



TeLCA ENGINEERING

Fabrication Redefined.....

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Profile



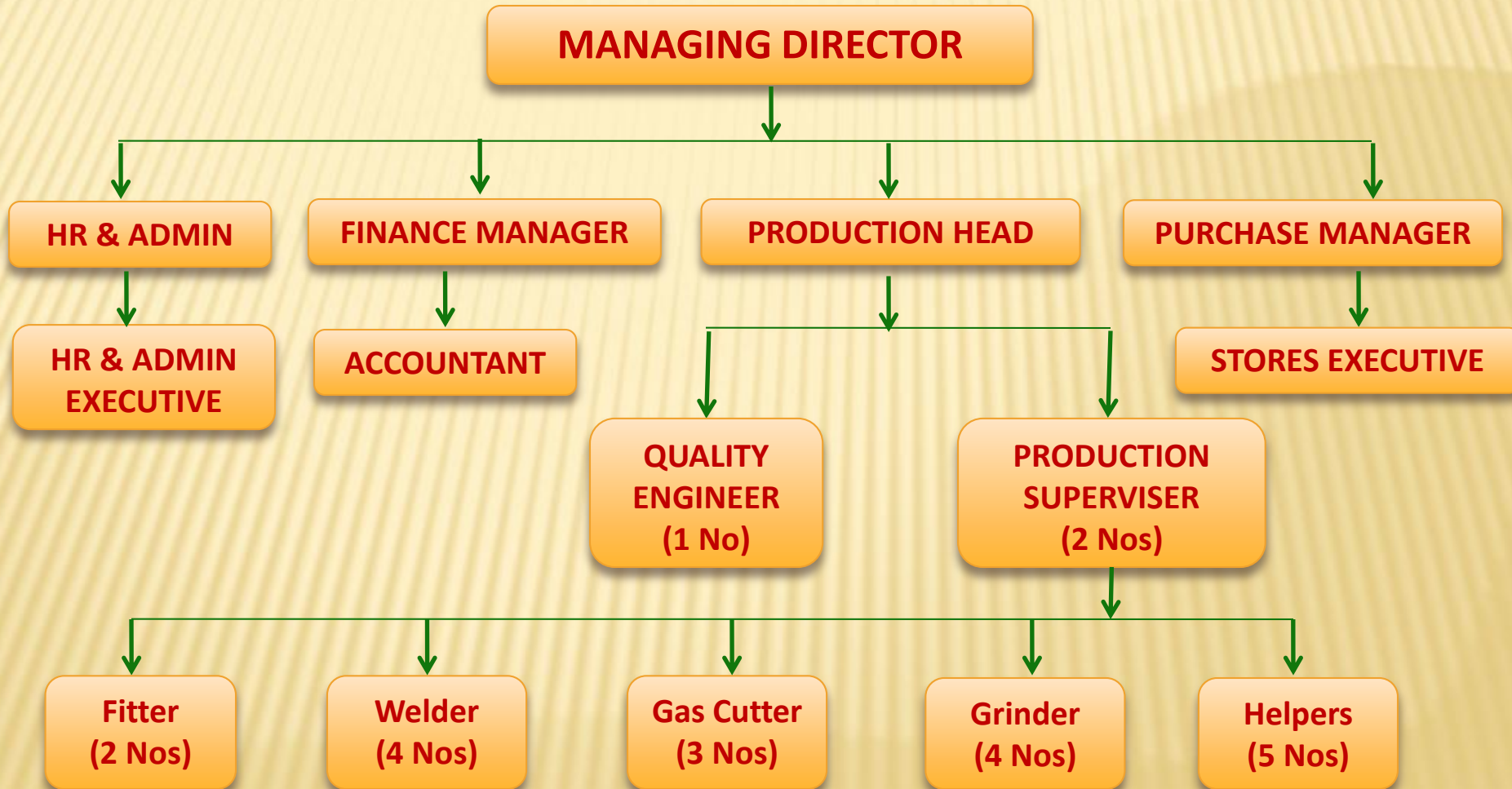
Our History

TELCA, formed in 2016 in Chennai, offers turnkey infrastructure services for all Telecom needs, Solar Power sites, and Power sectors. TELCA is sister concern of Ventura Engineering Services it's one of the fastest growing infrastructure services companies which offers integrated design, engineering, procurement, construction and project management services in the Telecom domain, Power and Renewable energy sectors. Along with site build, we also undertake long term annuity contracts as Managed services.

Managing Director

Telca Engineering was founded by Mr. Saravanan. A, B.E., He got 23 years working experience in Electrical and Electronics field . Starting his career with BEST & CROMPTON ENGG. LTD, CHENNAI in 1990 , followed by VERTEXBARCODE SYSTEMS,CHENNAI till 1994, worked in ELCOT POWER CONTROLS LIMITED Chennai as Assistant Manager. As a Project Lead, he developed SMPS for Exchanges and DLC equipments as per DOT specification. He has been running business successful and meeting the technical requirements by customers in deep.

