



الشركة الوطنية للصناعات الكهربائية ش.م.م  
NATIONAL ELECTRICAL INDUSTRIES CO. L.L.C



NATIONAL ELECTRICAL INDUSTRIES CO. LLC.  
Manufacturers of Switchgear Assemblies  
and Switchgear Components

[www.neioman.com](http://www.neioman.com)



**THE ALI MIRZA  
GROUP OF COMPANIES**

“ALI MIRZA” group of companies was established in 1974 with corporate office at Muscat, Sultanate of Oman. Our philosophy in business is to ensure total customer satisfaction and dependable performance and this is achieved through total quality management by our team of highly dedicated and professional employees. Our area of business activities are in to Contracting, Manufacturing, Trading and Travel & Tourism.

Following are our group companies and their activities.

<p><b>TRADE LINKS &amp; SERVICES CO. LLC.</b></p> <p>Specialised Traders in Electrical and Mechanical goods. Contractors in the field of utility substations, maintenance, etc...</p>	<p><b>NATIONAL ELECTRICAL INDUSTRIES CO. LLC.</b></p> <p>Manufacturers of Switchgear Assemblies and Switchgear Components</p>	<p><b>CHAINLINK FENCING CO. LLC.</b></p> <p>Manufacturers of Chainlink Fencing, Fencing Systems, Gabion Boxes &amp; Mattresses, GI &amp; PVC Coated Wires.</p>
	<p><b>OMAN PLASTIC INDUSTRIES LLC.</b></p> <p>Manufacturers of Polyethylene Bags &amp; Sheets, Disposable Plastic Cups, Bowls and BOPP Adhesive Tapes.</p>	<p><b>FAHAD EXPRESS TRAVEL AND TOURISM</b></p> <p>IATA approved agency in the field of corporate and recreational travel</p>



**NEI PROFILE**

NEI is a 100% Omani company established in 1997 and is a manufacturer of electrical switchgear products covering a wide spectrum of applications in power distribution, instrumentation, and control equipment. The switchgear products employ the latest technology in product design and engineering and are built in one of the most sophisticated and technologically advanced plants in the Sultanate of Oman.

The manufacturing facility is located in a two-level building with a built-up area of 1500 sq. m at Mabella, Muscat, Oman. NEI has excellent capability to design and produce low and medium voltage panels conforming to the latest IEC & Oman Electrical standards and requirements of the clients.

NEI is expanding its capacity in terms of product portfolio, production facility, as well as manpower and machinery. NEI employs a large pool of local workforce who are trained in institutes before they join NEI, and later they are sent to refresher courses. NEI also employs a large team of local Omani women who are similarly trained; this is in line with the country's vision of women empowerment. NEI is the first in Oman of its kind employes Omani women as Technicians. Team NEI currently has strength of 175 personnel which qualified engineers, designers, and experienced technicians.

NEI switchgear assemblies are approved by various bodies such as Nama Distribution, Nama Water and wastewater, Royal Court Affairs, Ministry of Defense, Petroleum Development Oman (PDO), Ministry of Education, Ministry of Health, Ministry of Regional Municipalities and Environment, Ministry of Tourism, Ministry of Civil Aviation etc. and with all major consultants and end users in Oman.

In 1998 NEI expanded its activities to manufacture switchgear components, the first of its kind in the Sultanate of Oman. This division has state-of-the-art technology to manufacture a wide range of switchgear components. The company manufactures Moulded Case Circuit Breakers (MCCBs), Miniature Circuit Breakers (MCBs), and Earth Leakage Circuit Breakers (RCCBs) offering high performance, compactness, versatility, excellent reliability and overall economy.



Latest microprocessor-controlled test equipment with multiple parameter data capture features are used for calibration and Quality Assurance of switchgear.

Close control of the manufacturing process and rigorous testing procedures ensure that the switchgear products are of the highest quality. NEI switchgear products conform to relevant IEC and OES standards and are tested at renowned laboratories in Europe.

Located in the Sultanate of Oman, NEI products provide an impetus to the switchgear assembly industry in the Middle East through easy availability of quality switchgear products.

