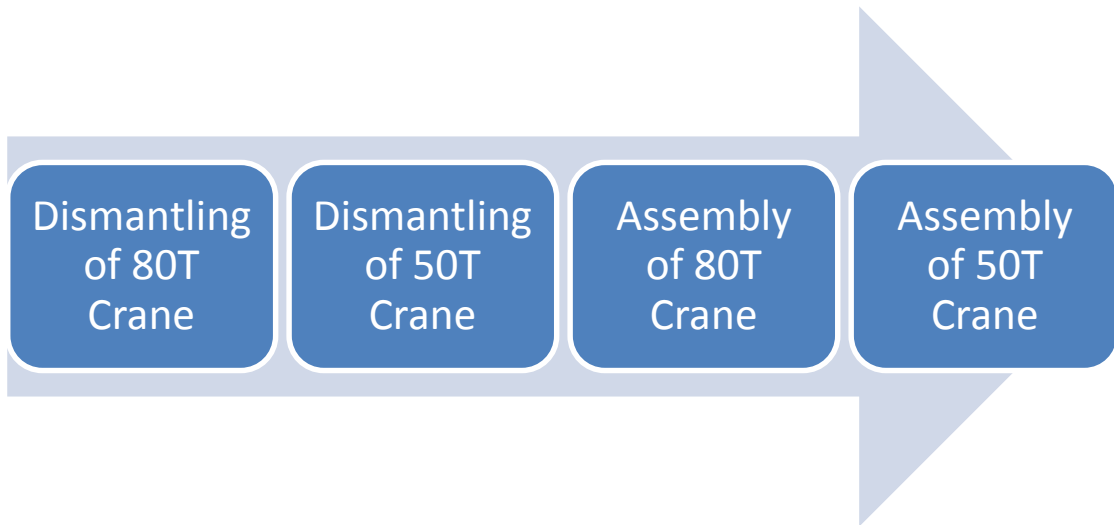


Shifting of 80T EOT Crane and 50T EOT (GT and T&C area)

1) EOT Cranes shifting details

S.No.	Asset No.	From	To	Remarks
1	80/20T Demag (01A-3050)	Rotor Assembly area	9FA Test area	---
2	50/15T Shivpra (01A-3004)	9FA Test Area	01 Cross Bay	---

2) Sequence of Operations



Scope of Work – Dismantling, Shifting and re E&C of EOT Crane

Type of Crane : SWL: 80T EOT Crane (01A-3050), Span 28.5 m, Make: DEMAG

From Location : GT Complex – Rotor Assembly Bay

To Location : GT Complex – Fr9FA Extended Test bay

S.No	Description of Work
1	Disconnecting Electrical supply to the Crane from DSL line. Disconnecting all the cables from panels, removing the cables from cable reeling system and isolating the supply cables on each bridge. Details/ Numbering to be documented properly.
2	Preparing Chain Pulley blocks by tying to truss of roof to bring down all materials. Ensure safety belt is worn by personnel.
3	Dismantling the control panels and bringing down the panels.
4	Dismantling all the resistance boxes and bringing them down
4	Dismantling the cable reeling supporting brackets on the bridges and CT platform and bringing them down.
6	Dismantling and bringing down the cabin
7	Welding support anglers for end carriages and ensure they are not moving during removal of bridge girders.
8	Disconnecting the hook from the drum by removing the wire rope
9	Removal of roof sheets , bracings and purlins at necessary place (From Location) Working with Factory Civil staff in getting job done (BHEL scope).
10	Hiring external Telescopic boom crane and bringing inside factory with necessary approvals – for dismantling of crane.
11	Dismantling and bringing down the Cross trolley (Ensure proper rigging is done before lowering CT)
12	Disconnecting the connection between the bridges and end carriages and bring down bridges carefully (Ensure proper rigging is done)
13	Removing the supports for end carriages and bringing down the end carriages.
14	Shifting of Crane parts (Bridges, End carriages, Electrical panels etc.,) to new location – by Trailer.
15	Engaging of Trailer for shifting of Crane parts
16	Removal of roof sheets , bracings and purlins at necessary place in (To Location) GT-Test bay – Working with Factory Civil staff in getting job done (BHEL scope)
17	Braking of wall to bring girders into 9FA Test area. Note that there is limitation on the area available in side 9FA shop due to presence of L-shape ductings. (If wall is broken already during dismantling works of 50T Crane, this work is not necessary)
17	Hiring external Telescopic boom crane and bringing inside factory with necessary approvals – for assembly of crane.
18	Placing the end carriages on the top of rails and welding support anglers to end carriages. Ensure diagonals are maintained correctly.
19	Placing the bridges on the end carriages. Ensure there is no damage to bracings and purlins while extending boom of boom crane.

