



NOTICE TO TENDERERS NO: 2
Pages: 20

04 March 2025

TENDER 170C/2024/25: PROVISION OF PROFESSIONAL SERVICES IN RESPECT OF THE DESIGN AND CONSTRUCTION MONITORING OF PHILIPPI SUBSTATION BUILDING EXTENSION AND ALTERATION WORKS

CLOSING DATE OF TENDER: Closing date of tender extended from 11 March 2025 to 1 April 2025 (this Notice)

BOX NUMBER: 203

Dear Sir/Madam

AMENDMENTS TO THE CONTRACT DOCUMENT

Your attention is specifically drawn to the amendments which are to be made to the Contract Document for the above in terms of Clause C.3.2 of the Tender Data and you will be deemed to have made any allowances necessary to provide for these amendments in your tender offer

(1) EXTENSION OF THE CLOSING DATE OF THE TENDER

Closing date of tender extended from 11 March 2025 to **01 April 2025**

(2) REPLACEMENT OF PAGES IN DOCUMENT

PAGE 9 - 15: (Tender Data)

Tenderers to note that pages 9 - 15 of Volume 1: Part T1.2: Tender Data, be replaced with the attached pages.

- Table of Key Personnel amended;
- Eligibility requirements for Support Resources - C.2.1.4.3 has been removed;
- Eligibility requirements for Track Record of tenderer - C.2.1.4.5 has been removed;
- Minimum score for quality/ functionality - C.2.1.4.6 has been amended.

PAGE 58 - 59: (C2.1 Pricing Assumptions)

Tenderers to note that pages 58 and 59 of Volume 1: Part C2 Pricing Data, be replaced with the attached pages.

Clause 16 - Geotechnical investigations references corrected and

Clause 23 – Pricing assumption for the Electrical Engineer for Substation Earthing designs added.

PAGE 60 - 63: (C2.2 Activity Schedule - Bill of Rates)

Tenderers to note that pages 60 - 63 of Volume 1: Part C2 Pricing Data, be replaced with the attached pages.

Mechanical Engineering Services and Electrical Engineering Service (substation earthing) Items 9 and 10 was added.

PAGE 83 and 84 (C3.1 Scope of Work)

Tenderers to note that pages 83 and 84 of Volume 1: Part C3: Scope of Work, be replaced with the attached pages.

Table of Key Personnel amended.

PAGE 112 (C5.2 Returnable Schedules)

Tenderers to note that page 112 of Volume 1: Part C5: Returnable Documents, be replaced with the attached pages.

Schedule 11 - Table detailing number of projects was amended.

PAGE 135 (C5.2 Returnable Schedules)

Tenderers to note that page 135 of Volume 1: Part C5: Returnable Documents, be replaced with the attached pages.

Schedule 13 – Eligibility requirement/s for this Schedule was removed.

PAGE 137 (C5.2 Returnable Schedules)

Tenderers to note that page 137 of Volume 1: Part C5: Returnable Documents, be replaced with the attached pages.

Schedule 15 – Functionality Criteria requirement/s for this Schedule was amended.

Tenderers are to return a signed copy of this notice/addendum with the submission of their Tender. Failure to return a signed copy of the Addendum may result in the Tender being declared Non-Responsive.

Yours faithfully,

pp. SCM21 *nsamad*

For: Director: Supply Chain Management

WRITTEN ACKNOWLEDGEMENT OF RECEIPT OF NOTICE 2 – 170C/2024/25

Signature **Date**

Legal and full name of tendering entity:

.....

