

## **TECHNICAL / FUNCTIONALITY EVALUATION**

Potential service providers will have to achieve a minimum of **75 points out of 100** for their technical proposals before their financial proposals and Specific Goals are evaluated. This is required so that there is a level of comfort that the potential service provider can deliver the project with the required professionalism and quality.

### **1.1.1 SCORING PROCESS**

The Technical / Functional Evaluation Task Team will be established to determine the following:

- Whether or not the Bidder understood the project specifications.
- The bidders experience with similar projects.
- The suitability of the bidder's proposed Plant and Equipment.
- The qualifications and experience of the proposed.
- The suitability of Sub-Contractors proposed.

No alteration of technical / functionality proposals will be permitted after the deadline for receipt of bids. Questions may be asked for clarification needed to evaluate their proposals, but bidders would not be permitted to change the substance or price of their bids after bid opening. Requests for clarification and the bidder's responses would be made in writing. No interviews will be conducted in this regard.

### **1.1.2 MANDATORY REQUIREMENTS**

<b>Scope related Information and Documentation required:</b>	
Please ensure that the following supporting documents are attached to your Bid Document. Failure to submit the below mentioned documents will result in disqualification of your bid.	
<b>Item</b>	<b>Description of Document/Proof Sought</b>
1.	Proof of Electrical Contractors Board registration for the bidding company. All bidders registered before 2012 may provide proof of registration with the Electrical Contracting Board (ECB), however due to the changes made between the ECB and Department of Labour (DoL) in 2012, all contractors registered after 2012 may provide proof of registration with the Department of Labour.
2.	The Contract CIDB Rating required for this Contract is CIDB 7EP. Bidders shall submit proof of Current Registration.

### 1.1.3 SCORING CRITERIA FOR CIDB CONTRACTS:

The score for the Technical / Functionality Evaluation will be calculated in accordance with the table below:

CRITERION	CRITERION DETAILS	POINTS
<b>Company Experience</b> Only signed completion certificates or reference letters on the letterheads of the previous client/employer with a clear description of works, contract value, contact person, and contact details of the contact person will be accepted. <b>Submission must be dated and not older than ten (10) years, from the date of completion.</b>	<b>Company experience in Installation of Electric Motors, provide completion certificates or reference letters for completed projects in bidders' client's letterhead, with a minimum Bid value of R1 Million or exceeding. Work completed should not be older than 5 years.</b> <ul style="list-style-type: none"> <li>5 and More Letters/Certificates = 40</li> <li>4 Letters/Certificates = 30</li> <li>3 Letters/Certificates = 20</li> <li>2 Letters/Certificates = 10</li> <li>1 Letter/Certificate = 5</li> <li>No information submitted = 0</li> </ul> Appointment Letters, Contractual Agreements, and Invoices will not be accepted. Each letter should represent the entire works completed not section or plants partially completed. <b>No subcontracting letters/completion certificates will be accepted.</b>	40
<b>Expertise of key staff</b> Bidders to provide Curriculum Vitae(s) to prove the relevant experience as well as complete pro-forma CVs in full.	<b>Expertise of key staff:</b> No points shall be allocated for 0 – 23 Months experience, including submission of irrelevant experience that does not speak to the Scope of Works for this Contract. Certified copies of the qualifications must also be attached. Experience of key staff will be evaluated based on the years/ months post qualification attainment up to date of tender closure. <u>Project Manager ( BSc/ BTech or higher : Electrical )</u> <ul style="list-style-type: none"> <li>No submission/No Experience = 0</li> <li>36 – 48 Months' Experience = 05</li> <li>49 – 72 Months' Experience = 10</li> </ul> <u>Supervisor (National Diploma or higher : Electrical)</u> <ul style="list-style-type: none"> <li>No submission/No Experience = 0</li> <li>36 – 48 Months' Experience = 05</li> <li>49 – 72 Months' Experience = 10</li> </ul> <u>Installation Electrician with a trade test:</u> <ul style="list-style-type: none"> <li>No submission/No Experience = 0</li> <li>24 – 48 Months' Experience = 05</li> <li>49 – 72 Months' Experience = 10</li> </ul>	30
<b>Letter of Support</b>	Manufacturer's (Supplier) of Electric (AC) Motors Statement of Support = 30 The letter shall be addressed to the bidder, and clearly stipulate that the manufacturer of the of Electric (AC) Motors will provide Installation and Operational Support for the equipment. Failure to supply the above letter will result in the bidder scoring 0 points Bidders may supply letters from the official suppliers, provided that the bidder provides an agreement between the official supplier and the Original Equipment Manufacturer.	30
<b>TOTAL</b>	<b>Bidder must score a minimum of 75 points to be considered for further evaluation</b>	100

PRICING SCHEDULE – SUPPLY OF ELECTRICAL CABLES				
ITEM	DESCRIPTION	UNIT	QTY	RATE
1	1.5mm <sup>2</sup> 4core SWA Cable including termination kits	per metre	1	
2	2.5mm <sup>2</sup> 4core SWA Cable including termination kits	per metre	1	
3	4mm <sup>2</sup> 4core SWA Cable including termination kits	per metre	1	
4	6mm <sup>2</sup> 4core SWA Cable including termination kits	per metre	1	
5	10mm <sup>2</sup> 4core SWA Cable including termination kits	per metre	1	
6	16mm <sup>2</sup> 4core SWA Cable including termination kits	per metre	1	
7	25mm <sup>2</sup> 4core SWA Cable including termination kits	per metre	1	
8	35mm <sup>2</sup> 4core SWA Cable including termination kits	per metre	1	
9	70mm <sup>2</sup> 4core SWA Cable including termination kits	per metre	1	
10	95mm <sup>2</sup> 4core SWA Cable including termination kits	per metre	1	
11	120mm <sup>2</sup> 4core SWA Cable including termination kits	per metre	1	
12	185mm <sup>2</sup> 4core SWA Cable including termination kits	per metre	1	
13	1.5mm <sup>2</sup> 7core SWA Cable including termination kits	per metre	1	
14	2.5mm <sup>2</sup> 7core SWA Cable including termination kits	per metre	1	

