

## **1. MANDATORY TECHNICAL EVALUATION CRITERIA**

**Table 1: Mandatory Technical Evaluation Criteria**

<b>No'</b>	<b>Mandatory Technical Criteria Description (Yes/No)</b>	<b>Reference to Technical Specification / Tender Returnable</b>	<b>Motivation for use of Criteria</b>
1.	Has the Tenderer confirmed that all major equipment and devices offered are of proven technology; supplied by the Original Equipment Manufacturers (OEMs) and have a minimum duration of three (3) years since installation?	Tender Returnable	a) Credibility of equipment and devices offered.
2.	Has the Tenderer confirmed that they have a track record of three (3) completed projects as a minimum; for construction, commissioning and testing of HVAC systems	Tender Returnable	a) Previous similar work experience and key personnel allocated to this project should be documented (Organogram with key staff indicated). This is to ensure that all roles and responsibilities are covered.

## **2. QUALITATIVE TECHNICAL EVALUATION CRITERIA**

**Table 2: Qualitative Technical Evaluation Criteria**

	<b>Qualitative Technical Criteria Description</b>		<b>Reference to Technical Specification / Tender Returnable</b>	<b>Criteria Weighting (%)</b>	<b>Criteria Sub Weighting (%)</b>
<b>1.</b>	<b>HVAC General Works</b>			<b>25</b>	
	1.1	Professional Registered Mechanical Technologist/ Engineer with a track record of 5 completed projects as a minimum; for design, construction, and commissioning of HVAC systems in Building Services (See item 2.1 below).	Tender returnable – CV and ECSA certificate to be submitted with reference to 5 completed projects for design, construction, and commissioning of HVAC systems in Building Services Environment		30
	1.2	General HVAC Foreman qualification and experience on similar projects (See item 2.2 below).			20
	1.3	Lead time to mobilise team to site after contract award (See item 2.3 below).			20
	1.4	Completed equipment data sheets as per section 3.2 of the Employer's Works Information (See item 2.4 below).			30
<b>2.</b>	<b>Technical qualifications and deviations (See item 2.5 below)</b>			<b>10</b>	
	2.1	Has the Tenderer confirmed compliance to the full scope of work and Technical Specification for the Works Information: a) Compliance to scope of work b) Intent to undertake full scope of work c) Compliance to standards and specifications			100

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	Qualitative Technical Criteria Description		Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (%)
<b>3.</b>	<b>General (See item 2.6 below)</b>			<b>10</b>	
	3.1	<p>Proposed work plan</p> <ul style="list-style-type: none"> <li>Indicating intent to undertake full scope of work whilst Duvha Power Station remains live.</li> <li>Activities divided up realistically in schedule</li> <li>Timelines realistic for execution of activity</li> </ul>	Tender Returnable (Preliminary Project schedule showing key deliverable dates)		50
	3.2	Has the Tenderer confirmed that they have a track record of three (3) completed similar projects as a minimum; for construction, commissioning and testing of HVAC systems?	Previous similar work experience and key personnel allocated to this project should be documented (Organogram with key staff indicated). This is to ensure that all roles and responsibilities are covered.		50
<b>4</b>	<b>Electrical Requirements</b>			<b>20</b>	
	4.1.	<p>Has the main Contractor or Subcontractor confirmed compliance to the full electrical scope of work and Technical Specification for the Works Information:</p> <ul style="list-style-type: none"> <li>a) Compliance to scope of work</li> <li>b) Intent to undertake full scope of work</li> <li>c) Compliance to standards and specifications</li> </ul>	Section 3.7. of the Employer 's Works		20
	4.2.	Has the main Contractor or Subcontractor provided certification of professional registration with the Engineering Council of South Africa (ECSA), in Power Engineering (Heavy Current) or Electrical Contractors Association (ECA)			40

