

Request for Quotation

Management of Ionization Smoke Detectors (ISD)

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RFQ Number	NOAM-PM-RFQ-0003
Request for Quotation Date	2024/02/13
RFQ Closing Date	2024/03/05
RFQ Closing Time	16:00
Site Briefing (compulsory)	2024/02/22 @ 10:00
Contact Person	<p>Tankiso Modise:  Tankiso.modise@necsa.co.za</p> <p> 012 305 5734  071 686 1379</p>
Quotation Validity	90 Days from the closing date
Submission Details	<p>RFQ Response must be sent to:</p> <p> Catherine.matima@necsa.co.za</p>
RFQ Description	RFQ: Management of Ionization Smoke Detectors

Dear Service Provider

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

2. Background

Necsa has been collecting and safely storing Ionisation Smoke detectors (ISD). The ISD are the most common type smoke detectors that are commercially manufactured and used within the country and

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around the world. These have been used for decades. These devices use a small amount of radioactive material, usually ^{241}Am or ^{85}Kr .

Individual ISD are often exempted from regulatory control due to the small amount of radioactive material they contain, therefore, disposal of individual units in municipal landfills was previously practiced in many countries and is still practiced in some. However, due to the large number of these devices and the long half-life of their sources, it is becoming a routine practice worldwide (a) to remove them from the public domain, (b) remove, consolidate and condition their disused sealed radioactive sources (DSRS) and (c) manage their DSRS as radioactive waste.

According to South African regulation, smoke detectors once become disused, should be managed as radioactive waste. For this reason, disused smoke detectors across the country are being collected around the country for safe storage at authorised facility at Necsa for future disposal. Necsa is responsible for all predisposal operations related to radioactive waste management in the country. A large number of different types of these devices are currently stored at its centralized waste management facility.

3. Scope of work

The ISD waste cannot be left in its current form forever and specific management options are required to adequately manage this type of waste. The management option selected for a particular source will depend on a variety of relevant factors, including amongst others the activity, radioisotope content, half-life and physical condition of the source.

One of the safe and economic way of management of ionic smoke detectors is to dismantle the device, recover the radioactive source and condition them for long term storage and disposal. The rest of the non-radioactive materials should be segregated (plastic, metal and electronic components) for recycling.

ISD have been collected from different institutions around the country. The information regarding the radionuclide contained in the source and the activity is not known for some models of these devices. Thus the first assignment for the appointed service provider is the development of the characterization method for the ISD. The method must clearly indicate how the radionuclide and the activity of each device will be identified and validated. A corresponding registry to capture the data must also be developed.

All sources entering the waste management process must be characterized to establish their activity, the radionuclide content and other important characteristics. Based on the source characteristics, specific management options will be identified.

As indicated earlier one of the options for treatment of radioactive waste is to reduce the volume, in this case by dismantling each model of smoke detector and recovering the radioactive sources and the rest of the component be treated as normal waste. It is therefore required that a technical manual with specific instruction for dismantling each model of smoke detector and recovering the disused

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sealed radioactive source (DSRS) be developed. Instructions for segregation of non-radioactive components must also be included in the manual.

A methodology for the conditioning of removed sealed radioactive sources for long term storage and disposal must be developed. The retrievability of the sources (sealed capsules with radioactive sources) for future disposal must be considered. A procedure must be elaborated for these operations and form part of the methodology.

Finally a waste management plan that describes the long-term management of both the radioactive sources and the secondary waste from dismantling operations must be drafted. The document must demonstrate how the radioactive sealed source removal, conditioning and long-term management will be carried out safely and in accordance with IAEA and NNR requirements independent of available infrastructure at Necsa.

4. Request

Necsa hereby invites interested service providers/suppliers to submit quotations, proposals or bids, as appropriate, for the provision of goods and/or services as defined in Section 3.

To access Necsa site, all representatives from potential service providers must provide a copy of their South African Identity Document. Service providers intending to attend the site briefing are required to complete the form on the last page of this RFQ and send it to catherine.matim@necsa.co.za at least 2 days before the compulsory site briefing. Representatives from potential bidding companies are to arrive at gate 3 by 9:30 to allow time to go through the registration and site arrangement before commencement at 10:00.

