



## **INEL POWER SYSTEM ENGINEERS (P) LTD**

(AN ISO 9001 : 2015 CERTIFIED ORGANISATION)

### ASSOCIATE COMPANIES

## **INEL POWER ELECTRO MECHANICAL L.L.C.**

(AN ISO 9001:2015, & OHSAS 18001:2007 CERTIFIED ORGANISATION)



## **INTERNATIONAL CONTROLS CONTRACTING ELECTRICAL WORKS LLC**



## **AL SARIYA POWER SOLUTION (L.L.C)**

### **OUR VISION**

*To excel in the  
POWER SECTOR*

### **OUR MISSION**

*Providing  
Engineering & Site Solutions  
in a Healthy Environment,  
Conforming to the Highest Degree  
In terms of Quality, Time & Safety*

### **OUR POTENTIALS**

*Excellent Quality Related Engineering Services  
Expertise & Experience in Testing & Commissioning  
Operation & Maintenance of Plant Electrics  
Approach to Jobs as per International Standards*



A fast growing, quality oriented engineering group Carrying on the business in two segments as Turnkey engineering project contracting and services of electrical systems upto 400KV. Serving the clients in the field of Power, O & G, Steel, Cement, Sugar and Infrastructure Covering Government, public & private industries in India & The Middle East with total manpower strength of 400+ trained Engineers & Technicians.

## **INEL POWER SYSTEM ENGINEERS (P) LTD** (An ISO 9001:2015 Certified Organisation)

Incorporated under the companies Act, 1956 by the "Registrar of Companies" Tamil Nadu under the "Ministry of Corporate Affairs", Government of India and having the Registered Office at Chennai. The existing partnership firm "Power System Engineers" operations were transferred to this new entity, in the year 2003 with four Directors having field Experience of over 23 years, to back its operations and also to carry its services overseas, with their vision and goal unswerving.







## ASSOCIATE COMPANIES

### **IP INEL POWER ELECTRO MECHANICAL L.L.C.**



*Incorporated as a Limited Liability Company under the Department of Commerce, Ministry of Company Affairs, UAE, in the year 2007 and Located in Dubai, to extend our service to the clients in The Middle East, in time with fulfilling the local Government requirements .*



### **S AL SARIYA POWER SOLUTION (L.L.C)**

*Incorporated as a Limited Liability Company under the Department of Commerce, Ministry of Company Affairs, UAE, in the year 2011 and Located in Dubai, to extend our service to the clients in The Middle East, in time with fulfilling the local Government requirements .*

### **ICCEW INTERNATIONAL CONTROLS CONTRACTING ELECTRICAL WORKS LLC**

*Incorporated as a Limited Liability Company under the Department of Commerce, Ministry of Company Affairs, UAE, in the year 2012 and Located in Abudhabi, to extend the testing services to the clients in Abudhabi region.*



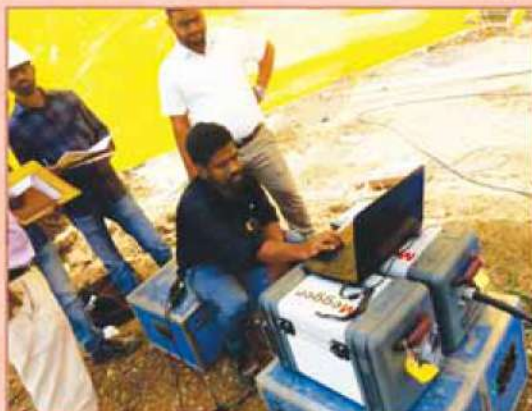
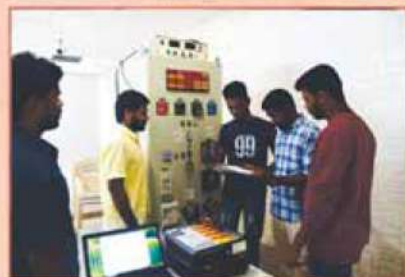
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### Our activities

- ★ Testing & Commissioning
- ★ Operating & Maintenance
- ★ Annual Testing Contract
- ★ Annual Maintenance Contract
- ★ Switch gear services
- ★ Retrofit
- ★ Refurbishment & Modernisation
- ★ QC Testing
- ★ Authorized Service Center
- ★ Supply of Manpower
- ★ Advance Testing Services
- ★ Training
- ★ Third Party inspection & Certification
- ★ Protection Engineering
- ★ Transformer oil filtration & Testing



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## TESTING FACILITIES AVAILABLE

