

TRANSNET NATIONAL PORTS AUTHORITY

SUBSTATION PROTECTION TESTING

Technical evaluation criteria (minimum threshold of **60%** will qualify bidders to the next phase)

TECHNICAL EVALUATION		Maximum score
<i>Policy, Organisation and Safety and Health Management Involvement</i> Critical Elements numbers 1, 2, 3 and 4 <ol style="list-style-type: none"> 1. Safety and Health Plan 2. Signed and dated Safety and Health Policy copy signed by the Chief Executive Officer / Managing Director 3. OHS Act 16.2 Appointee 4. Relevant SHE legal appointees in terms of Construction Regulations applicable to the Project: <ol style="list-style-type: none"> a. SHE Representatives b. First Aiders c. Risk Assessors 5. Company organogram 	0= No response or none of the key elements met.	10
	20%= The Service provider has submitted Policy, Organisation and Safety and Health Management Involvement with the key elements met but only 1 element is critical.	
	40%= The Service provider has submitted Policy, Organisation and Safety and Health Management Involvement with the key elements met but only 2 are critical elements.	
	60%= The Service provider has submitted Policy, Organisation and Safety and Health Management Involvement with 1, 2 and 3 critical elements met.	
	80%= The Service provider has submitted Policy, Organisation and Safety and Health Management Involvement with 1, 2, 3 critical elements and element 4 met.	
	100%= The Service provider has submitted Policy, Organisation and Safety and Health Management Involvement with all 5 elements met including the 3 critical elements.	
Risk Assessment The Service provider to submit a detailed Risk Assessment. The information to ensure SHE compliance in terms of Scope of work – Critical Elements are numbers 1, 2 and 3 Baseline risk assessment which as a minimum includes these critical elements: <ol style="list-style-type: none"> 1. Identify the risks and hazards to which persons may be exposed to. 2. Analysis and evaluation of identified risks/ hazards. 3. Measures to mitigate, reduce or control the risks and hazards identified with roles and responsibilities for implementation and control. 4. Defined Risk Assessment methodology in which risks are quantified. 5. Signed Risk assessment by 16.2 or Construction Manager or Construction Supervisor. 	0= No response or none of the key elements met.	10
	20%= The Service provider has submitted a Risk Assessment with the key elements met but only 1 element is critical.	
	40%= The Service provider has submitted a Risk Assessment with the key elements met but only 2 are critical elements.	
	60%= The Service provider has submitted a Risk Assessment with 1, 2 and 3 critical elements met.	
	80%= The Service provider has submitted a Risk Assessment with 1, 2, 3 critical elements and element 4 met.	
	100%= The Service provider has submitted a Risk Assessment with all 5 elements met including the 3 critical elements.	

