	Request for Information (RFI)	Document Identifier	240-72663051	Rev	1	
		Effective Date	October 2022			
		Review Date	October 2027			
		EOI/RFI Number	MPKOM11115GX			

PART A REQUEST FOR INFORMATION (RFI)			
Description of the works/goods/services	<i>Establishment of an accredited Wind Turbine Training Facility</i>		
Deadline for submission	<i>04 June 2024</i>	At (South African Standard Time)	<i>10:00</i>
Tender Office address	Tender Box Ground Floor No.10 Smut Avenue Witbank/Emalahleni Mpumalanga		


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

- 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 Establishment of an accredited Wind Turbine Training Facility. Eskom may request indicative prices if so, stated in this RFI.

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
<i>Mpho Mosikari</i>	<i>Procurement Manager (Acting)</i>		2024/04/22
Telephone number		Fax and/or e-mail address	<i>MosikaM@eskom.co.za</i>

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1. INTRODUCTION

Komati Power Station has undertaken to Repurpose the station towards the Production of Renewable Energy. The process in terms of transition further delves into the skilling/upskilling of employees and qualifying community members within the renewable technology sector. This led to the setting up of an accredited training facility, repurposing current facilities on the Power Station.

The Works consist of:

- Design and Refurbish to the required state (Facility Accreditation).
- Procurement of plant & equipment.
- Installation and Commissioning; and
- Operation and maintenance.
- Training of Trainers

2. BACKGROUND

South Africa's Just Energy Transition (JET) is aimed at supporting the decarbonization of the minerals and energy sectors in a socially responsible manner while contributing to the economic development of the country. Komati Power Station has been decommissioned and, Repowering & Repurposing efforts have been identified at the site to realise this.

The skilling/upskilling of personnel is critical within this transition from Coal to Renewables, specifically directed towards construction of Wind Energy within Eskom.

3. Scope of Work


The training facility should be designed with the following features:

3.1 General

3.1.1 Simulation and Training Equipment: incorporate advanced simulators and training equipment to provide hands-on experience in wind turbines. This should be inclusive of a wind turbine training tower designed to simulate the environment of a wind turbine, including a training nacelle and rotor blades. Simulators to include advanced simulation technology and virtual reality (VR) platforms for immersive training experiences. This will be to allow trainees to practice complex tasks, such as turbine blade repair or emergency rescue scenarios, in a safe and controlled virtual environment before applying their skills in real-world settings.

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3.1.2 Classrooms and Lecture Hall: design modern classrooms and a lecture hall equipped with audio-visual technology to facilitate theoretical learning and interactive sessions.

3.1.3 Practical Workshops: include a dedicated workshop spaces with tools and machinery for practical training in installation, maintenance, and repairs of wind turbines; this should include but not be limited to mechanical, electrical, and hydraulic equipment. Workshops should include mock-up components for hands on training in turbine maintenance, repair, and troubleshooting. Trainees should be able to gain experience in tasks such as blade inspection, blade repair, gearbox servicing and electrical systems diagnostics.

3.1.4 Safety Training Zones: Establish safety training zones where students can learn proper safety protocols and procedures for working in wind turbine environments, including. First Aid, Fire Awareness, Manual Handling and Working at Heights. Training scenarios should be inclusive of, but not limited to Advanced Rescue, Enhanced First Aid and Slinger Signaller These zones should be equipped with safety harnesses, evacuation systems and first aid stations.

3.1.5 Outdoor Training Areas: Utilize outdoor spaces for field training exercises, equipment demonstrations and real-world scenario simulations, allowing students to apply their knowledge in practical settings.

3.1.6 Environmental Condition Simulator: Design facilities to simulate various weather conditions and environmental factors that wind turbine technicians may encounter in the field. This should include wind speed and direction simulation, temperature variations, and adverse weather scenarios to enhance trainees' readiness for challenging working conditions.


3.1.7 Laboratories: Set-up specialized laboratories for research and development in renewable energy technologies, enabling students to conduct experiments and innovate solutions.

3.1.8 Technical Laboratories:

- a. Set-up specialized laboratories for training in electrical systems, hydraulic systems, and mechanical components and bolting.
- b. Lift training, inclusive use of the service lift in the Wind Turbines, involved in any Installation and or repairs of the Lifts, allowing trainees to operate, inspect maintain and be safe while using any type of service lift and safe working procedures during emergency conditions and breakdowns.
- c. Crane and Hoist training, consisting of crane and hoist basic operations, crane and hoist inspection and maintenance associated with wind turbines systems. The labs should feature equipment for testing and analysing turbine components, conducting fault diagnostics, and learning about system integration. it is aimed to all those procedures.

