

Reagent Handling Scheme (RHS)

ANNEXURE-1

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)

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