

## **OPERATIONS AND MAINTENANCE MANUALS**

### **1 OPERATING AND MAINTENANCE (O&M) MANUAL**

- 1.1 The contractor shall provide an operating and maintenance (O&M) manual which will cover the operation, lubrication, maintenance and inspection of the crane including routine and major maintenance of mechanical and electrical components. Routine and major inspection of the structure shall be covered by the structural maintenance manual. Detailed electrical record drawing shall be included with each O&M manual.
  - 1.2 The O&M manual shall be durable and hardbound with properly indexed for easy reading. The contractor shall furnish 6 sets of O&M manuals with the supply of cranes. The contractor shall also provide O&M manual on a CD for reference. These manual shall be supplied 15 days before commencement of training schedule and commissioning of the equipment at employer's site. The O & M manuals shall consist following;
    - .1 A fully detailed as constructed manufacturing specification of the crane and equipment including, without limitation:
      - Drawings and diagrams where appropriate including electrical diagrams and hydraulic schematics.
      - All materials and component parts test certificates
      - A schedule of third party supplied components.
      - A schedule of spare parts provided under the contract.
    - .2 A fully detailed as constructed performance specification of the crane and equipment including, without limitation:
      - Wheel loading
      - Operating speeds and limitations
      - Commissioning test results including current readings
      - Statutory test certificates
    - .3 A fully detailed operating and maintenance manual for the crane, equipment and component parts including without limitation:
      - Setting up and testing procedures
      - Operational duties and restrictions
      - Maintenance and replacement schedules
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