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3.1.9 Multi-Purpose Facilities: Design multi-purpose spaces that can accommodate seminars, conferences, and industry events related to renewable energy training and education.

3.1.10 Resource Centre: Establish a resource Centre with a library, digital resources, and online learning platforms to support self-directed learning and research activities.

3.1.11 Industry Partnerships: Forge partnerships with renewable energy companies to provide internship opportunities, guest lectures, and access to real-world projects for students to gain practical experience and industry connections.

3.1.12 Sustainable Design: Ensure the facility itself embodies sustainable design principles, incorporating energy efficient systems, renewable energy generation, and environmentally friendly materials to minimize its carbon footprint.

3.1.13 Accessibility: Design the facility to be accessible to individuals of all abilities, with features such as ramps and accessible restrooms.

By integrating these elements into the design, the Training Facility should serve as a premier institution for training the next generation of wind turbine professionals, equipping them with the skills and knowledge needed to drive the drive to a sustainable energy future.

It must be noted that the facility should be able to cater for conducting practical assessments and certification exams according GWO and or EWSETA/QCTO standards.

4. Normative


- [1] ISO 9001 Quality Management Systems
- [2] 32-727 Safety, Health, Environmental and Quality (SHEQ) Policy
- [3] EPC 32-245 Environmental Procedure: Waste Management Procedure
- [4] PAB 20100 Komati Waste Management and Disposal Procedure

5. Informative

- [1] Occupational Health and Safety Act 1993 (Act No 85 of 1993)
- [2] National Environmental Management: Waste Management Act 59 of 2008
- [3] Hazardous Substances Act, 1973 (Act No 15 of 1973)

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[4] R634 National Environmental Management Act (59/2008): Waste Classification and Management Regulations

[5] R635 National Norms and Standards for Assessment of Waste for Landfill Disposal

[6] R636 National Norms and Standards for disposal of Waste to Landfill

[7] SANS Codes for Transportation of Hazardous Waste – 10228 to 10234, 10206, 10265 at minimum.

6. METHOD OF DELIVERY

Responses to the RFI must be submitted to the following address:

Tender Box

Ground Floor

No.10 Smut Avenue

Witbank/Emalahleni

Mpumalanga

Offer Confidential RFI Reference no: **MPKOM11115GX**

Closing date: **04 June 2024**

Closing time: **10h00 am South African Standard Time.**


Format of Submission

EACH RFI SHALL BE SUPPLIED IN PRINTED AND IN ELECTRONIC FORMAT. ALL PRINTED AND ELECTRONIC COPIES OF EACH SUBMISSION SHALL BE IDENTICAL TO THE ORIGINAL SUBMISSION IDENTIFIED AS FOLLOWS:

- **1 X ORIGINAL RFI**
- **1 X COPY RFI AND**
- **1 X COPY RFI – ELECTRONIC COPY (USB)**

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Queries and Questions

No questions, during the RFI period will be answered telephonically.

Questions must be submitted in writing via e-mail to:

Attention: **Silindile Mseleku**

E-mail: MselekCS@eskom.co.za

The RFI shall be clearly marked:

RFI FOR:

The Provision and Establishment of an Accredited Wind Turbine Training Facility at Komati Power Station.

(Providing a comprehensive training solution for the wind energy industry, offering top-notch training programs, in a wide range of training from Basic Safety to Advanced technical courses through state-of-the-art facilities simulating real-world scenarios.)

7. REQUIREMENTS OF YOUR SUBMISSION

RFI submissions will not be considered unless they are received on or before the time and date as indicated, signed by person(s) duly authorised to act on behalf of your company. Eskom reserves the right to cancel this RFI process at any time prior to entering any contract that may result from this process and will not accept or incur any liability for such cancellation.


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

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.
- Eskom reserves the right to cancel this enquiry process at any time prior to entering any contract that may result from this process and will not accept or incur any liability for such cancellation.
- Eskom is not bound to accept any of the submissions, nor give reasons for any decisions in this respect.

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

8. IMPORTANT NOTES


- 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.
- Due to the specific need that this RFI process must 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.
- 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.
- 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 during its process Eskom for the Provision to Supply and Install a Distribution Commercial Energy Trading System to Eskom Holdings SOC Limited.
- Through making a submission, a respondent accepts the terms and conditions which govern this process.
- 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.
- Eskom reserves the right not to proceed with any further engagements on the requirements presented.

