

	Request for Information (RFI)	Template Identifier	240-72663051	Rev	1
		Document Identifier	N/A	Rev	N/A
		Effective Date	01 August 2016		
		Review Date	September 2022		
		RFI	CORP5511		

PART A REQUEST FOR REQUEST FOR INFORMATION(RFI)			
Description of the works/goods/services	Finite Element Analysis Software Licenses, Maintenance and Support, Training and Migration of Data.		
Deadline for submission	17 September 2021	At (South African Standard Time)	10:00am
Tender Office address	Eskom Megawatt Park Tender Office P.O.Box 1091 Johannesburg 2000		
Tenders are to be delivered to the following address on the stipulated closing date and time:	Eskom Megawatt Park Tender Office Northside No1 Maxwell Drive Sunninghill,		
	N.B: Tenderers will not be allowed to enter Eskom Megawatt Park premises if they are not in possession of a valid travel permit issued under the lockdown regulations. Tenderers/business should know whether they have the necessary permits to travel and conduct business or not, and if they don't have these permits they can make use of courier companies, who under the relevant lockdown level have been defined as essential services, and thus should have the necessary permits to travel and deliver tenders to the various tender offices. Eskom will not take any responsibility for any late submissions as a result of non-compliance to the tender delivery requirements.		
Precautionary measures to be taken on delivery of Tender documents	Tenderers shall ensure all precautionary measures to prevent the spread of Covid 19 virus as issued by the Department of Health or as prescribed by the Disaster Management Act and other relevant authorities are undertaken when tender documents are transported and delivered at		

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	Eskom Megawatt Park Tender Office.
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Eskom Holdings SOC Ltd ("Eskom") invites you to participate to respond to Finite Element Analysis Software Licenses, Maintenance and Support, Training and Migration of Data.

- 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 employment of resources or companies experienced in **Finite Element Analysis Software Licenses, Maintenance and Support, Training and Migration of Data.**
- Eskom aims to obtain indicative prices, timelines as well as information regarding the different solutions offered by the market. Respondents are required to provide documentation detailing their different offerings especially around functionality, Indicative Pricing and requirements in order to assist Eskom.
- Only Suppliers who responded and shown ability to offer the required services will be invited to respond to the enquiry process that will follow this request unless otherwise approved in the strategy.

Eskom has delegated the responsibility for this **RFI** to the signatory of this document, whose details can be found below.

We look forward to receipt of your response.

Yours Faithfully

Name	Designation	Signature	Date
Motlagae Mokoka	Procurement Officer	<i>M.L. mokoka</i>	24 August 2021
Telephone number		e-mail address	mokokam@eskom.co.za

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PART B RESPONSE SHEET IN TERMS OF A REQUEST FOR INFORMATION To be completed by the supplier			
To	Eskom Holdings SOC Ltd	Date	
Attention	Motlagae Mokoka		
Tel no	011 800 2165	Fax no and /or e-mail address	mokokam@eskom.co.za
From		Address	
Address			
Sender			
Description of the works/goods/services	Note: The scope will be on ANNEXURE A .		

NOTE: SUPPLIERS SHOULD RESPOND TO PART C AND D.

PART C TECHNICAL QUESTIONNAIRES		
No.	Questionnaire for Individuals	Please indicate your response in this column
1	Are you an OEM or a reseller of your solution?	
2	What is your footprint in South Africa? Provide a brief description of your company background.	
3	What support capability do you have in South Africa	
4	Is your solution deployed in the Utilities industry? If so, provide credentials.	
5	Is your company able to provide the full scope of work	

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	as per Annexure A?	
6	Describe your service level agreement (SLA) and approach to maintenance & support? Please provide details on how such an engagement would be run and whether these skills are based locally within South Africa or internationally.	
7	What is the turnaround time on technical support queries?	
8	Do you provide product module specific training on all the products that you offer? Please provide details of this along with certification programs available and indicate if your training plan consists of tier levels.	
8	Does the software offer online help including complete online documentation and tutorials?	
10	Does the maintenance contract cover free new releases and technical support?	
11	List the preferred operating systems and versions supported for your solution. Detail preference, certified and ready for support.	
12	Please provide a brief description of your licensing model and licensing structure for the software.	
13	Is the licensing dependent on the number of concurrent accesses or is the software license dependent on workstations licenses according to the number of stations connected or named users? Please describe	
14	Can licenses be borrowed for remote offline usage?	
15	Describe your software version and lifecycle management i.e. version management over the past 5-	

