






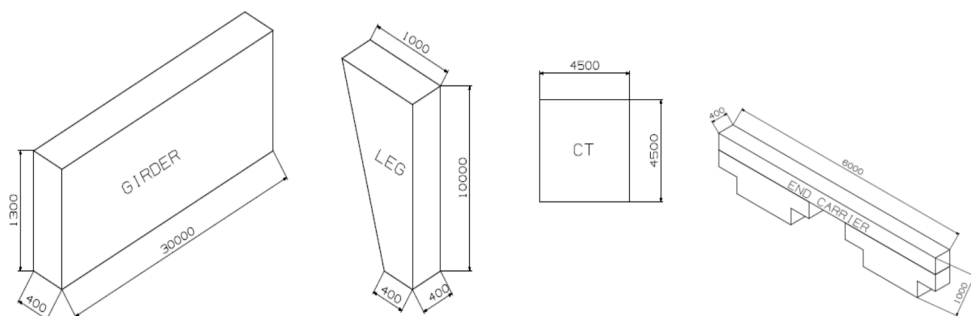
Painting of Cranes – Scope

Scope of Work – Painting of Crane

- (I) Type of Crane and Capacity : 20/5T Gantry crane. (Asset No.: 11-1026)
 Make of Crane : Shree Engineers
 Location : NPP yard


Surface Area of Crane:

S.No.	Surface	Area	Remarks
1	<u>Bridges:</u> Length 32m x Height 1.3m x2 surface per bridge x 2 bridges + Top and Bottom Plate (Length 32m x Width 0.4m x2 plates x 2 bridges)=166.4 sq.m + 51.2sq.m = 217.6 sq.m	217.6 Sq.Mtrs	
2	<u>A frames:</u> Legs -{ 0.5*(Bottom Width .4+ Top width 1)*Height 10*2 sides x 4 legs} +{(0.4*10)*2 sides * 4 Nos.}= 88sq.m Tie Beams beams(2Nos) - 4 sq.m.	92 Sq.Mtrs	
3	<u>End Carriages:</u> Length 6m*0.4 width * 3 sides*2 nos.+ Length 6m*0.6 width * 2 sides*2nos.=28.8 sq.m	28.8 Sq.Mtrs	
4	<u>Cross Trolley</u> : length 4.5* width 4.5*2sides= 40.5 sq.m <u>CT shed sides:</u> 4.5*2*3=27	67.5 Sq.Mtrs	
5	<u>Platform:</u> Idle side: Width 0.8* lenth 32* 2 sides=51.2 Drive side: width 1.2* length 32* 2sides=76.8	128 Sq.Mtrs	
5	<u>Others:</u> A)Ladder, Handrails, Motor covers, Current collector unit, Cabin, Cable trolley beams and brackets=27 Approximately 5% of total area)	27 Sq.Mtrs	
	Total	560 Sq.Mtrs.	



- (II) Type of Crane and Capacity : 30/10T Gantry crane. (Asset No.: 12-1029)
 Make of Crane : Chitram
 Location : NPP yard

Surface Area of Crane:

S.No.	Surface	Area	Remarks
1	CT Panel Shed: Length 20* Width 5 =100	100 Sq.Mtrs	
	Total	100 Sq.Mtrs	

Total Area to be painted: 560+100 = 660 Sq.Mtrs

A) Scope, General terms and conditions

- 1) Preparation of surface: Stripping of paint with gas heater, cleaning with brush and removing any falling off loose paint.
- 2) One coat of Red oxide coat to be applied, where base metal is exposed.
- 3) Two coats of 'Golden Yellow' paint to be applied after preparation of surface. General Materials required such as Paints, kerosene, thinner, cotton waste, will be supplied by BHEL.
- 4) Two coats of black paint to be applied for CT, Ladder, CT panel shed, Platforms etc
- 5) Two coats of Black/Blue/Aluminium Silver (as given by BHEL) to be applied to CT shed of 30/10T Chitram crane
- 6) Safety of the workmen is the sole responsibility of the contractor.
- 7) The contractor and his/her workmen shall use the necessary safety equipment (PPE like safety belts, helmets etc.,) and shall comply with BHEL safety rules.
- 8) Necessary tools and other equipment like painting brushes, spray gun, Roller, brooms etc., are in the scope of the contractor.
- 9) Mobile crane, Lift and shift crane, if required are in the scope of the contractor (or) Contractor should make necessary temporary platform to reach under the area of CT and Platforms and other areas of crane, for the purpose of painting. Such temporary platform need to be removed after the work is completed
- 10) The contractor shall engage a supervisor during the execution of the work, to oversee workmen and quality of work.
- 11) Period of Contract – 3months