9. QUALIFICATION OF BIDDERS

- 9.1 All bidders shall provide a preliminary description of the proposed work method and schedule, including drawings and charts, as necessary.
- 9.2 All bidders shall include the following information and documents with their bids, unless otherwise stated:

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- Copies of original documents defining the constitution or legal status, place of registration, and principal place of business; written power of attorney of the signatory of the Bid to commit the Bidder.
- Total monetary value of construction work performed for each of the last five years.
- Experience in works of a similar nature and size for each of the last five years, and details of work under way or contractually committed; and clients who may be contacted for further information on those contracts.
- Major items of construction equipment proposed to carry out the Contract.
- Qualifications and experience of key site management and technical personnel proposed for the Contract.
- Reports on the financial standing of the Bidder, such as profit and loss statements and auditor's reports for the past five years.
- Evidence of adequacy of working capital for this Contract (access to line(s) of credit and availability of other financial resources).
- Authority to seek references from the Bidder's bankers.
- Information regarding any litigation, current or during the last five years, in which the Bidder is involved, the parties concerned, and disputed amount; and
- Proposals for subcontracting components of the Works amounting to more than 10 percent of the Contract Price.

9.3 To qualify for award of the Contract, bidders shall meet the following minimum qualifying criteria:

- ✚ Annual volume of construction work of at least the amount specified in the Bidding Data.
- ✚ Experience as prime contractor in the construction of at least two works of a nature and complexity equivalent to the Works over the last 10 years (to comply with this requirement, works cited should be at least 70 percent complete).
- ✚ Proposals for the timely acquisition (own, lease, hire, etc.) of the essential equipment listed in the Bidding Data.
- ✚ Key personnel required for the performance of the contract with the qualifications and experience detailed in the Bidding Data; and
- ✚ Liquid assets and/or credit facilities, net of other contractual commitments and exclusive of any advance payments which may be made under the Contract, of no less than the amount specified in the Bidding Data.
- ✚ A consistent history of litigation or arbitration awards against the Applicant or any partner may result in disqualification.

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10. Cost of Bidding

10.1 The Bidder shall bear all costs associated with the preparation and submission of his Bid, and the Employer will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.

11. Site Visit

11.1 The Bidder, at the Bidder's own responsibility and risk, is encouraged to visit and examine the Site of Works and its surroundings and obtain all information that may be necessary for preparing the Bid and entering a contract for construction of the Works. The costs of visiting the Site shall be at the Bidder's own expense.

12. The key personnel required for the performance of the contract and their qualifications and experience are:

Item No.	Position/specialization	Relevant academic qualifications	Minimum years of relevant work experience
1	Project Manager	certified engineer in electrical/mechanical to the level of a work manager (master's degree in engineering,) in electrical engineering or equivalent with	at least 5 years of evidence proven experience in the field of (Renewable Energy, Hybrid Solar PV, wind) and shall be professionally registered with a recognized engineering body.
2	Site Engineer	a minimum of (bachelor's degree Engineering) in electrical engineering or equivalent with	5years of evidence proven experience in construction of wind turbine facilities
3	Structural Engineer	a minimum level of (bachelor's degree Engineering) in civil engineering or equivalent	at least 5years of evidence proven experience in the construction of similar facilities.

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13. The following schedules shall be included in the submission:

Year: _____

Activity Number	Description <small>The activities detailed are the minimum required by the Employer</small>	ACTIVITY COMPLETION DATE	Year:											
			JAN.	FEB.	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC.
1														
2														
3														
4														
5														
6														
7														
8														
9														
10														

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ACTIVITY SCHEDULES AND ESTIMATED COST BREAKDOWN

PRICE BREAKDOWN											
Activity Number	Description The activities detailed are the minimum required by the Employer	Total price	Price adjustment for inflation formula No.	currency type	Design Engineering	Procurement	Transport	Construction Erection Installation	Commissioning and Testing	ACTIVITY START DATE	ACTIVITY COMPLETION DATE
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
TOTAL: CARRIED TO SUMMARY											

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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			
Tel no		Fax no and /or e-mail address	
From		Address	
Address			
Sender			
Description of the works/goods/services			

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.	Brief description of previous experience and description of the solution that you can offer	[brief description of previous experience and Description of the solution that you can offer]
4.	Indicative prices – estimated/indicative prices to be included for each item in the scope below.	
5.		

Yours faithfully,

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

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