Service	Competency	Minimum Number of Professionals
Structural Engineering Service	A <u>registered professional Structural Engineer/Technologist (Senior/Lead)</u> Pr.Eng / PrTech Eng, who has undertaken analysis, design, control and monitoring of structural works pertaining to reinforced concrete structures incl. waterproofing of the substructure. <i>(For experience requirements refer to Functionality Criteria)</i>	1 Could be same as Principal Agent or PM, but not both.
Civil Engineering Services	A <u>registered professional Civil Engineer/Technologist (Senior/Lead)</u> Pr.Eng / PrTech Eng, who has undertaken analysis, design, control and monitoring of civil works for roadways, stormwater and building services <i>(For experience requirements refer to Functionality Criteria)</i>	1 Could be same as Principal Agent or PM, but not both.
Electrical Engineering Services	A <u>registered professional Electrical Engineer/Technologist (Senior/Lead)</u> Pr.Eng / PrTech Eng, who has undertaken analysis, design, control and monitoring of all electrical works related to building services. <i>(For experience requirements refer to Functionality Criteria)</i>	1 Could be same as Principal Agent or PM, but not both.
Project Management (PM) Services	A <u>professional registered with a professional Council</u> , i.e. ECSA, SACAP, SACPCMP or SACQSP who has undertaken project management duties/ functions of all works related to all types of construction work. The professional can be any of the above key personnel. <i>(For experience requirements refer to Functionality Criteria)</i>	1 Could be Structural/ Civil/ Geotechnical/ Electrical/ Mechanical Eng or QS/Architect as well, but may not be the same as the Principal Agent.
Electrical Engineering Services (<u>Substation earthing</u>)	A <u>registered professional Electrical Engineer/Technologist (Senior/Lead)</u> Pr.Eng / PrTech Eng, who has undertaken analysis, design, and monitoring of HV substation earthing design. <i>(Refer to Scope of Work for level of service required)</i>	1 Could be same person as building services electrical engineer
Geotechnical Engineering Services	A <u>registered professional Geotechnical Engineer/Technologist (Senior/Lead)</u> Pr.Eng / PrTech Eng, who has undertaken geotechnical investigation, logging of test pits, foundation and retaining wall design and control and monitoring of geotechnical works. The Lead Geotechnical Engineer's first degree shall be in Engineering <i>(Refer to Scope of work for level of service required)</i>	1 Could be same as Principal Agent or PM, but not both.
Mechanical Engineering Services	A <u>registered professional Mechanical Engineer/Technologist</u> Pr.Eng / PrTech Eng, who has undertaken analysis, design, control and monitoring duties/ functions of all works related to mechanical engineering building services. <i>(Refer to Scope of work for level of service required)</i>	1 Could be same as Principal Agent or PM, but not both.
Quantity Surveying Services	A <u>registered professional Quantity Surveyor (Senior/Lead)</u> (PrQS) who has undertaken quantity surveying duties/ functions of all works related to all types of building construction work. <i>(Refer to Scope of work for level of service required)</i>	1 Could be same as Principal Agent or PM, but not both.
Architectural Services	A <u>registered professional Architect (Senior/Lead)</u> Pr.Arch or Professional Architectural Technologist who has undertaken architecture duties/ functions of all works related to all types of reinforced concrete building construction work. <i>(Refer to Scope of work for level of service required)</i>	1 Could be same as Principal Agent or PM, but not both.
Principal Agent	A <u>professional registered with a professional Council</u> Either ECSA, SACAP, SACPCMP or SACQSP who has undertaken the Principal Agent duties/ functions in administrating the JBCC Conditions of Contract. <i>(Refer to Scope of work for level of service required)</i>	1 Could be Structural Civil/ Geotechnical/ Electrical/ Mechanical Eng or QS/Architect as well, but may not be the same as the PM.

Service	Competency	Minimum Number of Professionals
Occupational Health and Safety Services	An Occupational Health and Safety Practitioner registered with SACPCMP or other body approved by the Department of Labour with the necessary competencies and resources to act as Client's Agent in terms of the Occupational Health and Safety Act <i>(Refer to Scope of work for level of service required)</i>	1

Key personnel who must be registered with their professional Councils, i.e. ECSA, SACAP, SACLAP, SACPCMP and SACQSP are as indicated above. The professional registration numbers of the key personnel must be indicated on the schedule titled **Key Personnel**, Part C5.2: Returnable Schedules. The *curriculum vitae* of all key personnel (including sub-consultants), must be submitted with the tender submission, appended to this Schedule.

Key personnel will be expected to operate out of a local office, as the exigencies of the project require.

C.2.1.4.3 **Support resources**

NOT Applicable to this tender

C.2.1.4.4 **Professional indemnity insurance**

In order to be declared responsive, the tenderer must provide proof of insurance or confirmation from a reputable Insurance Broker that the Tenderer is eligible for the prescribed professional indemnity insurance cover should he/she be awarded the contract. The proof/confirmation must be submitted with the tender, appended to Schedule 14, titled **Professional Indemnity Insurance**, or the tenderer will be required to obtain such upon being requested to do so in writing and within the period contained in such a request, failing which their tenders will be declared non-responsive.

The required professional indemnity insurance is as follows:

- a) Structural Engineer – R40 000 000.00
- b) All other disciplines – R20 000 000.00 each.

Where the entity tendering is a joint venture then the value of the PI insurance cover required may be shared between the joint venture partners in proportion to the percentage contribution of each party to the joint venture.

C.2.1.4.5 **Track record of tenderer**

NOT Applicable to this tender

C.2.1.4.6 Minimum score for quality

In order to be considered for a contract in terms of this tender, tenderers must achieve the minimum score for quality as stated below.

The description of the functionality criteria and the maximum possible score for each is shown in the table below. The score achieved for functionality will be the sum of the scores achieved, in the evaluation process, for the individual criteria.

Description of functionality criteria	Maximum possible score
Track Record - Demonstrated experience of the tendering entity with respect to comparable projects;	10
Qualifications and demonstrated experience of the key staff in relation to the scope of work;	50
Maximum possible score for Functionality	60

The minimum qualifying score for functionality is **36** out of a maximum of **60 (60%)**. Tenderers that fail to achieve the minimum score for functionality will be declared as non-responsive.

Where the entity tendering is a Joint Venture, the tenderer's tender response must be accompanied by a statement describing exactly what aspects of the work will be undertaken by each party to the joint venture (appended to Schedule 3 - Certificate of Authority for Partnerships/ Joint Ventures/ Consortiums, Part C5 : Returnable Schedules).

Tenderers shall ensure that all relevant information has been submitted with the tender offer in the prescribed format to ensure optimal scoring of functionality points for each Evaluation Criteria. Failure to provide all information **IN THIS TENDER SUBMISSION** could result in the tenderer not being able to achieve the specified minimum scoring.

A more detailed explanation of the functionality criteria is given below.

C.2.1.4.6.1 Track Record

The tenderer shall provide a detailed list of projects completed in the last 8 years, comprising design and construction work of buildings greater than or equal to a CIDB grading of 6GB. The buildings designed and constructed must contain reinforced concrete structures with brick wall infills.

