**Alfa Belgore Hall Rehabilitation Project**

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Mechanical Engineering

The Engineer in Society

**SCOPE OF WORK FOR RENOVATING THE INTERIOR AND EXTERIOR FOR ALFA BELGORE HALL AFE BABALOLA UNIVESITY (ABUAD)**

**Description of Services:** ABUAD has a requirement to renovate interior/exterior of the Alfa belgore hall. The works shall be done as per scope of work, specifications and General contract conditions. This project requires an experienced registered contractor to design and execute the job. The Contractor shall provide all labor, material tools, equipment, supervision and other related items required to complete the project as per scope of work and specifications. Contractors are advised to visit the site, verify the existing site conditions to develop their proposal.

**Alfa Belgore Hall**

* All Air condition system and furniture in the hall should be removed.
* Demolition of East wing floors, walls, ceiling, windows.
* Demolition of auditorium stage.
* New electrical circuitry in East wing.
* New carpet flooring in East wing exist with terrazzo flooring in remaining areas.
* New windows in East wing. Demo and block wall in two upper windows in Auditorium.
* New interior doors in East wing.
* New acoustical ceiling in new East wing rooms and auditorium.
* Existing male and female restrooms to be painted, new toilet partitions, new mirrors, patched drywall, new toilet accessories, new exhaust fans.
* Auditorium to have new air condition and new acoustical ceiling with new lighting package. New double door with window from courtyard into Auditorium.
* Storage rooms for equipment to be patched and repaired with new painting, flooring and ceiling.
* Exterior walls should be filled with fillers, and should be painted after.

NOTE: ALL THE DIMENSIONS WILL BE TAKEN AND AGREED UPON SITE

**GRANTT CHART**

**PROJECT TEAM**

LEAD CONSULTANT: The lead consultant is the consultant that directs the work of the consultant team and is the main point of contact for communication between the client and the consultant team.

ARCHITECT: The Architect develops the building’s design, taking the Client’s brief and combining it with the advice of the Specialist Consultants. This then has to be developed to meet the requirements of the Building Regulations and increasingly sustainability.

ENGINEERS: Working with the architect will be a number of engineers that are responsible for structural, mechanical and electrical design. The Structural Engineer is a key member of the Project Team. Structural Engineers design the skeleton or structure of the building, enabling Architects to focus their talents on creating a design that satisfies their client’s demands.

CONTRACTOR: The Contractor oversees and manages the construction of the building for the Client, following the Architect and Engineers designs. The work is delivered under a contractual agreement.

LABORERS: They are expected to do the majority of the heavy lifting in the course of the project completion.

**REASONS WHY CONSTRUCTION SITES ARE SECURED**

* To prevents the dust from construction site from entering into the adjoining spaces and atmosphere.
* To prevents the accidental fall of debris / pieces to fall on the people who may be standing underneath or might be passing from the nearby walk ways.
* So the project can be hidden from curious onlookers till the building is completed giving a pleasant experience once the building is completed.
* Green nets are used so wind dashing directed on the workers is avoided and also rapid drying of concrete is avoided by shaded nets.

**BILL OF ENGINEERING MEASUREMENT AND EVALUATION (BEME) FOR THE REHABILITATION OF ALFA BELGORE HALL**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S/N** | **TASKS** | **SUB-TASK** | **PERCENTAGE**  **TEC** | **AMOUNT** |
| 1 | Consultancy fee | Chief consultant | 15% | 15,000,000 |
| Other Consultants |
| 2 | Site preparation and clearing after construction | interlocking | 5% | 5,000,000 |
| Fencing |
| Felling of trees and removal of obstacles |
| Sweeping and cleaning |
| 3 | Transport Costs | Movement of equipment | 12% | 12,000,000 |
| Movement of workers |
| 4 | profit |  | 20% | 20,000,000 |
| 5 | Miscellaneous | Small payments | 10% | 10,000,000 |
| Workers feeding |
| Accommodation |
| 6 | Other expenses | Inspection | 38% | 38,000,000 |
| Workers’ wages |
| Insurance |
|  | Total | 100,000,000 |

**PAYMENT SCHEDULE FOR THE PROJECT**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| S/N | Work Description | Percentage TEC required | Time Payment Is Due | Amount |
| 1 | Mobilization: Down payments of wages, importation of materials and machines | 30% | On commencement of project | 30,000,000 |
| 2 | Second payment: procurement of materials, payment of workers, miscellaneous costs and other expenses | 30% | After 50% completion of project. | 30,000,000 |
| 3 | Final payments: Completion of wages, profits, consultancy fees. | 40% | Completion and Handover | 40,000,000 |

**Definition of Terms**

**BEME**

Bill of Engineering Measurement and Evaluation (BEME) also referred to as 'Bill'; is a tool used before, during and post-construction to assess and value the cost of construction works.

**DEFECT LIABILITY PERIOD**

A defects liability period is a period of time following practical completion during which a contractor remains liable under the building contract for dealing with any defects which become apparent. A defects liability period is usually a period of around six or 12 months but it can vary depending on the contract used. Any defects or faults which arise during this period (for example - due to defective materials or workmanship) must be put right by the contractor at its own expense.

**LEAD CONSULTANT**: The lead consultant is the consultant that directs the work of the consultant team and is the main point of contact for communication between the client and the consultant team.

**PROJECT LIFE CYCLE**

This is process of planning, designing, financing, constructing and operating physical facilities related to a project under consideration, gaining different viewpoints on the project management for construction.

**ENVIRONMENTAL IMPACT ASSESSMENT (EIA)**

Environmental Impact Assessment (EIA) is a process to assess the environmental consequences of any project and design proper mitigation plans to minimize the possible adverse impacts. It is basically a way of identifying the future consequences of a current or proposed action