

RFQ Number	NLM-QUO-24/062
Request for Quotation Date	9 October 2024
RFQ Closing Date	25 October 2024
RFQ Closing Time	17:00
Compulsory Site Briefing	Not compulsory but if more information is 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 a fully functional shredder along with all accessories as per ENS-MES-SPE-0009

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,

	<h1>Request for Quotation</h1>	Doc. No	NLM-QUO-24/062
		Revision	3
		Page	4 of 4

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. Scope of Work

Item Description	Quantity
A fully functional shredder along with all accessories as per ENS-MES-SPE-0009	1

3. Attachments

Ref #	DOCUMENT NAME	DESCRIPTION
01	ENS-MES-SPE-0009	PTFE candle filter destruction project shredder purchase specification

4. 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.

5. Evaluation

5.1. 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



Request for Quotation

Doc. No NLM-QUO-24/062

Revision 3


Page 4 of 4

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):

Item	Requirement	Weight	Points	Criteria
1	<p>Company Experience</p> <p>Relevant company (or JV/Sub-contractor) experience in design and manufacture of a fully functional shredder along with all accessories.</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 have 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 <p>Nature of the service rendered by the supplier.</p>	70	70	More than 10 projects completed and reference letters from companies for which the supplier has designed and manufactured a fully functional shredder along with all accessories. .
			60	Seven to Nine projects completed and reference letters from companies for which the supplier has designed and manufactured a fully functional shredder along with all accessories.
			50	Five to Six projects completed and reference letters from companies for which the supplier has designed and manufactured a fully functional shredder along with all accessories.
2	<p>ISO 9001: 2015 (or latest)</p> <p>Must provide evidence (ISO 9001 certificate)</p>	30	30	ISO 9001 accreditation
Total		100		

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

	<h1>Request for Quotation</h1>	Doc. No	NLM-QUO-24/062
		Revision	3
		Page	4 of 4

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).

POINTS	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

6. 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
- CIBD ME 2
- Any other document or certification that might have been requested on this RFQ



Request for Quotation

Doc. No	NLM-QUO-24/062
---------	----------------

Revision	3
----------	---

Page	4 of 4
------	--------

7. Important




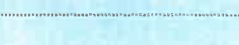
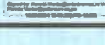




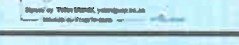




- 7.1. Quotation must be submitted on or before the RFQ closing date and time stated above.
- 7.2. Orders above R 30 000 will be evaluated according to the PPPFA 80/20-point system and a functionality scorecard where applicable and the ones above R 1 Million will be subjected to the tender process.
- 7.3. 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
- 7.4. 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.
- 7.5. 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.
- 7.6. 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.
- 7.7. No goods and/or services should be delivered to Necsa without an official Necsa Purchase order.
- 7.8. 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.
- 7.9. 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
- 7.10. 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

PTFE candle filter destruction project shredder purchase specification

Doc. No.: ENS-MES-SPE-0009

Revision: 1.1

Document Approval:

	Name	Signature	Date
Prepared by:	S Mngoma		
Reviewed by	V Legoabe		
Reviewed by	H Venter		
Reviewed by	J Postma		
Reviewed by	H Bissett		
Approved by:	Y Mandri		
Accepted by	M Hlongwane		

MS M. HLONGWANE	MRS N.S. SELEME
MR P. SCHEEPERS	MR M. RAMOTLOU
MR T. MODISE	Dr. K. MOODLEY
MRS C. AKORTIA	Dr H BISSETT
MR H. VENTER	MR J. POSTMA
MR Y. MANDRI	
MR. S. MNGOMA	

The revision history of the document is available in the DocMan System

Table of Contents

1	INTRODUCTION.....	5
---	-------------------	---

2	Purpose.....	5
3	Scope of supply.....	5
4	PTFE candle filters.....	5
5	General requirements.....	6
6	Technical specification.....	7
6.1	Main Features.....	7
6.2	Shedder.....	8
7	Fabrication and assembly requirements.....	8
7.1	Corrosive and degrading atmospheres.....	8
8	Qualification of bidder.....	8
9	Shredder test.....	9
9.1	Factory Acceptance Test (FAT) at vendor's site.....	9

List of Acronyms & Abbreviations

The following acronyms and abbreviations are used in this document:

FAT	Factory Acceptance Test
Hz	Hertz
OEM	Original Equipment Manufacture
PTFE	Polytetrafluoroethylene
RFQ	Request For Quotation
VAC	Volts Alternating Current

