REQUEST FOR PROPOSALS FOR MULTI-DISCIPLINARY BUILT ENVIRONMENT PROFESSIONAL TEAM FOR THE RUNWAY AND TAXIWAY REHABILITATION AT CHIEF DAWID STUURMAN INTERNATIONAL AIRPORT FOR 40 MONTHS

#### **Presented by Origin Sengwane**

& Potso Makgatho



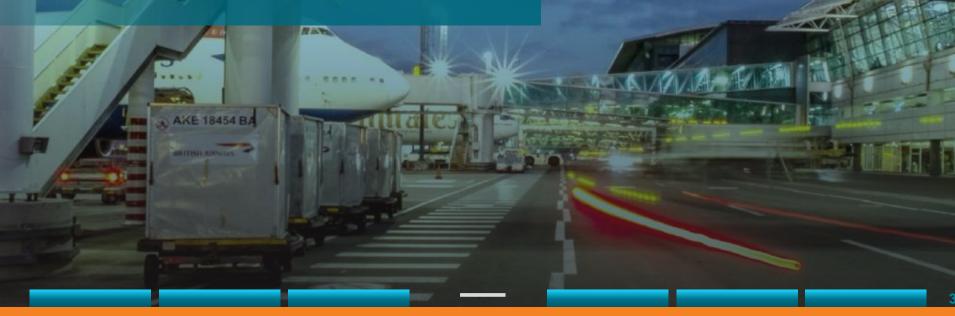
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22/04/2024

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# Requirements



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#### REQUIREMENTS



## **Professional Team of company:**

- 1. Principle Agent/ Project Manager
- 2. Pavement Engineer
- 3. Electrical Engineer
- 4. Quantity Surveyor
- 5. Construction Health and Safety Agent (CHSA)



# **SCM-TENDER PROCESS**

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Activity	Date
Tender Issue date	12 April 2024
Compulsory briefing session	22 April 2024 , 11H00am
Tender enquiries close	06 May 2024
Tender closing	13 <sup>th</sup> May 2023, @12H00 Midday



#### ENQUIRIES AND CLARIFICATION: To be directed to potso.makgatho@airports.co.za

TENDER BOX ALLOCATION: The Venue; Aeropark Office Complex, Block A, Chief Dawid Struurman, Allister Miller Drive.

♦BID SUBMISSION METHODS: Proposals must be in duplicate (an original printed copy and a printed copy of the original). The original copy will be the legal and binding copy, in the event of discrepancies between any of the submitted documents; the original copy will take precedence. PEA7468/2024/RFP

**\*NB:** RFP Submission checklist in conjunction Mandatory Requirements and Functional/Technical evaluation.

**SUBMISSION AND CLOSE OF BID: 12H00 Midday on 13 of May 2024.** 

Please note: Bids which are submitted after the closing date and time will not be accepted.



(a) Completed in full and signed Form of offer C1.1.

- (b) Valid Letter of Good standing with workman's compensation commissioner **COIDA**.
- (c) Completed in full and signed Bidder's Disclosure Form 5.8 (SBD 4)
- (d) Attendance of the **compulsory briefing session (meeting register will be used to prove attendance).**

# 

22/04/2024

2 Scope of Works
3 Site Information
4 Pricing Data

5 Functionality & Evaluation Criteria

# SCOPE OF WORKS (C3)



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#### **SCOPE OF WORKS**



## **Scope Overview**

#### 1. Rehabilitation of runway 08/26:

- Mill and replace of the main runway.
- Provision/repairs of drainage around the runway if necessary.
- Repainting of the runway.
- Ensuring that the RESA (Runway End Safety Area) is in compliance with the regulations.

#### 2. Rehabilitation of taxiways (Alpha, Bravo, Echo and Charlie):

- Mill and replace of the taxiways.
- Drainage repairs or the provision of new drains around the taxiways, if necessary,
- Repainting of the taxiways.

#### 3. General aviation (GA) pavement

- Rehabilitation of the general aviation pavements. This may require the mill and replace of the surfacing and reworking of the base layer.
- Provision/repairs of drainage around the GA if necessary.
- Painting of the GA.

#### 4. Electrical services

- Assess and design the runway and taxiway lighting (ensure it compliance).
- All other auxiliary (i.e. electrical) services will have to be assessed for compliance.

