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<b>RFQ Number</b>	<b>NLM-QUO-25/055</b>
<b>Request for Quotation Date</b>	<b>11 July 2025</b>
<b>RFQ Closing Date</b>	<b>01 August 2025</b>
<b>RFQ Closing Time</b>	<b>12:00</b>
<b>Compulsory Site Briefing</b>	<b>Not compulsory but if more information required can be arranged</b>
<b>Contact Person</b>	<b>Thulile Sokhela</b>
<b>Quotation Validity</b>	<b>90 Days from the closing date</b>
<b>Submission Details</b>	<b>RFQ Response must be sent to:</b> <a href="mailto:Thulile.Sokhela@ntp.co.za">Thulile.Sokhela@ntp.co.za</a>
<b>RFQ Description</b>	RFQ to Supply System actuated valves for PTFE Filter Destruction Project

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,

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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](http://WWW.Necsa.co.za)

## 2. Background

Necsa plans to establish a plasma gasification demonstration facility in a laboratory on-site to volumetrically reduce uranium-containing PTFE candle filters. Valves are utilized in various applications within the facility. A number of valves are required as per the attached valve list

## 3. Scope of Work

Item Description	Quantity
To Supply System actuated valves for PTFE Filter Destruction Project.	As per list (ENS-FDP-LST-24002)

## 4. Attachments

Ref #	DOCUMENT NAME	DESCRIPTION
01	ENS-FDP-LST-24002	PTFE Filter Destruction Plant System Valve List


## 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, 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

### 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.

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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):

Item	Requirement	Weight	Points	Criteria
1	ISO 9001: 2015 (or latest) accredited  <b>Supplier must provide evidence (ISO 9001 certificate)</b>	40	40	ISO 9001 accreditation of supplier of the required products. <b>OR</b> ISO 9001 accreditation of OEM and OEM letter listing local supplier as authorised supplier and service agent
3	Supplier lead-time  <b>Supplier must specify lead-time</b>	40	40	Product available within 4 weeks of issue of Purchase Order
			20	Product available within 6 weeks of issue of Purchase Order
			10	Product available within 8 weeks of issue of Purchase Order
4	<b>Suitability of Product</b>	20	20	Supplier adequately demonstrates how the recommended product meets the user's requirements or specifications
<b>Total</b>		<b>100</b>		

**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.**

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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-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

**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
- Supply pump data sheet and curves documents.

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## 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.
- 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

