

## TENDER SPECIFICATION

### SUPPLY, DELIVERY, ERECTION/ASSEMBLY, TESTING AND COMMISSIONING OF A MOBILE CRANE

The supplier shall provide, deliver, install, test, commission, and hand over **one (1) new 7-ton rated capacity mobile crane**, complete with accessories, documentation, testing, operator training, warranty support and maintenance and service contract, fully compliant with South African safety and technical requirements.

#### 1. Applicable Standards & Regulations

All equipment shall be manufactured, supplied and commissioned in accordance with:

- **Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)** and **Driven Machinery Regulations (DMR)**.
- Incorporation of Safety Standards by Notice R.542, including SANS standards incorporated therein.
- **Vehicle and mobile crane classifications and certification codes** (e.g., hydraulic mobile crane).
- Relevant **SANS crane classification and technical standards** (e.g., SANS 4301-2 series for mobile cranes, SANS 19 inspection/testing) and equivalent internationally recognized standards.
- All welding and fabrication shall satisfy appropriate ISO/SANS material and quality standards.

*Bidders must demonstrate compliance with all applicable statutory requirements and be responsible for interpretation and compliance with South African law.*

#### 2. Crane General Requirements

##### 2.1. Rated Capacity

- Minimum **rated lifting capacity: 7,000 kg (7tonnes)** at minimum structural configuration with outriggers fully deployed.
- Load capacities must be supported by valid manufacturer's **load charts** showing rated capacity at specified radii.

##### 2.2. Crane Type

- **All-terrain mobile crane** (self-propelled), suitable for industrial/ construction site use.
- Crane classification in bidder documentation to reference the relevant crane code

### 2.3. Boom

- Boom/JIB extension horizontal minimum 15 metres
- Boom length and extension controls must allow safe lifting throughout the working envelope specified in load charts.

### 3. Lifting height

- Minimum 20 metres

### 4. Engine and Powertrain

- Diesel-powered engine.
- Heavy-duty transmission designed for site mobility.

### 5. Safety Devices & Mandatory Features

The crane shall include the following safety systems at minimum:

- **Load Moment Indicator (LMI)/Rated Capacity Indicator** with audible/visual warnings.
- **Over-load protection and Auto-cutout on unsafe lift attempts.**
- **Anti-two block device.**
- **Emergency stop controls.**
- **Outrigger interlock and safe override functions.**
- Safety decals, warnings and operator notices in English.

### 6. Operator Platform and Controls

- Ergonomic controls with clear markings
- Weather-protected cabin or operator platform
- Clear visibility to load path and working area

### 7. Warranty & Support

- Minimum **5-year warranty** from commissioning covering parts, labour and manufacturing defects.
- Spare parts availability for at least **10 years.**

### 8. Comprehensive Maintenance and Service Agreement

- The successful bidder will be required to enter into a **Maintenance and Service Agreement** for the crane for a minimum of **3 years.**



## **Conditions on the delivery of the crane**

### **9. Inspection, Testing & Commissioning**

The successful bidder is expected to:

- Load testing and final commissioning shall be conducted by qualified technicians and, where required, inspected/tested by a **registered lifting machinery inspector**.
  - Crane must be delivered and commissioned with a complete test record including load tests for rated capacity before hand-over.

### **10. Operator Training (once-off)**

- On-site training to be provided by qualified personnel on:
  - Safe crane operation.
  - Pre-operation checks.
  - Daily maintenance checks.
  - Training for a minimum of 6 operators

Operators must hold recognized South African crane operator certifications aligned with SAQA/National Code of Practice requirements.