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RFQ Number	RS-MSh-RFQ-22001
Request for Quotation Date	2023-08-18
RFQ Closing Date	2023-09-01
RFQ Closing Time	16:00
Compulsory Site Briefing	N/A(Can be arranged).
Contact Person	Ursula Gooding ✉ ursula.gooding@necsa.co.za 012 305 5484 or 066 159 6028.
Quotation Validity	90 Days from the closing date
Submission Details	RFQ Response must be sent to: Catherine.matima@necsa.co.za ✉ lebogang.mokwena@necsa.co.za ✉
RFQ Description	Request for Quotation for a design of a gantry structure

Dear Service Provider

Kindly provide a quotation for goods and or services as outlined in section 2 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.

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

2. Project Description

A design of a gantry structure is required re that The structure of the Gantry must be versatile enough to accommodate for variation of buckets carrying ore, hold up to 8 gamma ray detectors (estimated at 30kgs each) at various points indicated in Figure 1 and control box (estimated at 50kgs). An illustration concept of the Gantry is shown in Figure 1 below.

Structure to be constructed on Necsa site

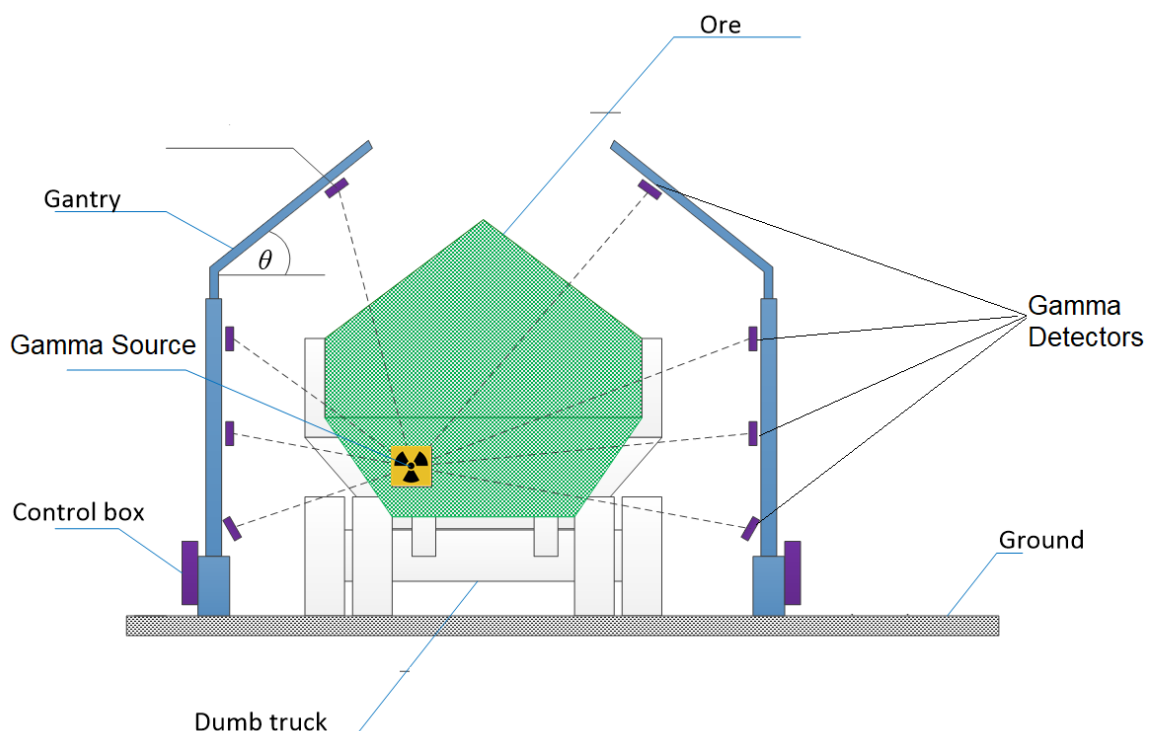



Figure 1: Concept of Gantry system for detecting dislodged shrouds via gamma spectroscopy.

Figure 1 shows the hauling truck passing under the Gantry which holds the gamma detectors with their associated electronics as well as the control box that will be responsible for communication.

3. Scope of Work

The design should take into account the following:

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3.1. Dimensions:

- The dimension of the gantry structure is 6m high from the final floor level and 12 meters wide between vertical components (see figure 1 for demonstrations).
- The foot print of the foundation **plint** must not be more than 1.5meters x 1.5 meters

3.2. Load Capacity:

- Over and above its own weight the structure must be able to carry an additional load of 50kg in the center of its horizontal member that is at the height of 6 meters.

