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| RFQ Number | Necsa -RFQ -0003  |
| Request for Quotation Date | 01 September 2025 |
| RFQ Closing Date | 22 Septemeber 2025 |
| RFQ Closing Time | 11:00 am  |
| Compulsory Site Briefing | No |
| Contact Person | Thulile Sokhela |
| Quotation Validity | 90 Days from the closing date |
| Submission Details | RFQ Response must be sent to: Thulile.Sokhela@ntp.co.za |
| RFQ Description | Implementation of Lean Manufacturing/Kaizen process for optimisation of manufacturing operations at Advanced Manufacturing(A building)  |

Dear Service Provider

Kindly provide a quotation for goods and or services as outlined in Section 4 of this document

# Introduction

The South African Nuclear Energy Corporation Limited (Necsa) is a state-owned 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 produces and supplies a range of pharmaceutical radiation-based products and services for healthcare and industry; and Pelchem SOC Ltd (Pelchem), which supplies fluorine and fluorine-based products. Both NTP and Pelchem, together with their subsidiaries, supply local and global markets, earning valuable foreign exchange for South Africa and are among the top product suppliers in their field in their respective world markets.

Necsa’s safety, health, environment, security and quality policies demonstrates its commitment to compliance with the requirements of IAEA safety standards, ISO 9001, ISO 17025, ISO 14001, OHSAS 18001 and regulatory guidelines such as RD 0034 (Quality and Safety Management Requirements for Nuclear Installations),.

Necsa promotes and engages in research and development collaborations in fields of nuclear science and technology development, engineering expertise, as well as involvement in public understanding through regular communications at various forums and outreach programmes. 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 and techniques to improve our world.

For more information on Necsa, please visit: [www.necsa.co.za](http://www.necsa.co.za)

# Background

Necsa Advanced Manufacturing seeks a service provide that will work with NECSA team to implement lean or kaizen manufacturing process within manufacturing department. The aim is to to implement a Lean Total Productive Maintenance (TPM) program as an integrated improvement approach to eliminate waste, restore control, improve efficiency, enhance workforce engagement and ownership, and establish a foundation for sustainable performance.

# Purpose

The purpose of this request is to procure professional services to implement a comprehensive Total Productive Maintenance(TPM) Programme at Advanced Manufacturing (AM).

# Scope of Work

## Required Work Scope

**1. Conduct a Comprehensive Gap Analysis**

▪ Map current and future state processes to identify non-value-added activities and eliminate waste.

▪ Establish flow and define takt time across key product families.

2. **Standardization of Work [Work Study]**

▪ Develop Standard Operating Procedures (SOPs) and visual controls.

▪ Introduce work balancing and cycle time improvements through Work Study techniques.

**3. TPM Deployment (Foundational Pillars)**

▪ Autonomous Maintenance: Train operators in basic care of machines to reduce breakdowns.

▪ Planned Maintenance: Schedule proactive maintenance routines.

▪ 5S and Visual Management: Improve workplace organization and housekeeping.

**4.Inventory & Material Flow Management**

▪ Implement pull-based systems (e.g., Kanban) to reduce overstock and improve flow.

▪ Classify inventory and define reorder points using lean principles.

**5. Pilot Project**

▪ Launch a pilot implementation in a selected value stream or production line to demonstrate quick wins and create internal

momentum.

**6. Develop Tracking and Performance Monitoring Systems**

▪ Introduce simple tracking tools (digital or manual) for WIP, downtime, productivity, and delivery performance.

▪ Use visual dashboards and KPIs to drive daily accountability.

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## Deliverables

* Improved Lead Time and Customer Delivery Performance
* Improved on-time delivery = higher customer

 satisfaction

* Reduced penalties or lost sales
* Reduction in Work-in-Progress (WIP)
* Reduction in WIP by 30–60% is common
* Immediate working capital improvement
* Less rework and handling losses

## Qualification Criteria:

* Prospective service providers must demonstrate:
* Track records in process optimization in Manufacturing plant
* Understanding of Engineer to Order processes
* Qualifications with Industrial Engineering Degree Diploma
* Business Analysis experience

## Submission Requirements:

Bidders must submit the following:

* Technical proposal describing approach and methodology
* Detailed CVs of key personnel
* Summary of previous similar projects (at least 3 references)
* Cost breakdown (hourly rates, travel and accommodation exclusions)

# Preference points and Price Evaluation Criteria

## Each tender that meet functional requirements outlined in Section 4.3 will be evaluated further in terms of price and the preference point system.

## 80/20 preference point system for acquisition of goods or services for Rand value equal to or above R30 000 and up to R50 million

## The following formula must be used to calculate the points out of 80 for price in respect of a tender with a Rand value equal to or above R30 000 and up to a Rand value of R50 million, inclusive of all applicable taxes:

Where-

Ps = Points scored for price of tender under consideration

Pt = Price of tender under consideration; and

Pmin = Price of lowest acceptable tender.

## The following table must be used to calculate the score out of 20 for specific goal:

| **Ownership** | **Number of Points** |
| --- | --- |
| Equal to or above 51 % black ownership | 05 |
| Equal to or above 51% black women ownership | 05 |
| Equal to or above 10 % people with disability ownership | 05 |
| Equal to or above 25 % youth ownership | 05 |

## A tenderer must submit proof of its B-BBEE status level of contributor (Specific goal).

## A tenderer failing to submit proof of preference points, may not be disqualified, but:

### May only score points out of 80 for price; and

### Score 0 points out of 20 for preference points

## The points scored by a tenderer for a specific goal must be added to the points scored for price and the total must be rounded off to the nearest two decimal places.

## Subject to sub regulation 4(4), the contract must be awarded to the tenderer scoring the highest points.

## If the price offered by a tenderer scoring the highest points is not market-related, the organ of state may not award the contract to that tenderer.

## The organs of state may:

### Negotiate a market-related price with the tenderer scoring the highest points or cancel the tender;

### If the tenderer does not agree to a market-related price, negotiate a market-related price with the tenderer scoring the second highest points or cancel the tender;

### If the tenderer scoring the second highest points does not agree to a market-related price, negotiate a market-related price with the tenderer scoring the third highest points or cancel the tender; or

### If a market-related price is still not agreed the organ of state must cancel the tender.

# Required Documentation

1. Tax Clearance Certificate ( Tax pin issued by SARS)
2. BEE Certificate / Applicable Affidavit if classified as EME
3. Any other document or certification that might have been requested on this RFQ

# Important

## Quotation must be submitted on or before the RFQ closing date and time stated above.

## 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.

## 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

## 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.

## 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.

## 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.

##  No goods and/or services should be delivered to Necsa without an official Necsa Purchase order.

## 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.

## 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

## 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.

1. **Track Record of the Supplier (Company)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Project description | Duration of project execution (from -to) | Value of contract | Name of client *I* organisation | Contactable reference |
| Contact person | phone number and/e-mail |
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1. **Supplier Information**

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| --- | --- |
| Supplier Name: |  |
| Registration Number: |  |
| VAT Registration Number: |  |
| Bidding Structure (Individual, Joint Venture, Consortium, Sub-contractors) |  |
| Contact Person: |  |
| Telephone Number: |  |
| Fax Number: |  |
| Email Address: |  |
| Postal Address: |  |
| Physical Address: |  |