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

PRICING SCHEDULE – SUPPLY OF ELECTRICAL CABLES				
ITEM	DESCRIPTION	UNIT	QTY	RATE
15	1.5mm <sup>2</sup> 4core Trailing Cable including termination kits	per metre	1	
16	2.5mm <sup>2</sup> 4core Trailing Cable including termination kits	per metre	1	
17	10mm <sup>2</sup> 4core Trailing Cable including termination kits	per metre	1	
18	16mm <sup>2</sup> 4core Trailing Cable including termination kits	per metre	1	
19	1mm <sup>2</sup> x 2 Pair Twisted Screened SWA Cable including termination kits	per metre	1	
20	1mm <sup>2</sup> x 4 Pair Twisted Screened SWA Cable including termination kits	per metre	1	
21	1mm <sup>2</sup> x 12 Pair Twisted Screened SWA Cable including termination kits	per metre	1	
22	10mm <sup>2</sup> Bare Copper Earth Cable including termination kits	per metre	1	
23	16mm <sup>2</sup> Bare Copper Earth Cable including termination kits	per metre	1	
24	70mm <sup>2</sup> Bare Copper Earth Cable including termination kits	per metre	1	
25	95mm <sup>2</sup> Bare Copper Earth Cable including termination kits	per metre	1	
26	10mm <sup>2</sup> Insulated Earth Cable including termination kits	per metre	1	
27	16mm <sup>2</sup> Insulated Earth Cable including termination kits	per metre	1	
28	70mm <sup>2</sup> Insulated Earth Cable including termination kits	per metre	1	
29	95mm <sup>2</sup> Insulated Earth Cable including termination kits	per metre	1	
<b>*Provisional Sum subject to approval</b>		<b>Sum</b>	<b>1</b>	<b>R3 000 000</b>

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

### C3.1.1 Datasheet

This is the minimum specifications ERWAT will consider: Bidders are required to submit datasheets and manufactures brochures that are linked to the completed datasheet. Failure to complete the datasheet in full and requirements above (Manufacturer's Brochures) will lead to disqualification. ERWAT reserves the right to verify submitted information. **In the event that the information completed by the bidder below differs from the brochure submitted, the brochure will take precedence and will be used to verify compliance to the mandatory requirements**

Items No	Description	Specified: Engineer	Specified: Bidder
i.	Type of driving machine	AC-Motor	
ii.	Operating Voltage	380 – 400 V	
iii.	Efficiency	IE1 and IE3	
iv.	Frame material for Single Phase Motors	Aluminium	
v.	Frame material for Three Phase Motors	Cast Iron	
vi.	Ingress Protection for IE1 Motors	IP55	
vii.	Ingress Protection for IE3 Motors	IP66	
viii.	Insulation for IE1 Motors	Class H	
ix.	Insulation for IE3 Motors	Class H	
x.	Frequency (Hz)	50 Hz	

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

### **C3.5. INTRODUCTION AND BACKGROUND**

#### **C3.5.1.1 BACKGROUND TO THE HEALTH AND SAFETY SPECIFICATION**

The Construction Regulations 2014 place the onus on the Client to prepare a preconstruction Health and Safety specification, highlighting all risks not successfully eliminated during design setting standards for Health and Safety during construction phase.

#### **C3.5.1.2 PURPOSE OF THE HEALTH AND SAFETY SPECIFICATION**

To assist in achieving compliance with the Occupational Health and Safety Act 85/1993 and the promulgated Construction Regulations 2014 in order to reduce incidents and injuries. These specifications shall act as the basis for the drafting of the construction phase Health and Safety plan by the Contractor.

The specification sets out the requirements to be followed by the Principal Contractor and their Contractors so that the Health and Safety of all persons potentially at risk may receive the same priority as other facets of the project e.g. Cost, programmed, environment, quality etc.

### **C3.5.2 HEALTH AND SAFETY SPECIFICATION**

#### **C3.5.2.1 SCOPE**

This specification covers the requirements for eliminating and mitigating incidents and injuries on the **ERW2407/09: APPOINTMENT OF SERVICE PROVIDER/S TO SUPPLY, DELIVER & INSTALL ELECTRICAL MOTORS & ACCESSORIES AT ERWAT WASTEWATER CARE WORKS ON 'AS & WHEN REQUIRED' BASIS FOR A PERIOD OF THIRTY-SIX (36) MONTHS.**

The scope also addresses legal compliance, hazard identification and risk assessment, risk control and promoting a Health and Safety culture amongst those working on the project. The specification also makes provision for the protection of those persons other than employees.

##### **C3.5.2.1.2 Provision for Health & Safety Cost**

The Principal Contractor must make adequate provision for the cost of Health & Safety Measures during the construction process as required by the Construction Regulation 5(1)(g).

The health and safety cost will be recovered from the provisional sum allocated for this purpose.

#### **C3.5.2.2 INTERPRETATIONS**

##### **C3.5.2.2.1 APPLICATION**

This specification is a compliance document drawn up in terms of the South African legislation and is therefore binding. It must be read in conjunction with relevant legislation as noted previously.

##### **C3.5.2.2.2 DEFINITIONS**

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2