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	<b>Qualitative Technical Criteria Description</b>		<b>Reference to Technical Specification / Tender Returnable</b>	<b>Criteria Weighting (%)</b>	<b>Criteria Sub Weighting (%)</b>
	4.3.	Has the main Contractor or Subcontractor provided a single line drawing or block diagram on the proposed electrical reticulation from the 380V Water Treatment Plant Boards to the 380V AC HVAC Electrical Distribution Panel.			20
	4.4.	Has the main Contractor or Subcontractor provided a cable schedule to indicated the typical size and type of power cable/s to be used and terminated between the 380V Water Treatment Plant Boards and 380V AC HVAC Electrical Distribution Panel, utilising the estimated power requirements and distances as stipulated in section 3.7.2 and 3.7.3	Section 3.7.2 and 3.7.3 of the Employer 's Works Information		20
<b>5.</b>	<b>C &amp; I Requirements</b>			<b>20</b>	
	5.1	C & I Requirements: Method Statement – A statement from the Tenderer detailing how they plan to execute the work for the C&I requirements as described in the WI.	Section 3.8 of the Employer 's Works Information		50
	5.2	Tenderer to provide traceable evidence of C&I work that was executed in the past.	Order or Letter		20
	5.3	CV and ECSA Registration of key personnel Tenderer to submit CV and ECSA registration certificate for Electrical/C&I Engineer or Technologist	CV and ECSA Certificate		30
<b>6.</b>	<b>Builders work, Civil Engineering and Structural Works</b>			<b>15</b>	
	6.1	<b>ECSA registered Professional Engineer/Technologist</b> Submit a CV and Qualification(s) for ECSA Professional Civil Engineer/Technologist with a minimum of 5 years' experience within the civil engineering industry (See item 2.7 below)			70
	6.2	Design Requirements and Structural Scope – Has the tender confirmed compliance to the Employer's requirements? Confirmation of compliance to be as a signed written letter	Section 3.9.3 and section 3.9.2 of the Employer 's Works Information		70
				<b>TOTAL: 100</b>	

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The weight for the technical review will be 100 % with a minimum threshold of 70% and will be based on the following:

**2.1. Professional Registered Mechanical Technologist/ Engineer**

The design (where required) in terms of this Contract is to be executed by a qualified professional Technologist/Engineer who is a member of Engineering Council of South Africa (ECSA) or equivalent international acknowledgement.

Qualitative Technical Evaluation Criteria		Score [0,2,4,5]	Scoring Criteria
1.	Professionally Registered Technologist/Engineer with a track record of 5 completed projects as a minimum.		5 = Formal BSc/Btech qualification or equivalent international acknowledgement, and has 6 or more years working experience.  4 = Formal BSc/Btech qualification or equivalent international acknowledgement, but has 4 to 5 years working experience.  2 = Formal BSc/Btech qualification or equivalent international acknowledgement, but less than 3 years working experience.  0 = Has less than 3 years' experience and no formal BSc/Btech qualification or equivalent international acknowledgement.

**2.2. General Foremen**

The General Foreman is the person to whom the Contractor has assigned the responsibility of supervising the teams engaged in construction activities. He shall commit to the project for its full duration, unless otherwise agreed by the parties. Should a substitution be allowed, only a person with the same or higher qualifications and experience will be accepted. The contractor is to provide contactable references.

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Tenderers will score points for a nominated General Foreman with with three (3) or more years working experience in the construction of HVAC projects. Points will be awarded as follows:

<b>GENERAL HVAC FOREMAN</b>	<b>Points</b>	<b>Score</b>
<b>Trade Test on air conditioning &amp; refrigeration</b>		
No formal trade test	0	20
Trade Test on air conditioning & refrigeration or equivalent international acknowledgement	5	
<b>Working years within HVAC/Mechanical post trade test qualification</b>		
1 year	2	40
1 – 2 years	4	
2 – 3 years	5	
<b>Experience on Dx. Package Cooling and Commissioning of HVAC Systems installation</b>		
Number of projects < 2	2	40
Number of projects 2 < 3	4	
Number of projects > 4	5	
<b>Total Score</b>		<b>100</b>

