

Scope of Work – Repair of 09 Yard Crane

Type of Crane : Gantry Crane (09-1024), Span 30.0 m, SWL 10Ton, Make: Aaccess

Location : 09 Yard

S.No.	Description of Work
1	Disconnecting the hook from the drums by removing the wire rope
2	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.
3	Rolling all the removed cables into circles and bringing them down.
4	Dismantling the control panels, resistance boxes, junction boxes and bringing them down to ground level and keep them aside.
5	Dismantling the cable reeling system 'I' beam and supporting brackets (of the cross trolley) located on the bridges and bringing them down
6	Dismantling the cross trolley shed and bring it down
7	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
8	Bringing down Cross Trolley (Crab). Removing tie beams (bridge to bridge – 2nos.) Disconnecting the bridges from the 'A' frames by removing the pin bolts and bringing them down. Bringing down the cross trolley and two bridges by 40T external Telescopic boom crane.
9	Support during dismantling of 'A' frames and shifting of all the dismantled components of the crane by 12T Hydra Crane.
10	Dismantling and removing the platform approach ladder
11	Dismantling the support anglers of 'A' frames and bringing them down
12	Removing the End Carriages (2nos.) from the rail track
13	Removing existing bearing plate (8 nos.) from bridge girders and legs
14	Preparing Bearing Plate (8 nos.). Alignment and welding to legs. Material will be provided by BHEL.
15	Putting back End carriages on rails by checking and setting the diagonal by 12T hydra crane. Note: Diagonals and parallels (measurements) should be shown to BHEL-Engineer in charge and upon his consent, assembly work need to be started.
16	Placement of End Carriages (2nos.) on the rail track, supporting them by welding 'L' anglers and checking the span and diagonal setting.
18	Placement of A frames (legs) on End carriage and welding support anglers by 30T External telescopic boom crane.
19	Placement of bridges on the 'A' frames, tie beam with bridges and Placement of Cross trolley on the bridges by 40T external Telescopic boom crane
20	Placement of bridges on the 'A' frames and connecting tie beam with bridges.
21	Welding of Bearing plates to Bridges (4 locations)
22	Fixing Pin bolts between A frames & bridges. Fixing bolts between tie beam and bridges. Placement of Cross trolley on the bridges.
23	Placement of panels, resistance boxes, cable reeling system brackets (CT & Pendent) and 'I' section on the platform and fixing them.
24	Placement of cabin in position and connecting it to the bridges. Putting back CT shed in

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		position. Placement of all the ladders in position and fixing them
25		Connecting the cables inside the panels, junction boxes and components on the crane and reconnection of Electrical supply to DSL line
26		Putting back platform approach ladder and carrying out necessary welding.
27		Connecting hooks and wire rope onto wire rope drums respectively.
28		Trial run and ensure Current collector are smoothly running on DSL line. LT, CT and Hoist movements checking and ensure they are smooth, and with out noise.
29		Load testing (for SWL only).
	Note	Necessary tools and other equipment like Welding Generator, cutting set are in the scope of the contractor. Consumables like Oxygen, DA, cotton waste, electrode rods, etc., will be supplied by BHEL.
1	General	Safety of the workmen is the sole responsibility of the contractor. Safety requirement as prescribed by BHEL-Safety dept. need to be adhered to, while carrying out work.
2		The contractor and his/her workmen shall use the necessary safety equipment (like safety belts, helmets etc.,) and shall comply with BHEL safety rules.
3		Mobile crane, trailer, lorry for shifting etc., are in the scope of the contractor.
4		The contractor should provide the detailed scheduled chart from Day-1 to last day of the project. The contractor shall engage a supervisor during the execution of the work, to oversee important milestones in project.
5		Contractor can visit the site and see the work area before quoting for above said work. Duration of the Project : 3 months from the date of issue of PO

PQC:

The tenderer should have manufactured/ E&C completed/ Repaired, at least one Semi Gantry/Gantry/EOT Cranes of 10 tons (SWL) or higher capacity and with span ≥ 15 meters, in the last 7 years as on date of enquiry. List of these cranes to be furnished with names of contact persons, telephone and FAX nos. and e-mail IDs. The supplier should furnish copies of the purchase orders and commissioning reports / performance certificates issued by the customers as documentary proof of the above.