

1. INTRODUCTION

This document provides an overview of Eskom Generation operating unit technical evaluation criteria to be used when evaluating the tender submissions for the supply of services for crane inspection and load testing, repairs, and maintenance of various types of lifting equipment's.

2. SCOPE

This specification covers the minimum requirements for the placement of the contract for maintenance and repairs on overhead cranes and lifting machinery equipment including inspections, hoist examine and load testing for five (5) years at Arnot Power Station

3. CLASSIFICATION

Public Domain: Published in any public forum without constraints (either enforced by law, or discretionary).

4. ABBREVIATIONS

Abbreviation	Description
LMI	Lifting Machinery Inspector
SWL/kg	Safe Working Load per Kilogram
DMR 18.	Driven Machinery Regulation 18
ISO	ISO
International Standard Organisation	International Standard Organisation

4.1 SCOPE OF WORK SUMMARY

The service that the contractor provides includes three to six-monthly periodic and statutory inspection, monthly-service, and twelve-monthly load testing of all lifting equipment as well as emergency breakdown of overhead cranes, hoists, crawling beams, air winches, and other lifting equipment. The Standard Task Codes apply to all Lifting Equipment listed in the price list; Inspect, examines, service, and perform overhaul inspection on lifting equipment and lifting machinery in (six-months intervals) for 5 (years) as per the price schedule. Major repairs, examination, load testing and hooks measurement will be performed in (twelve-month intervals) for 5 (years) as per the price schedule and the load testing to be done with water weight or test weigh.

The Major Repairs and Overhaul scope of work for selected Overhead Cranes, it will be plan and execute as per the scope of work within the duration of 2 years of the contract.

The contractor must, be a level one approved to inspect and examine overhead traveling cranes and registered with the Department of Labour as a Lifting Machine Entity (LME) and to be able to employ a competent Lifting Machine Inspectors (LMI) as registered with the Engineering Council of South Africa (ECSA), and competent, skilled and trained support staff with all equipment, tools and, other resources necessary to fulfil the service listed.

4.2 ESKOM STANDARDS OMISSIONS AND ADDITIONS

The following Standard Task code applies to all Mobile Crane, Forklift, Telescopic Boom Handler, Hi-Up Truck and Tractor listed in the price list; Examine, load test, take the hook measurement, and repair of lifting tackles on the cranes, ropes inspection, and replacement will take place once every year as per the price schedule. The contractor provides all the necessary documents including load test certificates, inspection reports, quality control plans, and permits to work for all work undertaken.

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5. ADDITIONAL INFORMATION TO SPECIFICATION

5.1 LIFTING TACKLES SPECIFICATION

Operation Description	Load Test	M6 Service Inspection	3M Service Inspection	1M Service Inspection	Major Repairs	Replacement
Hoists Examine & Load Test (5ton; 2ton; 1.5ton; 1ton; 500kg)	YES	YES	NO	NO	YES	YES
Cranes Overhead Examine & Load Test (150ton; 40ton; 25ton; 20ton; 10ton; 6ton)	YES	YES	NO	NO	YES	YES
Mobile Cranes Examine & Load Test (25ton;18ton; 16ton)	YES	YES	NO	NO	YES	YES
Forklifts Load Test (7ton; 5ton; 3ton; 2.5ton)	YES	YES	NO	NO	NO	NO
Hi-Up Truck Load Test (3.8ton)	YES	YES	NO	NO	NO	NO
Crane Wire Rope (38mm; 30mm; 26mm; 20mm; 19mm; 16mm; 13mm)	NO	YES	NO	NO	NO	YES
Hand Power Lifting & Pulling Device (6ton; 3ton; 1.5ton;	YES	NO	YES	NO	NO	YES
Air Winches & Air Chain-block	YES	NO	YES	NO	YES	YES
Lifting Tackles (Beams & Crawl)	YES	NO	YES	NO	NO	YES
Lifting Tackles (Snatch-block & Shackles)	YES	NO	YES	NO	NO	YES
Pendants control	NO	YES	NO	NO	NO	YES
Drives	NO	YES	NO	NO	YES	YES
Pendant Cable	NO	YES	NO	NO	YES	YES
Radio Control Pendants	NO	YES	NO	NO	YES	YES
Load Indicator	NO	YES	NO	NO	YES	YES
Final Limits Switch	NO	YES	NO	NO	YES	YES
Warning Device	NO	YES	NO	NO	YES	YES
Information Boards	NO	YES	NO	NO	NO	YES

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6. TENDER EVALUATION CRITERIA

6.1 EVALUATION CRITERIA

The evaluation criteria described in the following sections will be used to evaluate any service provider that wishes to provide services for Overhead Crane inspections, load testing, repair, and maintenance of various types of lifting equipment's as per the price list. The evaluation will be conducted in three consecutive stages, i.e., Technical Evaluation Stage 1: Mandatory Evidence, Stage 2: Functionality.

