

## 1. SCOPE OF WORK

The ARC is looking to appoint a selection of built-environment professionals, multi-disciplinary engineering firms, or consultants who have the capability and a national footprint, with a presence in major South African cities.

**The scope of work will entail the following:**

### 1.1 Conduct Studies

The consulting firms must provide services as required over five years, relating to preliminary feasibility studies that support the planning, studies, and investigations required by the ARC. These services would be undertaken on a value, or a time and cost basis, and will include the following services:

- Assessment of existing infrastructure in relation to compliance with regulations, and/or industry standards.
- Development of feasible and viable concept solutions with order-of-magnitude costs to serve as input to financial planning, business case formulation, and/or budget submissions.
- Development of procurement scope of work or specifications and cost estimates related to assessment outcomes or concept solution implementations, and
- Support procurement processes where requested regarding the recommendation of competent contractors, adjudication criteria, and participation as members of adjudication teams, for example.

### 1.2 Complete Projects

Perform the full scope of normal services, in line with Stages 1 to 6 of the Professional Consultants Services Agreement Committee (PROCSA) agreements as below.

STAGE PROJECT	DESCRIPTION
Stage 1	Inception
Stage 2	Concept and Viability
Stage 3	Design Development
Stage 4	Documentation and Procurement
Stage 5	Construction
Stage 6	Close-Out

The appointments may cover some or all the stages, as determined by the ARC, for the various components of the projects.

**NOTE:** The bid proposals submitted should detail how each of the above stages in the table will be influenced and satisfied in terms of standards and concepts.

### **1.3 Disciplines**

A key element of the appointment is that the Consultant will tender for a discipline or multiple disciplines and must ensure they have the necessary skills within their own company to support the discipline/s. The tender will be based on a time-and-materials basis. No subcontracting will be allowed as we are looking for a panel for different service providers.

### **1.4 Core Disciplines**

The consultant must have the capability in one or more of the following minimum core disciplines that the Professional Service Provider/s will deliver in accordance with the relevant built environment gazettes:

1. Architects
2. Building Project Manager
3. Green Building Consultants
4. Land Surveyor
5. Town & Regional Planner
6. Quantity Surveyor
7. Structural Engineer & Civil Engineer
8. Geo-Technical Engineer
9. Electrical & Electronic Engineer
10. Mechanical Engineer & Wet Service Engineer
11. Fire Engineer
12. Construction Health & Safety Agent / OHS Consultant
13. Landscape Architect
14. Hydrology Consultant
15. Acoustic Consultants
16. Accessibility Consultants
17. Environmental Services.
18. Heritage Consultant
19. Traffic Engineer

## 1.5 AREAS OF SPECIALISATION REQUIRED

Area of speciality	Qualifications and experience (Needed)	Indicate Specialist Services with an "X"
Architect	<p>NQF level 7 degree/advanced diploma in Architecture together with registration as a Professional Architect (Pr. Arch) with the South African Council for the Architectural Profession (SACAP). Must have at least 5 years' experience in the provision of architectural services. Experience will be calculated from the date of registration with a professional body.</p>	
Building Project Manager	<p>NQF level 7 degree/advanced diploma in Civil Engineering or Construction Management together with registration as a Professional Engineer (Pr. Eng / Pr. Tech Eng) with the Engineering Council of South Africa (ECSA) or as a Construction Project Manager (Pr. CPM) with the South African Council for the Project and Construction Management Professions (SACPCMP). Must have at least 5 years' experience in the planning, design, project preparation, and project management of the delivery of infrastructure (human settlements, water, sanitation, roads, electricity, housing, waste management, etc.). Experience will be calculated from the date of registration with a professional body.</p>	
Green Building Consultant	<p>NQF level 7 degree/advanced diploma in Architecture, together with registration as an Accredited Professional (AP) through organizations like the GBCSA or LEED, through training in green building rating tools like Green Star, Net Zero, or EDGE. Experience will be calculated from the date of registration with a professional body (e.g. GBCSA).</p>	
Land Surveyor	<p>NQF level 7 degree/advanced diploma in Land Surveying, together with registration as a Professional Land Surveyor with the South African Geomatics Council (SAGC). Must have at least 5 years' experience</p>	

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	in the provision of land surveying services. Experience will be calculated from the date of registration with a professional body.	
Town and Regional Planner	NQF level 7 degree/advanced diploma in Town and regional planning, together with registration as a Professional Town Planner with the South African Council for Planners (SACPLAN). Must have at least 5 years' experience in town and regional planning, major building, and civil engineering projects. Experience will be calculated from the date of registration with a professional body.	
Quantity Surveyor	NQF level 7 degree/advanced diploma in Quantity Surveying together with registration as a Professional Quantity Surveyor (Pr. QS) with the South African Council for the Quantity Surveying Profession (SACQSP). Must have at least 5 years' experience in the provision of quantity surveying services. Experience will be calculated from the date of registration with a professional body.	
Structural and Civil Engineer	NQF level 7 degree/advanced diploma in Civil Engineering together with registration as a Professional Engineer (Pr. Eng) with the Engineering Council of South Africa (ECSA). Must have at least 5 years of experience in the planning, design, project preparation, and project management of the delivery of infrastructure. Experience will be calculated from the date of registration with a professional body.	
Geo-Technical Engineer	NQF level 7 degree/advanced diploma in Civil Engineering or Geotechnical Engineering, or Engineering Geology, together with registration as a Professional Engineer, or as a Professional Natural Scientist with the Engineering Council of South Africa (ECSA) or the South African Council for Natural	