#### 5. Exclusions

- Apron slabs
- Runway 17/35

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## **Objectives**

- Conduct an in-depth study (in terms of visual assessments, pavement surveillance measurements and laboratory testing of materials etc.) of the current pavement conditions in order to propose remedial measures.
- Propose remedial works that increases the pavement lifespan by approximately 10-15 years.
- Assess the adequacy of stormwater drainage and propose remedial measures.
- Investigate and assess the existing electrical equipment and RESA to ensure compliance with SACAA and ICAO requirements and standards.
- Propose line marking requirements and design which are compliant.
- Prepare a detailed cost breakdown for the project, an indicative construction program.
- Assist in the preparation of the Contractors procurement documents together with the schedule of quantities, technical specifications, and drawings.
- Contract administration and full-time site supervision (Site Team only).
- Provision of construction drawings

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#### **SCOPE OF WORKS**



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#### Implementation of project

- Stage 1: Inception
- Stage 2: Preliminary Design
- Stage 3: Detailed Design
- Stage 4: Documentation and Procurement
- Stage 5: Contract Administration
- Stage 6: Close out

(refer to discipline specific guidelines for stages and requirements)

- Phase 1 (stage 1 to 3)
- Phase 2 (stage 4 to 6)
- Moving from phase 1 to 2 is not automatic (automatic suspension of contract at end of phase 1)
- Investment decision to be taken (cost effective)

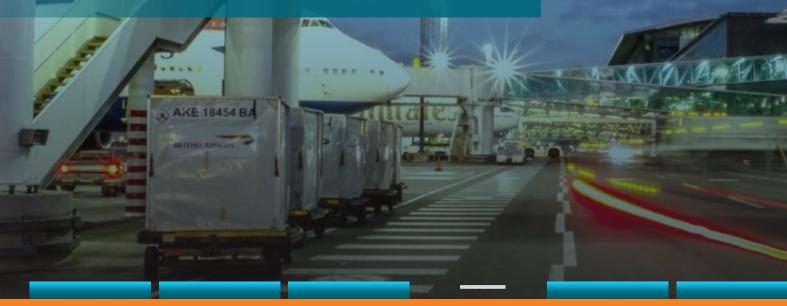


#### C3.3.5 Programme (Baseline)

Task	Start	End	
Stage 1 Report		2024/02/40	
(Inception)	2024/06/04	2024/08/16	
Stage 2 Report (Prelim)	2024/08/16	2024/10/22	
Stage 3 Report	2024/10/22	2025/01/22	
(Detailed)			
Stage 4 Documentation	2025/02/07	2025/07/01	
& Procurement			
Stage 5 Construction	2025/09/01	2026/09/01	
Administration			
Stage 6 Close out &	2026/09/01	2026/09/30	
hand over			

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# SITE INFORMATION (C4)



#### SITE INFORMATION



## Locality



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#### SITE INFORMATION

## **Scope Overview**

- 1. Chief Dawid Stuurman International Airport
- 2. Eastern Cape, Gqeberha
- 3. Nelson Mandela Bay Metropolitan Municipality
- 4. Runway 08/26, 2160 m
- 5. Pavement Classification Number (PCN) = 82 (FWD)
- 6. Road Furniture

DESCRIPTION	CURRENT	ENVISAGED
RESA	Existing (SACAA finding)	Require modification to be in compliance awaiting further tests/investigation to
		confirm
Drainage	Existing (Provisions	Require modification awaiting further
	Inadequate)	investigation/assessment to confirm
Road Markings	Existing	To be designed for new surfacing
Lighting & Electrical	Existing	To be replaced on new surfacing
equipment		

Caller



# PRICING DATA (C2)



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#### **Normal Services**

Measurement and Payment (for C3.2.1 to C3.2.6)

This will be based on the construction estimate per discipline in accordance with the regulatory body fee scales. Adjustments on the fee will be conducted to the discretion of the Employer based on the percentage tendered. **Insert a percentage linked to construction estimate and split into the six (6) ECSA stages** 