Details of projects to be listed on Schedule 11. The submitted track record must clearly illustrate the tenderers experience with reinforced concrete structures as well as brick wall infills.

Description	Point allocation
Number of projects of similar scope/complexity which include design and construction monitoring for building construction contracts (CIDB grading of 6GB or higher containing reinforced concrete structures and brick wall infills) completed in the last 8 years	• 0 projects = 0 points • 1 project = 1 points • 2 projects = 2 points • 3 projects = 3 points • 4 projects = 4 points • 5 projects = 5 points • 6 projects = 6 points • 7 project = 7 points • 8 projects = 8 points • 9 projects = 9 points • > 9 projects = 10 points

C.2.1.4.6.2 Key Personnel

In order to achieve points for key personnel as stated below, the tenderer must have the following key personnel in its permanent employment at the close of tender. **Sub-contracted personnel will not be awarded functionality points.** Points will be awarded for the experience of key staff in accordance with the table below. Each position will be scored in terms of (a) Years' Experience, and (b) Number of Projects of similar scope.

As example, the position of "Civil Engineer" can score a maximum of 10 points made up of (a) 5 points if he/she has more than 10 years' experience, and (b) if he/she has completed more than 10 projects of similar scope.

Position	Criteria	
	Years' Experience – Post Registration (A)	Number of new multi-storey Reinforced Concrete Building Projects of Similar Scope (B)
Senior / Lead Structural Engineer/Technologist (Pr.Eng / PrTechEng) (Max = 20 points) Analysis, design and monitoring of structural works for reinforced concrete structures (including extensions to existing reinforced concrete buildings) & waterproofing of the substructure	• Less than 2 years <u>post Registration</u> = 0 • Equal & more than 2 ; less than 5 years (<u>post Req</u>) = 2 • Equal & more than 5 ; less than 7 years (<u>post Req</u>) = 3 • Equal & more than 7 ; less than 10 years (<u>post Req</u>) = 4 • Equal & more than 10 years <u>post Registration</u> = 5	• 0 projects = 0 points • 1 project = 1 points • 2 projects = 2 points • 3 projects = 3 points • 4 projects = 4 points • 5 - 6 projects = 5 points • 7 - 8 projects = 6 points • 9 - 10 projects = 7 points • 11 -12 projects = 8 points • 13 - 14 projects = 9 points • > 14 projects = 10 points
		Number of Projects for Alteration/ Extension of Existing Reinforced Concrete Buildings
		• 0 projects = 0 points • 1 projects = 1 points • 2 projects = 2 points • 3 projects = 3 points • 4 projects = 4 points • > 4 projects = 5 points

Senior / Lead Civil Engineer/Technologist (Pr.Eng / PrTechEng) (Max = 10 points) Analysis, design, control and monitoring of civil works for roadways, stormwater and building services	Years' Experience – Post Registration (A)	Number of Projects of Similar Scope (B)
	• Less than 2 years <u>post Registration</u> = 0 • Equal & more than 2 ; less than 5 years (<u>post Reg</u>) = 2 • Equal & more than 5 ; less than 7 years (<u>post Reg</u>) = 3 • Equal & more than 7 ; less than 10 years (<u>post Reg</u>) = 4 • Equal & more than 10 years <u>post Registration</u> = 5	• 0 - 2 projects = 0 points • 3 - 4 projects = 1 points • 5 - 6 projects = 2 points • 7 - 8 projects = 3 points • 9 - 10 projects = 4 points • > 10 projects = 5 points
Senior / Lead Electrical Engineer/Technologist – Building Services (Pr.Eng / PrTechEng) (Max = 10 points) Analysis, design, control and monitoring of all electrical works related to building services	Years' Experience – Post Registration (A)	Number of Projects of Similar Scope (B)
	• Less than 2 years <u>post Registration</u> = 0 • Equal & more than 2 ; less than 5 years (<u>post Reg</u>) = 2 • Equal & more than 5 ; less than 7 years (<u>post Reg</u>) = 3 • Equal & more than 7 ; less than 10 years (<u>post Reg</u>) = 4 • Equal & more than 10 years <u>post Registration</u> = 5	• 0 - 2 projects = 0 points • 3 - 4 projects = 1 points • 5 - 6 projects = 2 points • 7 - 8 projects = 3 points • 9 - 10 projects = 4 points • > 10 projects = 5 points
Project Management (ECSA, SACAP, SACPCMP or SACQSP) (Max = 10 points) Management of all works related to all types of construction work. The professional can be any of the above key personnel.	Years' Experience – Post Registration (A)	Number of Projects of Similar Scope (B)
	• Less than 2 years <u>post Registration</u> = 0 • Equal & more than 2 ; less than 5 years (<u>post Reg</u>) = 2 • Equal & more than 5 ; less than 7 years (<u>post Reg</u>) = 3 • Equal & more than 7 ; less than 10 years (<u>post Reg</u>) = 4 • Equal & more than 10 years <u>post Registration</u> = 5	• 0 - 2 projects = 0 points • 3 - 4 projects = 1 points • 5 - 6 projects = 2 points • 7 - 8 projects = 3 points • 9 - 10 projects = 4 points • > 10 projects = 5 points

Different individuals shall be identified for each of the key personnel listed, except that the Project Manager (PM) can also fulfil one of the other key personnel roles where meeting the requirements.