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	Scientific Professions (SACNASP). Must have at least 5 years of experience in the provision of geotechnical services; experience will be calculated from the date of registration with the professional body.	
Electrical & Electronic Engineer	NQF level 7 degree/advanced diploma in Electrical/Electronic Engineering together with registration as a Professional Engineer (Pr. Eng / Pr. Tech Eng) with the Engineering Council of South Africa (ECSA). Must have at least 5 years of experience in the planning, design, project preparation, and project management of the delivery of electrical works associated with buildings and other infrastructure services. Experience will be calculated from the date of registration with a professional body.	
Mechanical and Wet Services Engineer	NQF level 7 degree/advanced diploma in Mechanical Engineering together with registration as a Professional Engineer (Pr. Eng / Pr. Tech Eng) with the Engineering Council of South Africa (ECSA). Must have at least 5 years of experience in the planning, design, project preparation, and project management of the delivery of mechanical works associated with buildings and other infrastructure services. Experience will be calculated from the date of registration with a professional body.	
Fire Engineer	NQF level 7 degree/advanced diploma in Engineering, together with registration as a Professional Engineer (Pr. Eng / Pr. Tech Eng) with the Engineering Council of South Africa (ECSA), coupled with fire protection/services training from the Institute of Fire Engineers South Africa. Must have at least 5 years of experience in the planning, design, project preparation, and project management of the delivery of fire engineering works associated with buildings and other	

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	infrastructure services. Experience will be calculated from the date of registration with a professional body.	
Construction Health & Safety Agent/ OHS Consultant	<p>NQF level 7 degree/advanced diploma in the Built Environment together with registration as a Professional Construction Health and Safety Agent (Pr. CHSA), Construction Health and Safety Officer (CHSO), or Construction Health and Safety Manager (CHSM) with the South African Council for the Project and Construction Management Professions (SACPCMP).</p> <p>Must have at least 5 years of experience in the provision of health and safety services. Experience will be calculated from the date of registration with a professional body.</p>	
Landscape Architect	<p>NQF level 7 degree/advanced diploma in a relevant field and experience in the Built Environment together with registration with the South African Council for the Landscape Architectural Profession (SACLAP) as a Professional Landscape Architect. Must have at least 5 years of experience in the provision of landscaping.</p> <p>Experience will be calculated from the date of registration with a professional body.</p>	
Hydrology Consultant	<p>NQF level 7 degree/advanced diploma in a relevant field and experience in the Built Environment, together with registration as a Professional Natural Scientist with the South African Council for Natural Scientific Professions (SACNASP). Must have at least 5 years of experience in the provision of specialist hydrology or related disciplines. Experience will be calculated from the date of registration with a professional body.</p>	
Acoustic Consultant	<p>NQF level 7 degree/advanced diploma in a relevant field such as engineering, physics, or music, followed by a professional engineering exam to become licensed. Membership of a professional council, such as</p>	

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	the Engineering Council of South Africa (ECSA). Must have at least 5 years of experience in the provision of acoustic consulting or related services. Experience will be calculated from the date of registration with a professional body.	
Accessibility Consultant	NQF level 7 degree/advanced diploma in a relevant field such as architecture, engineering, computer sciences, or physics. Professional certifications from organizations such as the International Association of Accessibility Professionals (IAAPA). Must have at least 5 years of experience in the provision of accessibility consulting services. Experience will be calculated from the date of registration with a professional body.	
Environmental Services	NQF level 7 degree/advanced diploma in a relevant field such as architecture, engineering, computer sciences, or physics, and relevant professional certifications. Minimum has at least 5 years of relevant experience. Experience, which will be calculated from the date of registration with a professional body.	
Heritage Consultant	NQF level 7 degree/advanced diploma in a relevant field such as archaeology, architecture and/or conservation as well as demonstrable professional experience. Minimum 5 Years' experience involved in project management, interpretation planning, advising on heritage legislation, and working with architects and archaeologists, which will be calculated from the date of registration with a professional body.	
Traffic Engineer	NQF level 7 degree/advanced diploma in a relevant field, such as MSc Eng (Civil: Transportation), BEng (Civil Eng). Professional certifications from organizations, professional registration with a relevant engineering council, such as the Engineering Council of South Africa (ECSA), and a minimum of 5 years of	

Area of speciality	Qualifications and experience (Needed)	Indicate Specialist Services with an "X"
	relevant experience in areas such as road safety, design, and traffic management, which will be calculated from the date of working in the relevant field.	

Service providers must clearly indicate their relevant area/s of specialization in relation to the areas of expertise referred to in the schedule above. **(Must use Annexure B)**

Failure to adhere to the above will result in the disqualification of the bid proposal.

**The appointed consultant is expected to comply with ALL prescribed regulations and standards, which include, but are not limited to:**

- National Building Regulation and Building Standards Act 103 of 1977
- Landscape Architectural Profession Act, 2000 (Act No. 45 of 2000),
- Engineering Profession Act, 2000 (Act No. 46 of 2000),
- Project and Construction Management Profession Act, 2000 (Act No. 48 of 2000),
- Quantity Surveying Profession Act, 2000 (Act No. 49 of 2000),
- Planning Professions Act, 2002 (Act No. 36 of 2002),
- Occupational Health and Safety Act, 1993 (Act No 85 of 1993), &
- National Environmental Management Act (NEMA), Act No. 107 of 1998 or as amended.
- SANS 10400.