# **Price using the Excel File**

ITEM	Description	Unit	Quantity
3.2A	Normal Services		
3.2.1	Stage 1 - Inception	Lump Sum	1
3.2.2	Stage 2 - Concept and Viablity	Lump Sum	1
3.2.3	Stage 3 - Detailed Design	Lump Sum	1
3.2.4	Stage 4 - Documentation & Procurement	Lump Sum	1
3.2.5	Stage 5 - Contract Administration	Lump Sum	1
3.2.6	Stage 6 - Close out	Lump Sum	1

	1. Project Manager	% Offer (Excl	. VAT)	
Estimate	R105 000 000,00	, i i i i i i i i i i i i i i i i i i i	,	R0,00
ITEM	Description	% of Basic fee	2	Total
3.2.1	Stage 1 - Inception		10%	R0,00
3.2.2	Stage 2 - Concept and Viablity		10%	R0,00
3.2.3	Stage 3 - Detailed Design		25%	R0,00
3.2.4	Stage 4 - Documentation & Procurement		10%	R0,00
3.2.5	Stage 5 - Contract Administration		40%	R0,00
3.2.6	Stage 6 - Close out		5%	R0,00
	Subtotal			R0,00
	2. Pavement Engineer	% Offer (Excl	. VAT)	
Estimate	R90 000 000,00			R0,00
ITEM	Description	% of Basic fee	2	Total
3.2.1	Stage 1 - Inception		5%	R0,00
3.2.2	Stage 2 - Concept and Viablity		25%	R0,00
3.2.3	Stage 3 - Detailed Design		25%	R0,00
3.2.4	Stage 4 - Documentation & Procurement		25%	R0,00
3.2.5	Stage 5 - Contract Administration		15%	R0,00
3.2.6	Stage 6 - Close out		5%	R0,00
	Subtotal			R0,00
	3. Electrical Engineer	% Offer (Excl	. VAT)	
Estimate	R15 000 000,00			R0,00
ITEM	Description	% of Basic fee	2	Total
3.2.1	Stage 1 - Inception		5%	R0,00
3.2.2	Stage 2 - Concept and Viablity		15%	R0,00
3.2.3	Stage 3 - Detailed Design		20%	R0,00
3.2.4	Stage 4 - Documentation & Procurement		20%	R0,00
3.2.5	Stage 5 - Contract Administration		35%	R0,00
3.2.6	Stage 6 - Close out		5%	R0,00



R3 000 000,00

R3 000 000,00

R0,00

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## **C3.2.7 Additional Services**

Measurement	and Payment

Item

- 3.2.7 Additional Services
  - a) Surveying, Sampling, Testing & Reporting
  - b) Handing Cost i.r.t. 3.2.7 a)

Prime Cost (PC)

3000000

Perecntage (%)

R3 000 000,00

Percentage (%)

The cost under sub item 3.2.7(a) shall only be applicable where such a service is carried out under the Prime Cost (PC) sum and this will be for **all envisaged survey work, sampling, testing and reporting on results obtained**. The Service Provider shall identify the type and estimated quantity of tests required and shall compile quotation document in accordance with the Employer's standard requirements/policy for the purpose of procuring the relevant service

a) Surveying, Sampling, Testing & Reporting Prime Cost (PC)

3.2B Additional Services 3.2.7 Additional Services

Subtotal

b) Handling Cost i.r.t 3.2.7 a)

The percentage tendered under pay item 3.2.7(b) is a percentage of the amount actually spent under payment item 3.2.7(a) and shall include full compensation for all costs of the Service Provider as specified.

No additional payments related to services under 3.2.7a) will be made.

Procurement of such services 3.2.7a) shall be in accordance with Clause C3.3.10



## C3.2.8 Construction Monitoring: Level 3 (full time)

Measurement and Payment

Item			Unit			
<del>3.2.7</del>	Additional Services 3.2.8 Construction mor	nitoring				
	a) Site supervision staff					
	j) Resident Engineer		month			
	ii) Assistant Resident Engineer		month			
	iii) Project Liaison Officer		Prov. Sum	i (PS)		
	b) Disbursements		Prov. Sum	I (PS)		
3.2C	Administration & Monotoring of works					
3.2.8	Construction Monitoring					
	a) Site Supervision Staff					
	i) Resident Engineer	Month	12		R0,00	
	ii) Assistant Resident Engineer	Month	12		R0,00	
	iii) Project Liason Officer	Prov. Sum (PS)	1	R180 000,00	R180 000,00	
	b) Disbursments	Prov. Sum (PS)	1	R30 000,00	R30 000,00	
	Subtotal				R210 000,00	

Payment under item **3.2.7a**) (i & ii) shall be a monthly rate. The amount tendered shall include for all administrative costs and handling fees for all site staff required as per clause C3.3.2.