Details of the key personnel shall be completed on **Schedule 12: Key Personnel** in the prescribed format.

C.2.1.4.7 **Compulsory clarification meeting**

NOT Applicable to this tender

C.2.7 **Clarification meeting**

Add the following after the second sentence:

The arrangements for the site visit/clarification meeting are as stated on the General Tender Information page and in the Responsiveness Criteria (if applicable).

Tenderers should be represented at the site visit/clarification meeting by a person who is suitably qualified and experienced to comprehend the implications of the work involved.

C.2.8 **Seek Clarification**

Add the following after the first sentence:

The tenderer warrants that it has:

- a) inspected the Specifications and read and fully understood the Conditions of Contract.
- b) read and fully understood the whole text of the Specifications and Price Schedule and thoroughly acquainted itself with the nature of the goods proposed and generally of all matters which may influence the Contract.
- c) visited the site(s) where delivery of the proposed works will take place, carefully examined existing conditions, the means of access to the site(s), the conditions under which the delivery is to be made, and acquainted itself with any limitations or restrictions that may be imposed by the Municipal or other Authorities in regard to access and transport of materials, plant and equipment to and from the site(s) and made the necessary provisions for any additional costs involved thereby.
- d) requested the Employer to clarify the requirements contained in the Specifications and Price Schedule, the exact meaning or interpretation of which is not clearly intelligible to the tenderer.
- e) received any notices to the tender documents which have been issued in accordance with the Employer's SCM Policy.

The Employer will therefore not be liable for the payment of any extra costs resulting from any claim submitted by the tenderer arising from any alleged ambiguity or uncertainty contained in the tender document.

C.2.11 **Alterations to documents**

Delete the first sentence and replace with the following:

Do not make any alterations or additions to the tender documents, except to comply with instructions issued by the employer in writing, or necessary to correct errors made by the tenderer.

C.2.12 **Alternative tender offers**

C.2.12.1 *Add the following to C.2.12.1 at the end of the first sentence:*

If a tenderer wishes to submit an alternative tender offer, he shall do so as a separate offer on a separate set of tender documents. The alternative tender offer shall be submitted in a separat

9. Where a provisional sum has been provided in respect of additional construction monitoring services, the service provider shall, when called upon to do so by the Employer, submit a proposal in respect of such construction monitoring to the Employer for approval. The Service Provider is not entitled to claim the full provision in this regard, but shall rather submit a realistic proposal based on the requirements of the project, and as set out in the Scope of Work, which may be accepted, or rejected, at the sole discretion of the Employer. Level 3 construction monitoring will only be required upon written instruction by the Employer.
10. Where provisional sums are provided in respect of services, etc., these amounts may be omitted in part or in full should the services, etc. not be required. Where services are to be sub-contracted out by the Service Provider, which do not exceed R300 000,00 (including VAT) in value, the Service Provider will typically be required to invite three quotations from suitably qualified sub-consultants/contractors. Where the sub-contracted services are likely to exceed R300 000,00 (including VAT) in value, the Service Provider shall follow an open competitive tender process in respect of this work. A mark up (extra over) in respect of all other costs, overhead charges and profit will be applicable in respect of all sub-contracted services not specifically itemised in the Activity Schedule.
11. Tenderers are to note that only those recoverable expenses listed in the Activity Schedule will be reimbursed to the Service Provider. No reimbursement of costs for subsistence, typing, printing/copying (other than reports and/or tender documents), communications or computer hardware and/or software will be made and these costs will be deemed to be included in rates, sums, and prices for normal and additional services rendered.
12. Items for printing/copying shall be for specified contract documents, reports, manuals and drawings, excluding general correspondence, minor reports, progress reports, etc. which shall be deemed to be included in the professional fees. Payment will only be made for copies of reports and drawings submitted to the Employer or issued, as specified or requested by the Employer, and all drafts shall be for the Service Provider's account.
13. Tenderers are to note that the planning for this contract is based on a three-year budget which is subject to change. While the Employer has every intention to complete the full scope of works, the Employer reserves the right to reduce or increase the scope of works according to the dictates of the budget, or to terminate this contract, without adjustment to the agreed rates, sums or fees and without payment of any penalty or surcharge in this regard. The Service Provider shall however be entitled to pro-rata payment for all services carried out in terms of any adjustment to the Scope of Work or, in the case of termination, remuneration and/or reimbursement as described in Clause 8.4.4 of the Standard Professional Services contract as amended by the Contract Data.
14. If the Service Provider considers it necessary to employ the services of the safety specialist in order to execute duties as the client's agent in terms of the Occupational Health and Safety Act, 85 of 1993 and the Construction Regulations, 2014, should the Employer accept the tender (Clause 5.1.3, Part C3.1 Scope of Work), the cost thereof must be included in the fee tendered for this aspect of the project.
15. If the Service Provider deems it necessary to appoint a sub-consultant as Environmental Officer (EO), the cost thereof must be included in the fee tendered for this aspect of the project.
16. The geotechnical investigation shall be priced even if sub-consulted. The cost of the stipulated investigation must be included in the fee tendered for this aspect of the project (See Activity Schedule rates 6.1- 6.5). No additional geotechnical services shall be undertaken without the approval of the Employer (See Activity Schedule rate 13.3 – 13.5).
17. In terms of the provision of the Scope of Works, the Service Provider shall cover the cost of all general risks, liabilities, and obligations set forth, which includes Site Security Measures for any onsite activity by the Team or its members. The Service Provider shall in connection with the Works provide and maintain at his own cost all, guards, fencing, watching and other appropriate security measures when and where necessary or required. All charges in respect Site Security services, shall be included in the tendered basic fee for normal services.
18. All charges in respect of attendance at meetings, travelling expenses, level 1 and level 2 construction monitoring and the provision of secretarial services, shall be included in the tendered basic fee for normal services.

