

A Perfect Sync of EPESOL's acclaimed



DESIGN & CONSULTANCY



FIELD SERVICES



MANUFACTURING



Projects

A COMPLETE ONE-STOP SOLUTION TO YOUR NEEDS



EPESOL
P v t . L t d .

EPESOL.com

Our Unique Projects Completion Process



Protection Turn Key

FEATURES & BENEFITS:

EPESOL offers a unique end-to-end solution. Our Protection Turnkey solution is based on EPESOL's multifarious skill-set. We have the world's largest protection, control and automation product line from GE, Alstom and ABB. We also provide design & consultancy services backed by a gigantic experience of more than three decades. Our state-of-the-art manufacturing facility makes sure the quality remains the same throughout the project and end products qualify the whole project standards. The solution is perfect as our testing, commissioning and maintenance team - with a work presence in 11 countries - meticulously completes the project. This huge portfolio by a Pakistani corporate ensures a global standard solution.

OFFERINGS:

1. ENGINEERING DESIGN:

Our EHV, HV, MV & LV Engineering Unit overlooks this phase which includes three processes:

- *Interconnection Studies*; involving Load Flow, Short Circuit and Transient Stability Studies.
- *Base Design*; covering preliminary system specifications and selection of the most viable products.
- *Detailed Design*; for schematic & interconnection designs along with component settings calculations.

2. SUPPLY & MANUFACTURING:

- Pakistan's largest protection, control & automation portfolio as partner of GE Grid Solutions (including Alstom).
- LV & MV solutions including GE & ABB protection and control product line.
- Complete packaged solutions through our local manufacturing facility with adequate throughput.
- Strict QC procedure duly audited and supported by GE.
- Registered panel manufacturer under category M2 in the utility.

3. INSTALLATION & ERECTION

Complete installation & erection services in minimum time with top notch quality and long term efficiency.

4. TESTING, COMMISSIONING & START-UP

International work footprint on 3 continents & 11 countries under the guidance of GE as a sub-contractor assuring enduring operational performance, efficiency and dependability.

5. TRAINING & SUPPORT

With 'Training School' customers get trained on functionality, operation & maintenance of the solutions we offer.



Low/Medium Voltage Turn Key

COMMERCIAL • UTILITY • INDUSTRY

GE's product line for low voltage including MCBs, MCCBs, ACBs, RCCB, RCBOs, contactors and control products.

EPESOL's energy management and power distribution ingenious boards JuicePack.

GE's products for medium voltage including Switchgear, Circuit Breakers, PFI and

Reactive compensations, dry type transformers, capacitors, voltage regulators, surge arresters and other products of commercial, industrial and utility applications.

GE and Alstom's protection and control portfolio along with metering solutions, auxiliary transformers and lighting solutions.

Manufacturing of protection & control panels, switchgears, PFI panels, MCCs, control boards, DBs, electronics & related products

Testing for motors, VFD(variable frequency drives), PLC (programmable logic controllers), 3-phase inverter & soft starter, low power generator synchronization, CT, PT, breaker and PFI test, ATS

panel, cable testing and motor control centers (MCCs)

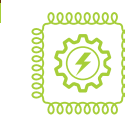
Commissioning activities of all types for the entire product line.

Studies of all types for plant interconnection, load flow, short circuit, harmonic, motor starting, protection coordination, ground grid, cable sizing and Automatic Load Shedding (ALS).



Retrofit Solutions

REPLACE • UPGRADE • FASTER



Safe Upgrade from electromechanical relay & control systems



Smart and compact relay & control solutions in terms of space



Increase in asset life resulting in cost efficiency and system reliability



Easily available after-sales and maintenance support 24/7

OFFERINGS:

1. INQUISITIVE STUDIES:

Thorough and detailed system studies are performed in order to find out the exact scope of project.

2. REPLACEMENT DESIGN

EPESOL offers a unique approach in this domain.

- Smooth & perfect transformation of old parameters to new ones, thus making the overall system same to maintain
- Whether the focus area is isolated or interfaced with the whole scheme, Design team covers all aspects, thoroughly
- Perfect transformation of old/incomplete schematics to new ones, thus easy to understand for the customers

3. DISMANTLING

EPESOL services engineers do the precise dismantling of required existing equipment to ready everything for next steps.

4. MODIFICATIONS

Precise modifications as per the drawings provided by Design are made into the existing system.

5. TESTING, COMMISSIONING & START-UP

Our Field Services is the sub-contractor of GE; the experience that makes it best suited for this job. We also provide 24/7 after-sales support and complete on-site training of the project done.



EPC Services

ENGINEERING:



Our Engineering portfolio covers a huge hemisphere. From initial design phase to extended and detailed phase all our engineering processes are governed by the experienced eyes of veteran engineers aided by latest design process monitoring techniques. We offer complete Plant Design including Mechanical, Civil and Electrical design, Process Design including detailed Piping design and Infrastructure design.

PROCUREMENT:



We have an experienced team on this task that ensures best sources for material and equipments according to the client requirements. This includes assessment of vendor's qualification, processes involved in import/export, documentation and logistics management. Electrical products are mostly procured of GE, Alstom and ABB as they are our principals.

CONSTRUCTION:



Our expertise expand to construction capabilities of the quality EPESOL is famous for. This include all sorts of Industrial and Commercial construction namely plant construction, relocation and up- gradation. We have experienced teams for civil, mechanical and electrical construction.

Our Signature Projects

<u>Voltage Level</u>	<u>Scope</u>	<u>Customer</u>	<u>Description</u>
18 kV	Protection Retrofit	Tarbela, Hydel	Generator Protection Retrofit
220 kV	Protection Retrofit	K-Electric	Distance Protection System Retrofit
6.6 kV	Protection Retrofit	Engro P&C	Generator Protection Retrofit
132 kV	Protection Retrofit	K-Electric	High Impedance Busbar Retrofit
13.8 kV	Protection Retrofit	FFBL	Generator Protection Retrofit
11.5 kV	Protection Retrofit	Uch Power	Generator Protection Retrofit
15 kV	Protection Retrofit	Liberty Power	Generator & Transformer Protection Retrofit
132 kV	Protection Turnkey	Jinnah Hydro	Line Differential & Over Current Turnkey
220 kV	Protection Retrofit	K-Electric	Transformer Protection Retrofit
220 kV	Protection Turnkey	NTDC	NTDC - Guddu Line Differential Turnkey
11 kV	MV Turnkey	AES Lalpir	Power Factor Improvement plant Turnkey
6.6 kV	MV Turnkey	OMV - Sawan	Generator Load Shedding Scheme Turnkey
6.6 kV	MV Turnkey	SABA Power	Power factor improvement plant Turnkey



Partner
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