Payment under item **3.2.7a)iii)** shall be made through approval of the Employer with **no handling** fees as this is expected to be covered under the lump sum for stage 5. Payment under item **3.2.7b)** shall be made through approval of the Employer and approval is to the discretion of the Employer. This item cover costs related to the administration of the contract (stage 5) for the site supervision staff.



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## C3.3.2 Consultants key persons

Key persons/ Position	Minimum Registration	Minimum Relevant Experience
Project Manager	Pr Eng/ Pr Tech Eng <sup>1</sup> or	Refer to RFP document.
	Pr CPM <sup>2</sup>	
Pavement Engineer	Pr Eng/ Pr Tech Eng <sup>1</sup>	
Electrical Engineer	Pr Eng/ Pr Tech Eng <sup>1</sup>	
Quantity Surveyor	Pr QS <sup>3</sup>	
<b>Construction Health and Safety</b>	Pr CHSA⁴ CHS Ager	nt ≠ CHS Officer ≠ CHS Manager
Resident Engineer <sup>5</sup>	Pr Eng/ Pr Tech Eng <sup>1</sup>	Minimum of three (3) projects completed as
		RE above R50m construction value each
		post registration.
Assistant Resident Engineer	Candidate Engineer/	N/A
	Engineering Technologist <sup>1</sup>	
Project Liaison Officer	Requirements to be confirmed	d at Stage 5 based on market analysis of the
	area.	

Registered with the Engineering Council of South Africa (ECSA, As either a Professional Engineer (Pr Eng) or a Professional Engineering Technologist (Pr Tech Eng).

<sup>2</sup> Registered with the South African Council for Project and Construction Management Professions (SACPCMP) as a Professional Construction Project Manager (Pr CPM).

<sup>4</sup> Registered with the South African Council for Project and Construction Management Professions (SACPCMP) as a Professional Construction Health and Safety Agent (Pr CHSA).

<sup>3</sup> Registered with the South African Council for the Quantity Surveying Profession (SACQSP) as a Professional Quantity Surveyor (Pr QS).

<sup>5</sup> The Resident Engineer meeting the requirements as per the table above will have to be proposed during Stage 4, prior to concluding the stage.

#### **PRICING DATA**

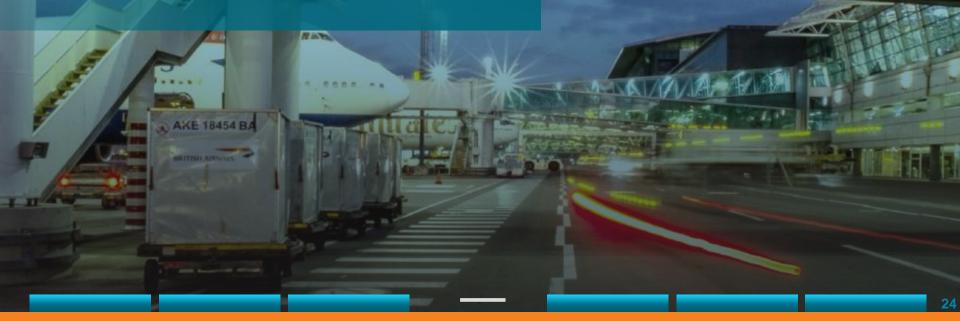


## **Pricing Schedule/ Summary**

.2A N	Iormal Services	R0,0
.2B A	Additional Services	R3 000 000,0
.2C A	Administration & Monotoring of works	R210 000,0
S	ubtotal	R3 210 000,0
V	/AT (15%)	R481 500,0
S	ubtotal (Incl. VAT)	R3 691 500,0
C	Contigencies (10%)	R369 150,0
	otal Amount/ Tender Sum (Carried to Form of Offer C.1.1.	) R4 060 650,0



# **EVALUATION CRITERIA (RFP)**





## **Functionality criteria**

#### ii) Threshold

The functional evaluation will be based on a threshold, where, if a tenderer/bidder **fails to achieve a minimum on each functional stage will not be considered further in the evaluation**. The criteria of the evaluation are expressed in the table below.