3.3. Stability:

- The structure must be able to withstand winds of up to 150 km/h.
- The soil conditions are hard rock surface.
- The design must provide details of how the following are taken into account:
 - Footing depth and width (1.5m x 1.5m)
 - Soil settlement after gantry mounting
 - Soil erosion
 - Applicable bearing capacity of the soil

3.4. Materials

- The materials used envisaged for the design must be chosen to keep the mass of the structure at a minimum. The structure must be maintenance free corrosion resistant, heat tolerant and must withstand all elements.

Quotations are requested from structural engineering firms that have a proven track record. The services are required immediately when the purchase order is made.

4. Expected Deliverables

4.1. Detailed design and specifications – The detailed design must address the following as a minimum:


4.1.1. A section that describes a problem statement and provides a background to the design. The following points must be clearly covered as subsections within this section.

- 4.1.1.1. Problem scope statement
- 4.1.1.2. Technical review

4.1.2. The next section must cover the design description – this section will cover the proposed solution and how the solution will work to address the problem statement. The following points must be clearly covered as subsections within this section.

- 4.1.2.1. Design overview
- 4.1.2.2. Detailed design description
- 4.1.2.3. Installation method (Use of design)

4.1.3. Lastly a section that provides an evaluation of the design, and covers the following sections:

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- 4.1.3.1. Approach and an overview of the test plan for evaluating the design
- 4.1.3.2. Computer models utilised to test different loads, as per data provided by the user
- 4.1.3.3. Testing and results
- 4.1.3.4. Assessment of the design
- 4.2. Detailed BOQs of the design to be used in the implementation phase.
- 4.3. Original software model for simulating loads.
- 4.4. Original (source code) CAD drawings preferable Solid Edge/Solid work files.
- 4.5. Reviewed and approved PDF files for all drawings in an A1 paper size format.
- 4.6. All references used (design inputs) are considered part of the deliverables (i.e. codes and standards used).

5. Minimum qualification requirements

Potential service providers will be eliminated if they fail to provide the following information;

5.1. 4.2


5.2. 4.3

5.3. 4.4 Provide Company Profile.

6. Pricing

- All price quoted to include all applicable taxes.
- Price must be fixed and firm
- 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 a quote being disqualified.
- Payment will be according to Necsa's General Conditions of Purchase.

Ref #	Item description	Unit	Qty.	Unit Cost	Line Total (excl. VAT)
01	Site visit (cater for 2 visits)	Km			
02	Site meeting	hours	6		
03	Design documentation (As per section 3 of this RFQ)	pack	1		
TOTAL (Excl. VAT)					
VAT					

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TOTAL (Incl. VAT)	
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7. Evaluation

7.1. 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.

Item	Requirement	Weight	Points	Criteria
1	Company Experience At least a minimum of 3 contactable references for previous work done. 1. Contact details of the company 2. Company logo 3. Purchase order amount 4. Nature of the service rendered by the supplier.	60	60	Four (3) reference letters from the companies the suppliers did the work for.
			40	Four (2) reference letters from the companies the suppliers did the work for.
			20	Four (1) reference letters from the companies the suppliers did the work for.
			0	No reference
2	Team Members Experience Team Members Experience:	20	20	The combined experience of the team members is 10 years or more.
			10	The combined experience of the team members is <10 years => 5 years

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Item	Requirement	Weight	Points	Criteria
	Personnel to be involved in executing the scope of work to submit their CVs detailing their experience in the scope of work, clearly indicating which projects they have worked on. Only project with a minimum budget of R500 must be referenced.		0	The combined team members experience is below 5 years
	A valid professional registration (ECSA) for civil/structural engineer (certificate number also acceptable, Necsa will conduct independent verification).	20	20	Valid ECSA Certification
			0	No valid ECSA Certificate.
Total		100		

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. Should the relevant bidder/s meet the minimum required percentage or minimum points, they will be evaluated as per Phase 2 evaluation outlined below.

7.2. 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-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)
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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)
- 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

- 9.1. Quotation must be submitted on or before the RFQ closing date and time stated above.
- 9.2. 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.
- 9.3. 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
- 9.4. 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.
- 9.5. 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.
- 9.6. 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

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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.

- 9.7. No goods and/or services should be delivered to Necsa without an official Necsa Purchase order.
- 9.8. 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.
- 9.9. 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
- 9.10. 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