- ☞ Programmable Automatic 3 Phase Numerical Relay Test Kit - OMICRON / MEGGER / ISA
- ☞ Single Phase Automatic / Manual Relay Test Kit - MEGGER / ISA / SUDHARSUN
- ☞ Automatic HV Capacitance & TANDELTA Kit to Test Power Transformer, Generator, CT & PT MEGGER & ELTEL
- ☞ SFRA - Sweep Frequency Response Analyser to test the Power Transformer - MEGGER
- ☞ Transformer Winding Resistance Meter with 10ADC Source. - ELTEL
- ☞ Transformer Turn Ratio Meter / Oil Test Kit - ELTEL / AE
- ☞ Transformer Oil Filtration machine and BDV Test kit - AE
- ☞ Primary Current Injection Test Kit up to 2000A for CT Ratio Test - MEGGER / SUDHARSAN
- ☞ 3 Pole / 1 Pole time Interval Meters for Circuit Breaker Timing Test - SCOPE
- ☞ Battery / Operated Digital Insulation Resistance Tester upto 10 KV - KYORISTU / MEGGER
- ☞ Battery / Operated Digital Soil Resistivity Test Kit - KYORISTU
- ☞ 3 Phase Energy Meter Test Kit for Energy Meter Testing - GYRO
- ☞ On Line Energy Meter calibrator - KYORISTU / SECURE
- ☞ On Line Power Analyzer to Check LV / MV System Load Details
- ☞ DIGITAL SOUND LEVEL METER - LUTRON
- ☞ 60 KVAC / 70 KVDC Hi Voltage Test Kit for Testing of HV Panels / Cables upto 33KV System - ELSYTECH
- ☞ Digital Multi meters & AC/DC Clamp on Ammeters - KYORISTU / FLUKE / LUTRON / RISHABH / MOTWANE
- ☞ Static Phase Shifter - SUDHARSAN
- ☞ Contact Resistance Measurement (Micro ohm meter) with 100 ADC Source - SCOPE & ELTEL
- ☞ DIGITAL LCR Meter (KUSAM - MECO / CLASSIC)
- ☞ Kelvin's Double Bridge - SUDHARSAN
- ☞ Distance Relay Test Kit Type ZFB - AREVA
- ☞ DC Power Source - (CIRCUIT CAP) & IPSE
- ☞ Phase Sequence Indicator - AE
- ☞ DIGITAL TACHO METER (CONTACT & NON CONTACT TYPE ) - LUTRON








### CEIG Registrations

Tamil Nadu - Contracting License	- ESA 263
Tamil Nadu - Testing	- ELEC / TEST / APPROVED / 2003 / 5
TELANGANA CEIG License	- CEIG / TS / OTK - PRT NO.9
TELANGANA - Class "A" Grade License	- No. A-1-1129/4055
Andhra Pradesh	- APCPDCL-O&M CLASS-1, No-5024
Karnataka CEIG License –Testing	- CEIG / ACE II / EI(L) / 14567-71/19-20
Karnataka-Super Grade Contracting License	- No. SGL123073BNG
Maharashtra-Contracting License	- 26650



### Credentials

**SIEMENS- Kalwa Works - QC Testing of Control & Relay Panels at Factory**

**L&T-Independent Authorised Service Centre of  Products in Tamilnadu**

### Memberships

**MSME No. 33002 22 10130 - Part - II Small**  
**NSIC REG NO : NSIC/GP/NTC/2015/0019850**  
**The National Chamber of Commerce, India**  
**The National Safety Council, India**  
**The Institution of Electrical Technology, UK**

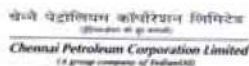


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## PRESTIGIOUS CLIENTS







## AUTHORISED SERVICE CENTRE of L&T SWITCHGEAR Products in Tamil Nadu

We have been authorized by **LARSEN & TOUBRO LIMITED**, One among the world's Major Manufacturer of Switchgear Products, as service provider for their MV/LV products in Tamil Nadu since the year 2007. Our team has Qualified / Experienced Engineers / Technicians with proper training at L & T - Training Centres to upgrade their knowledge of latest products.