Points allocated for Functionality shall be evaluated in accordance with the criteria as listed below. Total points allocated shall be 100. Tenderer must score a **minimum or more for each sub criteria and an overall minimum threshold of 68 or more out of 100** to be eligible for further evaluation to the next stage, namely, Price and B-BBEE (80/20).

#### iii) Proof of experience

Bidders/tenderers shall provide **sufficient and articulate** information that will allow the committee to assess and score. All references provided by the tenderer/bidder must be contactable (i.e. have, contact person's name, telephone or cell phone, e-mail address) and of completed projects taken through the ECSA stages 1 to 6. References must provide bidders name as a service provider contracted for the services, detailed description of project, project value, start and completion date of the project. It is strongly recommended that the references must be on client letterhead.

References that do not meet the prescribed information to allow the committee to evaluate may lead to the tenderer not scored for that project. Project that will be evaluated are those accompanied by reference letters from client with information as stated above. A completion certificate or performance certificate will be accepted if it provides the necessary information required as stated above. **No appointment letters will be accepted**. For the key persons no need for reference letters are required but the contact details of the Client Project Manager must be given. If ACSA is unable to verify that the keyperson was involved in the projects submitted, then those projects will not be scored.





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## **Functionality criteria**

#### iv) Relevance of projects

To ensure that the bidder/tenderers meet the required technical capability, Only the project that meet **all** the below conditions shall be accepted as relevant projects.

#### Relevant Projects for Company Experience and Pavement Engineer:

(a) Asphalt rehabilitation/overlay projects and/or construction of new asphalt highways, taxiways and/or runways. *Routine Maintenance projects (i.e. which constitute of patching works) and seal work are not acceptable.* 

(b) Projects must be from (Client):

B1. National Roads Authority (i.e. SANRAL) - i.e. N and R routes will be considered as relevant projects.

B2. Provincial Roads Authority (i.e. RAL, Department etc)- i.e. R roads or equivalent will be considered as relevant projects.

B3. Airport authority - only Taxiway and Runway projects will be considered as relevant projects.

(c) Projects listed must be completed within the last 10 years (counted from tender closing date)

# • Relevant Projects for Project Manager, Quantity Surveyor, Electrical Engineer and Construction Health and Safety Agent:

(a) Any projects within the built environment

• *"built environment"* means the field within which the registered persons practise in accordance with the respective professional/ regulatory council (i.e. Electrical Engineer should be involved within electrical related projects or electrical component aspect of infrastructure projects etc).



Description of Criteria	Minimum	Maximum
1. EVALUATING THE COMPANY		
1.1 TENDERER'S/ BIDDER EXPERIENCE (Track record of tendering entity) (Complete Appendix A)	12	20
Proof that the Tendering company has completed a minimum of three (3) <u>relevant</u> projects worth R52m excl. VAT (construction costs) each. (4 points per project and a maximum of 5 project references for a score of 20) If <3 projects submitted, then the tenderer will be scored zero (0).		20
1.2 QUALITY ASSURANCE SYSTEMS OF TENDERIN ENTITY (ISO 9001:2008 Certification)	G 4	10
In house quality management system (proof of 4 write up of system submitted)		
ISO accreditation submission (proof provided) 6	4	10
ISO accreditation certificate (submitted valid 10 certificate)		



<b>2.</b> exper	KEY PERSONNEL EXPERIENCE (Specific ience of key personnel)		
2.1	Project Manager (Complete Appendix B)	14	20
2.1.1	Proof that Project Manager has a bachelor's degree (BSc/BEng/BTech) in the Built Environment and is registered as a <b>PrCPM with SACPCMP, or PrEng</b> (Professional Engineer) / <b>PrEngTech</b> (Professional Engineering Technologist) <b>with ECSA</b> .	5	-
lf none of the	above is met then the tenderer will be scored zero (0).		
2.1.2	Proof that Project Manager completed a minimum of three (3) relevant projects post registration (in accordance to requirements under 2.1.1 above) worth R52m excl. VAT (construction costs) each as <b>a</b> <b>Project Manager/ Contracts Engineer/ Project Lead/</b> <b>Principal Agent.</b> (3 points per project and a maximum of 5 projects for a score of 15)	9	15
lf <3 projects :	submitted, then the tenderer will be scored zero (0).		



