

Request for Quotation

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RFQ Number	NLM-QUO-25/178
Request for Quotation Date	11 November 2025
RFQ Closing Date	21 November 2025
RFQ Closing Time	12:00
Compulsory Site Briefing	Not compulsory but if more information required can be arranged
Contact Person	Catherine Matima
Quotation Validity	90 Days from the closing date
Submission Details	RFQ Response must be sent to: catherine.matima@necsa.co.za
RFQ Description	To Design, Manufacture and Supply an Electrical Heater (H1703) as per the attached specification sheet

Dear Service Provider

Kindly provide a quotation for goods and or services as outlined in section 3 of this document.

1. Introduction


The South African Nuclear Energy Corporation Limited (Necsa) is a state-owned public company (SOC), registered in terms of the Companies Act, (Act No. 61 of 1973), registration number 2000/003735/06.

The Necsa Group engages in commercial business mainly through its wholly-owned commercial subsidiaries: NTP Radioisotopes SOC Ltd (NTP), which is responsible for a range of radiation-based products and services for healthcare, life sciences and industry, and Pelchem SOC Ltd (Pelchem), which supplies fluorine and fluorine-based products. Both subsidiaries, together with their subsidiaries, supply local and global markets, earning valuable foreign exchange for South Africa and are among the best in their field in their respective world markets.

Necsa's safety, health, environment and quality policies provides for top management commitment to compliance with regulatory requirements of ISO 14001, OHSAS 18001 and RD 0034 (Quality and Safety Management Requirements for Nuclear Installations), ISO 9001 and ISO 17025.

Necsa promotes the science, technology and engineering expertise of South Africa and improves the public understanding of these through regular communications at various forums and outreach programmes to the community. We are a proudly South African company continuously striving, and succeeding in many respects, to be at the edge of science, technology and engineering related to the safe use of nuclear knowledge to improve our world.

For more information on Necsa, please visit: www.necsa.co.za

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2. Background


Necsa plans to establish a plasma gasification demonstration facility in a laboratory on-site to volumetrically reduce uranium-contaminated waste oil. The facility will be serviced by a hot water system, which is shown in the attached Piping and Instrumentation Diagram (P&ID) [02]. In this system, the demineralized water inside the supply tank, T1702, is heated with an electrical heater, H1703, to a temperature of 80 °C. The centrifugal pump, P1704, then circulates the hot water from the tank to the user in the facility. Following use, the water is returned to the tank at a temperature of 70 °C, and the cycle is repeated. A hot water circulation rate of 20.2 kg/h is maintained during this period.

The system operates on a semi-continuous basis for five days per week, whereby it is started, run continuously for up to 8 hours, and then shut down. The expected life of the demonstration facility is between 12 and 18 months

Of specific interest to this RFQ is the electrical heater, H1703. For ease of identification, the heater is circled in blue in the attached P&ID [02]. The heating element is mounted inside the tank, T1702, and it remains submerged in the water at all times. The required heater duty is 3 kW. Further details of the heater are given in the attached Specification Sheet [01].

3. Scope of Work

Item Description	Quantity
<p>The scope includes the supply of one (1) Electric Heater, H1703, as per the attached Specification Sheet [01], furnished of all labour, material and service for sizing, selection, design, manufacturing, and deliver to Necsa in Pelindaba, along with all accessories. All other equipment and components identified in the P&ID [02] and referenced in Section 2 are outside the scope of work considered here.</p> <p>Note: Where the requested product is not available as an off-the-shelf item, and the design and manufacture of an entirely new electric heater for the described application is necessary, this will be considered, provided that the requirements given in the attached Specification Sheet [01] are adequately satisfied.</p> <p>For either of the two options (viz. design and manufacture (Option A) or off-the-shelf product (Option B)), please submit the required information/documents specified in</p>	1

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the appropriate option (i.e. manufacture or off-the-shelf) in Section 6 for evaluation purposes.	
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General Requirements

The general requirements of the works include but not limited to the items listed below and detailed in the Specification sheet:

- Supply of a complete assembly electric heater, including all mounting liners and accessories.
- Start-up and commissioning spared (detailed breakdown in the tender summary sheet).
- Equipment General Arrangement (GA) drawings.
- Equipment data books and operating/ maintenance manuals.
- Packaging and deliver to site at Necsa in Pelindaba.

