

ANNEXURE- 'A' Rev '00'
(PI NO. - 240273844)

**SPECIFICATION FOR MONORAIL TRAVELING TROLLEY
(CIRCULAR TRAVEL):**

1. Monorail geared travelling trolley should be rigid, compact and easily adjustable for mounting on standard I beams. Wheels should be mounted on ball /Needle bearings for smooth & light travel, rigidly supported on side covers.
2. The trolley must also negotiate curved I- beam with uniform contact on wheel to rail rolling surface ensuring smooth rolling with low resistance. Loading arm/weight hook of trolley should be of such size that it is accommodated in D-shackle of 2 T capacity.
 - a). **Travel : Circular on PCD 3500**
 - b) **Size of I beam = ISMB 200 x 100.**
3. **Materials:**
 - a) **Frame:** Rigid frame, built of steel plates.
 - b) **Axle & shaft:** steel (To be accurately machined).
 - c) **Runner & wheels:** High grade cast iron.
 - d) **Gears:** Special alloy steel hardened and treated for rust prevention.
 - e) **Chain:** Alloy steel link chain heat treated & calibrated conforming to Gr. 80 IS 6216.
4. **Chain height:** Chain height from wheel /trolley centre line = 3 m
5. **Capacity of trolley:** Rated capacity of load handling of trolley = 1 Tonne.
6. **Testing:** Trolley should be load tested to 1.5 times the rated load.