19. Where fractions of a cent occur in calculations of prices and amounts, they shall be rounded up/down to the nearest whole cent.
20. Clause C.2.13.11 in Part T1.2 Tender Data shall be applicable to the submission of Activity Schedules which have been priced electronically, and which the Tenderer wishes to submit as a printed version with his/her tender in the place of handwritten priced Activity Schedules

If there is found to be any variance between the printed version and the original issued document, the original shall stand. However, where Addenda have been issued which amend the Activity Schedule, then the printed Activity Schedule shall take these into account.

The pages of the issued Activity Schedule should not be removed from the tender document.

21. The Activity Schedule contains only brief descriptions to identify the salient items required and the Tenderer is referred to the Scope of Work and Part C4 of the typical drawings for the full requirements.
22. Unless otherwise stated, items are measured net in accordance with the typical drawings.
23. If the Service Provider deems it necessary to appoint a sub-consultant Electrical Engineer for Earthing Designs, the cost thereof must be included in the fee tendered for this aspect of the project. The service provider under this contract shall ensure the Electrical Engineer have access to an earthing design and analysis software package. These software packages can either be currently owned/licensed by the tenderer, or are available through other means. The availability of such software package/s shall be deemed to be included in the Electrical Engineer's fees accountable for the Substation Earthing design.

The earthing design and analysis software package shall be capable of calculating safety limits in accordance to IEC / IEEE safety standards. Details of the software package that will be used must be indicated on the schedule titled Support Resources, Part C5.2: Returnable Schedules

PROVISION OF PROFESSIONAL SERVICES IN RESPECT OF THE DESIGN AND CONSTRUCTION MONITORING OF PHILIPPI SUBSTATION BUILDING EXTENSION AND ALTERATION WORKS

C2.2 Activity Schedule

ITEM 1 - NORMAL SERVICES (SERVICES BASED ON PHILIPPI BUILDING EXTENSION AND ALTERATIONS WORKS DESIGN – REFER TO C3.1 SCOPE OF WORK AND C4 TYPICAL DRAWINGS)

1	PROJECT MANAGEMENT	Unit	Unit Rate (R)	Estimated Quantity	Total Price (Excl. VAT) (R)
1.1	Project Manager: Hourly rate.	hr			
2	PRINCIPAL AGENT	Unit	Unit Rate (R)	Estimated Quantity	Total Price (Excl. VAT) (R)
2.1	Principal agent: Hourly rate.	hr			
3	ARCHITECTURAL SERVICES	Unit	Unit Rate (R)	Estimated Quantity	Total Price (Excl. VAT) (R)
3.1	Partners & Equity Holders: Specialist	hr			
3.2	>10 years' experience	hr			
3.3	<10 years' experience	hr			
3.4	Staff performing work of an architectural nature and carrying direct responsibility for activities related to a project	hr			
3.5	Staff performing work of an architectural nature under direction and control	hr			
3.6	Architectural draughtsperson (registered with SACAP) for building plans submission	hr			
4	QUANTITY SURVEYING SERVICES	Unit	Unit Rate (R)	Estimated Quantity	Total Price (Excl. VAT) (R)
4.1	Partner	hr			
4.2	Registered Professional	hr			
4.3	Salaried Professional	hr			
5	CIVIL ENGINEERING SERVICE	Unit	Unit Rate (R)	Estimated Quantity	Total Price (Excl. VAT) (R)
5.1	Category A	hr			
5.2	Category B (Lead / Senior)	hr			
5.3	Category C	hr			
5.4	Category D	hr			
6	GEOTECHNICAL ENGINEERING SERVICE	Unit	Unit Rate (R)	Estimated Quantity	Total Price (Excl. VAT) (R)
6.1	Category A	hr			
6.2	Category B (Lead / Senior)	hr			
6.3	Category C	hr			
6.4	Category D	hr			