ORGANISATION CHART



What we do.....



- 1. Design, fabrication & erection of GBT & RTT MW Towers like 30Mtr, 40Mtr with all accessories.**
- 2. Root Top Poles like 3Mtr, 6Mtr & 9Mtr with all accessories.**
- 3. Civil foundation work for GBT & RTT Towers with foundation Bolts.**
- 4. Supply and fixing of GSM & MW Mounting structures with necessaries Fasteners.**
- 5. Supply and Fabrication of Stub assembly structures for windmill Towers.**

What we can capable to do.....



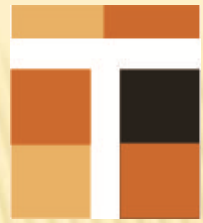
- 1. Supply and Fabrication of 220 kv, 110 kv, 32 kv, 16 kv Distribution towers.**
- 2. Supply and Fabrication of 2 line cross arms and 4 line cross arms with clamps and accessories.**
- 3. Design, Fabrication and erection of PEB structures, roofing trusses and FOB structures , platform works for Railways**
- 4. Supply and Fabrication of Solar frame supporting structures .**
- 5. Fabrication & erection with galvanizing of distribution towers / switch yard structure.**

Quality Standards..



- **Structural Steel : IS 2062 Standard for Quality of steel.**
- **MS Pipe IS 1166**
- **IS 800 / IS 802 for Fabrication of Tower**
- **IS 875 Wind Loading , Standing Capacity 180 kmph for Tower / Pole**
- **Hot Dip Galvanizing - IS 4749 standard with thickness 80- 90 microns**
- **IS 1461 for Zinc Coating.**
- **Dimensions as per IS 6639 – 72**
- **Physical Properties as per IS 1367**
- **Bolt & Nuts – Used Grade of 5.6 ,8.8 ,10.6**

Fabrication Process



➤ Designing & Implementation as per Drawing

➤ Fabrication Process

1. Raw Materials Stages

2. Processing Stages

3. Finished Stage

➤ Inspection Process

1. Raw Material inspection Report

2. Stage inspection Report

3. Final inspection Report

➤ Galvanizing Process

1. Zinc coating thickness Report

2. Visual Report

Fabrication Procedure



Raw Materials Stages :

Inspection has done on arrival of raw material for visual surface defects like slivers, blowholes, pit tings & hairlines cracks etc. Before commencing fabrication, various properties which are tested these include tensile strength, bending strength of steel. Chemical analysis has done to determine various micro components.

Processing Stages :

All the dimensions of various components are first tested in virtual . Then each component is checked against the physical dimensions given drawing. Welded component are subjected to Physical test for checking quality of welding. Random sampling of members is done to measure physical distance between holes and total length.

Finished Stages:

Towers are hot dip galvanized after fabrication to make sure that there are no rust starting points. In hot dip galvanizing, each section of the tower is totally immersed in molten zinc allowing every square mm of the tower, inside and out, to be completely covered. Hot dip galvanizing protects all points of welding and construction against rust and corrosion

Raw Materials Stage....



Processing Stages....



Hot Dip Galvanizing Stage....



(MAINTAINING ZINC COATING THICKNESS 90 TO 100 MICRON)



Civil Foundation...



Erection Stage of Tower....



Erection Stage of Pole....



Finished Stage Pole....



3 Mtr Pole



6 Mtr Pole



9 Mtr Pole



Finished Stage Tower...



12 Mtr Tower



24 Mtr Tower



32 Mtr Tower



Tools & Machinery



Iron Worker 60T



MIG / CO2 Welding



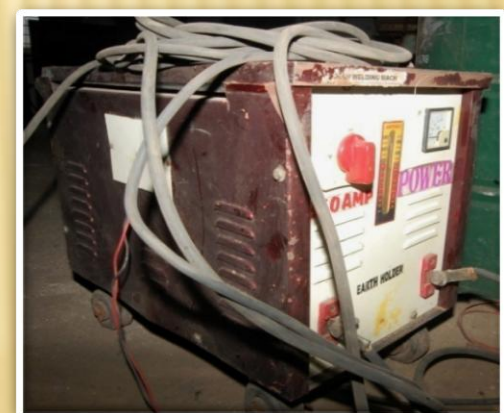
MMAW 400Amps



Pipe Cutter

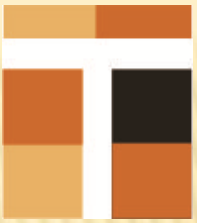


Pillar Drilling



MMAW 350Amps

Telca Statutory Details



GST No : 33BAQPS1462P1Z0

Pan No : BAQPS1462P

Bank : INDIAN BANK

Branch : Valasaravakkam

IFSC : IDIB000V080

A/c No : 6504986348

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Thank
you

