

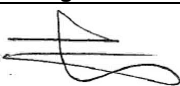
	Business Management System Scope of Supply: Height Adjustable Turning Device	Ref No.: TEE-L-678
		Rev No.: 1
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Document Type	Scope of Supply
Scope of Activity	Supply of a Height Adjustable Turning Device for LP Turbine Rotors to Eskom Rotek Industries (ERI)
Purpose	Define Scope of Supply for the Height Adjustable Turning Device

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1 REFERENCES

Table 1: Table of References

No	Title	Document/Project Number	Issue/Revision
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	None		


2 ACRONYMS

Acronym	Description
ERI	Eskom Rotek Industries
ED	Engineering Development
RPM	Revolutions Per Minute
SANS	South African National Standards

3 INTRODUCTION

Eskom Rotek Industries (ERI) undertakes the function of maintenance support to Eskom's generation fleet. This implies that ERI also overseas maintenance of multiple subsystems contributing to power generation set up within the power station i.e. Turbine system, Boiler system and many others. Optimum execution of this work requires that sufficient tooling (including Jigs & Fixtures) is always available.

De blading and Re blading of Rotors is another critical scope covered by Works artisans and Technicians when refurbishing the complete Turbine module. This process requires the use of Pin Root Drilling machine for last stage blades as part of the toolbox set. To be able to complete this task, the turbine rotor must be rotate to different

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positions, then help in place while pin drilling operations are in progress. To achieve this, a height adjustable roller support stand is required. This document therefore sets out the technical requirements of this machine for purchasing purposes.

4 PURPOSE

The purpose of this document is to define the specification for the supply of a Height Adjustable Turning Device to Eskom Rotek Industries Turbo Gen Services Works Department.

5 GENERAL REQUIREMENTS FOR THE

The contractor will be required to support ERI TGS Works Department with the following

- | | |
|---------------|---|
| TEE-L-678-001 | The supply will include one (1) driven turning device and one (1) idle turning device |
| TEE-L-678-002 | <p>The Driven Turning Device shall include the following:</p> <ol style="list-style-type: none"> 1. Substructure with height adjustable column 2. Height adjustment with hydraulic cylinder 3. Rollers with laminate bandages (Texmat 500 or similar) 4. 2 Gearmotors with Brake 5. Remote control with 5m cable 6. Lifting Points for handling |
| TEE-L-678-003 | <p>The Idle Turning Device shall include the following</p> <ol style="list-style-type: none"> 1. Substructure with height adjustable column 2. Height adjustment with hydraulic cylinder 3. Rollers with laminate bandages (Texmat 500 or similar) 4. Lifting points for handling |
| TEE-L-678-004 | The total capacity (safe working load) for the driven and idle device shall be 75000kg. |
| TEE-L-678-005 | The design of device must ensure that once the height of the rollers has been set, it will not change while carrying a maximum load of 75000kg |
| TEE-L-678-006 | The rollers are to accommodate components with Ø250mm to Ø750mm |
| TEE-L-678-007 | The rollers for each device shall be solid steel, laminated with Texmat 500 or similar material. |
| TEE-L-678-008 | The desired centre height of rollers is approximately 1500mm above the base of the device. This can be achieved by the stroke adjustment of the hydraulic cylinder. |

TEE-L-678-009

The device body shall be of a welded construction, designed for heavy components.

TEE-L-678-010

The devices will be installed on a Machine plate in the requestors workshop.

TEE-L-678-011

The device shall be supplied with coating appropriate for workshop conditions.


TEE-L-678-012

The supplier shall provide the appropriate certificates of conformance the suitable design standards in the country of design and manufacture.

TEE-L-678-013

The supplier shall include the following documentation

1. CE – Marking
2. Instruction Manual
3. Maintenance Instructions
4. Spare Parts List
5. Assemble Drawings (note the assembly drawing must include a view providing details on the outer dimensions of the devices. This information will be used to determine interfaces, positioning and spacing requirement with other components. ERI does not require any information that is the intellectual property of the supplier).

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APPENDIX A: COMPLIANCE CHECKLIST

DESIGN & DRAWINGS WORK COMPLIANCE CHECK LIST APPROVAL					
Requirement	Compliance (tick appropriate column)			Comment	
	Yes	No	Concession		
TEE-L-678-001					
TEE-L-678-002					
TEE-L-678-003					
TEE-L-678-004					
TEE-L-678-005					
TEE-L-678-006					
TEE-L-678-007					
TEE-L-678-008					
TEE-L-678-009					
TEE-L-678-010					
TEE-L-678-011					
TEE-L-678-012					
TEE-L-678-013					
DESIGN & DRAWINGS WORK COMPLIANCE CHECK LIST APPROVAL					
Contractor:			Designation:		
Name:			Signature:		Date: