

Electric section

The electric section is divided into two sections:

- **Workshops and floating facilities department.**
- **Power stations and networks department.**
- **Workshops and floating facilities Dep.**
- **New construction Workshop:**
 - The installation of cable carriers and extending electrical cables and terminal connections for all floating units (Ships, tugs, dredgers, ferries, yachts, etc.).
 - Installation and connecting all the electrical panels and assembling components and processed to work
 - Participation in the final trials and tests and operation of all floating units

ELECTRIC SECTION

- Workshops and floating facilities Dep.
- Floating units Maintenance workshop
 - Repair and maintenance of all electrical gear in floating units, such as:
 - All generators and electric motors.
 - Main and Sub electrical panels.
 - Operating and control devices.
 - Electrical cables, lighting tasks.



- **Shipyards electrical maintenance workshop:**

- Installation, repair and maintenance of electrical equipment in shipyard workshops.
- all kinds of Cranes.
- Welding machines.
- Various workshops machines (lathes, Alfrish, Rollings, CNC M/C.....etc).

- Electric Lab include:-

- Modern devices to determine defective cards and electronic component
- Variable electrical feed sources.
- Precise measurement devices

- **Rewinding Workshop:**

- The workshop tests, troubleshooting motors, generators, transformers and rewind all types of motors, transformers and generators with low voltage and all capacities.
- Department of specialized maintenance electric starting motors and dynamos for all units onshore and offshore



Electric department also includes some small workshops such as :

- Switches and circuit breakers workshop for manufacturing small metal parts needed for repairs and maintenance all types of switches and circuit breakers.
- Cooling workshop for repair and maintenance refrigerators, air-conditioners own shipyard.
- Coating workshop for coating metals nickel chrome special task units and marine facilities authority.
- Batteries workshop for maintenance and prepare batteries for all units of the authority.
- Electric vehicles workshop for maintenance all types of electric vehicles.

• **Power stations and networks department**

• **Port Fouad power station**

- Contain four units capacity of each 2.3 MW and 5.5 KV
- used as a source of reserve to feed the shipyard and Suez Canal Authority area on Portfouad and Portsaid.



• **Raswa Power Station:**

- Contain three units capacity of each 1 MW and 11 kV.
- Used as a backup power source for Raswa water treatment station.



• Internal network workshop

- comprises 10 switchboard room to distribute electricity to all shipyard workshops and administrative buildings.
- Each room has several transformers Capacities ranging from 500 KVA to 1500 KVA also include medium voltage 5.5 KV cables network and low voltage of 400 Volts cables network.
- The internal network workshop perform the installation and maintenance work for switchboard medium and low voltage, also repair all faults in cables, transformer and lightening
- include 16 adapters room to distribute electricity to all facilities outside the shipyard , such as Arsenal Port Said area, ferries area, buildings of Suez canal in Port Said, vocational training center in Port-Fuad and lighting water body of the canal also include network cabling medium Voltage 5.5 KV network and also low voltage 380 volts.
- The external network workshop has a fault cable location van which identifies faults and repair cables.

The external network workshop acts as the new fixtures and maintenance of electrical workstations guide ships along the canal from Port-Said to Port-Tawfiq

