

POWER, CONTROL & AUTOMATION

Design, Manufacture, Installation & Commissioning





Overview

The Electrical & Instrumentation Division of Hidayath Heavy Industry has been engaged in design and manufacture of world-class Low Voltage Switchgear solutions and products. Most of our products and solutions are internally used to augment our Process Equipment Manufacture.

As an integrated energy solutions provider, we produce Modular Wiring Solutions to Low Voltage Switchgear, Low Voltage Power Distribution, Protection and Control solutions as well as Control, Automation and Instrumentation services.

We deliver capabilities to transform from site-to-site to an integrated company management. Our integrated solutions are built with safety, reliability and cyber security for your homes, buildings, data centres, infrastructure and industries.





Chairman's Message

Dear Business Partner

As the Hidayath Group approaches its 45th anniversary, we are proud of our dynamic growth in architectural, industrial, and service industry. To achieve this growth, HIDAYATH has capitalized on select opportunities including strategic expansion, several discrete acquisitions and exciting forays into new geographic markets.

Our ambitions are to provide total solutions in stainless steel and allied metals across different industries and services. As part of our ongoing effort to further our presence across the globe, we are tirelessly developing solutions by offering expertise in design and support it with continuous life-cycle services.

Commitment to training our personnel, along with continuously upgrading and modernizing our equipment and methods cements further our relationship with our diverse clientele.

Going forward, as a business partner, our commitment is that H-IDAYATH Group of Companies will continue to strengthen its position as the premier solution provider in the existing markets and beyond.

We look forward to continuing to serve all your stainless steel and allied metal needs.

Sincerely,

Hidayatulla Abbas
Chairman Hidayath Group



Group Profile

Founded by Hidayatulla Abbas in 1976, Hidayath Group has emerged as a global enterprise providing world-class stainless steel and allied metal products and solutions to Architectural and Industrial sectors in addition to being an integrated electrical and instrumentation company manufacturing world class low voltage switchgear products, motor control centres and solutions for energy transmission.

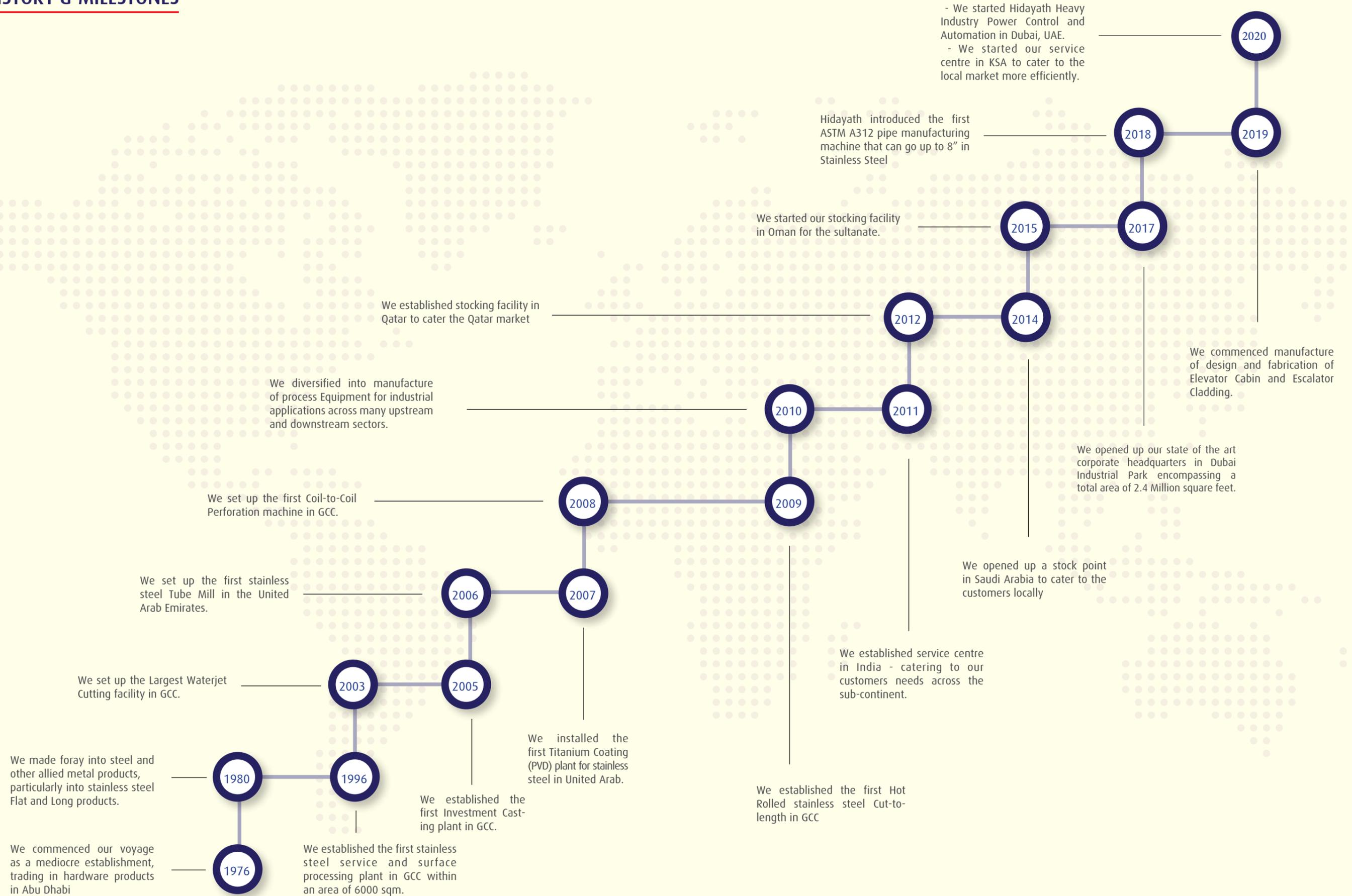
Headquartered in Dubai, UAE, the group operates in all emerging markets globally, with a mission to achieve global leadership as the complete solution provider in stainless steel and switchgear products.

