

RFQ Number	P&I-PMO-RFQ-0001
Request for Quotation Date	02 March 2026
RFQ Closing Date	23 March 2026
RFQ Closing Time	17:00
Compulsory Site Briefing	Non-compulsory site briefing will be held online via Teams on 09 March 2026 at 14:00. Provide e-mail address if interested in attending the online briefing.
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	Development of artistic impressions and a short video visualisation for a proposed Nuclear Research & Innovation Campus

Dear Service Provider

The South African Nuclear Energy Corporation Limited (Necsa) invites qualified and experienced architectural design firms, visualisation studios, and multidisciplinary built environment service providers to submit quotations for the development of artistic impressions and a short video visualisation for a proposed Nuclear Research & Innovation Campus.

The project aims to visually conceptualise a future campus that will include a nuclear research reactor, a science park, a nuclear learning academy with residential facilities, and a small modular reactor (SMR) complex.

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. Project Description

The conceptual campus will consist of the following key components:

1. Nuclear Research Reactor Facility (MPR)
2. Science & Innovation Park, including a visitors' centre
3. Nuclear Learning Academy (NLA), including:
 - Lecture facilities
 - Laboratories
 - Administrative offices
 - Student residences / accommodation
4. Small Modular Reactor (SMR) Facility
5. Supporting infrastructure:
 - Roads, parking and walkways
 - Landscaping and green spaces
 - Security and access control points
 - Utilities and service buildings

The objective is to produce high-quality visual materials for stakeholder engagement, investment promotion, and internal planning.

3. Scope of Work

3.1 Architectural Artistic Impressions

The service provider must produce professional and realistic still-image artistic impressions, including:

1. Aerial (bird's-eye) view of the entire campus, this will include current existing facilities such as SAFARI-1 reactor, NTP facilities, etc. A comprehensive list will be provided to the supplier. All SG diagrams, topographical maps, and map's of the Necsa campus will be provided to the supplier.
2. High-quality 3D renderings of:
 - Nuclear Research Reactor complex (MPR)
 - SMR complex
 - Nuclear Learning Academy
 - Science Park

- Student accommodation
 - Internal views (where applicable)
 - Campus landscaping and walkways
3. Day and night renders (minimum of 2 each)
 4. High-resolution images suitable for large-format printing

3.2 Animated Video Visualisation

The service provider must produce a **1–3-minute animated video**, including:

- Fly-through of the campus
- Walk-through of key buildings and outdoor spaces
- Highlighting of major features
- Background music (royalty-free)
- Professional captions and titles
- Output in MP4 format
- Embedded video link within a PDF (must open when clicked)

3.3 Output Requirements

- Minimum resolution for still images: 4K
- Video: Full HD (1080p) or 4K
- File formats: JPG/PNG, MP4, PDF
- Submission of all source files – The work will be the property of Necsa

4. Deliverables

1. Concept development package, including rough massing models.
2. Minimum of 10 high-resolution 3D renders (multiple viewpoints).
3. 1–3 minute animated campus video (with PDF-embedded link).
4. Final presentation PDF brochure containing:
 - Artistic impressions
 - Campus layout
 - Description of each facility
 - Embedded video link
5. All digital files (including source files) delivered via shared drive or storage media.

5. Technical Requirements

Bidders must demonstrate:

1. Proven experience in architectural visualisation and master-planning renders
2. Capability to produce high-resolution images and animated videos
3. Knowledge of scientific, industrial, or nuclear-related facility design (advantageous)
4. Ability to meet project timelines

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5. Access to necessary software tools (Revit, AutoCAD, Blender, Lumion, 3ds Max, etc.)

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.

7. Evaluation

7.1 Phase 1- Functionality Evaluation / Technical Evaluation

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.

7.2 Detailed Evaluation Criteria & Scoring Guide

1. Relevant Experience & Company Profile (15%)

Bidders are required to submit a comprehensive company profile that will be used to evaluate the bidder's relevant experience. The company profile must clearly demonstrate the bidder's capability in executing projects of a similar nature and complexity to this assignment.

To meet this requirement, the company profile must:

- Provide a detailed overview of the organization, including its value proposition and core areas of expertise.
- Specify the number of years the bidder has been delivering services comparable to the scope of this project.
- Present a scope of past work that aligns with the requirements outlined in this bid.
- Include examples of previously completed projects, highlighting relevant experience and evidence of successful delivery in similar environments.
- Not exceed twenty (20) pages in length.

Only bidders whose profiles adequately reflect experience and capability in similar work will be considered compliant for evaluation purposes.

Score	Description
15%	The bidder has 10+ years of proven experience in architectural visualisation, master-planning, and campus-scale conceptual design. Strong company profile demonstrating large, complex scientific/industrial projects. Clear experience with high-security or technical campuses (e.g., energy, research, nuclear, universities, science parks).
12%	The bidder has 5–10 years of relevant experience and has completed multiple similar projects. Company profile demonstrates capacity and stability.
9%	The bidder has 3–5 years of related experience with at least one or two similar projects. Organisation appears capable but shows limited exposure to complex research or scientific facilities.
6%	The bidder has less than 3 years of relevant experience. Limited or no evidence of similar project types. Company profile missing key details.
3%	Minimal or irrelevant experience. No meaningful track record in architectural visualisation or campus concepts.
0%	No information provided

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2. Quality of Previous Similar Work (Portfolio) (40%)

Bidders are required to submit a comprehensive Portfolio that will be used to assess the bidder's capability, technical proficiency, and experience in delivering work of similar scale, visual quality, and complexity.

