



# Field Services

A brand acclaimed worldwide!



With dynamic and experienced team of Protection & Power System testing, EPESOL proudly offers its FIELD SERVICES. Our expertise of field service solutions spans from Low Voltage (LV), Medium Voltage (MV), High Voltage (HV) and Extra High Voltage (EHV) power systems to Protection & Control systems, power transformers, generators, motors and switchyard equipments.

- We are sub-contractor of General Electric, USA for International Testing & Commissioning Projects
- We have joint venture (JV) for field services with AJEC in Kingdom of Saudi Arabia



**EPESOL**  
P v t . L t d .



**AJEC.**



# Field Services !

Bringing the Best

## Field Services Portfolio

EPESOL's field services portfolio covers a huge area of your growing needs and demands which now have a solution.

- Substations Protection System
- SS & Power Plants Control System
- Switchyard Equipments
- Fault & Event Recording System
- Teleprotection & Telecom Solutions
- AC & DC Systems
- MV & LV Industrial Installations
- Motors & Generators



## Testing Equipments

We are equipped with the following state-of-the-art testing equipment and test sets

- Freja 300 for three phase secondary injection testing
- CA3 for high amplitude injection testing
- Doble F6150 for six phase secondary injection testing
- Severker 760 for single phase secondary injection testing
- Breaker TM1600 for breaker testing
- BM25 for impedance testing
- MOM 600 for conductivity testing
- Kikusui 5100A11 for hipot and insulation resistance testing
- TTR for transformer turn ratio testing
- GE - Kelman Transport X for transformers' Dissolved Gas Analysis and moisture



# International FS Projects !

A Future with Vision

We are successfully performing field services in:



Pakistan



Malaysia



Iraq



Nigeria



Qatar



Yemen



UAE



Saudi Arabia

# FS for Transformer M & D !

They too need health check

For the first time in Pakistan, EPESOL introduces on-site services for transformer monitoring and diagnostics mainly Dissolved Gas Analysis or DGA, now in just 27-30 minutes you can have a complete assessment of your transformer.

Our highly trained and experienced field services engineers are already in field, giving DGA services at various sites in Pakistan as well as abroad.