Manufacturing, Material Supplies and Services form the core of Hidayath Group's business that commenced in Abu Dhabi four decades ago and today enjoys an enviable customer base in Architectural, Industrial and Energy sectors across all emerging markets world wide.

Our pragmatic growth is an attribute to our able leadership and a dedicated work force which understands and complies with the group initiatives and underlined objectives.

Going forward, the group continues to invest in training its personnel, technologically advanced machinery, strategic acquisitions and well planned forays into new markets.

HISTORY & MILESTONES



MAIN DISTRIBUTION BOARD (MDB)

Main Distribution Board up to 6300A

- Type tested (ASTA & UL) as per IEC 61439-1 (Major worldclass brands).
- Withdrawal & Fixed version.
- Safe and reliable system with properly engineered system for thermal rise, short circuit withstand, internal arc withstand and adequate corrosion protection from ambient conditions.
- Form-4, Form-2, Versions Custom designed.
- Designed and built with high quality breakers and ensuring customer satisfaction.

Applications

- Residential, Industrial, Malls, Hospitals, Hotels
- Seaports, Airports, Sewage, Desalination and Process Plants.



SUB MAIN DISTRIBUTION BOARD (SMBD)

Sub Main Distribution Board

- IEC 61439-1, compliant type tested up to 800A.
- Designed and Built as per customer requirement and technical limitation/ Optimization.
- IP rating IP-42, 54, 55, 65.

Application

- Industrial
- Residential
- Oil & Gas/ Process Plants/ Infra Structures



CAPACITOR BANKS

- Type tested, compliant with local/ International standard and as per IEC-61439-1
- Flexible, easy to install, maintain and operate.

CAPACITOR BANK

- Comprehensive solution for improvement of power factor using microprocessor based controller, detuned reactors, capacitors and switching contactors/ thyristors.
- Detuning frequencies from 135Hz to 215Hz
- Fully factory tested ready to install and plug in the power.
- Maintenance free for 3 years/ subject to installations and standards.

Advantages

- Protection against network pollution
- Advantage on utility billing
- Energy saving

Applications

- For all kind of electrical load



MOTOR CONTROL SYSTEM (MCC)

Variable Frequency Drive, Soft Starter, Star Delta Starter

Motor Control Centres

- manufactured as per IEC 61439-1 standard up to 6300A.
- integrity control and automation along with fixed and draw out version, user friendly.
- Integration with BMS, PLC, fire alarm systems, as per customer requirement.
- Convenient maintenance access and operational safe.