6.2 MANDATORY TECHNICAL RETURNABLES:

During the enquiry the items listed below will be considered mandatory, to be supplied with the tender. Failure to provide the details above will render the tender to be non-responsive, and thus tender will be disqualified. Only **Yes** or **No** answers will be accepted, and the required outcome is for the tenderer to have **Yes** for all mandatory requirements listed on the table below. An assessment of '**No**' against any mandatory requirements shall not be further evaluated against Qualitative Criteria.

Mandatory Evaluation	Yes	No
Lifting Machine Entity (LME Registered) Company certified as for level One Approved to do inspection and examine overhead traveling cranes and registered with the Department of Labour as a Lifting Machine Entity (LME) as per Government Regulations.		
Lifting Machinery Inspector (LMI Registered) Company has employed a full-time Lifting Machinery Inspector (LMI) registered with the Engineering Council of South Africa (ECSA). (Proof of Competent, Signed Report, and CV referencing the experience from the current company, performing Cranes Inspection and Load Testing, attached Services Inspection Report).		

6.3 TECHNICAL RETURNABLES FOR QUALITATIVE EVALUATION:

Qualitative Evaluation Criteria are weighted evaluation criteria used to identify the highest technically ranked tenderer after determining that all the Mandatory Evaluation Criteria have been met.

Qualitative Evaluation	Max	Min
Previous Work Experience: ❖ Work on similar projects with references e.g., Provision for maintenance and repairs on overhead cranes and lifting machinery equipment includes, repairs, inspections, services, hoist examine and load testing. With 10 years or more Maximum Experience (20%) and Minimum 5years Experience (15%)	20%	15%
Lifting Inspector Work Experience: ❖ More than 10 years' experience registered (LMI) with the Engineering Council of South Africa (ECSA) and experienced on Mobile Cranes Inspection, Overhead Crane, Hoist, Lifting Tackle Inspection, Examine and Load Testing. Attached Signed Services Inspection and Load Test Report. (20%) Public Domain	20%	15%

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❖ Less than 10 years' experience BUT competent LMI registered with Engineering Council of South Africa ECSA). Proof of competent, CV with the reference of LMI performing Mobile Crane Inspection, Overhead Crane, Hoist, Lifting Tackles Inspection, Examine and Load Test Report. (Attached Signed Services Inspection and Load Test Report) 15%		
Skills and Competencies		
Technician: ❖ Engineering N3 Certificate OR equivalent with a relevant trade test certificates preferably millwright trade test Certificate as the Technician with more than 10 years practical experience (CVs with reference to overhead cranes repairs, maintenance, and services) 15% ❖ No formal qualification BUT with Mechanical or Electrical Trade Test Certificate with more than 10 years cranes experience (CVs with reference to overhead cranes repairs, maintenance, and services) 5%	15%	5%
Semi-Skilled Worker: ❖ 10 years or more Overhead crane experience ((CVs with references to working on overhead cranes, hoist, mobile cranes, and any other lifting equipment includes repairs, maintenance, and services. 15% ❖ Less than 10 years Overhead crane experience ((CVs with references to working on overhead cranes, hoist beams, mobile cranes and any other lifting equipment includes repairs, maintenance, and services. 5%	15%	5%
Companies Organisational structure		
❖ More than 1 Technicians (Engineering Certificate) Crane technicians with a relevant trade test certificates (Electrical / Mechanical) trade test with overhead cranes experience.	10%	10%
❖ More than 1 Lifting Machine Inspectors (LMI) as registered with the Engineering Council of South Africa (ECSA) and competent with experience on cranes inspection and load testing.	10%	10%
❖ More than 2 Semi-Skilled workers on the company organisational structure with the cranes practical experience and the technical plant knowledge.	5%	5%
❖ Transport (Needs to be shown on the structure)	5%	5%
TOTAL	100%	70%