5. Attachments

Ref #	DOCUMENT NAME	DESCRIPTION
01	Declaration of Interest	Bidder's Disclosure
02	FBD-SCM-2017-FRM-0024-Rev 7	Request to register a supplier
03	SBD1	Supplier Information

6. Pricing

- Use Table 1 to itemize your offer, taking into account the scope of work and associated deliverables as defined in Section 3 and Table 1. Additional rows can be added if there are more itemized items than the rows allocated in Table1.
- All price quoted to include all applicable taxes.
- Price must be fixed and firm.

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- Price should include additional cost elements such as freight, insurance until acceptance, duty where applicable, disbursements etc.
- Quotation must be completed in full; incomplete quote could result in the submission being disqualified.
- Payment will be according to Necsa's General Conditions of Purchase.

Table 1: Costing

Ref #	Item description	Qty.	Unit Cost	Line Total
01	ISD characterisation method and Data registry	1		
02	Technical manual with specific instruction for dismantling of smoke detectors	1		
03	Conditioning methodology for sealed radioactive sources	1		
04	Waste Management Plan	1		
05	Preliminary and general	1		
Sub Total (Excl.)				
VAT (15%)				
TOTAL (Incl.)				

7. Evaluation

- **Phase 1- Functionality Evaluation / Technical Evaluation (N/A)**

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):

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Item	Requirement	Weight	Points	Criteria
01	Nuclear Scientist or Engineer Skills and expertise in nuclear waste management and understanding of local and international legislation related to nuclear waste.	20	20	BSc Honours – Chemistry; Physics or equivalent.
			0	No BSc Honours-Chemistry; Physics or equivalent.
		10	10	Experience in Radiological sample and material characterization (provide CV).
			0	No experience in Radiological sample and material characterization.
		10	10	Experience in compiling waste management strategies/plans (clearly indicate on CV)
			0	No experience in compiling waste management strategies/plans
		10	10	Understanding of nuclear waste management processes (clearly indicate on CV)
			0	No Understanding of nuclear waste management processes
		10	10	Understanding of NNR processes (clearly indicate on CV)
			0	Understanding of NNR processes
		40		Years of Experience in the nuclear environment. (clearly indicate on CV). 8 Years' and more = 40 6 to 7 Years' = 32 4 to 5 Years = 24 2 to 3 Years = 16 1 Year or less = 8
Total		100		

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IMPORTANT: A bidder/s that scores less than **80 points out of 100** in respect of functionality will be regarded as submitting a non-responsive bid and will be disqualified. On the other hand, should a bidder/s meet the minimum required percentage or minimum points, they will be evaluated as per Phase 2 evaluation outlined below.

- **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-BBEE status level).

	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

8. Required Documentation

- Tax Clearance Certificate (Tax pin issued by SARS)
- Declaration of interest (SBD 4)

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- 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

9. Important

1. Quotation must be submitted on or before the RFQ closing date and time stated above.
2. Orders above R 30 000 will be evaluated according to the PPPFA 80/20-point system and a functionality scorecard where applicable and those above R 1 Million will be subjected to the tender process.
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.
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.
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.
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.
7. No goods and/or services should be delivered to Necsa without an official Necsa Purchase order.
8. Necsa reserves the right to either 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.
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 Agreement and Necsa shall be entitled to terminate the Agreement forthwith, without prejudice to any of its rights.

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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.

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Request for Quotation – Acknowledgement form

Please check the appropriate box (see below) and e-mail this acknowledgement form immediately upon receipt to:

Catherine.matima@necsa.co.za AND tankiso.modise@necsa.co.za

RFQ Ref: NOAM-PM-RFQ-0003

Intention To Submit A Proposal

We hereby acknowledge receipt of the RFQ. We have perused the document and advise that we intend to attend the Compulsory briefing scheduled **for 20 February 2024** and to submit a proposal **by 01 March 2024, 16:00 hours**

Non-Intention To Submit A Proposal

We hereby acknowledge receipt of the RFP. We have perused the document and advise that we do not intend to submit a proposal for the following reasons:

(insert reason here)

Bidder's Contact Information is as follows:

Entity Name:		
Contact Person:		
Mailing Address:		
Telephone No:		
E-mail Address		
Name and ID # of the people who will attend the site briefing:	
	Signature:	Date:

BIDDER'S DISCLOSURE

1. PURPOSE OF THE FORM

Any person (natural or juristic) may make an offer or offers in terms of this invitation to bid. In line with the principles of transparency, accountability, impartiality, and ethics as enshrined in the Constitution of the Republic of South Africa and further expressed in various pieces of legislation, it is required for the bidder to make this declaration in respect of the details required hereunder.