Application

- Industries
- Process Plants
- Hospitals
- Oil & Gas Industries
- Residential & Commercial Buildings / Malls
- Airports



MODULAR INTEGRATED TRANSPORTABLE SUB STATIONS

ATS and BYPASS Panels / Generator Control

- PLC logic and microprocessor based automatic transfer panels.
- High performance, safe and reliable
- Load manager, auto synchronization, with field control system

Applications

All Standby Operations at

- Hospitals
- Oil and Gas
- Airports
- Essential Loads
- Pumping Station



ELECTRICAL INSTRUMENTATION & AUTOMATION PANELS

Multi Disciplinary Engineering Team (Installation & Commissioning)

Electrical & Instrumentation

- FEED and EPC, detail CAD design of instrumentation and control system for oil and gas industry (offshore/ onshore)
- Review and preparation of PA & ID general arrangement, drawings, cable block diagrams, instrument locations, lookup cable routing with detail designing, SCADA, and telecommunication system.
- Troubleshooting during commissioning and check out process.
- Conduct engineering study and risk based analysis and make recommendation to improve the performance.
- Strategic development of instrument related working procedure.



RETROFIT SERVICES

Retrofit solution minimizes

- Waste
- Money (circular economy concept)
- Helps the environment by reusing/ recycling the products.

