



# STEEL TOWERS





Telecommunication



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G r o u p

Since 1975





EEC Group was a forerunner in the mobile telecommunications sector when it was born in the mid 1990's in Egypt.

Our engineering, construction & fabrication capability were ramped up to design, produce and erect steel towers and the associated accessories for the mobile network operators and equipment providers.

Our steel tower manufacturing production forms part of a manufacturing complex spanning 140,000 m2 using state-of-the art CNC lines producing the highest quality towers according to international standards & specifications.

We have the capability to produce a full range of telecom towers for any client environment, loading & conditions designed according to ANSI/TIA-222-G.



## Telecom Product Range:

### Self Supported Towers (SST):

- Designed to the customers' specific loading conditions, varying from light to heavy duty applications to withstand wind speeds up to 220 KPH & equipment loads up to 60m2 FPA offering the most economical site solution with the most optimized foundation designs minimizing the site total costs.
- A wide range of lattice structures are offered with tapered / straight shapes, angular or tubular construct, 3 or 4 legged for heights up to 130m to suit site requirements while considering an economical shipping packaging.

### Guyed Masts:

- EEC Offers a time efficient and economical construction solution where height & loads are essentials. The masts are carry light to heavy equipment loads up to 60m2 FPA & to withstand wind speeds up to 220 KPH.
- Its advanced design provides the most economical foundation solution applicable for several soil conditions & roof structures lowering the total cost of site implementation.
- It is suitable for Greenfield & Rooftop sites with height up to 130m, where enough area is available for installation.
- They are straight lattice masts with Guyed wires where the masts structures are made of three legged tubular main legs & rod/angular bracing supplied in welded sections or unassembled sections where shipping volume or heavy loads are the concern.



### **Rooftop Structures:**

- EEC offers a variety of rooftop structures designed as light weight and modular structures to be fast & easy for implementation and offer economical foundation & fixation solutions for most of roof conditions.
- The Rooftop structure are designed according to ANSI/TIA-222-G to carry Equipment load up to 30m2 FPA & to withstand wind speeds up to 220 KPH designs can also be customized to meet special site space & load restrictions upon request.
- Roof Top structures are three / four legged with penetrating / non-penetrating solutions and supplied with various shapes either Tapered/Straight lattice stub towers, poles or Parapet Mounts with Tubular / Angular sections.

### **Ground Rapid Deployment Solutions:**

- Ground Rapid Deployment solution (GRD) offers the flexibility to build & dismantle permanent and temporary sites where limited area or fast implementation is essential or the presence of poor soil characteristics where normal foundations are expensive.
- The GRDs are designed according to ANSI/TIA-222-G to withstand a wide range of applied loads of wind speeds up to 144 KPH and carrying 6 GSM antennas (2.7m x 0.27m x 0.15m) + 4MW Dishes (0.6m).
- The GRDs are supplied with heights up to 55m with a compact equipment shelter, power generator and steel net fence offering a comprehensive site model with area of 6mx6m to 6mx8m.

### **Mobile Tower Solutions:**

- Mobile radio base stations guarantee full operation in restricted spaces.
- Their use is strategic for the rapid extension of cellular networks, putting into service point to point radio connections , as well as supporting the increased traffic volume in case of extraordinary events (trade fairs, sporting events & concerts, emergencies, catastrophic events).
- They are telecom infrastructures with telescopic towers placed on trailers or trucks approved for road use.
- The antenna supporting structures are either self-supported or guyed in case of excessive loads as they could be designed to withstand wind speeds up to 160KPH and carry 3 GSM antennas + 2MW Dishes.

### **Environmental Disguised Sites**

- EEC disguises telecom towers in areas where consideration must be given to the surroundings.
- Freestanding monopoles have been designed and manufactured for up to 45m heights and with different antenna loads, camouflaged as an artificial Arabian Palm Tree with hanging fronds or fruit bunches. The product is durable with highly resilient coatings, and perfectly blends with the surroundings.







EEC Group has over 20 years of experience in providing full turnkey telecom sites (site acquisition & design, site preparation & civil works, tower & shelter erection, equipment installation & commissioning, maintenance).

Our prestigious client list cover network operators & equipment providers (like Vodafone, Orange, Ericsson, Nokia, Huawei, ZTE) spanning several countries Africa, Asia & the Middle East.

Furthermore, we are licensed by National Telecom Regulatory Authority (NTRA) to own, construct, lease & operate telecom sites in Egypt.

We also manufacture telecom equipment shelters at our manufacturing facilities in Egypt to complement our product offering in this sector.

**EEC Group was founded in 1975 as a construction company.**

**Today we are positioned uniquely in Egypt and the region, capable of delivering integrated value to our customers on a turnkey basis through our engineering, construction and fabrication capabilities with over 1500 professionals**

**We operate an Integrated Management System for ISO9001, ISO14001 and OHSAS18001**

**Engineering Enterprises  
for Civil & Steel Constructions S.A.E**