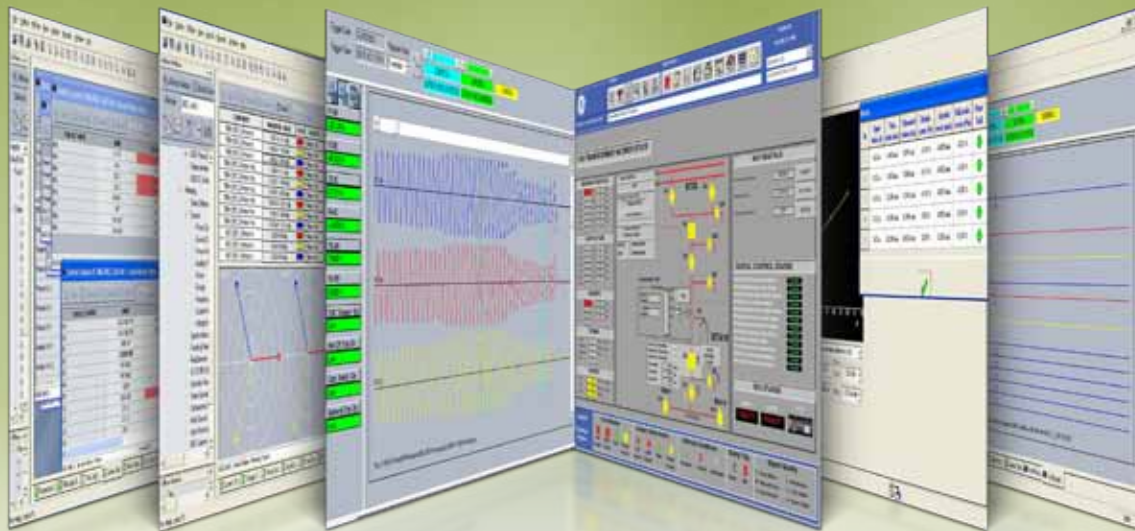
# Our Signature FS Projects

## International Projects

- 2007
  - ✓ Testing of Generator, Transformer & Feeder Protection Relays at ADCO, Abu Dhabi, U.A.E
  - ✓ Commissioning of three Generator, & Transformer Protection panels at PETRONAS, Malaysia
  - ✓ Commissioning of Generator Protection and Control Panels at NLNG, Nigeria
  - ✓ Commissioning of Generator Protection & synchronizing panels at OMOKU, Nigeria
- 2008
  - ✓ Testing of Generator, Transformer and Feeder Protection Relays at QAFCO, Qatar
  - ✓ Commissioning of Generator, Transformer and Feeder Protection Relays at RAS Laffan, Qatar
  - ✓ Testing of Generator, Transformer, Motor, Feeder Protection Relays at YLNG Bal-Haf, Yemen
  - ✓ Commissioning of Generator, Transformer and Breaker Protection Panels at 230 kV SWCC, KSA
- 2009
  - ✓ Commissioning of Generator Protection panels at PETRONAS Power Plant, Malaysia
- 2011
  - ✓ Implementation of relays setting configurations against each MCC in Qatar
  - ✓ Relay settings configuration and testing of protection relays for Gas Turbines in Oman, Muscat
  - ✓ Installation & Commissioning of Motor Control Centers in Dukan, Qatar
- 2012
  - ✓ Testing of Bay Control for MV Switchgear at Bu-Hasa, Abu Dhabi, U.A.E
- 2013
  - ✓ Modification, installation and testing of generator protection panels at AL-KHAIRAT, IRAQ
  - ✓ Testing and modification of generator protection panels at Al-Khairat Karbala, IRAQ
  - ✓ Testing and modification of generator protection & panels at Nainwa Power Plant, IRAQ
  - ✓ Testing and modification of generator protection panels at Al-Qudus Baghdad, IRAQ
- 2014
  - ✓ Replacement of transformer, generator, motor & feeder protection relays at Khurais, KSA
  - ✓ Commissioning of protection & control panels at ENKA LUKOIL Power Plant, IRAQ
  - ✓ Commissioning of generator protection at WQII project, Iraq
  - ✓ Testing of protection relays at Rastawsa, Ju'aymah and Shedgum, KSA
  - ✓ Replacement and testing of protection relays at Safaniyah site, Aramco, KSA
  - ✓ Replacement and testing of protection relays at Abqaiq site, Aramco, KSA
  - ✓ Commissioning of protection relays at SWCC, Shauqaiq, KSA

## Projects Within Pakistan

- 2005
  - ✓ Testing of Protection Relays for steam turbine and transmission Line at Saba Power Plant
- 2006
  - ✓ Testing of Electrical Protection Relays for gas turbine units at 132 kV Liberty Power Plant
- 2009
  - ✓ Commissioning of Generator Protection and synchronizing system at Engro Chemicals, Dherki
- 2011
  - ✓ Installation and Commissioning of Line Differential Panels at Janah Hyrdo
  - ✓ Installation & commissioning of Generator Protection Type G60 at UCH Power plant
  - ✓ Testing of Current, Voltage and Frequency Transducers at 132kV Orient Power Balloki
  - ✓ Installation and Commissioning of Control panels for 79MVA Power Transformer at Tarbela
- 2012
  - ✓ Testing of Transmission, Generators, Motors and Auxiliary Transformers at Saif Power Plant
- 2013
  - ✓ Commissioning of Online Dissolved Gas Analyzers type Transfix for Transformers in Zorlu, Sindh
  - ✓ Dissolved Gas Analysis of Transformer Oil for Transformers in Liberty and Nishat
  - ✓ Event Recorder/Fault Recorder Panels Commissioning in IESCO
  - ✓ Testing of all Protection relays at AES (Lalpir) Power Plant
- 2014
  - ✓ Testing of transformers at AES (PakGen) Power Plant
  - ✓ Up gradation of DGP protection relays at TNB Liberty Plant
  - ✓ Testing of all Protection relays at AES (PakGen) Power Plant
  - ✓ Commissioning of Low impedance bus bar protection at 220kV KDA



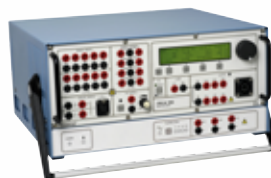
## An Inventory that marks a difference...



Doble F6150



Megger BT51



Freja 300



Transport X



Sverker 780

Our smart post-testing reports beautify the very essence of whole process of testing by providing numerous insights of the system. These reports highlight the discrepancies in many aspects of power system behavior incurred during testing and recommend smart remedial measures based on proven experiences thus surpassing conventional reporting systems.



Al-Jazirah Engineers and Consultants (AJEC) is a leading engineering firm with head office in Riyadh while working in Damam, Jeddah and other parts of KSA. It was established in 1981 to cater the need of enterprises, principally in the energy sector and actively involved in distribution network and substation projects of 380 and 230 kV. EPESOL has entered into Joint Venture (JV) for Field Services with AJEC. EPESOL's delegation led by CEO, EPESOL (Pvt) Ltd., Mr. Akhlaq Ahmad inked the details with AJEC Director General, Mr. Khalil Abdul Karim Al-Farih and launched Field Services team to perform services in KSA for SS and PP testing and commissioning.



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