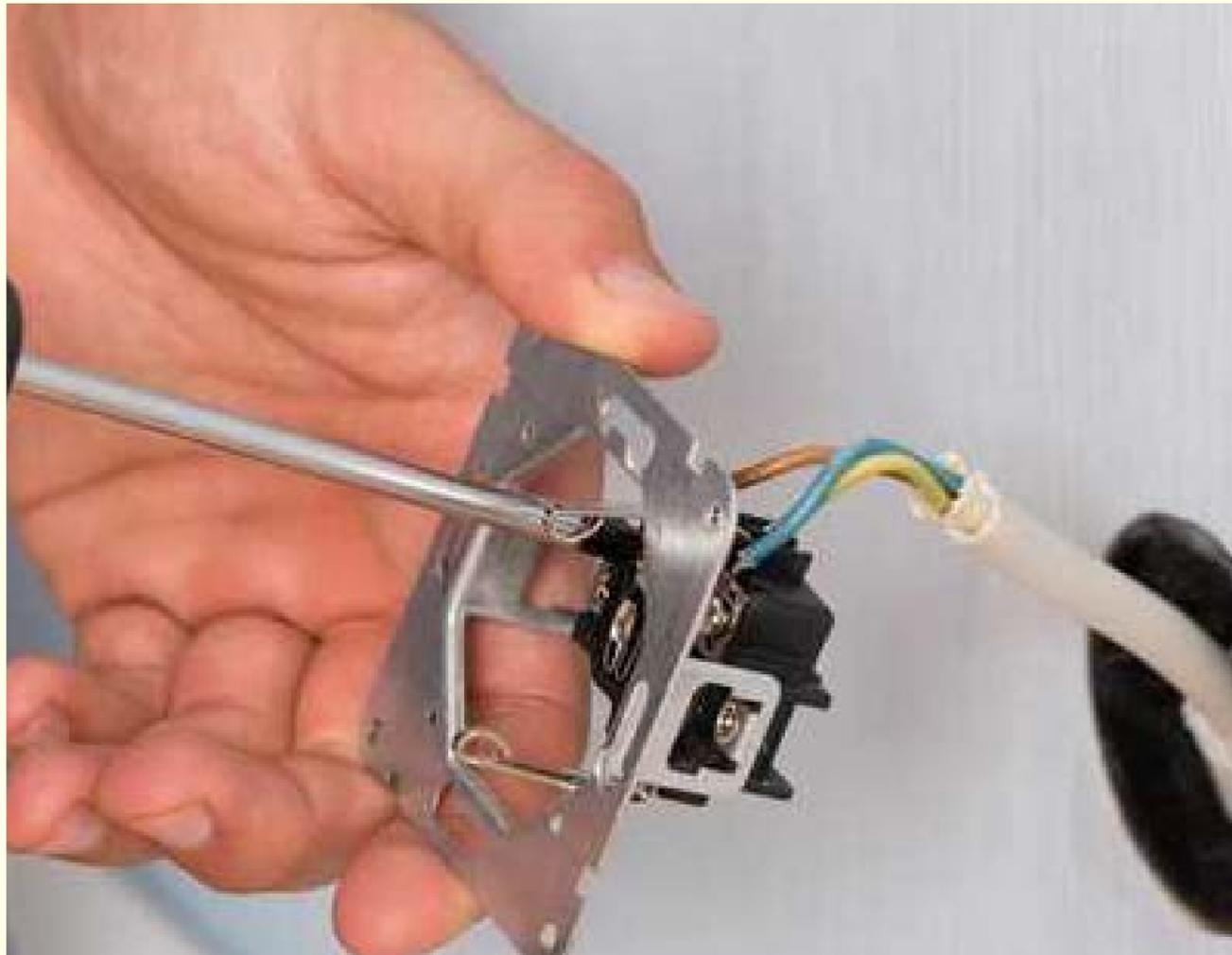
What we do

- Study the electrical and load distribution systems
- Highlight the problematic areas in the system
- Make the revised proposal along with electrical design system such that:
 - a. switchboards and accessories can be revised
 - b. obsolete components can be refurbished, repaired or recycled to minimize the waste.

We ensure that

- Life cycle of operational equipment is prolonged and less money is spent
- Our concept is 'RE'- reuse, refurbish, recycle, renew.

The cradle to cradle concept is achieved by our long lasting design using the 'RE' concept

