

	Expression of Interest (EOI) or Request for Information (RFI) Template	Document Identifier	240-72663051	Rev	4
		Effective Date	17 June 2025		
		Review Date	June 2030		
		EOI/RFI Number	PR 1076263365		

**PART A
REQUEST FOR INFORMATION (RFI)**

Description of the works/goods/services	Developing Repair Procedure(s) for Creep Aged High-Pressure (HP) Turbine Rotor Disc		
Deadline for submission	20 January 2027	At (South African Standard Time)	10H00
Tender Office address	Tenders are uploaded via Eskom Tender bulletin site on the Eskom E-tendering page.		
EOI's/RFI are to be submitted electronically via Eskom E- tendering site by the stipulated closing date and time. <i>Please note it is the responsibility of the supplier to ensure that EOI/RFI submission is submitted before the closing date and time</i>	https://eTendering.eskom.co.za		
Electronic Submission of RFI	The tenderer must upload the tender via Eskom Tender bulletin site on the Eskom E- tendering page. All documents need to be submitted in a PDF and Excel format (The upload size per document is 500 megabytes and total submission is restricted to 4 gigabyte). No Zip/condense files can be uploaded No hard copy will be accepted If for some reason you resubmit your EOI, then the latest version of the EOI submitted will only be accepted and all previous submission/s will be null and void. Please ensure that the submission status is indicated as complete.		
E-tendering Help Manual for supplier	Supplier Help Manual guide and video can be found on Eskom E-Tendering page.		

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1. Introduction

Eskom Holdings SOC Ltd (“Eskom”) invites you to submit an:

- **Request for information (RFI)** to submit information for the works/goods/services as stated in the table. This RFI is a stand-alone information-gathering and market-testing exercise, intended only to inform and assist Eskom’s further deliberation and development of a strategy for the [Drafting note: insert name of project]. Eskom may request indicative prices if so, stated in this RFI.
- This Request for Information (RFI) invites comprehensive submissions from the local market for the development, qualification, and implementation of an approved weld repair procedure for creep-exhausted HP turbine rotor discs. Respondents are required to demonstrate their technical capability and proposed methodology. The proposed methodology should be capable of extension to intermediate-pressure (IP) and low-pressure (LP) turbine rotor discs across the Eskom fleet.

2. SOW for the RFI

The respondents to this request for information should establish realistic costs estimates and execution timeliness for the following.

- a) The mock-up work, i.e. drafting the pre-WPS’s and qualifying WPQR on test pieces as well as welding operators in accordance with ISO 15614-1 L2 & ISO 14732. Optimize WPS parameters to ensure the weldment owns the desired mechanical and metallurgical properties. Note: the material specification for the Hendrina Rotor Disc is 28CrMoNiV4-7 or 30CrMoNiV5-11.
- b) Development of a technically sound and industry compliant repair methodology for creep exhausted HP rotor discs. This should be in the form of an Engineering report. Hendrina stage 1 rotor disc comprises 144 blades, while the stage 2 disc comprises 145 blades (see Figure 1-3 for reference).
- c) Validation and qualification of the repair procedure through appropriate engineering assessments and testing. This process should detail and include (but not limited) initial damage assessment, specific rotor design high stress area identification (determined by modelling), machining requirements, base material condition assessment after machining, possible transition or buttering layers, weld build-up sequence, detailed post weld heat treatment (PWHT) methodology, non-destructive testing (NDT), machining back to design, and final inspections.

