

Annexure C3.2:

1. Scope of work

Remove old Pantograph, supply and install new pantograph and commission overhead crane.

Supply drawings and all necessary documentation.

Background information



The overhead crane was installed in the early 50s and is supplied from the open 4 wire system with the pantograph supporting the carbon brushes mounted on the pipe connected to the structure of the crane. The overhead crane in the mechanical workshop is used to load and off load spares and equipment like pumps, motors etc.

The pantograph hooked on the structure and broke off, bending the supporting pipe that supports the brush holders.

The pantograph system is very old, hence require replacement.

Line 01:

Supply, install and commission new Pantograph for Mechanical workshop.

Line 02:

Supply Safety file.

Scope of work for Engine Room 4B Loading Bay Crane

The Overhead crane at Engine Room 4B below was installed in the 80s and is using current carriers for its operation. The current carriers are house in a hard plastic material which have now become brittle and are cracking. The wear on the carrier housing has caused the crane to fail and thus need to be replaced with the same or identical ones for the crane to be brought back to full use.

The scope of work is to Supply 3 current carriers, install and commission the crane with new current carriers.

Line 03: 4A Engine Room Loading Bay Crane

Supply 3 current carriers' unit, install and commission current carriers on crane at 4a Loading Bay



Figure 1: Picture of the 40T Crane



Figure 2: Damaged current carrier front view



Figure 3: Current carrier side view

see attached pictures above. The above current carriers are defective.

Crane make: Morris

Capacity:40 ton

Serial no: ZB =40SMG02

The Central Sludge hoist below was installed in 2019. The hoist is supplied from the trailing cable supported by hangers running on the C – Track. The track is constructed in a U-Shape to allow the hoist to be used in the front and back of the sumps/tanks. One of the U bend curves is damaged and needs to be replaced. A section of the C – track is missing and needs replacement.

Line 04 Central Sludge Sump Crane



Figure 4: Damaged C-Track curve



Figure 5: Missing C-Track portions

Replace "C" track curve and damaged "C" track rails also replace all cable carriers on the structure.

Eight off lengths of "C" track Rails

One off "C" track curve

Line 05:

Supply and install C track Bend

Line 06:

Supply and install cable carriers. For c track rails

Line 07:

Stn.4B Chlorine North side and south side,Supply and install 3 ton hoist unit with transmitter,receiver remote controller and pendent also provide a load test certificate for the unit.N.b the hoist unit shall be two speed.

Bid Description: Supply, install and commission new pantograph for mechanical workshop.



Line 08:

4stn. Central sludge dams 3 ton hoist braking system is replace brakes, and service and load