6.5	Provision of Onsite Geotechnical Testing Resources and Equipment				
6.5.1	Direct Cost for TLB/Excavator and Laboratory tests	Lot		1	
6.5.2	Direct cost for hand excavation and using hand auger next to existing services	Lot		1	
7	STRUCTURAL ENGINEERING SERVICE	Unit	Unit Rate (R)	Estimated Quantity	Total Price (Excl. VAT) (R)
7.1	Category A	hr			
7.2	Category B (Lead / Senior)	hr			
7.3	Category C	hr			
7.4	Category D	hr			
8	ELECTRICAL ENGINEERING SERVICES (Electrical works related to building services)	Unit	Unit Rate (R)	Estimated Quantity	Total Price (Excl. VAT) (R)
8.1	Category A	hr			
8.2	Category B (Lead / Senior)	hr			
8.3	Category C	hr			
8.4	Category D	hr			
9	MECHANICAL ENGINEERING SERVICES	Unit	Unit Rate (R)	Estimated Quantity	Total Price (Excl. VAT) (R)
9.1	Category A	hr			
9.2	Category B (Lead / Senior)	hr			
9.3	Category C	hr			
9.4	Category D	hr			
10	ELECTRICAL ENGINEERING SERVICES (Substation Earthing Design and Testing Service)	Unit	Unit Rate (R)	Estimated Quantity	Total Price (Excl. VAT) (R)
10.1	Specialist Electrical Engineer / Consultant (Lead / Senior)	hr			
10.2	Registered Professional (Category C - D)	hr			
11	CONSTRUCTION MONITORING				
11.1	NORMAL SERVICES (Level 1 and 2 construction monitoring for all services are included in the normal value based fee. Level 3 construction monitoring for services are to be priced. Level 3 will only be required on written instruction by the Employer.)				
Item	Service	Fee			
		Unit	Unit Rate (R)	Estimated Quantity	Total Price (Excl. VAT) (R)
11.1.1	Level 3 construction monitoring as described in the relevant board notices (on agreement and instruction of Employer)	Lot/week		12	
12	OCCUPATIONAL HEALTH and SAFETY PRACTITIONER				
12.1	NORMAL SERVICES				
Item	Service	Fee			
		Unit	Unit Rate (R)	Estimated Quantity	Total Price (Excl. VAT) (R)
12.1.1	Basic risk assessment, compiling health & safety specification & approval of contractor health & safety plan	Lot		1	
12.1.2	Two site visits, one contract meeting per month & monthly report	Lot/month		12	
12.2	ADDITIONAL SERVICES	Unit	Unit Rate (R)	Estimated Quantity	Total Price (Excl. VAT) (R)
12.2.1	Additional services: Hourly rate.	R/hr		R/O	-----

13	REVISION TO DESIGN ONLY ON INSTRUCTION BY EMPLOYER – RE-MEASURABLE	Unit	Unit Rate (R)	Estimated Quantity	Total Price (Excl. VAT) (R)
13.1	Extra-over of redesign work required to amend building design for revisions between the Base size as set out in tender document, and the final approved dimensions once switchgear tender dimensions are finalised. Base size = Building area of 280m² This is to include the additional cost of all disciplines where the design affects the service already provided	Lump sum Variation in volume 0 - 15%		1	
13.2	Extra-over of redesign work required to amend building design for revisions between the Base size as set out in tender document, and the final approved dimensions once switchgear tender dimensions are finalised. Base size = Building area of 280m² This is to include the additional cost of all disciplines where the design affects the service already provided	Lump Sum Variation in volume 16% - 25%		R/O	-----
13.3	Allowance for additional Geotechnical Investigation requirements PROVISIONAL SUM – Site Work	COST	50 000	1	50 000
13.4	Mark-up on Actual Cost on 13.3	%		R/O	-----
13.5	Procure and supervise additional Geotechnical investigation, update factual and interpretive report as per 13.3	hr		40	
13.6	Additional structural design due to variation in the expected soil conditions This is to include the additional cost all disciplines where the design affects the service already provided e.g. QS etc.	hr		40	
13.7	Attendance at Negotiation of Rates as per the Scope of Work.	hr		40	
13.8	Dispute Resolution	hr		40	
14	OTHER SERVICES	Unit	Unit Rate (R)	Estimated Quantity	Total Price (Excl. VAT) (R)
14.1	Land Surveyor	hr			
14.2	Environmental Consultant Service; ECO	month			
14.3	Municipal (BDM) Approval & Drawings	hr			
14.4	Town Planner; LUMS Issues	hr			
14.5	Specialist reinforce concrete works				
14.5.1	Scanning of rebar in existing substation floor slabs, columns and walls	m²		10	
14.5.2	Cut-out of existing reinforce concrete floor and walls for analysis and testing (only on approval by Employer)	m²		20	
14.6	Mark-up on any other services required by Employer where no provision was made in the Schedule of Rates (only to be used on instruction from Employer)	%		R/O	-----

15	DISBURSEMENTS	Unit	Unit Rate (R)	Estimated Quantity	Total Price (Excl. VAT) (R)
15.1	Printing & Copying A0 Drawings (B&W)	each		400	
15.2	Printing & Copying A0 Drawings (Colour)	each		400	
15.3	Printing & Copying A1 Drawings (B&W)	each		400	
15.4	Printing & Copying A1 Drawings (Colour)	each		400	
15.5	Printing & Copying A3 Sheets (B&W)	each		400	
15.6	Printing & Copying A3 Sheets (Colour)	each		400	
15.7	Printing & Copying A4 Sheets (B&W)	each		400	
15.8	Printing & Copying A4 Sheets (Colour)	each		400	
15.9	Printing & Binding of Reports	each		400	
15.10	USB disk 32GB	each		10	
ITEM 1: SUB-TOTAL (ITEMS 1 – 13) CARRIED FORWARD TO SUMMARY					

SUMMARY

A: SUB-TOTAL CARRIED OVER	
B: CONTINGENCIES Allow the <u>sum of 10% (ten percent)</u> of the above Sub-total A for Contingencies to be spent as the Employer may direct and to be deducted in whole or in part if not required	
C: TOTAL INCLUDING CONTINGENCIES	
D: VALUE ADDED TAX ADD: VAT at the rate of 15% of C above	
E: TENDER PRICE CARRIED FORWARD TO C1.1 FORM OF OFFER AND ACCEPTANCE (C+D)	

The Service Provider shall complete, sign and submit with each monthly statement for payment, the following updated returns (the format of which are attached in C3.2 Annexes as amended from time to time):

- B-BBEE Sub-contract Expenditure Report (Annex 1)
- Joint Venture Expenditure Report (Annex 2)

The **B-BBEE Sub-contract Expenditure Report** is required for monitoring the prime contractor's compliance with the sub-contracting conditions of the **Preference Schedule**.

