

FCE 472 GROUPS ASSIGNMENTS: April 2024

1. ASSIGNMENT NUMBER 1

Your company has been invited by the University of Nairobi through the Department of Civil and Construction Engineering to present a BID for carrying out an ENVIRONMENTAL AUDIT OF SCHOOL OF ENGINEERING mainly focusing on:

- Water use, water facilities and management
- Wastes Management
- Facilities (Buildings with special focus on waterproofing facilities , Drainages, Roads within, Parking spaces etc)
- Facilities Maintenance Practice
- Rain Water Harvesting Facilities
- Surface Runoff facilities
- Any Other relevant Services

Your BID is expected to include among others, the following:

- A first page with the Participants details i.e Name and Registration Number
- A second page with details of Individual Tasks for each Participant
- An Executive Summary of not more than TWO pages
- Your Company **One Page** brief showing capability of carrying out the assignment.
- A main report demonstrating your having carried out a preliminary Audit exercise.
- A capture of Minutes of Planning and Working Sessions (Attached as an Appendix)
- Your Quotation of Consultancy fee and Duration for carrying out the work.

NB: Sealed Bid Documents will be handed in on Thursday 2nd May 2024 at 2 pm in CELT.

2. ASSIGNMENT NUMBER 2

Your company has been invited by the University of Nairobi through the Department of Civil and Construction Engineering to present a BID for carrying out an ENVIRONMENTAL AUDIT of ADD BLOCK and environs Mainly focusing on:

- Water use, water facilities and management
- Wastes Management
- Facilities (Buildings with special focus on waterproofing facilities , Drainages, Roads within, Parking spaces etc)
- Facilities Maintenance Practice
- Rain Water Harvesting Facilities
- Surface Runoff facilities
- Any Other relevant Services

Your BID is expected to include among others, the following:

- A first page with the Participants details i.e Name and Registration Number
- A second page with details of Individual Tasks for each Participant
- An Executive Summary of not more than TWO pages
- Your Company **One Page** brief Technical Capability Statement (attached as an Appendix)
- A main report demonstrating your having carried out a preliminary Audit exercise.
- A capture of Minutes of Planning and Working Sessions (Attached as an Appendix)
- Your Quotation of Consultancy fee and Duration for carrying out the work.

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3. ASSIGNMENT NUMBER 3

Your company has been invited by the University of Nairobi through the Department of Civil and Construction Engineering to present a BID for carrying out an ENVIRONMENTAL AUDIT CHIROMO CAMPUS AND ENVIRONS Mainly focusing on:

- Water use, water facilities and management
- Wastes Management
- Facilities (Buildings with special focus on waterproofing facilities , Drainages, Roads within, Parking spaces etc)
- Facilities Maintenance Practice
- Rain Water Harvesting Facilities
- Surface Runoff facilities
- Any Other relevant Services

Your BID is expected to include among others, the following:

- A first page with the Participants details i.e Name and Registration Number
- A second page with details of Individual Tasks for each Participant
- An Executive Summary of not more than TWO pages
- Your Company **One page** brief Technical Capability Statement (attached as an Appendix)
- A main report demonstrating your having carried out a preliminary Audit exercise.
- A capture of Minutes of Planning and Working Sessions (Attached as an Appendix)
- Your Quotation of Consultancy fee and Duration for carrying out the work.

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4. ASSIGNMENT NUMBER 4

A Labour Only contract has been awarded to **UNIQUE GENERAL CONTRACTORS** by the UNIVERSITY OF NAIROBI to build a 400m perimeter Two meter high Masonry Wall with inbuilt masonry piers spaced at three meters Centre to Centre for providing wall rigidity.

In addition, the contract includes Two gates:

The Main gate is to replace the existing gate at the current Mamlaka Road entrance. That main gate will look exactly (in size and all) like the gate right outside Civil Block and bordering Central Police compound with the Soldiers cubicle and changing room.

The Second gate, at the Statehouse Exit / Entry to ADD will mostly be closed to Vehicle Traffic but will act as an Emergency Vehicle Exit. The pedestrian opening will function as normal and will include only a space to provide shelter and worktop for the Security officer manning it.

Your company has been Short Listed to present Bidding Documents for the Role of **PROJECT MANAGER** for the Project construction.