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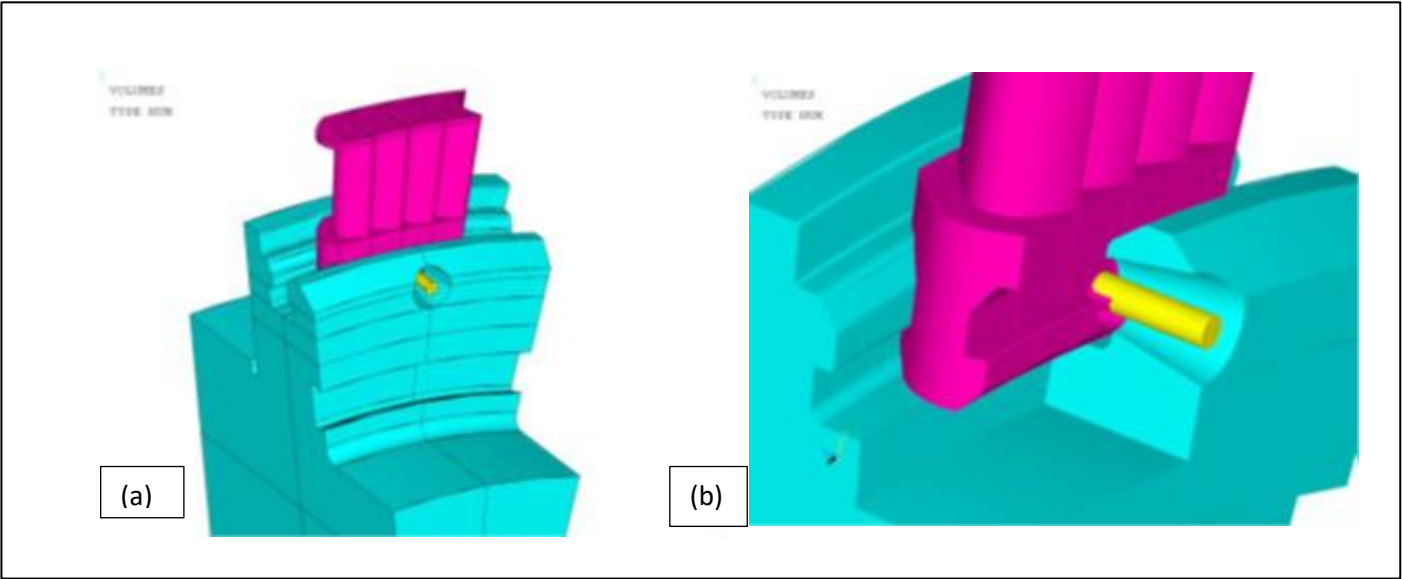


Figure 1: Schematic showing the (a) segment of stage 1 disc, (b) sectional view of plug sample and position of the hole