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	years?	
16	Describe how your software solution is designed to identify and authorize end users to access the system?	
17	Provide details on the licensing setup for utilising multiple CPUs / GPUs for high DOF analyses.	
18	Does your organisation's Quality Management System comply with the requirements of ISO 9001:2015?	
19	Does your organisation's Quality Management System comply with the requirements of ASME NQA-1:2017?	
20	Does your organisation's Quality Management System comply with the applicable requirements of the USNRC such as 10 CFR Part 21 and 50?	
21	Does your software offer a verification test package to confirm the client's installation produce accurate results?	
22	Is your software nuclear accredited?	
23	Does your product solution offering have geometric modelling capabilities and is the end user/s able to import CAD models? If yes, state file formats.	
24	Does your product offer multi-physics integrated/interaction, parametric analysis, sub-structuring and sub-modelling capabilities and 2D plane/axisymmetric capabilities?	
25	Has your product solution been designed with a comprehensive material database? If yes, do these materials include linear materials such as: anisotropic and temperature dependent; and nonlinear materials such as: hyper, plasticity, rate independent, isotropic, concrete, rate dependent, anisotropic, damage models, geomechanics materials, multiphysics	

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26	Does your product have the ability to perform and use linear and nonlinear contact algorithms? If yes, does your product offering support the following: formulations for contacts: Augmented Lagrange, Pure penalty, MPC and Normal Lagrange?	
27	Does your solution have the capability to perform node to node, node to surface, surface to surface, line to line and line to surface contact types?	
28	Does your product have the capability to perform built-in manual and automated meshing abilities to generate sweepable meshes, perform mesh refinement and face matching	
29	Does your product offer structural solver capabilities (linear static, nonlinear static, eigenvalue buckling, transient).	
30	Does your product offer thermal solver capabilities (steady-state, transient analysis, electric)	
31	Does your product offer vibration solving capabilities (modal, harmonic, rotordynamics)	
32	Does your product provide implicit and explicit solving capabilities?	
33	Does your product provide modal and time-history dynamic modelling capabilities?	
34	Does your product offer composite modelling capabilities?	
35	Is your product able to simulate creep material behaviour, assess creep stress relaxation, and creep strains over time?	

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36	Does your product have the ability to perform fracture mechanics and crack growth simulations? With the ability to be able to compute traditional fracture mechanics quantities, including stress intensity factors, J-integrals and energy release rates?	
37	Does your product offering provide the capability for cyclic symmetric modelling and solution capability with the functionality to define cyclic regions?	
38	Does your product have bolt pretensions, gasket modelling, joint and spot weld modelling capabilities?	
39	Does your product solution have the capability to connect/link and couple various solving systems (finite element models) and transfer data results between the systems i.e. static to transient?	
40	Does your product provide the capability to be able to put in paths in the FEA model to extract linearized stress results for code based applications	
41	Does your product offer a cloud based solution?	
42	Please provide a detail cost composition for FEA Software licensing and detail cost breakdown of FEA software including price difference between licenses (as per Annexure A)	
43	Please provide indicative cost for Support and Maintenance for 5 years based on licensing requirements as per Annexure A	
44	Does your company have sufficient certified/qualified and experienced support personnel to provide support and maintenance services. Please detail their experience level.	

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PART D COMMERCIAL QUESTIONNAIRES		
No.	Commercial Information	Please indicate your response in this column
1.	Your contact name and contact details	
2.	Company registration number	
3.	Indicative prices of how much will it cost for this transaction	
4.	Company registration number	
5.	Central Supplier Database number	

Yours faithfully
Suppliers Information

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

1. INTRODUCTION

Eskom Commercial is requesting suppliers to respond to RFI Finite Element Analysis Software Licenses, Maintenance and Support, Training and Migration of Data.

2. BACKGROUND

Finite element analysis (FEA) is specialised engineering software used to simulate structural and mechanical equipment under a variety of physical conditions. These simulations are essential in fitness for service (FFS) assessments and life extension (LIFEX) studies used extensively on in-service plant to demonstrate safe operation and to support energy availability factor (EAF) in a capacity-constrained environment. The simulation provides engineers with the capability to make design-engineering assessments and modifications of structural equipment in a plant production environment, with a view to ensure system reliability and availability.

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Physical Metallurgy and Structural Integrity section requires FEA to support the Eskom wide fleet on structural integrity analysis, which includes fitness for service (FFS) and LIFEX, of power plant components including all turbines, pressure vessels, boilers, major pumps fans and balance of plant. This entails performing FFS analysis for safe operation under varying conditions, life consumption and damage levels. FEA is also used in plant modifications, root cause analysis of failures on generating plant, fracture mechanics analysis (crack modelling) and is required to validate or counter prove original equipment manufacturers (OEMs) simulated results.