Bid Documents expected from you include the following:

- Executive Summary
- Method Statement
- Clear description of the Works
- Safety Measures to be put in place at all times during the construction period
- Site Establishment details
- Site Organisation details
- An Executives Bar Chart as a Planning tool for the Client.

Also include in the report the following:

- A first page with the Participants details i.e Name and Registration Number
- A second page with details of Individual Tasks for each Participant
- An Executive Summary of not more than TWO pages
- Your Company **One Page** Technical Capability Statement (attached as an Appendix)
- A capture of Minutes of Planning and Working Sessions (Attached as an Appendix)
- Your Quotation of Consultancy fee and Duration for carrying out the work.

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5. ASSIGNMENT NUMBER 5

Due to the rapid growth of student population at the University of Nairobi is currently going through, there is a plan to put up a FIFTEEN floor Twin State of the Art Building blocks near the Prefabs Hostel place along Mamlaka Road. The new buildings will be used as Male Students hostels blocks. The prefabs will remain in place to meet the accommodation needs for students until the new facility is finished and finalized upon. It is after the completion of the new building that the prefabs will be demolished and the grounds upon which they stand will be rehabilitated to create recreation gardens for use by the University Staff and students.

The FIFTEEN Floor high building blocks will have one level of basement parking spaces which will serve as a well managed GYM facility and it will also have a canteen that will serve the students. The other floors will serve as Hostels . All necessary Approvals for the construction of the Proposed project have been granted by all relevant approving Authorities.

Because of the specific site location, there is need to plan well for Equipment and Plant likely to be used in construction activities. The location of the project is sensitive as it is expected that all other university activities will continue with minimum interruption for the duration of the construction.

Your Company, having been Shortlisted as experts in Construction Equipment and Plant Management have been invited to Bid for the role of **Expert Construction Plant Management Consultant** for the planned construction works.

Your BID document should include :

A well structured report showing the following;

- Your understanding of the different types of plant and equipment and the reason for choosing one amongst many different types.
- Their productivity and maintenance requirements and maintenance plans.
- Safety measures associated with Plant and Equipment

Also include in the report the following:

- A first page with the Participants details i.e Name and Registration Number
- A second page with details of Individual Tasks for each Participant
- An Executive Summary of not more than TWO pages
- Your Company **One page** brief Technical Capability Statement (attached as an Appendix)
- A capture of Minutes of Planning and Working Sessions (Attached as an Appendix)
- Your Quotation of Consultancy fee and Duration for carrying out the work.

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6. ASSIGNMENT NUMBER 6

An emergency housing project for National Security staff has been approved by the County Government for County Q which is bordering a neighbouring Country. The project is to be located in a remote place. The in-house workers will be accommodated in tents within the expansive site during construction.

The Project comprises of:

- Construction of 100 One bedroomed housing Prefab housing units (precast lightweight but strong concrete walling panels which will be anchored to Steel frames prepared at the headquarters workshop)
- A perimeter fence, also in Prefabs, and Main Gate in Steel and a back end *not too obvious* safe exit gate.
- A raised Steel frame tower on concrete pad foundations to support two number 3cubic meters Plastic Water tanks
- A Septic Tank system as there is no sewer line.
- A Facilities Management office Block which will have a large basement which will have an armory

There will be no Contractor engaged on this project because of the security sensitivity of the project. The relevant Government Department will engage different in-house labour for the different stages of the works till completion.

Your **HEALTH AND SAFETY** company has been shortlisted to present a BID for Consultancy to prepare a **Health and Safety Practice Guide** for use during the construction and also during Operation and Maintenance of the facility.

Your BID document should include :

A well-structured report showing the following;

- An Organisation Structure that will function for the proposed works
- Your understanding of hazards in construction
- Policy guidelines on Health and safety
- Health and safety check lists for all likely hazards for this site.

Also include in the report the following:

- A first page with the Participants details i.e Name and Registration Number
- A second page with details of Individual Tasks for each Participant
- An Executive Summary of not more than TWO pages
- Your Company **One page** brief Technical Capability Statement (attached as an Appendix)
- A capture of Minutes of Planning and Working Sessions (Attached as an Appendix)
- Your Quotation of Consultancy fee and Duration for carrying out the work.

NB: Sealed Bid Documents will be handed in on Thursday 2nd May 2024 at 2 pm in CELT.