Where a person/s are listed in the Register for Tender Defaulters and / or the List of Restricted Suppliers, that person will automatically be disqualified from the bid process.

2. Bidder's declaration

2.1 Is the bidder, or any of its directors / trustees / shareholders / members / partners or any person having a controlling interest¹ in the enterprise, employed by the state? **YES/NO**

2.1.1 If so, furnish particulars of the names, individual identity numbers, and, if applicable, state employee numbers of sole proprietor/ directors / trustees / shareholders / members/ partners or any person having a controlling interest in the enterprise, in table below.

¹ the power, by one person or a group of persons holding the majority of the equity of an enterprise, alternatively, the person/s having the deciding vote or power to influence or to direct the course and decisions of the enterprise.

Full Name	Identity Number	Name of State institution

2.2 Do you, or any person connected with the bidder, have a relationship with any person who is employed by the procuring institution? **YES/NO**

2.2.1 If so, furnish particulars:

.....

.....

2.3 Does the bidder or any of its directors / trustees / shareholders / members / partners or any person having a controlling interest in the enterprise have any interest in any other related enterprise whether or not they are bidding for this contract? **YES/NO**

2.3.1 If so, furnish particulars:

.....

.....

3 DECLARATION

I, the undersigned,
(name)..... in
submitting the accompanying bid, do hereby make the following statements that I certify to be true and complete in every respect:

- 3.1 I have read and I understand the contents of this disclosure;
- 3.2 I understand that the accompanying bid will be disqualified if this disclosure is found not to be true and complete in every respect;
- 3.3 The bidder has arrived at the accompanying bid independently from, and without consultation, communication, agreement or arrangement with any competitor. However, communication between partners in a joint

venture or consortium² will not be construed as collusive bidding.

3.4 In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications, prices, including methods, factors or formulas used to calculate prices, market allocation, the intention or decision to submit or not to submit the bid, bidding with the intention not to win the bid and conditions or delivery particulars of the products or services to which this bid invitation relates.

3.4 The terms of the accompanying bid have not been, and will not be, disclosed by the bidder, directly or indirectly, to any competitor, prior to the date and time of the official bid opening or of the awarding of the contract.

3.5 There have been no consultations, communications, agreements or arrangements made by the bidder with any official of the procuring institution in relation to this procurement process prior to and during the bidding process except to provide clarification on the bid submitted where so required by the institution; and the bidder was not involved in the drafting of the specifications or terms of reference for this bid.

3.6 I am aware that, in addition and without prejudice to any other remedy provided to combat any restrictive practices related to bids and contracts, bids that are suspicious will be reported to the Competition Commission for investigation and possible imposition of administrative penalties in terms of section 59 of the Competition Act No 89 of 1998 and or may be reported to the National Prosecuting Authority (NPA) for criminal investigation and or may be restricted from conducting business with the public sector for a period not exceeding ten (10) years in terms of the Prevention and Combating of Corrupt Activities Act No 12 of 2004 or any other applicable legislation.

I CERTIFY THAT THE INFORMATION FURNISHED IN PARAGRAPHS 1, 2 and 3 ABOVE IS CORRECT.

I ACCEPT THAT THE STATE MAY REJECT THE BID OR ACT AGAINST ME IN TERMS OF PARAGRAPH 6 OF PFMA SCM INSTRUCTION 03 OF 2021/22 ON PREVENTING AND COMBATING ABUSE IN THE SUPPLY CHAIN MANAGEMENT SYSTEM SHOULD THIS DECLARATION PROVE TO BE FALSE.

Signature

Date

² Joint venture or Consortium means an association of persons for the purpose of combining their expertise, property, capital, efforts, skill and knowledge in an activity for the execution of a contract.

.....
Position

.....
Name of bidder

1 GENERAL

To update Necsa's supplier database and to incorporate new legislative and other requirements all Necsa's suppliers are kindly requested to complete this questionnaire.

Any questions relating to the questionnaire can be addressed to Necsa's Supply Chain Management

Name: Zelna Webb

Tel: 012-305 6035 Street address: Elias Motsoaledi Street Extension (Church Street)

Fax: 012-305 6250 R 104 Broederstroom Pelindaba Brits Magisterial District

e-mail: zelna.webb@necsa.co.za Madibeng Municipality *SOC State Owned Corporation

Please complete the questionnaire and return to Necsa's Supply Chain Management Administration Office.

Postal address: P O Box 582, Pretoria, 0001

Date:

All supplier information will be treated strictly confidential.