Nuclear Engineering provides continuous component integrity and structural strength analysis/design support to Koeberg on any structure or component that needs integrity calculation or structural strength verification as well as in-house design solutions for plant modifications and review of Contractor's design solutions. Nuclear Engineering is responsible for FEA of various safety critical problems at Koeberg.

Engineering Development uses FEA software to verify the structural integrity of complex engineering parts during normal and abnormal conditions. The department provides professional engineering services including, new developments and designs, reverse engineering, special projects, research and investigations related to large Steam, Gas and Hydro Turbines, Generators and related plant.

2.1 OBJECTIVE

Eskom intends to use the information provided as a means of providing the following:

- 2.1.1 For strategic sourcing purposes
- 2.1.2 For transformation and developmental objectives

3. SUBMISSION GUIDELINES

To ensure the receipt of communication with regard to this request for information process, kindly complete Appendix A – Acknowledgement Form and return it by email as indicated on the form within 3 days of receiving this Invitation.

Please submit 1 copy and 1 original documents.

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4. METHOD OF RESPONDING TO THE RFI

All submissions responses must be clearly marked as follows:

- Offer Confidential Enquiry Reference no: **CORP5511**
- Closing date: **17 September 2021**
- Closing time: 10 am South African Standard Time.

5. HANDLING OF CORRESPONDENCE AND DOCUMENTS

The submission may not be addressed to any Eskom Holdings employee, nor may any Eskom employee deposit a tender in the tender box on behalf of a respondent, except one lodged by courier.

Eskom Holdings does not take responsibility for tenders delivered to any other site than the Tender Office as specified in the above.

You are urged to ensure that all issues in your submission are sufficiently clear and all documentation completed and incorporated in your submission at the time of submission. Non-adherence to this will prejudice and may disqualify your offer from further consideration.

Your RFI submission should have a thorough index and reference all documentation submitted. RFI documentation should be neatly filed / bound.

6. QUERIES AND QUESTIONS

No questions, during the RFI period will be answered telephonically. Questions must be submitted in writing, either via e-mail to:

Attention: Motlagae Mokoka

E-mail: Mokoka@eskom.co.za

The closing time for clarification of questions and queries is will on the **10 September 2021**.

This submission will not be considered unless it is -

- Received on or before the time and date as indicated
- Sealed and signed by person(s) duly authorised to act on behalf of your company
- Received in full

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Eskom Enterprises reserves the right to cancel this enquiry process at any time prior to entering into any contract that may result from this process and will not accept or incur any liability for such cancellation.

Eskom Enterprises is not bound to accept any of the submissions, nor give reasons for any decisions in this respect.

The Information provided below may be used when going out on enquiry for a request for proposal or a quotation.

7. IMPORTANT NOTES

- 7.1. Please note that this enquiry is not a Request for Quotation/Proposal but a Request for information only and therefore non-committal and does not constitute a guarantee of business, or an agreement to negotiate a binding agreement.
- 7.2. Due to the specific need that this RFI process has to fulfil, Eskom wishes to clarify that this invitation is not intended to impede, amend or replace any current or future procurement process that Eskom has engaged in or will engage in.
- 7.3. This RFI is a stand-alone information-gathering and market-testing exercise, intended only to inform and assist Eskom's further decisions. No respondent, through submission of information will gain any right to participate in any future process, and participates herein on the basis that it is providing information voluntarily to strengthen a potentially beneficial process for all stakeholders. In addition, no participant shall be prevented or excluded from participation in the bidding process due to submission of information in response to this RFI.
- 7.4. Any information provided pursuant to this RFI process and any subsequent processes and/or engagement is not confidential but Eskom will use the information only in the course of its process Finite Element Analysis Software Licenses, Maintenance and Support, Training and Migration of Data to Eskom Holdings SOC Limited.
- 7.5. Through making a submission, a respondent accepts the terms and conditions which govern this process.
- 7.6. All participants responding to this RFI process need to ensure that they have received all information and remain solely responsible for satisfying themselves as to the information required in responding hereto and are fully responsible for all costs incurred in relation hereto and under no circumstances will any resultant cost be borne by Eskom.
- 7.7. Eskom reserves the right not to proceed with any further engagements on the requirements presented.

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7.8 Please complete the attached Acknowledgement Form and return it by email.

8. PROJECT TIMELINES

The timetable for the RFI process is set out as follows:

Item	Action	Due Date
1	RFI issue date	24 August 2021
2	E-mail acknowledgement form	8 September 2021
3	Closing date for clarification of questions	10 September 2021
4	RFI closing date and time	17 September 2021

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