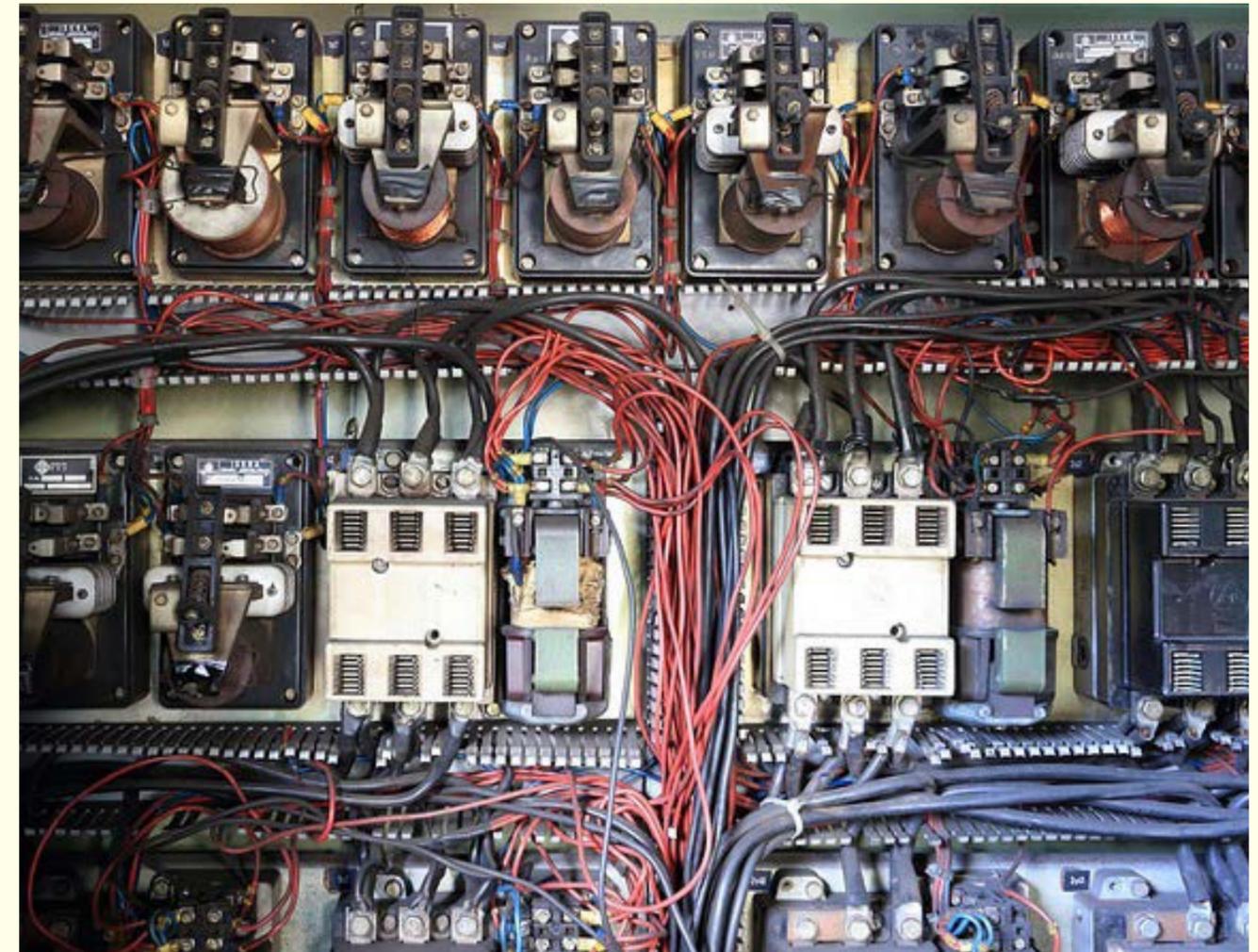


RETROFIT SERVICES

We can Retrofit/ upgrade / modernize

- All kind of switchgear
- Control panels
- Motor control centres
- Capacitor banks
- Frequency Drives
- Cable termination

All above is achieved using state of the art and life processes considering the stringent international and local regulations, considering the criticality of the processes affected in your industry.



RETROFIT SERVICES

Cost saving on retrofit solutions versus new installation can be furnished as per the following criteria:

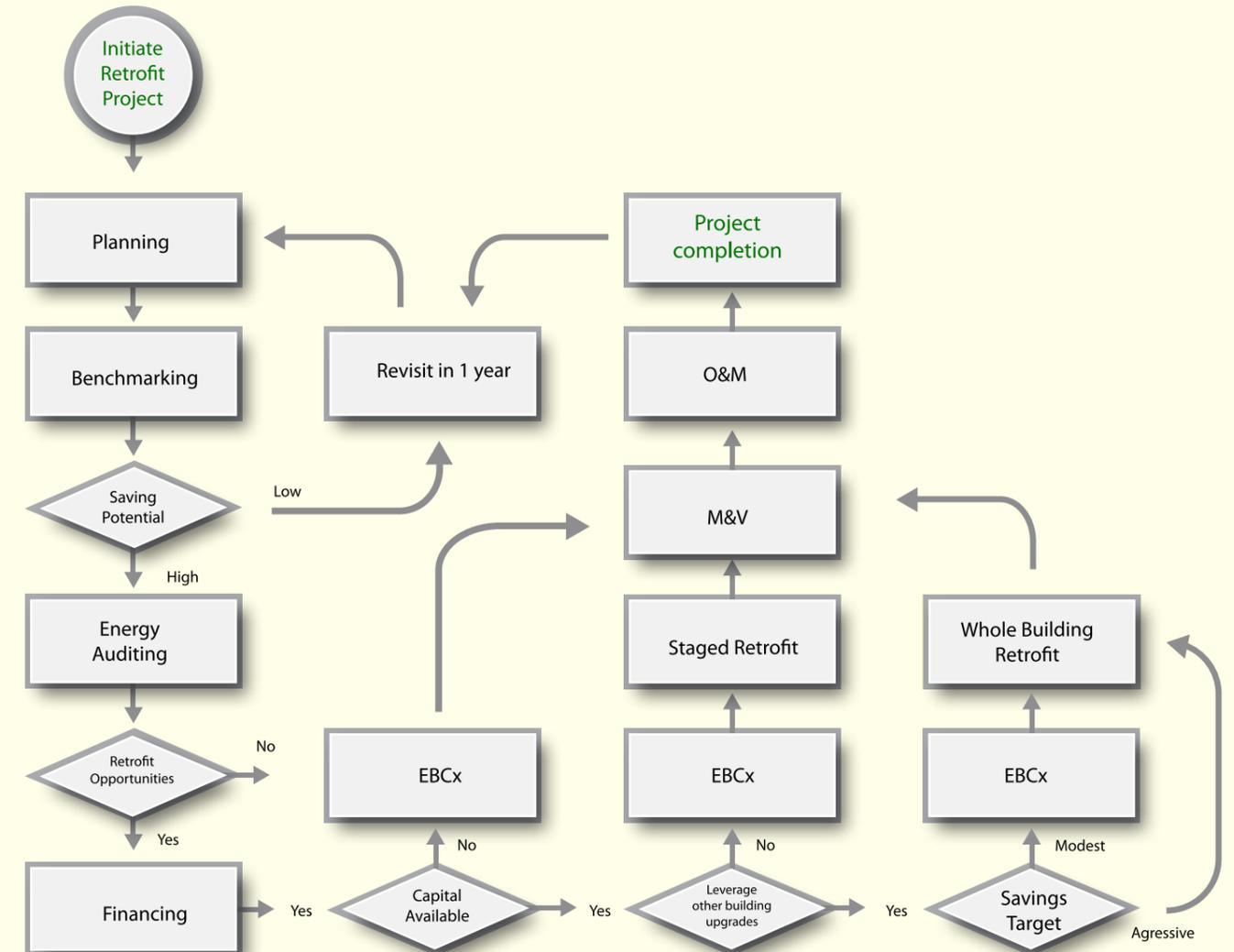
- Equipment Price
- Project Management Cost
- Civil Works
- Cable/ Wiring Cost
- Recycling Cost
- Commissioning Cost
- Training Cost
- Cost due to loss of Production
- Deep analysis using above data it is concluded that retrofit solution will cost upto 60-65% less than new installation.