2 SUPPLIER INFORMATION

Registered name of supplier:

Name in which supplier trades:

Type of company *:	Web page:
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Main business (if intermediary provide details):

Contact person:	Designation:
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Tel:	Fax:
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E-mail	Cell:
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Physical address of Business:

Number and street name: _____

Suburb: _____ City/Town: _____

Code: _____ Country: _____

Postal address: (This is the address to which an statement/payment/ enquiry and orders to be sent to)

P O Box/Private Bag: _____

Suburb: _____ City/Town: _____

Code: _____ Country: _____

* (e.g. listed company, public company, private company, closed Corporation, joint venture, trust)

3 FINANCIAL INFORMATION **Necsa's payment terms is 30 days.**

Size of company (annual turnover):

Name of banker:

Name of account holder:

Branch:	Branch code No:
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Account No:	VAT No:
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Company external auditor/accounting officer:	Tel:
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Company Financial Contact Person: _____ Tel: _____

E-mail: _____ Fax: _____

Trade references of three existing clients where enquiries may be made

Name of company	Address	Contact Details
		Name: Tel: E-mail
		Name: Tel: E-mail
		Name: Tel: E-mail

4 PRODUCT

4.1 General Information

Is your Business: An agent †Manufacturer †Distributor †Consultant †Contractor †

Mark appropriate (X)

(Note that products include services)

Products or product type supplied to Necsa

Over past 3 years:	To be supplied in future:
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Date of last delivery (YYYYMM):

** E.g. specific product is a ballpoint pen but for a range of different pens, papers, etc. the product type would be stationary.

Name of subcontractor:

Scope of subcontracting for product:

Complete parts 4.2, 4.3 and 5 for subcontractor and supplier

+ (e.g. subcontracting the machining and welding for a pressure vessel

4.2 Health Safety and Environment (HSE)

HSE certification/grading (e.g. to ISO 14001):

Workmen's compensation number (COID):

If no certification/grading briefly outline level of HSE implementation:

4.3 QUALITY MANAGEMENT SYSTEM (QMS)

Certification/accreditation (e.g. ISO 9001,ISO 17025) covering products to be supplied to Necsa:

If no certification/accreditation briefly outline level of QMS implementation:

External or internal QMS auditing performed:

5 BEE INFORMATION

Current BEE Rating?(Y/N):		If "yes" please attach copy If "no" please specify by when
Current BEE Rating Level:		
When does current BEE rating expire:		
Turnover:	✓ one box beneath	
< R5m	<input type="checkbox"/>	If ✓ please provide proof*
>R5m &< R35m	<input type="checkbox"/>	If ✓ please provide proof*
>R35m	<input type="checkbox"/>	
Is 50% or more of your business owned by South African black people? (Y/N):		What %: If yes please attach proof
Is 30 % or more of your business owned by South African black women? (Y/N):		What %: If yes please attach proof
Is your organisation an organ of state or public entity? (Y/N):		
Are you a "Value-Adding Supplier" (as defined legally)? (Y/N)		I.e. your net profit plus total labour costs exceeds 25% of your revenue?
Are you a "startup organisation"? (Y/N) (as defined in the BEE Act - <12 months in business)		

6 RECORDS **(Information below is compulsory, if not attached, the application shall not be considered for registration).**

Supply*/attach copy of:

- Good standing letter from SARS (TAX clearance certificate) as well as the letter from SARS with PIN number issued for compliance status purposes;
- Company registration documents or certification (Cipro);
- **Original** cancelled cheque or stamped letter from bank verifying details. **(No payments shall be made if originals are not received.)**;
- Company profile (not mandatory);

- BEE Certificate (from the approved accredited rating agency SANAS only) or alternatively complete the EME or QSE affidavit form;
- Certificate of Good Standing (Compensation Commissioner) COIDA where applicable;
- Quality Certification Certificate (where applicable) eg. ISO Certificate;
- Credit application form from your company – only if required by you for us to open a 30 days account with you;
- CIDB-for all construction related work (no exceptions will be made) indicate if applicable to you;
- Proof of Registration on National Treasury Supplier's Database (CSD Registration Report or MAAA number) and
- Declaration of Interest.

*** Copies can be e-mailed or faxed except for the banking details.**

7 COMMENTS

Please provide comments for mutual beneficial relationships:

.....
.....
.....

Name of contact person at Necsa:

Completed by: Date:
Print name

Signature:

Company Stamp:

Prepared by: x

Date: Click here to enter a date.