The Joint Venture Expenditure Report is required for monitoring the joint venture's compliance with the percentage contributions of the JV partners as tendered, where the joint venture has been awarded preference points in respect of its consolidated B-BBEE scorecard.

In respect of Annexes 1 and 2, the Employer shall, in addition to any other sanctions available to it, apply the financial penalties applicable to breach of preferencing conditions in the **Preference Schedule** Preference Schedule in Part C5.2 Returnable Schedules. In the case of joint ventures (Annex 2), the contractor shall prove his compliance with item 6) in Section 2 of the Preference Schedule by providing a consolidated scorecard at his own cost on instruction from the Employer's Agent.

12. FORMAT OF COMMUNICATION

All requests for formal approval from the Employer, or any other body, shall be submitted in writing in hardcopy format. Interim payment claims shall be submitted in the same format, accompanied by an original tax invoice. Ad-hoc communication between the Employer and the Service Provider may be conducted per facsimile or in electronic format (e-mail).

All plans and contract documents submitted for approval shall be in hardcopy format.

13. KEY PERSONNEL

The Service Provider shall maintain the involvement of the following key personnel as the exigencies of this contract require, either directly employed, or with an appropriate sub-contracting agreement or Joint Venture Agreement.

Service	Competency	Minimum Number of Professionals
Structural Engineering Service	A registered professional Structural Engineer/Technologist (Senior/Lead) Pr.Eng / PrTech Eng, who has undertaken analysis, design, control and monitoring of structural works pertaining to reinforced concrete structures incl. waterproofing of the substructure. <i>(For experience requirements refer to Functionality Criteria)</i>	1 Could be same as Principal Agent or PM, but not both.
Civil Engineering Services	A registered professional Civil Engineer/Technologist (Senior/Lead) Pr.Eng / PrTech Eng, who has undertaken analysis, design, control and monitoring of civil works for roadways, stormwater and building services <i>(For experience requirements refer to Functionality Criteria)</i>	1 Could be same as Principal Agent or PM, but not both.
Electrical Engineering Services (Building Services)	A registered professional Electrical Engineer/Technologist (Senior/Lead) Pr.Eng / PrTech Eng, who has undertaken analysis, design, control and monitoring of all electrical works related to building services. <i>(For experience requirements refer to Functionality Criteria)</i>	1 Could be same as Principal Agent or PM, but not both.
Project Management (PM) Services	A professional registered with a professional Council , i.e. ECSA, SACAP, SACPCMP or SACQSP who has undertaken project management duties/ functions of all works related to all types of construction work. The professional can be any of the above key personnel. <i>(For experience requirements refer to Functionality Criteria)</i>	1 Could be Structural/ Civil/ Geotechnical/ Electrical/ Mechanical Eng or QS/Architect as well, but may not be the same as the Principal Agent.

Service	Competency	Minimum Number of Professionals
Electrical Engineering Services (Substation Earthing)	A <u>registered professional Electrical Engineer/Technologist (Senior/Lead)</u> Pr.Eng / PrTech Eng, who has undertaken analysis, design, and monitoring of HV substation earthing design. <i>(Refer to Scope of work for level of service required)</i>	1 Could be same person as building services electrical engineer
Geotechnical Engineering Services	A <u>registered professional Geotechnical Engineer/Technologist (Senior/Lead)</u> Pr.Eng / PrTech Eng, who has undertaken geotechnical investigation, logging of test pits, foundation and retaining wall design and control and monitoring of geotechnical works. The Lead Geotechnical Engineer's first degree shall be in Engineering <i>(Refer to Scope of work for level of service required)</i>	1 Could be same as Principal Agent or PM, but not both.
Mechanical Engineering Services	A <u>registered professional Mechanical Engineer/Technologist</u> Pr.Eng / PrTech Eng, who has undertaken analysis, design, control and monitoring duties/ functions of all works related to mechanical engineering building services. <i>(Refer to Scope of work for level of service required)</i>	1 Could be same as Principal Agent or PM, but not both.
Quantity Surveying Services	A <u>registered professional Quantity Surveyor (Senior/Lead)</u> (PrQS) who has undertaken quantity surveying duties/ functions of all works related to all types of building construction work. <i>(Refer to Scope of work for level of service required)</i>	1 Could be same as Principal Agent or PM, but not both.
Architectural Services	A <u>registered professional Architect (Senior/Lead)</u> Pr.Arch or Professional Architectural Technologist who has undertaken architecture duties/ functions of all works related to all types of reinforced concrete building construction work. <i>(Refer to Scope of work for level of service required)</i>	1 Could be same as Principal Agent or PM, but not both.
Principal Agent	A <u>professional registered with a professional Council</u> Either ECSA, SACAP, SACPCMP or SACQSP who has undertaken the Principal Agent duties/ functions in administering the JBCC Conditions of Contract. <i>Refer to Scope of work for level of service required)</i>	1 Could be Structural Civil/ Geotechnical/ Electrical/ Mechanical Eng or QS/Architect as well, but may not be the same as the PM.
Occupational Health and Safety Services	An Occupational Health and Safety Practitioner registered with SACPCMP or other body approved by the Department of Labour with the necessary competencies and resources to act as Client's Agent in terms of the Occupational Health and Safety Act <i>Refer to Scope of work for level of service required)</i>	1

Any amendment to the list of Key Personnel submitted on Schedule 12 of the Returnable Schedules shall be submitted to the Employer for approval complete with a detailed CV of the person/s.