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3.2 Actuated Valves

1					2	3	4	5	6	7		8		9		10			11				12					13
Valve Tag No.					Valve Type	P&ID Number	Location (Line No. / Equipment No.)	Fluid (Note 2)	Fluid State	Design Conditions		Operating Conditions		SSC Safety Class		Actuator			Process Connection				Materials of Construction					VALVE CERTIFICATION
Fluid Code	System No.	Valve No.	Valve Code	Valve Size						Temp. [°C]	Press. [kPa(g)]	Temp. [°C]	Press. [kPa(g)]	Nuclear (N)	Chemical (C)	Tag No.	Failure Position	Pneumatic / Solenoid	Size	Type	Flange Spec.	Flange Rating	Body	Trim	Packing / Seal	Plug / Ball / Disc	Bonnet / Cap	
AP	810	03	CB	25	Ball Valve	ENS-FDP-PID-24001	25-810-APCG-008	Ambient Air	Gas	93	1795	Amb	Atm	SC-3	Non-classified	XV81012	FC	Pneumatic	25	Weld neck flange RF	CS, ASTM A105 ASME B16.5	Class 150	CS	CS	GRAPHITE	CS	CS	-
NH	810	09	SB	15	Ball Valve	ENS-FDP-PID-24001	15-810-NHVP-006	Nitrogen	Gas	50	1840	Amb	400	SC-3	SC-3	XV81002A	FO	Pneumatic	15	Weld neck flange RF	SS, ASTM A182 F304L/304L, ASME B16.5	Class 600	316 SS	316 SS	GRAPHITE	316 SS	SS	-
NH	810	11	SB	15	Ball Valve	ENS-FDP-PID-24001	15-833-NHVP-061	Nitrogen	Gas	50	1840	Amb	400	SC-3	SC-3	XV81005A	FC	Pneumatic	15	Weld neck flange RF	SS, ASTM A182 F304L/304L, ASME B16.5	Class 600	316 SS	316 SS	GRAPHITE	316 SS	SS	-
KO	831	39	SB	25	Ball Valve	ENS-FDP-PID-24003	25-831-KOVP-031	Scrubbing Solution	Liquid	200	1380	45	230	SC-3	SC-2	XV83124A	FO	Pneumatic	25	Weld neck flange RF	SS, ASTM A182-F304/304L, ASME B16.5	Class 150	316 SS	316 SS	GRAPHITE	316 SS	SS	-
KO	831	40	SB	25	Ball Valve	ENS-FDP-PID-24003	25-831-KOVP-031	Scrubbing Solution	Liquid	200	1380	45	230	SC-3	SC-2	XV83124B	FO	Pneumatic	25	Weld neck flange RF	SS, ASTM A182-F304/304L, ASME B16.5	Class 150	316 SS	316 SS	GRAPHITE	316 SS	SS	-
KO	831	41	SB	25	Ball Valve	ENS-FDP-PID-24003	25-831-KOVP-032	Scrubbing Solution	Liquid	200	1380	45	230	SC-3	SC-2	XV83124C	FO	Pneumatic	25	Weld neck flange RF	SS, ASTM A182-F304/304L, ASME B16.5	Class 150	316 SS	316 SS	GRAPHITE	316 SS	SS	-
KO	831	42	SB	25	Ball Valve	ENS-FDP-PID-24003	25-831-KOVP-032	Scrubbing Solution	Liquid	200	1380	45	230	SC-3	SC-2	XV83124D	FO	Pneumatic	25	Weld neck flange RF	SS, ASTM A182-F304/304L, ASME B16.5	Class 150	316 SS	316 SS	GRAPHITE	316 SS	SS	-
AP	820	137	SK	Note 1	Damper	ENS-FDP-PID-24003	Secondary Enclosure	Ambient air	Gas	50	200	Amb	-0,05	SC-3	SC-3	XV82020D	FO	Pneumatic	Note 1	Damper	Note 1	Note 1	Note 1	Note 1	Note 1	Note 1	Note 1	-
GS	833	146	SB	15	Ball Valve	ENS-FDP-PID-24005	15-833-GSVP-064	Oxygen	Gas	50	9620	Amb	400	SC-3	SC-2	XV83345C	FC	Solenoid	15	Socket weld RF	SS, ASTM A182-F304/304L, ASME B16.5	Class 1500	316 SS	316 SS	GRAPHITE	316 SS	SS	ATEX RATED
PG	833	147	SB	15	Ball Valve	ENS-FDP-PID-24005	15-833-PGVP-065	LPG	Gas	50	9620	Amb	100	SC-3	SC-2	XV83346C	FC	Solenoid	15	THRD	SS, TP 316 SS, compression ferrule tube fitting	Class 600	316 SS	316 SS	GRAPHITE	316 SS	SS	ATEX RATED
GA	820	149	SG	15	Globe Valve	ENS-FDP-PID-24002	15-833-GAVP-062	Argon	Gas	50	1840	Amb	400	Non-Classified	SC-3	XV82016A	FC	Pneumatic	15	Weld neck flange RF	SS, ASTM A182 F304L, ASME B16.5	Class 150	316 SS	316 SS	API 600	316 SS	316 SS	-
NH	820	150	SG	15	Globe Valve	ENS-FDP-PID-24002	15-833-NHVP-060	Nitrogen	Gas	50	1840	Amb	400	Non-Classified	SC-3	XV82016B	FC	Pneumatic	15	Weld neck flange RF	SS, ASTM A182 F304L, ASME B16.5	Class 150	316 SS	316 SS	API 600	316 SS	316 SS	-
MG	820	175	SG	15	Globe Valve	ENS-FDP-PID-24002	15-831-MGVP-063	Methane	Gas	93	1585	Amb	100	SC-3	SC-2	XV82014A	FC	Solenoid	15	Weld neck flange RF	SS, ASTM A182 F304L, ASME B16.6	Class 150	316 SS	316 SS	API 600	316 SS	316 SS	ATEX RATED
NH	820	186	SB	15	Ball Valve	ENS-FDP-PID-24002	15-810-NHVP-108	Nitrogen	Gas	50	1840	Amb	400	Non-Classified	Non-Classified	XV82015B	FO	Pneumatic	15	Weld neck flange RF	SS, ASTM A182 F304/304L, ASME B16.5	Class 600	316 SS	316 SS	GRAPHITE	316 SS	SS	-

- Notes**
- 1) Valve size to be determined and valve to be specified during design of HVAC System.
- 2) SCRUBBING SOLUTION: The scrubbing process will commence with aqueous solution of 30% (w/w) KOH. However, the composition of the scrubbing solution will change over time due to the chemical reactions taking place in the scrubber. The scrubbing process is divided into three phases. During the first phase, KOH will start decreasing, while KF and K<sub>2</sub>CO<sub>3</sub> will start forming. At the end of this phase, the composition (w/w) of the scrubbing solution will be 66.81% water, 11.012% KF, 22.165% K<sub>2</sub>CO<sub>3</sub> and approximately 13 ppm UO<sub>3</sub>. At the end of the next phase, the solution composition will be 68.04% water, 16.62% KF, 15.27% KHCO<sub>3</sub> and approximately 19 ppm UO<sub>3</sub>. At the end of the final phase, the composition will be 68.95% water, 18.30% KF, 12.729% KHCO<sub>3</sub> and approximately 21 ppm UO<sub>3</sub>. At this point, the solution will be considered to be spent and will be replaced with a fresh batch of aqueous 30% KOH solution.
- 3) When providing emergency power to the control system, it is important that the power supply to the solenoid actuated valves, XV82014A, XV83345C, and XV83346C, is not restored.