1 INTRODUCTION

The PTFE candle filter shredder is required to shred the filters, and prepare the shredded filters to be fed into the depolymerisation reactor. The filters will be sorted inside a glovebox, where all other components that could possibly be found inside the drums will be separated from the filters before shredding. The filters are fed into the shredder through a 250mm diameter opening in the floor of the glovebox via a 250mm diameter bellow fitted to this opening underneath the glovebox. The PTFE filters will be shredded into the pre-determined particle size of smaller than 5mm. This purchase specification will be used together with the RFQ or tender documents, shredder drawings and data sheet at procurement stage. RFQs will be sent to potential suppliers, who will design, fabricate and assemble the shredder.

2 Purpose

The purpose of this purchase specification is to provide details of the requirements for shredder design, manufacture, and supply of a fully functional shredder along with all accessories. This facility is required for containing radioactive PTFE filters and it will detail the scope of supply expected to be met by suppliers.

3 Scope of supply

The scope includes the design, manufacture, supply and testing of the shredder. The supplier will develop a quality control plan for the fabrication and assembly of the shredder, Source materials of construction, fabricate the shredder, and assemble the shredder in accordance to design drawings to be developed by the supplier. The supplier will test the shredder. The test will include a factory acceptance test and a site acceptance test. The supplier will deliver the shredder to purchaser's facility, install it, and perform a site acceptance test and commission the shredder.

4 PTFE candle filters

The candle filters, Figure 1, varies in mass between 725 to 850 g, have a length of 460 mm with a tube and flange diameter of 70 and 95 mm respectively. The shredded material has a bulk or heap density of 0.66 kg/L.



Figure 1. PTFE candle filter

5 General requirements

The shredder shall be similar to the one shown in Figure 2 below and will be operated at ambient conditions inside a laboratory at VH-2 building at Necsa site.

The shredder assembly will handle shredded feed material smaller than 5 mm (outlet shredded material delivered by the shredder) in size, and will have a volume capacity of 130 litres shredded PTFE candle filter material, fed at a nominal feed rate of between 5 and 20 kg/h.

The glove-box floor will have a 250mm (10 inch) diameter opening, which will be used to feed PTFE candle filters, via a flexible expansion bellow. The bellow will be attached underneath the glove-box to cover the opening, and directly connected to the top of the shredder. The shredder will be positioned directly underneath the opening. The expansion bellow will eliminate most vibration that could be transferred from the shredder to the glove-box.

A shredder (item 3, Figure 2) will be connected to the top end of the feed-hopper via a 10 inch flanged pipe with a 10 inch flanged ball valve.