### Our Activities :

- Supply of Spares
- Preventive Maintenance
- Testing of Relays & Switch gear
- AMC (Annual Maintenance Contract)
- Overhauling and Servicing
- Retrofitting and Modernization
- Trouble Shooting

#### Contactors



#### Starters (Industrial and Domestic)



#### Electronic Metering Devices



#### Change Over Switches & Switch Fuse Units



#### ACB - C Power



#### Digital Protective relays & Electromagnetic Relays.



#### SFU



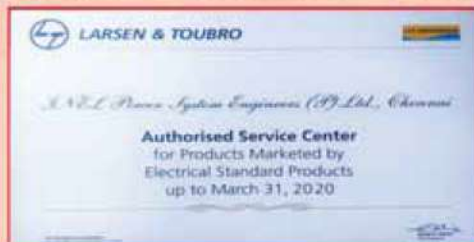
#### ACB - U Power Omega



#### Molded Case Circuit Breakers(MCCB)



#### AC Drives Solution



#### Vacuum Circuit Breaker(VCB)



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## ADVANCED TESTING SERVICES DIVISION - (ATSD) BANGALORE

### SERVICES

**INEL POWER** – An **ISO 9001-2008** certified organization committed to continuous improvement in testing standards, by adopting the latest technology driven Testing Equipments & System to cater the growing Advancement in the power generation, T&D Equipments, to the satisfaction of our customers.

**ATSD** – Bangalore undertaken Precommissioning Testing, Commissioning Periodical Preventive maintenance testing, Trouble shooting and Residual life Assessment testing of field equipments life, Relays, Transformers, Switchgears, Generators, Motors etc., with advanced testing equipments and well experienced Electrical Engineers to handle both testing & Field equipments.

### CIRCUIT BREAKER ANALYSER SYSTEM

TM 1720 of Megger, USA for Testing of HV/EHV Circuit Breakers in the Energised noisy substations to measure  
Operating Time / Motion / Coil Current / DRM / Vibration etc.,



### AUTOMATIC THREE PHASE RELAY TEST KIT



CMC256 Plus & CMC 356 of OMICRON, AUSTRIA for Testing of all types & makes of Protection Relays from Electromagnetic to the Communicable Numeric Relays and Meters.





## ADVANCED TESTING SERVICES DIVISION - (ATSD) BANGALORE

### FULLY AUTOMATIC 12KV INSULATION POWER FACTOR / TANDELTA TEST SET

DELTA 4110 of Megger, USA for condition Assessment of Electrical Insulation in HV apparatus such as Transformers, Bushings, CT, VT, Circuit Breakers, Lightning Arrestors, Cabels & Rotating machineries.



### ONLINE ENERGY METER TESTING KIT



Accucheck LT+ of Secure, INDIA to test the Energy meters online without shutdown/disconnection of power.



### SWEEP FREQUENCY RESPONSE ANALYSER (SFRA)



FRAX99 of Megger,USA for detecting Potential Mechanical and Electrical problems that other methods are unable to detect in the Transformers.



### DEW POINT MEASUREMENT KIT

VD82-H2 of VASTHI ENGINEERS, INDIA for Testing the SF6 gas in the Circuit Breakers.







## TRAINING

### INEL POWER ACADEMY – (IPA)

Bangalore Provides hands on Training of these testing equipments to the needy experienced electrical engineers to upgrade knowledge in handling this special equipments and fresh graduate engineers to improve their employability skills, to be able to cater the needs of ever growing power sector.

**IPA** - Bangalore has set up testing laboratory at their office to demonstrate the field equipments testing with advanced testing equipments to impart hands on training with well experienced engineers.

#### AUTOMATIC THREE PHASE RELAY TEST KIT



SMRT 410 of Megger, USA for Testing of all types & makes of Protection Relays from Electromagnetic to the Communicable Numeric Relays and Meters.



#### TRAINING ON C&R PANEL TESTING



#### 5 DAYS TRAINING MODULE FOR FIELD ENGINEERS

To Enhance practical experience in Testing Field Electrical Equipment, using simulators at our lab.

Experience gained during this training program will give

- ◀ Confidence to handle various Electrical Equipment at site.
- ◀ Enhance fault analysing ability
- ◀ Supervisory skills to Engineers during new plant testing & commissioning and preventive maintenance testing of plants in operation.

Opens opportunities for Electrical Engineers / Technicians to improve job profile.

#### 4 WEEKS TRAINING MODULE FOR FRESHERS

- ◀ Acquire **Theoretical Knowledge & Practical Experience** in electrical equipments. Understanding their principal, application, construction & testing requirements.
- ◀ Knowledge gained during this training program will
  - ◀ Enable selecting Core Electrical Engineering as career option.
  - ◀ Improves Job Opportunity - by good performance in interview.
- ◀ Simulator at our lab depicts actual work condition and will provide hands on practical experience.
- ◀ **Electrical testing & Commissioning Engineers and Protection Engineers** are always in great demand. This program will aid in getting selected for such jobs.