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2.2. Pa	avement Engineer (Complete Appendix C1 & C2)			
2.2.1.	Proof that Pavement Engineer has a bachelor's degree (BSc/BEng/BTech) in Civil Engineering and is registered as a PrEng (Professional Engineer) /PrEngTech (Professional Engineering Technologist) with ECSA.			
If none of the a	bove is met then the tenderer will be scored zero (0).			
2.2.2.	Proof that the Pavement Engineer completed a minimum of three (3) relevant projects post registration (in accordance to requirements under 2.2.1 above) worth R52m excl. VAT (construction costs) each as a Pavement Design Engineer. (2 points per project and a maximum of 5 projects for a score of 10). ubmitted, then the tenderer will be scored zero (0).	6	10	
	Proof that the Pavement Engineer completed a minimum of three (3) relevant projects post registration (in accordance to requirements under 2.2.1 above) of taxiway/ runway of any amount (1 points per project and a maximum of 5 projects for a score of 5).	3	5	
<3 projects su	bmitted, then the tenderer will be scored zero (0).			
.2.3 can be u	itted under 2.2.2 which meets the requirements of sed again under 2.2.3 for scoring twice. No Routine rojects will be accepted.			



2.3. Quantity Surveyor (Complete Appendix D)			10
2.3.1.	Proof that Quantity surveyor has Bachelor's Degree (BSc/BTech) in Built environment and registered with SACQSP as a PrQS.		5
If none of the	above is met then the tenderer will be scored zero (0).		
	Proof that Quantity Surveyor completed a minimum of three (3) relevant projects post registration worth R52m excl. VAT (construction costs) each on the role of a Quantity Surveyor. (1 points per project and a maximum of 5 projects for a score of 5) submitted, then the tenderer will be scored zero (0).	3	5
2.4 Electrical Engineer (Complete Appendix E)			10
2.4.1.	Proof that the Electrical Engineer has a bachelor's degree (BSc/BEng/BTech) in Electrical Engineering and is registered as a PrEng (Professional Engineer) /PrEngTech (Professional Engineering Technologist) with ECSA.	5	

#### **EVALUATION CRITERIA**



## **Functionality criteria**

2.4.2.	Proof that Electrical Engineer completed a minimum of three (3) relevant projects post registration worth R10m excl. VAT (construction costs) each as an Electrical Engineer. (1 points per project and a maximum of 5 projects for a score of 5)		5
-	of airport runway lighting will be an added advantage. submitted, then the tenderer will be scored zero (0).		
2.5 Construction Health and Safety Agent (Complete Appendix F)			10
2.5.1.	<ul> <li>Proof that the Construction Health and Safety Agent has a National Diploma (NQF6) in Built Environment and is registered as a PrCHSA with SACPCMP.</li> </ul>	5	
none of the a	above is met then the tenderer will be scored zero (0).		
2.5.2.	Proof that Construction Health and Safety Agent completed a minimum of three (3) projects post registration worth R52m (excl. VAT) construction costs as a Construction Health and Safety Agent. (1 points per project and a maximum of 5 projects for a score of 5)	3	5
f <3 projects	submitted, then the tenderer will be scored zero (0).		

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#### **EVALUATION CRITERIA**



#### **Steps**

Stage 1	Stage 2	Stage 3	Stage 4	Stage 5	Stage 6
Check if all the documents have been received.	Mandatory Requirements	Evaluate on functionality or the technical aspect of the bid.	Evaluate price and Preference.	Negotiations	Security Vetting (Will be conducted if deemed necessary)



#### **QMS EXAMPLE (ISO 9001 CERTIFICATION)**



#### **Typical Quality Plan Structure**

- Design Quality Program
- Schedule of Review and Check Points
- Laboratory Quality System Manual
- Inspection and Testing Quality Assurance Plan
- Document Control Plan
- Forms



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# QUESTIONS

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