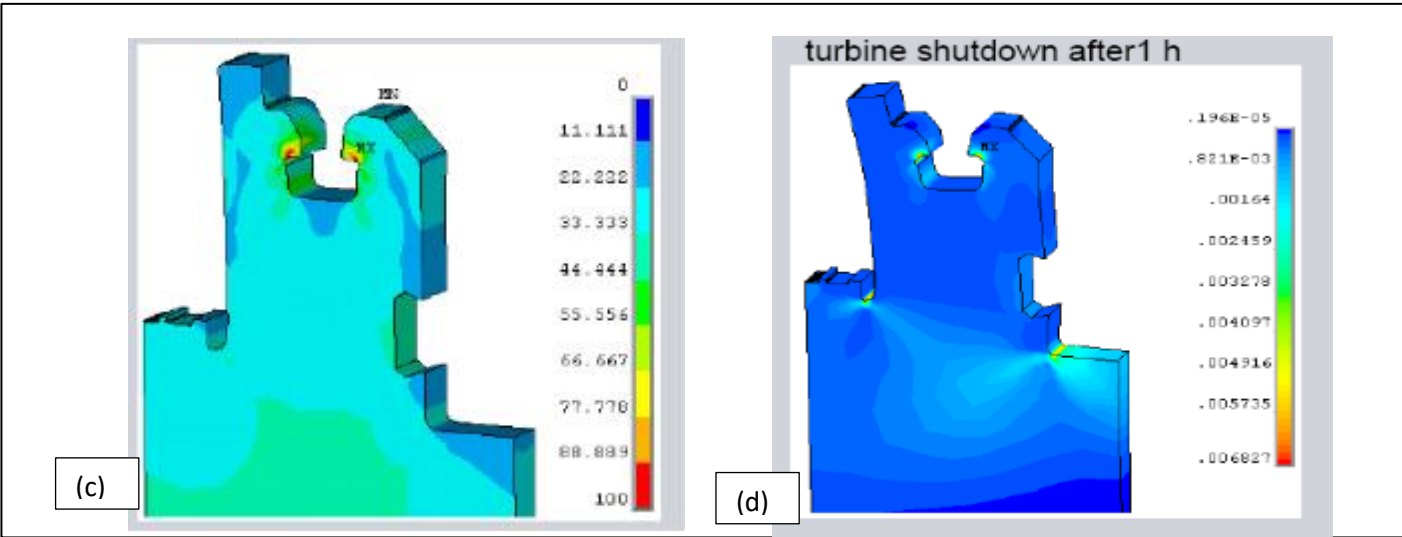


Figure 2: Schematic showing the (c) FEM showing crack risk areas in top radii of the blade groove, and (d) FEM showing LCF risk areas in disc to shaft radii as well as top blade groove radii.

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Name	Designation	Signature	Date
Palesa Mauwane	Graduate in Training	<i>P Mauwane</i>	19 October 2026
Telephone number	Fax and/or e-mail address	MauwanP@esom.co.za	
+27118005914			

PART B RESPONSE SHEET IN TERMS OF A REQUEST FOR AN EXPRESSION OF INTEREST/ REQUEST FOR INFORMATION To be completed by the supplier			
To	Eskom Holdings SOC Ltd	Date	19 October 2026
Attention	Palesa Mauwane		
Tel no	<i>[insert your tel number]</i>	Fax no and /or e-mail address	<i>[insert your fax number and/or e-mail address]</i>
From	<i>[insert the registered full legal name of the company]</i>	Address	<i>[insert the business address of the company]</i>
Address	<i>[insert the physical address of the company]</i>		
Sender	<i>[insert the full name of the sender at the company]</i>		
Description of the works/goods/services	Developing Repair Procedure(s) for Creep Aged High-Pressure (HP) Turbine Rotor Disc.		

Please find below our response to Eskom's questions:

No.	Question	Please indicate your response in this column
1.	Your contact's name and contact details	
2.	Company registration number	
3.	Does your organisation have experience in the development, qualification, and implementation of weld repair procedures for creep-exhausted HP, IP or LP turbine rotor discs? If yes, provide the following information:	

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	a) Description of similar projects successfully executed. b) Type of rotor discs involved (HP, IP, and/or LP). c) Scope of work performed, including procedure development, welding, heat treatment, testing, qualification, and implementation. d) Relevant industry standards, codes, or specifications applied. e) Details of technical personnel and specialist resources available for the work	
4.	Establish realistic costs estimates and execution timeliness for: a) The mock-up work, i.e. drafting the pre-WPS's and qualifying WPQR on test pieces as well as welding operators in accordance with ISO 15614-1 L2 & ISO 14732. Optimize WPS parameters to ensure the weldment owns the desired mechanical and metallurgical properties. Note: the material specification for the Hendrina Rotor Disc is 28CrMoNiV4-7 or 30CrMoNiV5-11. b) Development of a technically sound and industry compliant repair methodology for creep exhausted HP rotor discs. This should be in the form of an Engineering report. Hendrina stage 1 rotor disc comprises 144 blades, while the stage 2 disc comprises 145 blades (see Figure 1-3 for reference). c) Validation and qualification of the repair procedure through appropriate engineering assessments and testing. This process should detail and include (but not limited) initial damage assessment, specific rotor design high stress area identification (determined by modelling), machining requirements, base material condition assessment after machining, possible transition or buttering layers, weld build-up sequence, detailed post weld heat	

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	treatment (PWHT) methodology, non-destructive testing (NDT), machining back to design, and final inspections.	
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Yours faithfully

Name	Designation	Signature	Date
Telephone number		Fax and/or e-mail address	

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