substations, complete with all equipment, lighting and small power system, HVAC, earthing & lightning system, fire detection & protection system and all other required components.

## Prefab Substations Services

- Delivery and Installation
- Document Submission to Authorities

## Prefab Substations Services

- Structural Design and Calculations
- Electrical, HVAC, ELV & Instrument System Design & Equipment Selection
- Complete Fabrication & Assembly Works
- Integration of Electrical, HVAC, ELV (CCTV, PAGA, ACS, Telephone System & Trunk or Non-Trunk Radio System) & Instrumentation Systems.



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# Testing & Commissioning



## Testing & Commissioning for E & I

Our well-established network of contacts and resources enable us to have quick response time to complete work on and even before schedule.

Our site Engineers, Superintendents and Supervisors are well versed and involved in every phase and detail of the Electrical and Instrumentation works. This makes progress smooth and efficient.

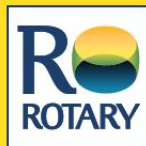
## Testing & Commissioning Services

- Transformer Testing
- Electrical Testing & Inspection
- Switchgear (HV & LV) and MCC Testing
- UPS System, Battery/ Charger Testing
- Field Instrument Testing & Inspection
- Process Loop Testing
- Testing & Commissioning of DCS, SCADA System
- Tank Gauging System



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# Maintenance Services for E & I



## Maintenance Services for E & I

Our expert team will oversee maintenance planning and scheduling that meets the needs of your individual requirements. This includes regular scheduled maintenance or predictive and preventive maintenance to extend the life of your plant; turnaround and shutdown maintenance as required; and even daily and facilities maintenance.

## Instrumentation Maintenance Services

- DCS/PLC & CCTV Systems
- Communication Systems & Fire Alarm Systems
- Actuator and Control Valve
- Field Instrument Calibration
- Field Instrument Service & Installation

## Electrical Maintenance Services

- Transformer (22/0.433KV, 22/6.6KV & 6.6/0.433KV)
- HV/MV Switchgear & LT Switch Board
- Standby Diesel Generator & MV/LV Motor
- Upgrade Lighting, Floodlight & Street Light to Energy Saver/LED
- Earthing Testing, Heat Tracing Systems
- AC/DC/VLF Hi-Pot Test & Shutdown Services for: RMU, Transformer, Generator, Switch Gear and Switchboard



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## Project Showcase

SATORP Project (Package 6 – Refinery Tank Farm)  
(Saudi Aramco Total Refining and Petrochemical Company)



Universal Terminal Project  
(Universal Terminal Pte. Ltd.)



SPT Olefins Recovery Project  
(Exxonmobil Chemical Asia Pacific)



Shell ECC Project  
(Shell Eastern Petroleum Pte. Ltd.)

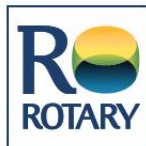


Evonik Me5 Project  
(Evonik Methionine Sea Pte. Ltd.)



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# Rotary Group of Companies

## Overseas Offices



### India

No.1 Discoverer Building  
International Tech Park  
9th Floor, Whitefield Road  
Bangalore 560066, India  
T (91 80) 2841 0025  
F (91 80) 2841 0027



### Dalian, China

No.7 Hui Xian Yuan  
#08-02 Dalian High-Tech  
Industrial Zone, Dalian 116025  
People's Republic of China  
T (86 411) 3966 8787  
F (86 411) 3966 8789

## Headquarters



### Singapore

No.17 Tuas Avenue 20  
Singapore 638828  
T (65) 6866 0800  
F (65) 6866 0994

No.61 Jurong Island Highway

Singapore 627860  
T (65) 6866 0000  
F (65) 6866 0199



### Batam, Indonesia

Jalan Brigjen Katamsno, 6KM  
Tanjung Uncang  
Batam, Indonesia  
T (62 778) 391 888  
F (62 778) 392 189



### Saudi Arabia

PO Box 10162  
Jubail Industrial City 31961  
Kingdom of Saudi Arabia  
T (966 3) 887 8953  
F (966 3) 887 8795



### Jakarta, Indonesia

Menara BCA 50th Floor  
Jl. MH. Thamrin No.1  
10310 Jakarta, Indonesia  
T (62 21) 2358 4426  
F (62 21) 2358 4401



### Thailand

168 Moo 5, Sumnaktorn  
Banchang District  
Rayong 21130, Thailand  
T (66 38) 695 565  
T (66 38) 695 573



### Malaysia

16 Jalan PJS 7/21,  
Bandar Sunway  
Petaling Jaya 46150,  
Selangor, Malaysia  
T (60 3) 5631 5370  
F (60 3) 5631 5378



### United Arab Emirates

Fujairah Free Zone  
Phase II Block E  
PO Box 5052, Fujairah  
United Arab Emirates  
T (971 9) 228 2450  
F (971 9) 228 2451



For enquiries, please contact:

ROTARY ELECTRICAL & INSTRUMENTATION T (65) 6866 0800 F (65) 6866 0994

[www.rotaryeng.com.sg](http://www.rotaryeng.com.sg)