## Mission

To provide appropriate solution in the spectrum of switchgears by understanding the requirements, comply with international and local standards, select the most reliable components and combining technical expertise and state of the art facilities.

To focus on customer satisfaction in terms of quality and reliability by creating a professional, ethical, safe and environment friendly work atmosphere.

## Vision

Strive to play a key role in "Energizing the future" with our wide range of solutions, quality and reliability of the products and services in line with Vision 2040 of Sultanate of Oman.

## Quick Facts About NEI

- ◆ Established in year 1997, 100% Omani company.
- ◆ Located at Mabella Sanaya in Muscat.
- ◆ 5,950 Sq Mtr of land area; 3,750 Sq Mtr of built-up area; 2 production floors for main building and 655 sq mtr for annexure
- ◆ One of the largest manufacturers of switchboards in Oman
- ◆ Annual production capacity of 1200 form 4 columns and 12,000 form 2 columns.
- ◆ Widespread installed base: NEI products supplied to all market segments: Utilities, O&G, Power, Water, Buildings, Airports, Seaports, other Infrastructure segments.
- ◆ Approved by all major ministries, consultants and end users.
- ◆ Franchised Channel Partner of Schneider Electric for more than two decades. Certified EcoXpert LV Panel and Digital Panel builder.
- ◆ NEI is also a certified SERVICE partner of Schneider Electric in Oman.

# Core Competencies

- ◆ Professionally managed organization.
- ◆ World class manufacturing facilities.
- ◆ Known for Quality & Reliability.
- ◆ Process oriented & Structured Organization.
- ◆ Offers tailor-made Switchgear solutions to a wide spectrum of end users.
- ◆ 24x7 Quality Assurance & Customer Service Support teams providing service.
- ◆ Organization runs on a Centralized ERP system.
- ◆ Certified for ISO 9001:2015 Quality Management System
- ◆ Certified for ISO 14001: 2015 & 45001: 2018

# NEI Manufacturing Units

## 1. MV Panel Manufacturing Unit

NEI manufactures 11KV switchboards and 11 KV Capacitor Bank Panels with bus bar rated from 630 A to 3150 A with various fault levels from 18.5 kA and 25kA. The products are manufactured using the latest state of the art technology in both product and process.

# Resources & Facilities at NEI

- ◆ Centralized ERP system based on Microsoft.
- ◆ Dedicated Design software for panel Design- E Plan
- ◆ CNC Turret Punching Press
- ◆ CNC Bending Machines
- ◆ Conventional Shearing Machine
- ◆ MIG, Arc, Spot, Stud Welding eqpt
- ◆ 7-tank Surface Treatment Plant
- ◆ Conveyorized Powder Coating Plant
- ◆ Painting Laboratory
- ◆ Digital Panel Punching Machine
- ◆ Copper Bus bar Fabrication Facilities
- ◆ Bus bar Sleeving Oven (Temp Control)
- ◆ Material Handling Equipment like jib crane, forklift etc.
- ◆ Testing & Current Injection equipment
- ◆ Software and licenses for programming, testing etc.



## NEI Manufacturing Units



## 2. LV Panel Manufacturing Unit

NEI is Schneider partner and manufactures both Prisma TT and Blockset panels. NEI has developed its own Form 4 panels and a whole range of sub panels to complete the product portfolio. Panels up to 8000 A, 150 kA have been manufactured in our factory. All the switchboards are fully type tested at international reputed laboratories.

## NEI Manufacturing Units

## 3. Component Manufacturing Unit

NEI is a comprehensive full-fledged manufacturer of Low Voltage switchgear components. NEI manufactures Miniature circuit breakers, RCCBs, MCCBs from 32 A to 800 A. Short circuit levels of 6 KA to 50 KA.

All electrical components are properly designed and selected to ensure superior performance. NEI has in house facility to test each and every component, either short circuit or thermal calibration.