The Portfolio must clearly demonstrate:

- **High Visual Quality:**
Evidence of exceptional rendering standards, including 4K-quality images, realistic textures, accurate massing, advanced lighting techniques, and high-end 3D modelling.
- **Relevant Past Projects:**
A minimum of **Two** completed projects comparable in size and complexity to this assignment, such as campuses, industrial parks, research facilities, reactors, science and technology environments, or other large-scale technical sites.
- **Video Animation Capability:**
High-quality video animations showcasing strong storytelling, smooth fly-through sequences, and professional editing that effectively communicates design intent and spatial experience.
- **Alignment with Project Scope:**
Examples included must reflect work that aligns with the nature, scale, and technical requirements of this project.
- **Presentation Standards:**
The Portfolio must be clearly structured, visually cohesive, and easy to navigate. It should not exceed **twenty (20) pages** or equivalent combined multimedia content.

Only bidders whose Portfolio sufficiently demonstrates advanced visualisation capabilities and relevant experience will meet the requirements for evaluation.

Score	Description
40%	Portfolio demonstrates exceptional visual quality (4K renders, strong realism, clear massing, excellent lighting, advanced modelling). Shows multiple past projects similar in size/complexity (campuses, industrial parks, research facilities, reactors, science/technology sites). Video animations demonstrate strong storytelling, smooth fly-throughs, and professional editing.
30%	Portfolio quality is high. Work includes several comparable projects, though not all at the level of complexity required. Renders and video are clear and professionally produced.
20%	Portfolio is acceptable but not outstanding. Visual quality is decent but may lack realism, detail, or accuracy. Few similar projects shown.

Score	Description
10%	Portfolio contains low-quality renders, limited detail, outdated techniques, or only generic building models. No evidence of similar large-scale or technical facilities.
0 %	Portfolio is very weak, with low-resolution images, amateur rendering, or irrelevant project samples.

3. Technical Approach & Methodology (15%)

Bidders are required to submit a comprehensive Method Statement and Technical Approach that provides a step-by-step breakdown of how the project will be executed from initiation to final handover. This submission will be used to evaluate the bidder's practical methodology, technical competence, quality assurance, and understanding of a scientific/nuclear campus environment.

Score	Description
15%	The proposal includes a clear, detailed, and professional methodology, including: project phases, design approach, modelling software, rendering workflow, quality control steps, timeline, stakeholder engagement, and delivery of the embedded video PDF. Demonstrates understanding of a scientific/nuclear campus environment.
10%	Methodology is clear and logical, covering major components of the work, but lacks some detail. Shows solid understanding of the project.
5%	Basic methodology provided with general steps. Some elements unclear or not well-developed. Demonstrates moderate understanding.
0%	Methodology is vague or generic. Limited explanation of tools, workflows, or how final outputs will be produced.

4. Team Qualifications & Experience (30%)

Bidders are required to submit a detailed Team Composition section that demonstrates the capability, experience, and qualifications of the proposed project team. This submission will be evaluated to ensure that the bidder has suitably skilled and experienced personnel to deliver a project of this technical complexity.

Score	Description
30%	Team includes experienced architects, 3D modelers, visualisation specialists, animators, and a project manager. Each member has 5+ years experience, strong qualifications, and portfolios. Demonstrated experience with scientific/industrial/nuclear or highly technical facility design.
20%	Team includes qualified professionals with 3–5 years of experience each. Collective ability is strong.

Score	Description
10%	Team members have mixed experience levels; some strong, some junior. Experience is adequate for project delivery.
0%	Team is small or lacks experienced specialists. Several roles unclear or missing.

5. Summary of Weighted Criteria

Bidders must submit a Company Profile demonstrating relevant experience, past projects, and years of service on work similar in scale and complexity. A high-quality Portfolio is required, showcasing 4K renders, realistic modelling, strong lighting, and professional video animations from comparable scientific or technical environments. The Method Statement must outline the full technical approach, including project phases, software, rendering workflow, QA processes, timelines, stakeholder engagement, and an understanding of scientific, industrial or nuclear campuses. The submission must also include a qualified project team—architects, modellers, visualisation specialists, animators, and a project manager—each with at least five years of relevant experience. Collectively, these requirements ensure bidders demonstrate proven capability, strong technical methodology, and sufficient expertise to deliver the project successfully.

Item	Criteria	Weight
1	Relevant experience & company profile	15 %
2	Quality of previous similar work (portfolio)	40 %
3	Technical approach & methodology	15 %
4	Team qualifications & experience	30 %

Note: Bidders that score <70% out of a 100% in respect of Technical / Functional Evaluation Criteria will be regarded as submitting a non-responsive bid and will not be evaluated further.

7.3 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

1. Required Documentation

- Company Profile
- Portfolio of previous architectural render and video work
- Project Plan and timelines
- Detailed technical methodology
- Team CVs and key personnel
- Itemised price breakdown (renders, video, optional extras, etc.)
- Tax Clearance Certificate (Tax pin issued by SARS)
- Declaration of interest (SBD 4)
- BEE Certificate / Applicable Affidavit if classified as EME
- Any other document or certification that might have been requested on this RFQ

8. Important

- 1.1. Quotation must be submitted on or before the RFQ closing date and time stated above.
- 1.2. 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.
- 1.3. 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
- 1.4. 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.
- 1.5. 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.
- 1.6. 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.
- 1.7. No goods and/or services should be delivered to Necsa without an official Necsa Purchase order.
- 1.8. 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.
- 1.9. 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
- 1.10. 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