



Tender Specification for Kliphoek Pump Station Overhead Crane Crab and Hoist

Tender Site Briefing Instruction-2026/02/23

1. Scope of Work:

The 16 ton double girder Electrical Overhead Travelling (E.O.T) crane is required to be fully functional at the Kliphoek Pump Station for the lifting and loading of the DN900 spherical valves to be used as part of the DWS20-0226WTE bid.

Currently this crane is not functional, with the crab removed and the hoist in need of replacement. An order has been placed with a contractor for the replacement of the hoist unit in 2025 and it is envisioned that this replacement will be completed and the crane be available by the time of the award of DWS20-0226WTE. As a matter of contingency, it is requested that the bidders for DWS20-0226 add the manufacture, supply, installation and performance testing of a complete new crab and hoist unit for the existing overhead crane to the scope of work of DWS20-0226WTE to render the existing overhead crane fully functional and certified for safe use.

The addition of the crab and hoist unit shall be incorporated in the BOQ for DWS20-0226WTE as a **provisional item, only to be actioned in the event that the crane is still not available at the time of tender award and only after instruction from the DWS Engineer is received for such works.** An updated BOQ shall be sent to all attendees of the briefing session.

2. Technical Specification

- Supply and installation of new crab and hoist unit, including electrical panels, wire rope, bottom block and hook in accordance with Drawing Nos. 69401/78 & 69402/78.
- Compliant with OHS Driven machinery Regulations, 2015
- Design approved by registered LMI.
- SWL capacity: 16 ton
- Lifting height: 9 m
- Lifting Speed: Fast: 5 m/min (max.), Slow: 0,7 m/min
- Cross Travel Speed: 17 m/min (max.)
- Power Supply: 380VAC, 3 Phase, 50Hz
- FEM Drive Group: 1Am
- FEM Strength Class: P
- Crane Hook: Single Hook, with safety latch, 16 ton rated
- Lift and cross travel motors: IP65 Protection, Insulation Class F
- Wire Rope: Non-spin, galvanised IWRC, lubricated with appropriate rope dressing.
- Rail centres: 1 800 mm (To be confirmed by Contractor on site)
- Corrosion Protection: In accordance with DWS9900 Second Edition, July 2023.
- Crab running wheels: 4
- Digital load indicator required.
- Load limiting device required.
- Slack rope cutout required.
- New pendant and cable with IP65 protection and custom colour coding of buttons in accordance with DWS specification.
- Full load testing and certification of complete crane by a registered LMI. Any faults identified on existing crane structure to be repaired using the contingency amount for DWS20-0226WTE, only after approval by the DWS Engineer.

B. Dearlove

Chief Engineer: DWS - Strategic Infrastructure Asset Management