Where Key Personnel listed in Schedule 12 are promoted, their services on the project may continue but at the rates agreed at the onset of the project, not at the new higher rates. If the Service Provider wishes to replace this person, the process detailed above shall be followed.

Should it become necessary to replace any of the key personnel listed at the time of tender during the course of this contract, they may only be replaced by individuals with similar or better qualifications and experience, who satisfy the minimum requirements and then only with the approval of the Employer.

PROVISION OF PROFESSIONAL SERVICES IN RESPECT OF THE DESIGN AND CONSTRUCTION MONITORING OF PHILIPPI SUBSTATION BUILDING EXTENSION AND ALTERATION WORKS

SCHEDULE 11: SCHEDULE OF WORK EXPERIENCE OF TENDERER

The tenderer is referred to the appropriate clause(s) of the Tender Data and shall indicate on the schedule below all building projects (the analysis and design of new and remedial works) that have been successfully completed in their **local office**, in the past or that are underway at present as described in this schedule. Tenderers should, in particular, draw attention to those projects which have involved electrical substation building, basement/ multi story building as these will be considered of similar Scope and Nature.

Where the entity tendering is a joint venture, the track record of each party to the joint venture must be submitted as part of this schedule (additional pages may be added if necessary). The functionality criteria in respect of track record will, however, be applied to the partner that will undertake the structural design.

TRACK RECORD					
TITLE AND BRIEF DESCRIPTION OF PROJECT	VALUE OF CONTRACT	EMPLOYER (include contact details)	DATE COMPLETED (if applicable)	CIDB Grading of Building Construction Contract	Value of Re-inforce concrete in Building Contract
<u>Building Design and Construction Monitoring consisting of reinforce concrete structures with brick wall infills where the value of construction works ≥ 6GB each</u> <u>1)</u> <u>2)</u> <u>3)</u> <u>4)</u> <u>5)</u> <u>6)</u> <u>7)</u> <u>8)</u> <u>9)</u> <u>10)</u> <u>11)</u> <u>12)</u> <u>13)</u> <u>14)</u>					

SIGNED ON BEHALF OF TENDERER:

PROVISION OF PROFESSIONAL SERVICES IN RESPECT OF THE DESIGN AND CONSTRUCTION MONITORING OF PHILIPPI SUBSTATION BUILDING EXTENSION AND ALTERATION WORKS

SCHEDULE 13: SUPPORT RESOURCES

The tenderer is referred to the appropriate clause(s) of the Tender Data and shall state below what structural analysis software packages are available for use on this project and whether or not they are currently owned/licensed by the tenderer, or are available through other means.

Please Refer to Pricing Assumptions, C2.1 – Tenderers Under this Contract Is Required to have Access to the Following Software Package/s

NAME OF PACKAGE	DESCRIPTION	CURRENTLY OWNED/ LICENCED OR OTHER	PRODUCT / SOFTWARE LICENSE EXPIRY DATE
Substation Earthing Design Software Package			
Microsoft Projects or Equivalent			
<u>Other, e.g. Structural Analysis, Smart sheet, etc.</u>			

SIGNED ON BEHALF OF TENDERER:.....

PROVISION OF PROFESSIONAL SERVICES IN RESPECT OF THE DESIGN AND CONSTRUCTION MONITORING OF PHILIPPI SUBSTATION BUILDING EXTENSION AND ALTERATION WORKS
SCHEDULE 15: FUNCTIONALITY CRITERIA

The Tenderer shall provide all relevant information for the employer to score functionality, as detailed in Schedules 11 and 12 respectively.

The Tenderer's attention is drawn to the appropriate clause(s) in the Tender Data for a more detailed explanation of the functionality criteria given in the table below and how the score will be calculated (with applicable values).

Description of Functionality Criteria		Maximum Points per Criteria		Maximum Possible Score
Track Record - Demonstrated experience of the tendering entity with respect to comparable projects		10		10
Description of Functionality Criteria	Position/ Resource	Maximum Points per Criteria		Maximum Possible Score A+B
		Years' Experience (A)	Number of Projects (B)	
Experience of the key staff in relation to the scope of work	Senior / Lead Structural Engineering (Pr.Eng / PrTech Eng)	5	15	20
	Senior / Lead Civil Engineer (Pr.Eng / PrTech Eng)	5	5	10
	Senior / Lead Electrical Engineer (Pr.Eng / PrTech Eng) (electrical works building services)	5	5	10
	Senior / Lead Project Manager (PM) ECSA, SACAP, SACPCMP or SACQSP	5	5	10
Maximum possible functionality score				60

The minimum qualifying score for functionality is **36** out of a maximum of **60 (60%)**. Tenderers that fail to achieve the minimum score for functionality will be declared as non-responsive.