4. Attachments

Ref #	DOCUMENT NAME	DESCRIPTION
01	ENS-OWPVR-SPE-25037, Rev. 3	Specification Sheet for Electrical Heater H1703
02	ENS-OWPVR-PID-24008 Sht 2, Rev. 6	Uranium Contaminated Waste Oil Plasma Gasification P&ID – Utilities System

5. Pricing

- All price quoted to include all applicable taxes.
- Price must be fixed and firm.
- Price should include additional cost elements such as freight, delivery to site, insurance until acceptance, duty where applicable, disbursements etc.
- Quotation must be completed in full, incomplete quote could result in a quote being disqualified.
- Payment will be according to Necsa's General Conditions of Purchase.

6. Evaluation

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6.1. Phase 1- Functionality Evaluation / Technical Evaluation

Where functional or technical evaluation criterion is applicable, assessment will be performed in terms of the criterion listed below and the criterion may include Technical, Performance, Quality and Risk.

If the Bidder's response to the Technical templates does not indicate that the Bidder can support an acceptable technical solution, the Bidder's response will be rejected and not evaluated further.

Together the Technical, Performance & Quality and Risk criteria make up the functionality criterion and a Bidder's Proposal will be evaluated for functionality out of a possible 100 points. Only RFQ responses achieving an evaluation score of greater than the set threshold points out of the possible 100 points and which score a number of points for functionality that is greater than or equal to the set threshold points of the number of points achieved by the highest scoring Bid for functionality will be selected to progress to the second stage.

The quotations will be evaluated according to the following selection criteria (based on information requested above):

NOTE: ONLY INFORMATION PROVIDED BY THE SUPPLIER RELATING TO THE SUPPLY OF ELECTRICAL HEATERS OR RELATED HEATING EQUIPMENT WILL BE CONSIDERED IN THIS EVALUATION.

OPTION A: EVALUATION CRITERIA FOR DESIGN AND MANUFACTURE OF (ONE) 1 ELECTRICAL HEATER				
Item	Requirement	Weight	Points	Criteria
1	<p>Company Experience</p> <p>Relevant company (or JV/Sub-contractor) experience in design and manufacture of Electrical Heaters.</p> <p>Completed projects – list of past projects (client details, project value, duration of the project, etc.)</p> <p>Traceable reference letter from clients that the supplier has completed the projects for</p> <ol style="list-style-type: none"> 1. Company letter head 2. Contact details of the company 3. Purchase order amount 	25	25	<p>Ten or more than 10 projects completed for which the supplier has designed and manufactured Electrical Heaters.</p> <p>AND</p> <p>Five reference letters from companies for which the supplier has designed and manufactured Electrical Heaters.</p>
			15	<p>Seven to Nine projects completed for which the supplier has designed and manufactured Electrical Heaters;</p> <p>AND</p> <p>Three reference letters from companies for which the supplier has designed and manufactured Electrical Heaters.</p>
			10	<p>Five to Six projects completed for which the supplier has designed and manufactured Electrical Heaters;</p> <p>AND</p> <p>Two reference letters from companies for which the supplier has designed and manufactured Electrical Heaters.</p>

OPTION A: EVALUATION CRITERIA FOR DESIGN AND MANUFACTURE OF (ONE) 1 ELECTRICAL HEATER

Item	Requirement	Weight	Points	Criteria
	Nature of the service rendered by the supplier.		0	Less than five projects completed for which the supplier has designed and manufactured Electrical Heaters. AND No reference letters from companies for which the supplier has designed and manufactured Electrical Heaters.
2	ISO 9001: 2015 (or latest) accredited Must provide evidence (ISO 9001 certificate)	25	25	ISO 9001 accreditation
			0	No ISO 9001 accreditation
3	Suitability of Concept Must provide a concept for the proposed heater design, which includes a schematic drawing with dimensions	25	25	Supplier adequately demonstrates how the proposed concept meets the user's requirements or specifications
			0	Supplier does not demonstrate how the proposed concept meets the user's requirements or specifications
4	Supplier lead-time Must specify lead-time	25	25	Product available within 8 weeks of issue of Purchase Order
			15	Product available within 10 weeks of issue of Purchase Order
			10	Product available within 12 weeks of issue of Purchase Order
			0	Product available after more than 12 weeks of issue of Purchase Order
Total		100		

OPTION B: EVALUATION CRITERIA FOR THE SUPPLY OF (ONE) 1 OFF-THE-SHELF ELECTRICAL HEATER

Item	Requirement	Weight	Points	Criteria
1	ISO 9001: 2015 (or latest) accredited Must provide evidence (ISO 9001 certificate)	25	25	ISO 9001 accreditation of supplier of the required products. OR ISO 9001 accreditation of OEM and OEM letter listing local supplier as authorised supplier and service agent
			0	No ISO 9001 accreditation


