

**TECHNICAL SPECIFICATION FOR MOBILE ALUMINIUM TILTABLE TROLLEY
TOWER EXTENSION LADDER**

TEP: Mobile Ladder: BPS:Rev:00

Date:16-09-11--Page:01/01

1.0 Scope:

This specification covers the general design, materials, and construction features, manufacture, shop inspection and testing at manufacture's works and delivery of Mobile Aluminum Tilttable Trolley Tower ladder. Typical sketch showing the ladder is enclosed with this specification.

2.0 Application:

This ladder is meant for accessing/maintaining the Ash Level Indicator provided in the Electrostatic Precipitator Hoppers.

3.0 Design and Material of Construction:

- Ladder should be designed to carry one man weighing approximately 75 kg with tool kit of approximately 15 kg.
- Ladder should be capable of being extended by one man by means of rope of breaking strength not less than 1000 kgf.
- Rope should be rust free and shall be galvanized to avoid rusting during use.
- Rope diameter shall be not less than 8mm.
- During above load testing, Tower ladder shall be no sign of distress/deflection.
- The Gear winch type mechanism (Ratchet arrangement) only required for locking. Pin type not acceptable.
- Should have 4 nos of Jacks/fixing/holding/clamping arrangement with floor to ensure safe position of the ladder during use.
- Should have 4 nos of Rubber wheels of adequate size for easy mobility.
- The operating platform size shall be not less than 400 MM X 450 MM.
- The Ladder base frame shall be not less than 1400 mm x 1700 mm.
- The support for ladder at closed condition should be given from the base frame of the ladder for rigidity.
- **The Ladder closed height (Horizontal) shall not be more than 3.3m (11 feet) and extension height shall not be less than 10.0 m (33 feet).**

4.0 Document to be submitted along with Offer:

Vendor should submit the offered Ladder catalogue / GA drawing for evaluating the offer.

5.0 General Points:

Each Ladder shall be clearly and permanently marked with the following information:

- **Manufacturer's name or trademark, if any.**
- **The Closed height (Horizontal) :** in meter.
- **The extended height :** in meter.
- **Year of manufacture :**
- **Safe working Load in Kg :**

6.0 Painting: For mild steel exposed surfaces, Two coats of red oxide zinc phosphate primer as per IS12744 to a DFT of 2X30=60 µm followed by Two coats of Synthetic enamel as per IS 2932 to a DFT of 2X20=40 µm. Total DFT 100 µm(min),only after clearance from the inspection agency.

7.0 Enclosure: Aluminum Tilttable Trolley Tower Extension ladder sketch

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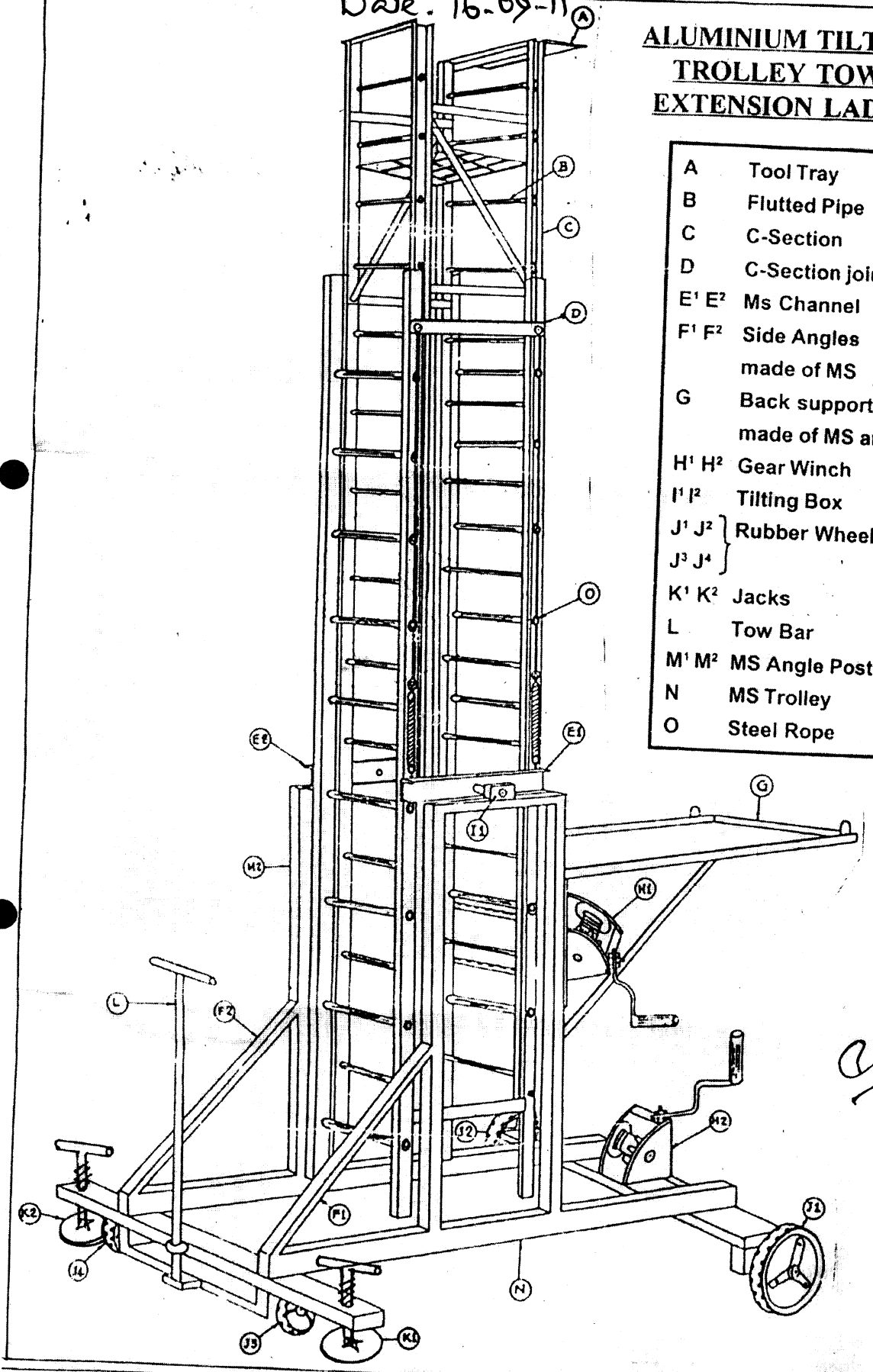
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**ALUMINIUM TILTABLE
TROLLEY TOWER
EXTENSION LADDER**

- | | |
|-------------------------------|----------------------------------|
| A | Tool Tray |
| B | Fluted Pipe |
| C | C-Section |
| D | C-Section joint |
| E ¹ E ² | Ms Channel |
| F ¹ F ² | Side Angles
made of MS |
| G | Back support
made of MS angle |
| H ¹ H ² | Gear Winch |
| I ¹ I ² | Tilting Box |
| J ¹ J ² | Rubber Wheels |
| J ³ J ⁴ | |
| K ¹ K ² | Jacks |
| L | Tow Bar |
| M ¹ M ² | MS Angle Post |
| N | MS Trolley |
| O | Steel Rope |



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