

## **Scope of Work – Dismantling, Shifting and re E&C of Gantry Crane**

**Type of Crane** : Gantry Crane (12-1026), Span 30.0 m, SWL 20/5Ton, Shree Engineers make

**From Location** : 12 Store Pipe yard

**To Location** : New Plate and Pipe yard (West side)

S.N o.	Description of Work
1	Disconnecting Electrical supply to the Crane from DSL line. Disconnecting all the cables from panels, resistance boxes and junction boxes. Removing the cables from cable reeling system. Details / Numbering to be documented properly. Removing the bracket holding the current collectors.
2	Rolling all the removed cables into circles and bringing them down . Bringing down current collectors along with bracket.
3	Dismantling the control panels, resistance boxes, junction boxes and bringing them down to ground level and keep them aside.
4	Dismantling the cable reeling system 'I' beam and supporting brackets (of the cross trolley) located on the bridges and bringing them down
5	Disconnecting the hooks from the drums by removing the wire rope
6	Dismantling the cross trolley shed and bring it down
7	Dismantling the cabin and bringing it down
8	Welding support anglers to the 'A' frames located on east and west side of the gantry crane to ensure they are fully supported during removal of bridges
9	Hiring external Telescopic boom crane (40T) – 2 no. for 2 day (For bringing down the cross trolley and two bridges). (Rs25,000x2x2 = Rs100,000/-)
10	Removing tie beams (bridge to bridge – 4nos.) Disconnecting the bridges from the 'A' frames by removing the pin bolts and bringing them down. Bringing down Cross Trolley (Crab)
11	Hiring external Telescopic boom crane (30T) – 1 no. for 2 day (For bringing down 'A' frames) (Rs15,000x1x2 = Rs30,000/-)
12	Hiring of 14T Hydra Crane for 2 days - 2 no. for 2 days (for support activity during dismantling of 'A' frames and shifting of all the dismantled components of the crane) (Rs7,000x2x2 = Rs28,000/-)
13	Dismantling and removing the platform approach ladder
14	Dismantling the support anglers of 'A' frames and bringing them down
15	Removing the bogie (4nos.) from the rail track
16	Hiring of 35T Trailer for shifting of bridges, A frames and other parts – 4days (Rs8,000x1x4 = Rs32,000/-)
17	Engaging of Trailer for shifting of Crane bridges– 2 days
18	Engaging of Trailer for shifting of 'A' frames, Crab, bogie(4nos.) and balance items – 2 days
19	Hiring of 14T Hydra (2 no.) Cranes for 4 days (at new location) (For unloading the bridges, cross trolley, 'A' frames and other crane items from the trailers and for support activity during erection) (Rs7,000x2x4 = Rs56,000/-)
20	Placement of bogie(4nos.) on the rail track, supporting them by welding 'L' anglers and checking the span and diagonal setting.

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21		Hiring external Telescopic boom crane (30T) – 1 no. for 2 day (For placement of 'A' frames) (Rs15,000x1x2 = Rs30,000/-)
22		Placement of A frames on Bogie and welding support anglers.
23		Hiring external Telescopic boom crane (40T) – 2 no. for 2 day (For placement of bridges on the 'A' frames and tie beam with bridges. Placement of Cross trolley on the bridges) (Rs25,000x2x2 = Rs100,000/-)
24		Placement of bridges on the 'A' frames and connecting tie beam with bridges. Fixing Pin bolts between A frames & bridges. Fixing bolts between tie beam and bridges. Placement of Cross trolley on the bridges.
25		Placement of panels, resistance boxes, cable reeling system brackets (CT & Pendent) and 'I' section on the platform and fixing them.
26		Placement of cabin in position and connecting it to the bridges. Putting back CT shed in position. Placement of all the ladders in position and fixing them
27		Connecting the cables inside the panels, junction boxes and components on the crane and reconnection of Electrical supply to DSL line
28		Putting back platform approach ladder and carrying out necessary welding.
29		Connecting hooks and wire rope onto wire rope drums respectively.
30		Trial run and ensure Current collector are smoothly running on DSL line. LT, CT and Hoist movements checking and ensure they are smooth.
31		Load testing (for SWL only). Arranging the load and required slings, etc., for carrying out load test.
		<b>Total Man days required</b>
		<b>Period of Project is 30 days and total period of contract is 45 days. Man power required is 5 SW and 5 USW</b>
1	<b>General</b>	Materials required such as welding generator, cutting set, oxygen, DA, paints, kerosene, thinner, cotton waste, Slings etc., will be supplied by BHEL
2		Safety of the workmen is the sole responsibility of the contractor
3		The contractor and his/her workmen shall use the necessary safety equipment (like safety belts, helmets etc.,) and shall comply with BHEL safety rules
4		Necessary tools and other equipment like painting brushes, spray gun, brooms etc., are in the scope of the contractor
5		Mobile crane, trailer lorry for shifting etc., are in the scope of the contractor
6		The contractor shall engage a <b>supervisor</b> during the execution of the work, to oversee important milestones in project.


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### Information

	<p>Type of Crane: Gantry Crane, Make: Shree Engineers make, Construction: Bogie type Span-30m, Hook: 20/5T. Others: CT shed and Cabin are there.</p>
	<p>Side view of A frame. Tie beam (2nos. each side) are there connecting bridges.</p>