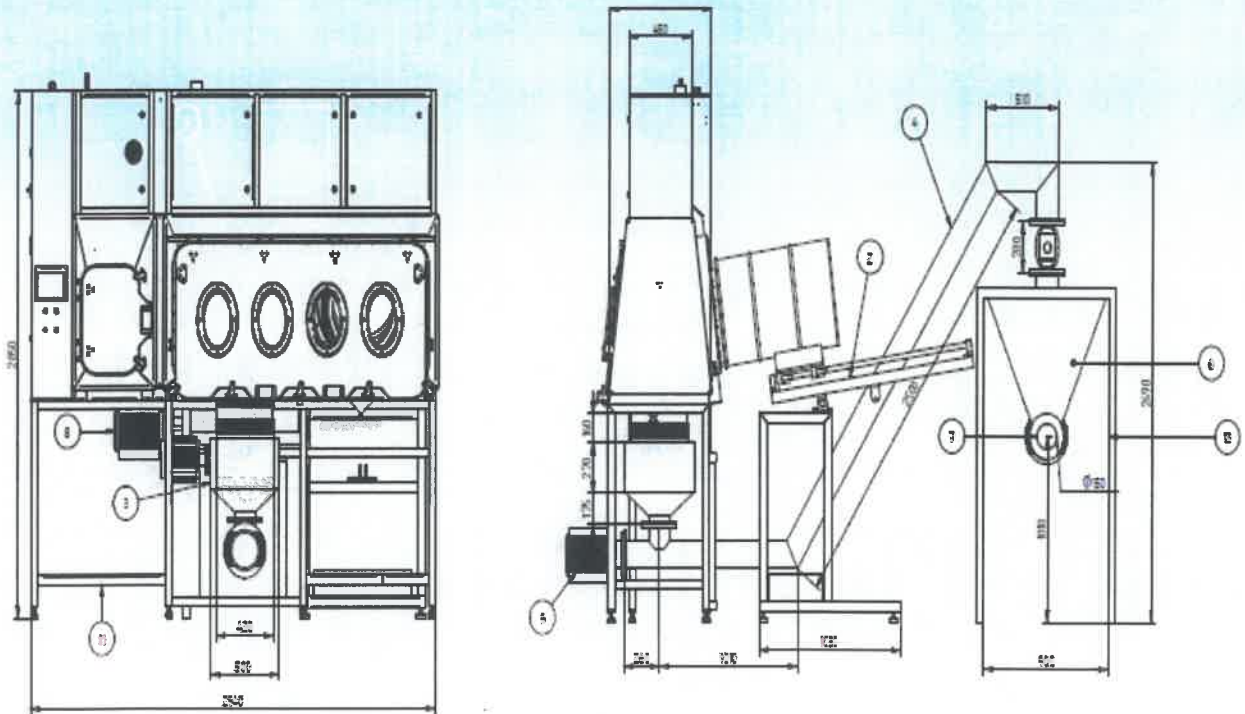


Figure 2: Shredder assembly (Item 3)

Note: Even though the shredder will interfaced with and be attached to a hopper and screw-conveyor, this purchase specification and the RFQ are for the acquisition of a shredder (and shredder accessories) as a stand-alone equipment.

6 Technical specification

6.1 Main Features

- Tailored to meet a wide variety of requirements, able to granulate PTFE candle filter and produce shapes of granules.
- Strong structured, easy to operate, durable, and low electricity consumption.
- One set of screens that will only allow particles smaller than 5mm to go through the screen.
- One set of blades made of material to be specified by the supplier.

Refer to Table 1 below and Figure 2 above for the PTFE candle filter shredder technical specifications and assembled arrangement respectively.

Table 1: PTFE candle filter shredder technical specification

Parameter	Specification
Application/usage	Contaminated PTFE candles
Capacity of shredded product vessel	130 Litre
Operation	Automatic
Material of construction	Mild steel type for plates and shredding jaws/blades to be specified by supplier.
Revolving blade pieces	to be specified by supplier.
Fixed blades pieces	to be specified by supplier.
Screen diameter/size (mm)	to be specified by supplier to achieve a particle size of smaller than 5 mm.
Valid mouth/opening (mm)	250 mm diameter
Feed hopper/chamber	User to specify to ensure smooth feeding of the filters as specified on page 5
Capacity (kg/h)	20
Electrical requirements	380 V; 3 Phase;
Power (kW)	to be specified by supplier.
Outline dimension (mm)	150mm diameter outlet pipe with a flange (shedder total height = 0,5m
Machine weight (kg)	to be specified by supplier.

6.2 Shedder



Figure 2: PTFE candle filter shredder

7 Fabrication and assembly requirements

The following information needs to be taken into account during fabrication and assembly of the shredder.

The shredder will be operated at ambient conditions inside a laboratory inside VH-2 building at Necsa site.

7.1 Corrosive and degrading atmospheres

Care should be taken when selecting plastic fittings and assembly material for use in a radioactive environment. In such circumstances the component materials need to be able to withstand chemical and radiological product attack. Proper material selection shall ensure that material resistant to radioactivity and toxicity attack are selected and used.

8 Qualification of bidder

The original equipment manufacturers (OEM) and their authorized representatives are eligible to participate in the bid. In case of authorized dealer, a recent and valid authorization certificate from the OEM for the supply of shredders must be attached with the offer. Essential qualification criteria for the bidder are as following:

- It is desirable that the OEM be ISO 9001: 2008 / ISO 9001: 2015 quality management system certified or have an equivalent system design and manufacture of shredders.
- The OEM shall have at least five years of experience in design and manufacturing of shredders.

-
- The bidder shall also submit the list of names of organizations where the OEM has supplied the shredders. Offers not meeting these requirements will be treated as technically incomplete and may be rejected.

9 Shredder test

9.1 Factory Acceptance Test (FAT) at vendor 's site

A pre-dispatch factory acceptance test will be carried out in the presence of purchaser's personnel as follows:

- Verification of all the documents as listed in article of this specification on information management.
- Verification of traceability of raw materials and components used (and shredded) in the shredder.
- The manufacturer shall perform all the checks / testing / verification on their own and send the test report to Necsa prior to calling Necsa personnel for pre-dispatch factory acceptance test.