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<p>Method Statement- documents or required information to ensure SHE compliance in terms of Scope of work –</p> <p>Critical Elements are numbers 1, 2 and 3</p> <p>1.Scope of the work and hazards identified are aligned to risk assessment.</p> <p>2.Minimum Personal Protective Equipment (PPE) required to complete the job</p> <p>3.Personnel required and responsibilities</p> <p>4.Resources and equipment required</p> <p>5.Emergency procedures</p>	<p>0= No response or none of the key elements met.</p> <p>20%= The Service provider has submitted a Method Statement with the key elements met but only 1 element is critical.</p> <p>40%= The Service provider has submitted a Method Statement with the key elements met but only 2 are critical elements.</p> <p>60%= The Service provider has submitted a Method Statement with 1, 2 and 3 critical elements met.</p> <p>80%= The Service provider has submitted a Method Statement with 1, 2, 3 critical elements and element 4 met.</p> <p>100%= The Service provider has submitted a Method Statement with all 5 elements met including the 3 critical elements.</p>	10
<p>Company experience.</p> <p>The Contractors Company has previously undertaken protection engineering and testing for other clients or companies that have medium voltage (11 – 33kV or greater) substations.</p> <p>The name of the client or company for which work was undertaken, details of the work and the contact details (cell phone number) of a contact person at those clients or companies must be supplied for evaluation purposes. The more information provided the better.</p> <p>Contract in this case also means any purchase order awarded to the contractor's company for protection engineering and testing.</p>	<p>0= No previous protection engineering and testing contracts undertaken or no proof of company experience submitted.</p> <p>20%= Three previous protection engineering and testing contracts undertaken.</p> <p>40%= More than three but less than or equal to five previous protection engineering and testing contracts undertaken.</p> <p>60%= More than five but less than or equal to seven previous protection engineering and testing contracts undertaken.</p> <p>80%= More than seven but less than or equal to nine previous protection engineering and testing contracts undertaken.</p> <p>100%= Ten or more previous protection engineering and testing contracts undertaken.</p>	20
<p>Professional Electrical Engineer, protection engineering and testing, qualification, and experience.</p> <p>The Protection engineer carrying out the work (as detailed in the scope of work) needs to be registered with the Engineering Council of South Africa (ECSA) as a Professional Electrical engineer. Certified proof of ECSA registration as a Professional Electrical engineer must be submitted.</p> <p>The professional Electrical Engineer must have experience in the field of protection engineering, protection testing and power system fault analysis.</p> <p>This is as per the scope of work and means the calculation of protection settings, the application and testing of those</p>	<p>0= 1)No proof of ECSA registration submitted, has no previous protection engineering, protection testing and power system fault analysis experience, not based at a local office within 55 kilo-meters of the Port of Durban or no proof of the above submitted.</p> <p>20%= 1)Proof of ECSA registration submitted.</p> <p>2) The Professional Electrical Engineer has three or less years' experience in the field of protection engineering, protection testing and power system fault analysis.</p> <p>3) The Professional Electrical Engineer is permanently based at a local office within 55 kilo-meters of the Port of Durban.</p>	

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<p>settings for all of the forms of protection mentioned in the scope of work. Also be able to download fault information from the protection relays, analyse that information and report on it with graphical explanations.</p> <p>A traceable portfolio of experience must be submitted as proof of experience. The name of the client or company for which work was undertaken, details of the work and the contact details (cell phone number) of a contact person at those clients or companies must be supplied for evaluation purposes</p> <p>The professional Electrical Engineer must also be permanently based at a local office within 55 kilo-meters of the Port of Durban. This is to ensure response times to callouts as per annexure "B". No points will be awarded to the professional Electrical Engineer for this section if the local office criteria are not met. Proof of business address must be provided.</p> <p>All of the criteria as detailed above and listed in the adjacent column to the right must be met to achieve the applicable percentage of points allocated.</p>	<div><div>40% = 1)Proof of ECSA registration submitted.</div><div>2) The Professional Electrical Engineer has more than three years but less than or equal to five years' experience in the field of protection engineering, protection testing and power system fault analysis.</div><div>3) The Professional Electrical Engineer is permanently based at a local office within 55 kilo-meters of the Port of Durban.</div></div> <div><div>60% = 1)Proof of ECSA registration submitted.</div><div>2) The Professional Electrical Engineer has more than five years but less than or equal to seven years' experience in the field of protection engineering, protection testing and power system fault analysis.</div><div>3) The Professional Electrical Engineer is permanently based at a local office within 55 kilo-meters of the Port of Durban.</div></div> <div><div>80%= 1)Proof of ECSA registration submitted.</div><div>2)The Professional Electrical Engineer has more than seven years but less than or equal to nine years' experience in the field of protection engineering, protection testing and power system fault analysis.</div><div>3) The Professional Electrical Engineer is permanently based at a local office within 55 kilo-meters of the Port of Durban.</div></div> <div><div>100%= 1) Proof of ECSA registration submitted.</div><div>2) The Professional Electrical Engineer has ten or more years' experience in the field of protection engineering, protection testing and power system fault analysis.</div><div>3) The Professional Electrical Engineer is permanently based at a local office within 55 kilo-meters of the Port of Durban.</div></div>	50
	100	