RETROFIT SERVICES

How It works

- Conduct site visit and provide preliminary RE concept.
- Present the preliminary survey report of retrofit proposal
- Commercial proposal for preliminary design
- Commercial approvals for different stages.
- Complete survey in detail and proposal for discussion.
- Implementation programme
- Testing commissions programmes
- Handing over



KEY SECTORS



Commercial & Industrial Buildings



Gas & Leakage Monitoring Systems



Metal Processing Plant



Water Pumping Networks



Petrochemical Process Plant



Reverse Osmosis Plants



Schools & Hospitals



Oil & Gas Process Plants



Fuel Tank Farm Monitoring Systems



Energy Management System



Sewerage Treatment Plant



Military Projects



OIL & GAS

- *A60 Fire Rated Cabins*
- *3phase Well Test Separator*
- *Indirect Water Bath Heater*
- *90' Burner Boom*
- *Chemical Injection Pump Skid*
- *Well Head ESD Control Panel*
- *Chemical Injection Mini Package*
- *Gas Booster Package*
- *Pressure Test Pump*
- *Nitrogen Booster*



INDUSTRIAL CONSTRUCTION

- *HVAC System*
- *Electrical*
- *Instrumentation*
- *Fire And Gas System*



POWER ENERGIES

- *Engine Supply And Installation*
- *Generator Installation*
- *Transformer Installation And Testing*
- *Substation And Switch Gear Work*



E&I ENGINEERING

- *Electrical designing and site survey*
- *Instrumentation designing and site survey*
- *pneumatic logic control panel designing*
- *electrical control panel designing*
- *PLC micro logic control panel designing*



TRADING E&I EQUIPMENT

- *light fitting and small power equipment's*
- *E&I cables and accessories*
- *special type of field instruments*
- *pneumatic panel spare parts*
- *F&G equipment's*



MAINTENANCE & SERVICING

- *Engine servicing and maintenance E&I cables and accessories*
- *pneumatic control panel modification and servicing*
- *revamping for the E&I skid equipment's*

FIRE RATED CABINS

E&I Designing
HVAC Designing
F&G Designing
E&I and HVAC Material Supply.
E&I and HVAC Construction Work.
E&I and HVAC Commissioning
F&G Construction Work.
F&G Commissioning



FIRE RATED CABINS

E & I Designing
E&I Material Supply
ESD Panel Supply
Chemical Injection Pump
Instrument Tubing Work
Electrical Construction
Separator Pressure Test



WATER BATH HEATER

E&I Designing
E&I Material Supply
F&G Designing
E&I Construction
Testing and Commissioning For
2 Stage Burner And Water Bath Heater.
10k Psi Pressure Testing For Coil Pipe



WELL HEAD ESD CONTROL PANEL

The emergency shutdown control panel is used to generate signal to pneumatically control the hydraulic actuated flow head and other fail safe hydraulic actuated valve including SSV and SCSSV. ESD system is designed to remote or manually control in response to any leakage equipment fail or other emergency situation.

