



REQUEST FOR QUOTATIONS

**APPOINTMENT OF A CONSULTING ENGINEERING COMPANY TO COMPILE A DETAILED DESIGNS,
SPECIFICATION AND BILL OF QUANTITIES FOR THE CONSTRUCTION OF A CANNABIS FACILITY AT
ARC VIMP FOR A PERIOD OF TWO MONTHS**

SPECIFICATION FOR THE APPOINTMENT OF A CONSULTING ENGINEERING COMPANY TO COMPILE A DETAILED DESIGNS, SPECIFICATION AND BILL OF QUANTITIES FOR THE CONSTRUCTION OF A CANNABIS FACILITY AT ARC VIMP, AS PER THE ARC GUIDING DOCUMENT (ATTACHED)

Background

The Agricultural Research Council (ARC) intends to construct a 2000 m² climate-controlled cannabis research facility in line with national regulatory requirements. The facility will support advanced research into cannabis cultivation, processing, and plant science, requiring precise environmental control systems.

The design will incorporate:

- Temperature and humidity regulation
- Advanced lighting for growth and photoperiod control
- CO₂ enrichment systems for plant growth optimisation
- Controlled irrigation and nutrient delivery systems
- Air filtration and biosecurity measures
- Secure access and monitoring systems in compliance with SAHPRA cannabis facility regulations
- BMS (Building management system)

A concept design is already in place, and we require a professional engineering team to develop the detailed design and tender documentation.

Scope of Work

The appointed team will be responsible for:

1. **Review & Refinement**
 - Review the existing concept design and refine it for operational, technical, and regulatory requirements.
2. **Detailed Engineering Design (Stage 4)** covering:
 - **Architectural** detailing and finishes
 - **Structural engineering** design
 - **Mechanical engineering** including HVAC, environmental control, and **CO₂ enrichment systems**
 - **Electrical engineering** including horticultural lighting, standby power, and optional solar integration
 - **Plumbing and water reticulation** including nutrient dosing, drainage, and recycling systems
 - **Fire detection and suppression**
 - **Security systems** including access control, CCTV, and compliance with SAHPRA security requirements
3. **Regulatory Compliance**
 - SAHPRA cannabis facility compliance
 - SANS building codes and relevant environmental legislation
4. **Technical Specifications**
 - Full specification of all materials, equipment, and systems, including **CO₂ supply, storage, control, and monitoring systems**

5. **Bill of Quantities (BoQ)**
 - Comprehensive BoQ covering all disciplines
6. **Cost Estimate**
 - Pre-tender cost estimate for full project implementation
7. **Tender Documentation**
 - Complete set of construction drawings, specifications, and BoQ ready for procurement phase

Deliverables

- Finalised detailed design drawings (DWG & PDF)
- Technical specifications document
- Complete Bill of Quantities
- Pre-tender cost estimate
- Regulatory compliance documentation

The request for quotation will be evaluated as follows:

Stage (1) Compulsory requirements:

- Professional Indemnity insurance of at least **R5** million per claim.
- Public Liability insurance of at least **R5** million
- Bidder must attend the compulsory site briefing (Briefing session attendance register must be signed at briefing meeting)

NB. Failure to submit all the above compulsory requirements will lead to disqualification

Stage (2) Functionality criteria:

The reference letter/ completion certificate must be from the client and must include the following information:

- Name of the business (client's company)
- The project/contract value.
- Project description
- Contact details
- Date of project completion

Evaluation Criteria		Points	Weighting
Reference letters	One contactable and signed project completion letter or reference letter for a project of a similar nature (project management of cannabis or plant growth construction) with a value of at least R10 million in the past five years	1	45
	Contactable and signed project completion letter or reference letters for a project of a similar nature (project management of cannabis or plant growth construction) with a value of R15 million of each project more in the past five years.	2	
	Contactable and signed project completion letters or reference letters for projects of a similar nature (project management of cannabis or plant growth construction) with each project having a value of R20 million in the past five years	3	
	Contactable and signed project completion letters or reference letters for projects of a similar nature (project management of cannabis or plant growth construction) with each project having a value of R25 in the past five years	4	
	Contactable and signed project completion letters or reference letters for projects of a similar nature (project management of cannabis or plant growth construction) with each project having a value of R30 million in the past five years	5	
Team composition, Experience detailed CVs, Qualifications and evidence of registration with the relevant bodies (SACAP, ECSA, SACQSP, etc.)	Quantity Surveyor: with a minimum of three years' experience: 1 point	1	15
	Quantity Surveyor: with a minimum of four years' experience: 2 points	2	
	Quantity Surveyor: with a minimum of five years' experience: 3 points	3	
	Quantity Surveyor: with a minimum of six years' experience: 4 points	4	
	Quantity Surveyor: with a minimum of seven years' experience: 5 points	5	
	Architect: with a minimum of three years' experience: 1 point	1	15
	Architect: with a minimum of four years' experience: 2 points	2	
	Architect: with a minimum of five years' experience: 3 points	3	
	Architect: with a minimum of six years' experience: 4 points	4	
	Architect: with a minimum of seven years' experience: 5 points	5	
	Electrical Engineer/Technologist, Mechanical Engineer/Technologist: with a minimum of three years' experience: 1 point	1	10
	Electrical Engineer/Technologist, Mechanical Engineer/Technologist with a minimum of four years' experience: 2 points	2	
	Electrical Engineer/Technologist, Mechanical Engineer/Technologist: with a minimum of five years' experience: 3 points	3	

	Electrical Engineer/Technologist, Mechanical Engineer/Technologist: with a minimum of six years' experience: 4 points	4	
	Civil Engineer/Technologist, Electrical Engineer/Technologist, Mechanical Engineer/Technologist: with a minimum of seven years' experience: 5 points	5	
Project plan, methodologies and timelines	No project plan attached: 1 point	1	15
	Project plan attached for a duration of more than two months: 2 points	2	
	Project plan attached with timelines but no methodology for each activity for a duration of two months: 3 points	3	
	Project plan attached with no timelines but with methodology for each activity for a duration of two months: 4 points	4	
	Project plan attached with timelines and methodology for each activity for a duration of two months: 5 points	5	

NB: Bidders that do not obtain a minimum score of **70%** for functionality will be disqualified and will not be evaluated further.

The qualifying bidders on functionality will be further evaluated on pricing and preferential point system

Conditions

1. The Quantity Surveyor will be the Principal Agent for this scope of works.
2. The successful bidder is expected to complete the scope of works in not more than two months.
3. Rates should be according to the guideline scope of services and professional fees for registered person in terms of the Engineering Profession Act, 46 of 2000 as published by the National Department of Public Works and Infrastructure in government gazette 130 no 52691.