## NEI Manufacturing Units

### 4. Sheet Metal Fabrication & Painting Unit

NEI has a full-fledged sheet metal fabrication unit. It has installed one of its kinds of state of the art CNC machines in its production line. These machines are loaded with superior Mate tools. Further to ensure a balanced line there are more than one bending machine. TIG and MIG welding are effectively used to complete the fabrication line up.

NEI has one of the most sophisticated environmentally friendly pretreatment and powder coating booths. It also has two Electric ovens to bake the enclosures after powder coating.

## NEI Product Range

### 1. Medium Voltage Products

Our Medium Voltage switchgear range includes the following products.

#### A. 11 Kv Switchgear Panels (Juhd 11)

DCRP approved 11 KV switchgear panels, fully type tested



Operation voltage	- 12 KV
Bus bar rating	- Up to 2500A
Breaker ratings	- 630A, 1250A, 2000A
Breaking capacity	- 25kA
Protection relays	- DCRP approved protection relays

#### B. 11 KV Capacitor panels

DCRP approved 11 KV Capacitor panels, fully type tested.

Ratings	- 5 MVAR, 3 MVAR
Operation voltage	- 11.5 KV
Current Rating	- 400A
Breaking capacity	- 25kA



#### C. 11 KV RMU

DCRP approved 11 KV RMU, fully type tested

## 2.Low Voltage Products

Our Low Voltage Product range includes the following.

### A. Main Distribution Boards

Fully type tested Main Distribution Boards as per latest IEC and OES standards.

Voltage rating	440V
Current ratings	Upto 10,000 A
Breaker ratings	Upto 6300 A
Short circuit rating	Upto 150 kA
Incomer devices	ACBs and MCCBs
Outgoing devices	ACBs and MCCBs
Form of separation	Form 4 , Form 3 and Form 2
Fully type tested	Yes
Internal arc tested	Yes
Switchgears	Schneider/L&T
Enclosure system	Blokset/Prisma/ NEI

### B. Motor Control Centres and Intelligent Motor Control Centres

NEI manufactures conventional and intelligent MCC panels

NEI make Intelligent Motor Control Centres (IMCCs) incorporates intelligent protection and control in each motor feeder. This is suitable for connection to SCADA, PLC or DCS systems through various protocols like IEC 61850/ Modbus/ Profibus/ BACnet etc.

Voltage rating	440V	Fully type tested	Yes
Current ratings	Upto 6300A	Internal arc tested	Yes
Breaker ratings	Upto 6300A	Switchgears	Schneider/L&T
Short circuit rating	Upto 150kA	Enclosure system	Blokset/NEI
Form of separation	Form 4 and Form 2	Type of starters	VFD/ Soft starters/ Star delta/ DOL
Type of construction	Draw out and fixed	Motor Protection relays	Numeric relays, thermal overload relays



## NEI Product Range

### C. SPECIAL PANELS FOR PDO/OIL & GAS APPLICATIONS

#### ◆ SKID PANELS

Form IV Outdoor panels in ratings up to 3200A as per PDO Standards

#### ◆ UTILITY DISTRIBUTION BOARDS

UDBs as per PDO standards for the distribution of AC and DC power

#### ◆ BEAM PUMP CONTROL PANELS

Beam pump control panels with conventional and intelligent motor starter units.

### D. AMF and ATS Panels

NEIs LV product range includes AMF and ATS panels for source change over applications. Change over logic is with conventional circuits or with PLCs. We supply ATS with double line bypass in compliance with UL standards.

Voltage rating	440V
Current ratings	Upto 3200A
Incomer devices	Motorized ACB, Motorized MCCBs
Outgoing devices	ACBs, MCCBs
Form of separation	Form 4 and Form 2
Fully type tested	Yes
Switchgears	Schneider/L&T
Enclosure system	Blokset/Prisma/ NEI
Change over logic	PLC based, conventional



## NEI Product Range

### E. Capacitor Panels and Active Harmonic Filters

NEI manufactures automatic power factor control panels to improve the power factor of the installation. These are with or without detuned reactors as per project requirements.