The panel consists of 30Ltr hydraulic oil reservoir, relief valve, pressure pump, bladder accumulator, pneumatic logical Relays & pressure gauge and 3 ESD logic included remote and local pull station, HI-LOW pilot & fusible bulb.

APPLICATION

All well test SSV valve shut down operations.

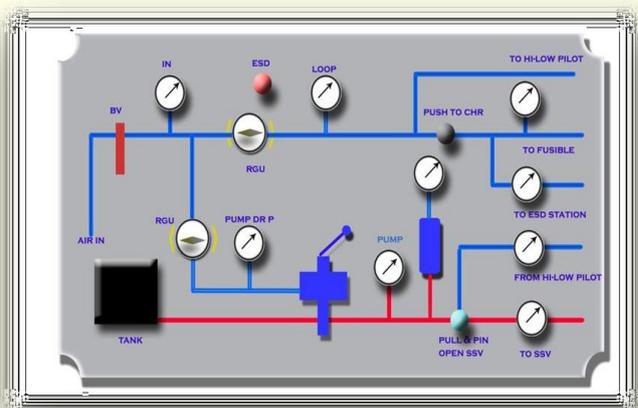
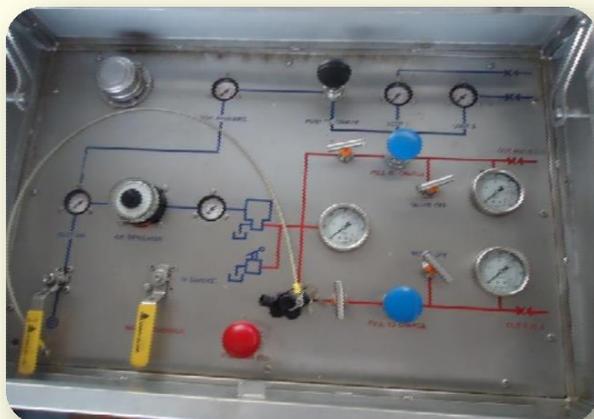
FEATURE

Operation area: class 1 Div. 1, group C and D
Skid and Enclosure; SS
Air Supply; Clean & dry air 100 to 200PSIG.
Hydraulic Circuit: 3000PSIG or 6000PSIG.
Hydraulic Pump: Manual & Pneumatic Type,

EXTRA ITEMS PRIOR TO ORDER

Pull station
SSV Hydraulic hose
Pneumatic air hose
Fusible bulb
HI-LOW Pilot

PANEL FRONT OPERATING VIEW



LATEST PROJECTS

Project: Oil transfer Pump Skid

Scope: Supply, installation, cabling, pump alignment work and testing for Exd pump soft starter panel

Number of Skid: 2nos



Project: Workshop container

Scope: Electrical design and supply of the (Exd DB, Light, socket cable and glands workshop container

Number of Package: 2nos



Project: Refurbishing well test package 1440 PSI

Scope: Supply and installation of Tubing work and all valves and instrument functional test.

Number of Package: 1nos



Project: 1440PSI well test Separator Package Trailer mounted

Scope: Design, Supply, installation and testing for the E&I.

Number of Package: 2nos



Project: Water bath heater

Scope: Design, Supply, installation and testing for the E&I System.

Number of Package: 2nos



Project: Filtration unit

Scope: Supply, installation and testing for the Electrical and Instrumentation.

Number of Package: 2nos



Project: 1440PSI well test DNV skid package

Scope: Design, Supply, installation and testing for the E&I.

Number of Package: 1nos



Project: oil and water booster and transfer skid

Scope: Supply, installation and testing for the Electrical and Instrumentation.

Number of Package: 3nos



Project: chemical injection skid

Scope: Construction work for Tubing and Electrical and Instrumentation.

Number of Package: 1nos



Project: Injection skid

Scope: Construction work for Tubing and Electrical and Instrumentation.

Number of Package: 8 no's



Project: Oil booster, Export and desalination skid

Scope: Supply, installation and testing for the Electrical and Instrumentation.

Number of Package: 3nos





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