**2.3. Lead time to mobilise team to site after contract award**

<b>LEAD TIME TO MOBILISE TEAM</b>	<b>Points</b>	<b>Score</b>
More than 3 months	0	100
Between 2 and 3 months	2	
Between 1 and 2 months	4	
1 month or less	5	
<b>Total Score</b>		<b>100</b>

#### **2.4. Completed HVAC Equipment Data Sheets**

The Tenderer is to provide a completed HVAC equipment data sheets as listed under section 3.1.2 of the Employer's Works Information. The assessment criterion is as follows:

<b>HVAC EQUIPMENT DATA SHEETS</b>	<b>Points</b>	<b>Score</b>
No completed Equipment Data Sheets	0	100
Partially completed Equipment Data Sheets	2	
Equipment Data Sheets completed in full, not supplemented by additional descriptions, explanations, drawings and literature	4	
Equipment Data Sheets completed in full, supplemented by additional descriptions, explanations, drawings and literature	5	
Total Score		<b>100</b>

#### **2.5. Technical qualifications and deviations**

Has the Tenderer confirmed compliance to the full scope of work and Technical Specification for the Works Information. The assessment criterion is as follows:

<b>QUALIFICATIONS AND DEVIATIONS</b>	<b>Points</b>	<b>Score</b>
No completed technical qualifications and deviations	0	100
Deviation, not technically accepted (non-compliance with the scope and specifications)	2	
Deviation, technically accepted (compliance with scope and specifications)	4	
No deviations	5	
Total Score		<b>100</b>

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**2.6. General**

The assessment criterion proposed work plan is as follows:

<b>PROPOSED WORK PLAN</b>	<b>Points</b>	<b>Score</b>
None of conditions of proposed work plan have met	0	100
Only one condition of proposed work plan have met	2	
Only two conditions of proposed work plan have met	4	
All three conditions of proposed work plan have met	5	
Total Score		<b>100</b>

Has the Tenderer confirmed that they have a track record of three (3) completed similar projects as a minimum; for construction, commissioning and testing of HVAC systems? The assessment criterion is as follows:

<b>TENDERER TRACK RECORD</b>	<b>Points</b>	<b>Score</b>
Number of projects 1 < 2	2	
Number of projects 2 > 3	4	
Number of projects > 3	5	
Total Score		<b>100</b>



## **2.7. Professional Registered Civil Technologist/ Engineer**

The design (where required) in terms of this Contract is to be executed by a qualified professional Technologist/Engineer who is a member of Engineering Council of South Africa (ECSA) or equivalent international acknowledgement.

<b>Qualitative Technical Evaluation Criteria</b>		<b>Score [0,2,4,5]</b>	<b>Scoring Criteria</b>
6.1	Submit a CV and Qualification(s) for ECSA Professional Civil Engineer/Technologist with a minimum of 5 years' experience within the civil engineering industry		<p>5 = CV and all qualifications/certificates submitted for a Professional Engineer/Technologist with 5 or more years of relevant experience.</p> <p>4 = CV and all qualifications/certificates submitted for a Professional Engineer/Technologist with a minimum of +3 years of relevant experience but less than 5 years of relevant experience.</p> <p>2 = CV and all qualifications/certificates submitted for a Professional Engineer/Technologist with a minimum of +1 year of relevant experience but less than 3 years of relevant experience.</p> <p>0 = Incomplete CV or No qualifications/certificates submitted</p>
6.2	Design Requirements and Structural Scope – Has the tender confirmed compliance to the Employer's requirements? Confirmation of compliance to be as a signed written letter		<p>5 = Submitted confirmation of compliance and signed by the company representative</p> <p>0 = No submission or submission without a signature.</p>