OPTION B: EVALUATION CRITERIA FOR THE SUPPLY OF (ONE) 1 OFF-THE-SHELF ELECTRICAL HEATER

Item	Requirement	Weight	Points	Criteria
2	Supplier must provide letter referencing after sales service and maintenance	25	25	Supplier having a service and repair workshop AND Supplier holds critical spares as stock items
			15	Supplier having a service and repair workshop
			10	Supplier outsources service and repair
			0	No after sales service or repairs offered
3	Supplier lead-time Must specify lead-time	25	25	Product available within 4 weeks of issue of Purchase Order
			15	Product available within 6 weeks of issue of Purchase Order
			10	Product available within 8 weeks of issue of Purchase Order
			0	Product available after more than 8 weeks of issue of Purchase Order
4	Suitability of Product Must provide a data sheet for the selected heater, which includes a detailed drawing with dimensions	25	25	Supplier adequately demonstrates how the recommended product meets the user's requirements or specifications
			0	Supplier does not demonstrate how the recommended product meets the user's requirements or specifications
Total		100		

Note: Bidders that score <80 out of 100 in respect of Technical/Functional evaluation criteria will be regarded as submitting a non-responsive bid and will not be evaluated further.

6.2. **Phase 2 - Evaluation In Terms Of Preferential Procurement Policy Framework Act, 2022**

This bid will be evaluated and adjudicated according to the 80/20 point system, in terms of which a maximum of 80 points will be awarded for price and 20 points will be allocated based on the specific goals (B-BBE status level).

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	POINTS
PRICE	80
SPECIFIC GOALS (B-BBEE status level)	20
Total points for Price and SPECIFIC GOALS	100

Preference goal
B-BBEE status level contributor


B-BBEE Status Level of Contributor	Number of points (80/20 system)
1	20
2	18
3	14
4	12
5	8
6	6
7	4
8	2
Non-compliant contributor	0

7. Required Documentation

- Tax Clearance Certificate (Tax pin issued by SARS)
- Declaration of interest (SBD 4)
- BEE Certificate / Applicable Affidavit if classified as EME
- Letter of Good Standing (COID) only if Applicable due to the nature of work required
- Any other document or certification that might have been requested on this RFQ

8. Important

- 8.1. Quotation must be submitted on or before the RFQ closing date and time stated above.
- 8.2. Orders above R 30 000 will be evaluated according to the PPPFA 80/20-point system and a functionality scorecard where applicable and the ones above R 1 Million will be subjected to the tender process.

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- 8.3. This RFQ is subjected to the Necsa's General Conditions of Purchase, Preferential Procurement Policy Framework Act 2000 and the Preferential Procurement Regulations, 2022, the General Conditions of Contract (GCC) and, if applicable, any other legislation or special conditions of contract.
- 8.4. Failure on the part of a bidder to submit proof of B-BBEE Status level of contributor together with the bid, will be interpreted to mean that preference points for specific goals are not claimed.
- 8.5. The purchaser reserves the right to require of a bidder, either before a bid is adjudicated or at any time subsequently, to substantiate any claim in regard to specific goals, in any manner required by the purchaser.
- 8.6. For a Bidder to obtain clarity on any matter arising from or referred to in this document, please refer queries, in writing, to the contact details provided above. Under no circumstances may any other employee within Necsa be approached for any information. Any such action might result in a disqualification of a response submitted in competition to this RFQ.
- 8.7. No goods and/or services should be delivered to Necsa without an official Necsa Purchase order.
- 8.8. Necsa reserves the right to; cancel or reject any quote and not to award the RFQ to the lowest Bidder or award parts of the RFQ to different Bidders, or not to award the RFQ at all.
- 8.9. The supplier shall under no circumstances offer, promise or make any gift, payment, loan, reward, inducement, benefit or other advantage, which may be construed as being made to solicit any favour, to any Necsa employee or its representatives. Such an act shall constitute a material breach of the Agreement and the Necsa shall be entitled to terminate the Agreement forthwith, without prejudice to any of its rights
- 8.10. By responding to this request, it shall be construed that: the bidder, hereby acknowledge to be fully conversant with the details and conditions set out in the Necsa's General Conditions of Purchase, Preferential Procurement Policy Framework Act 2000 and the Preferential Procurement Regulations, 2022, the General Conditions of Contract (GCC), Technical Information and Specifications attached, and hereby agree to supply, render services or perform works in accordance therewith.