We supply Active Harmonic Filters to mitigate harmonics in the installation. Our experts can calculate the ratings of APFC and AHFs. We can conduct study of actual harmonics in the network after energization and propose precise AHF for harmonic mitigation.

Voltage rating	440V
APFC ratings	Upto 1000 KVAR
Incomer devices	Breaker, Isolator
Outgoing devices	MCCBs, fuses, contactors and capacitors
PF Controller	Microprocessor based with 6, 8 or 12 steps
Fully type tested	Yes
AHF ratings	60A, 100A, 150A, 200A, 300A, 400A and 500A

### F. Synchronizing Panels, Totalizing Panels and Generator Control Panels

NEI manufactures Synchronizing and totalizing panels to connect more than one generator. We provide advanced synchronization and load sharing relays. NEI supplies Generator control panels with all necessary protections.

Voltage rating	440V
APFC ratings	Upto 10000A
Incomer devices	Motorized ACB, Motorized MCCBs
Outgoing devices	ACBs, MCCBs
Synchronization relays and load sharing relays	Microprocessor based relays
Fully type tested	Yes

## NEI Product Range

### G. DCRP Approved standard feeder pillars

NEI make feeder pillars are approved in DCRP. These are fully type tested as per latest IEC standards.

Voltage rating	440V
Feeder Pillar ratings approved	1600A, 400A
Incomer devices	Isolator, Gang operated fuseways with fuses
Outgoing devices	Gang operated fuseways with fuses
Enclosure	Sheet steel( 1600A and 400A), GRP( for 400A)
Fully type tested	Yes
IP Protection	IP 54

### H. Other Low Voltage Panel Boards- SMDBs, Street light control panels, metering panels

NEI manufactures a wide range of low voltage panel boards based on the project requirements. These include Sub main distribution boards, street light feeders, lighting control panels, high mast control panels, PLC panels, metering panels and much more.

Ratings	Upto 1600A
Breaking Capacity	Upto 65kA
Form of separation	Form 4, Form 2
Application	Indoor and outdoor
IP Ratings	IP 65, IP55, IP42

## NEI Product Range

### I. Final Distribution Boards and Components

NEI manufactures final distribution boards for commercial and residential buildings. We have our own components like Isolators, RCCBs, MCBs and RCBOs in plug in version of DBs. DB colour can be customized to match with the requirements.

Type of DBs	Bolt ON, Plug in
No. of ways TPN	18,16,12,10,8,6,4
No. of ways SPN	18,15,12,9,6
Breaking capacity	10kA
Incomer ratings	125A, 100A, 63A
Incomer devices	Isolator+RCCB, Isolator, RCCB
RCCB Sensitivity	300mA, 100mA, 30mA
Outgoing devices	MCBs, RCBOs
MCB ratings	63A, 50A, 45A, 32A, 25A, 20A, 16A, 10A, 6A
RCBO ratings	40A, 32A, 20A,16A
RCBO sensitivity	10 MA, 30 MA, 300 MA

### J. Moulded Case Circuit Breakers (MCCBs)

NEI manufactures its own MCCBs for the domestic market.

Frame Sizes	N1	N2	N3	N4
Ratings(A)	25, 32, 63, 80, 100,125	125,160, 200,250	300,400	630,800
Breaking Capacity	25,16,10	50,40,25	50,40,25	50,40,
No.of poles	2,3,4	3,4	3,4	3

### K. Sheet steel enclosures

NEI manufactures and supplies sheet steel enclosures. These are made up of high-quality electro galvanized steel (EGI).

Material	EGI
Type of enclosures	Form 4 and Form 2
Applications	Indoor and outdoor
IP protection	IP 65, IP55, IP 54, IP42
Painting	Powder coated
Color shades	RAL-7035, RAL-7032, RAL-9001

# NEI Service division

NEI is certified service partner of Schneider Electric. Our experienced team members are capable to handle any kinds of trouble shooting and rectification of MV and LV panel boards. We can propose retrofitting activities which helps the modernization of equipment without replacing the complete panel boards. Our service team is available for 24x7 to cater any urgent requirements.



# Our Certifications



# Our Partners



# Consultant & Customers