Scope of Work – Dismantling, Shifting and re E&C of EOT Crane

Type of Crane : SWL: 80T EOT Crane (01A-3050), Span 28.5 m, Make: DEMAG

From Location : GT Complex – Rotor Assembly Bay

To Location : GT Complex – Fr9FA Extended Test bay

		Placing CT. Ensure there is no damage to bracings and purlins while extending boom of boom crane.
20		Fixing the bridges to End carriages by inserting/hammering pin bolts and tighten uniformly.
21		Removing the support anglers for the end carriages
22		Placing the fixing brackets for cable reeling system and passing the cables over the cable reeling system
23		Taking up – Electrical panels, Resistance boxes and all other items. Reconnection of electrical panels.
24		Reconnection of Electrical supply to DSL line and Control testing.
25		Trial run and ensure Current collector are smoothly running on DSL line. LT, CT and Hoist movements checking and ensure they are smooth.
26		Load testing at SWL. Arranging load and required slings, etc., for carrying out load test. (Load and slings will be provided by BHEL)
		Necessary tools and other equipment like Welding Generator, Cutting set are in the scope of the contractor.
27		Consumables like Oxygen, DA, cotton waste, electrode rods, etc., will be supplied by BHEL.
28		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.
29	General	The contractor and his/her workmen shall use the necessary safety equipment (like safety belts, helmets etc.,) and shall comply with BHEL safety rules.
30		Mobile crane, trailer, lorry for shifting etc., are in the scope of the contractor.
31		The contractor shall engage a supervisor during the execution of the work, to oversee important milestones in project.
32		Contractor can visit the site and see the work area before quoting for above said work.
33		Due to criticality of location at 9FA Test area (L shape ducting obstructing Boom crane movement), it is advised that Vendor may visit the actual site before quoting for tender.

Scope of Work – Dismantling, Shifting and re E&C of EOT Crane

Type of Crane : SWL: 50T EOT Crane (01-3004), Span 28.5 m, Make: Shivpra

From Location : GT Complex – 9FA Test Area

To Location : T&C – 01 Cross Bay

S.No	Description of Work
1	Disconnecting Electrical supply to the Crane from DSL line. Disconnecting all the cables from panels, removing the cables from cable reeling system and isolating the supply cables on each bridge. Details/ Numbering to be documented properly.
2	Preparing Chain Pulley blocks by tying to truss of roof to bring down all materials. Ensure safety belt is worn by personnel.
3	Dismantling the control panels and bringing down the panels.
	Dismantling all the resistance boxes and bringing them down
4	Dismantling the cable reeling supporting brackets on the bridges and CT platform and bringing them down.
6	Dismantling and bringing down the cabin.
7	Welding support anglers for end carriages and ensure they are not moving during removal of bridge girders.
8	Disconnecting the hook from the drum by removing the wire rope
9	Removal of roof sheets , bracings and purlins at necessary place (From Location) Working with Factory Civil staff in getting job done (BHEL scope).
	Breaking down wall for moving out bridge girder and crane entering (BHEL scope)
10	Hiring external Telescopic boom crane and bringing inside factory with necessary approvals – for dismantling of crane. Crane to be dismantled from East side entrance.
11	Dismantling and bringing down the Cross trolley (Ensure proper rigging is done before lowering CT)
12	Disconnecting the connection between the bridges and end carriages and bring down bridges carefully (Ensure proper rigging is done)
13	Removing the supports for end carriages and bringing down the end carriages.
14	Shifting of Crane parts (Bridges, End carriages, Electrical panels etc.,) to new location – by Trailer.
15	Engaging of Trailer for shifting
16	Removal of roof sheets , bracings and purlins at necessary place in (To Location)– Working with Factory Civil staff in getting job done (BHEL scope)
17	Hiring external Telescopic boom crane and bringing inside factory with necessary approvals – for assembly of crane for 2 days
18	Placing the end carriages on the top of rails and welding support anglers to end carriages. Ensure diagonals are maintained correctly.
19	Placing the bridges on the end carriages. Ensure there is no damage to bracings and purlins while extending boom of boom crane.

Scope of Work – Dismantling, Shifting and re E&C of EOT Crane

Type of Crane : SWL: 50T EOT Crane (01-3004), Span 28.5 m, Make: Shivpra

From Location : GT Complex – 9FA Test Area

To Location : T&C – 01 Cross Bay

		Placing CT. Ensure there is no damage to bracings and purlins while extending boom of boom crane.
20		Fixing the bridges to End carriages by inserting/hammering pin bolts and tighten uniformly.
21		Removing the support anglers for the end carriages
22		Placing the fixing brackets for cable reeling system and passing the cables over the cable reeling system
23		Taking up – Electrical panels, Resistance boxes and all other items. Reconnection of electrical panels.
24		Reconnection of Electrical supply to DSL line and Control testing.
25		Trial run and ensure Current collector are smoothly running on DSL line. LT, CT and Hoist movements checking and ensure they are smooth.
26		Load testing at SWL. Arranging load and required slings, etc., for carrying out load test. (Load and slings will be provided by BHEL)
27	General	Necessary tools and other equipment like Welding Generator, Cutting set are in the scope of the contractor.
28		Consumables like Oxygen, DA, cotton waste, electrode rods, etc., will be supplied by BHEL.
29		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.
30		The contractor and his/her workmen shall use the necessary safety equipment (like safety belts, helmets etc.,) and shall comply with BHEL safety rules.
31		Mobile crane, trailer, lorry for shifting etc., are in the scope of the contractor.
32		The contractor shall engage a supervisor during the execution of the work, to oversee important milestones in project.
33		Due to criticality of location at 9FA Test area (L shape ducting obstructing Boom crane movement), it is advised that Vendor may visit the actual site before quoting for tender.