**INEL POWER ACADEMY**

Duration : One / Two / Three / Four / Five Days

Timings : 2.5 hours x 2 sessions per day

10.30 am to 1.00 p.m & 2.00 p.m to 4.30 p.m



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## DUBAI METRO ROUTE 2020



ALSTOM TRANSPORT SA, 48 rue Albert Dhalenne-93400 Saint Ouen, France acting through its Branch in Dubai (United Arab Emirates ) awarded us the Prestigious Project for Testing and Commissioning Services of THE ROUTE 2020 METRO in May 2018.

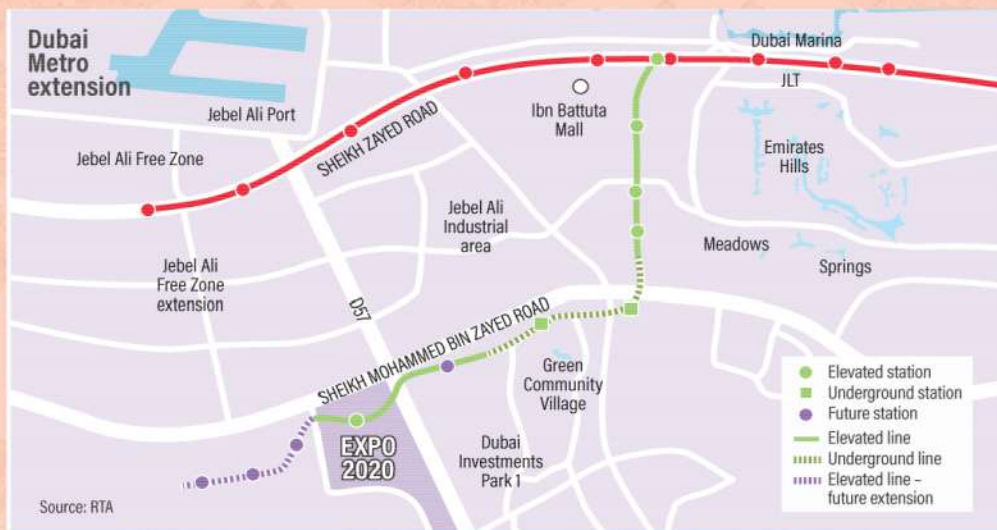
This Prestigious Project consists of the 15 km branch starts at Nakheel Harbour & Tower on the existing Red Line, then run on 11.8 km of viaduct with stations serving The Gardens, Discovery Gardens and Al Furjan. The stations at Jumeirah Golf Estates and Dubai Investment Park would be on a 3.2 km underground section, before the terminus at Expo 2020 site.



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#### Enhancement Metro Stations

EMIRATES TOWER
ABU HAIL
Dubai Internet City
Emirates
Al Nahda
Emirates Head Quarters
Oud Metha
Jebel Ali Depot
Rashidiya Depot
Al Qusais Depot

#### Enhancement Metro Stations Scope

TPS	33KV GIS New Switchgear (33Kv-1250A-50Hz)
TPS	2300 KVA 33kV/ 413V/ 465V HESOP transformer
TPS	2700 KVA 33kv/ 2x585v rectifier transformer
TPS	750 VDC 10000 A Traction Protection Board TPB
TPS	750 VDC Traction Distribution Board TDB
TPS	2500 KW rectifier units + Negative automatic isolating switches
TPS	Filter Units and self inductance
TPS	Negative panel + OVPD + stray current drainage
TPS	AC/DC distribution boards
TPS	Blue Light Stations
TPS	ACC,ETS, and automation integration



### Extension Metro Stations

R38-NHTMS
R70
R71
R72
R73
R74
R75-ITPS
R76-EXPO MS
BOOSTER EXPO MS
NEW SWITCH ROOM

### Extension Metro Stations Scope

TPS	33kV GIS New Switchgear (33kV-1250A-50Hz)
TPS	3500 KVA 33kv/400v auxiliary transformers
TPS	3150 KVA 33kv/400v auxiliary transformers
TPS	2500kVA 33kV/400V auxiliary transformers
TPS	1500kVA 33kV/400V auxiliary transformers
TPS	500kVA 33kV/400V auxiliary transformers
TPS	2300 KVA 33kV/ 413V/ 465V HESOP transformer
TPS	2700kVA 33kV/ 2x585V rectifier transformer
TPS	750Vdc 10000 A Traction Protection Board TPB
TPS	750Vdc Traction Distribution Board TDB
TPS	2500kW rectifier units + Negative automatic isolating switches
TPS	Filter Unit
TPS	Negative panel + OVPD + stray current drainage
TPS	Hipot Testing of 33KV Cables
TPS	Remote End to End between MPS Station and Metro Stations.
TPS	AC distribution boards
Line/TPS	Blue Light Stations
TPS	ACC,ETS, and automation integration
TPS/Line	LIS (Line insulating switch)

