

Technical Details Required for EOT Crane

1 General

- 1.1 Location
- Sodium Carbonate, Bicarbonate Handling
- 1.2 Total Quantity required
- 2 No's

2 Basis of Design

- 2.1 Type of Crane
- Single Girder EOT Crane
- 2.2 Capacity
- 2 Ton
- 2.3 Overload Capacity
- 125% of the normal (rated) Capacity
- 2.4 Span
- 9.5 mtrs
- 2.5 Height of Lift
- 10.0 mtrs
- 2.6 Long Travel
- 16.0 mtrs
- 2.7 Speeds
- |                      |               |     |     |
|----------------------|---------------|-----|-----|
|                      | Main Hoisting | C.T | L.T |
| Normal Speed (m/min) | 4             | 10  | 15  |
| Creep Speed (m/min)  | 0.4           | -   | -   |
- 2.8 Crane Operation
- By Pendent push button Station & Radio remote
- 2.9 Design Codes
- IS:807:1976, IS:3177:1999, IS3815:1976 and IS:2266:1989
- 2.10 Head Room required (i.e. from top of L.T rail to bottom of Beam)
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3 Construction Details

- 3.1 Main Girder Size(Approximate), mm
- 280(W) X 600 (H) X 9500 (L)
- 3.2 Hook Approach(for C.T.Motion)
- |            |                 |                |
|------------|-----------------|----------------|
|            | Right Hand Side | Left Hand Side |
| Main Hoist | 1000 mm         | 1050 mm        |
- 3.3 Rope Drum
- 
- Diameter
- Ø 166mm
- Length
- 650mm
- 3.4 Wire Rope
- 
- Diameter
- 
- Construction
- 
- Breaking Strength
- 
- 3.5 No. of Falls
- 
- 3.6 Top block Pulley Diameter
- 
- 3.7 Bottom block Pulley Diameter
- 
- 3.8 Load Lock and anti swiveling arrangement
- Yes
- 3.9 Types of Breaks
- 
- Hoist
- EHT
- EHT
- CT
- EM Disc
- 
- LT
- EHT
- EHT

3.10	Type of Coupling Provided	Main Hoist	Auxiliary Hoist	Long Travel	Cross Travel
	Motor to Gear Box				
	Gear box to Wheel				
	Gear box to rope drum				

- 3.11 C.T. Wheel Load(With out Impact)
- 0.65 Ton
- L.T. Wheel Load(With out Impact)
- 2.9 Ton