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**ALPHA BEGORE REHABILITATION WORKS AT AFE BABALOLA UNIVERSITY, ADO EKITI**

AfAfe Babalola University Ado-Ekiti has required to renovate the Alfa Belgore hall on its campus. The work shall be done in accordance with the scope of work, specification and general contract conditions. The project requires an experienced registered contractor to redesign and execute the job. So the project shall commence on the 31st of January, 2020. The procedure of the rehabilitation would be done in stages and the following staged are stated and explained below;

THE CLEARING

At this stage which is the first stage the building would be evacuated for work to beginning on.

The building would be cleared and all the furniture would be taken out and moved to a secured and safe place. Facilities would also be removed and safely stored in the ware house till after the project. Businesses which where there or close (e.g. ICT centre and bookshop) would be located to another site temporarily, so they can continue to carry out their activities while their permanent site would still be under construction.

The clearing stage is estimated to be completed in 21days (3 weeks).

SECURING THE SITE

At this stage after evacuation and removal of furniture and other important facilities and vacation of other businesses around that premises, the stage would be commenced immediately.

At this stage a barrier made of roofing sheets would be used to secure the site. This is necessary so as to ensure no one would be able to enter and leave the site at will. The only set of people with access to the site would be authorised personnel, official personnel, workers and official members of the school board (owners of the project) to inspect. This would restrict access to the site for students and those who are not mentioned above. This would be in order to prevent unnecessary accidents and limit to movement on site and also secure the equipments used on site as no one would be allowed access once the gate is locked and work for the day has finished.

It would take an estimated number of 2 weeks to complete.

REMODELLING Works

This is when the main work begins; we will start by removing the roof of the building. After that we will then beginning other re modelling work on the building. The main aim for this work is to expand the building so it can accommodate more people for social events, programs and other activities the schools comes up with. At the end of the project, the building is going to have more space, more facilities and more modern day touch in other to represent they school name better.

The estimated duration of this stage is 2-3 months (6-8 weeks).

Clean up

This is the final stage of the project, where all the materials, the tools, equipments used and the heavy duty machines would be returned. The roofing sheets would also be cleared and also the left over material. So that the place would be okay and ready for use and if the need be; to be re-commissioned.

The operation would take an estimated amount of 4-5 weeks.

**GNATT CHART**

**HUMAN RESOURCES NEEDED AND THE PROJECT TEAM**

For the project to be successful and to be accomplished within the time given, a workforce of 30-40 men would be needed for the whole project if the project is to follow the estimated time given to it which is approximately 126 days to complete.

The project team would consist of following professional members;

1. Quantity surveyors who will ensure that all the materials used for the project are of good quality and can used and also to ensure that the materials are in good shape.
2. An electrical engineering that will ensure that all the electrical connections are correct and the electrical are installed correctly.
3. An Architect who will design the new structure.
4. A Structural Engineer that will ensure that the new structure can hold and can live up to its expectation.
5. Water works engineer who will ensure that the water facilities are in good order, especially in the toilet.
6. The will also be a group of consultants who will advice the best way that the project will move. The Lead Consultants will be Engr Pro Wara Samuel.

**REASON WHY THE HAS TO BE SECURED**

The site would be secured with roofing sheets and the only entrance would have chains and padlock when the work for the day is over.

This to limit the number of people to have access to the site during working hours, so as to avoid accidents during work hours. So it would only be workers and officials on the site during working hours. After working hours the gate would be closed, so as to avoid anyone to be able to enter and steal any material from the site.

So generally the site is secured to avoid accident due to ignorance and theft.

BILL OF ENGINEERING MEASUREMENT AND EVALUATION (BEME)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ITEM NO | DESCRIPTON | QUANTITY |  UNIT COST  |  TOTAL COST  |
| 1 | Roofing sheet | 200 |  ₦ 1,400.00  |  ₦ 280,000.00  |
| 2 | cement bags  | 2500 |  ₦ 170,000.00  |  ₦ 425,000,000.00  |
| 3 | Trucks of gravel | 12 |  ₦ 35,000.00  |  ₦ 420,000.00  |
| 4 | Trucks of sand  | 13 |  ₦ 45,000.00  |  ₦ 585,000.00  |
| 5 | Glass which will be brought as 12x12 | 10 |  ₦ 60,000.00  |  ₦ 600,000.00  |
| 6 | Light bulbs fittings | 40 |  ₦ 8,000.00  |  ₦ 320,000.00  |
| 7 | Light bulbs | 20 |  ₦ 2,500.00  |  ₦ 50,000.00  |
| 8 | Copper wires | 60 |  ₦ 2,000.00  |  ₦ 120,000.00  |
| 9 | Projector | 4 |  ₦ 150,000.00  |  ₦ 600,000.00  |
| 10 | T.V | 4 |  ₦ 100,000.00  |  ₦ 400,000.00  |
| 11 | Pipes of different sizes | 46 |  ₦ 75,000.00  |  ₦ 3,450,000.00  |
| 12 | Window  | 15 |  ₦ 450,000.00  |  ₦ 6,750,000.00  |
| 13 | CCTV cameras for security | 12 |  ₦ 25,000.00  |  ₦ 300,000.00  |
| 14 | CCTV system | 8 |  ₦ 50,000.00  |  ₦ 400,000.00  |
| 15 | Total estimated cost |  ₦ 439,275,000.00  |
| 16 | Miscellaneous (10%) |  ₦ 43,927,500.00  |
| 17 | Consultancy Fee (15%) |  ₦ 65,981,250.00  |
| 18 | Site preparations and clearing after completion (5%) |  ₦ 21,993,750.00  |
| 19 | Transportation (12%) |  ₦ 52,785,000.00  |
| 20 | Profit (20%) |  ₦ 87,975,000.00  |

**PAYMENT SCHEDULE**

* 30% of Total Estimated cost for Mobilisation
* 30 % of Total Estimated cost
* 50% of Total Estimated cost for completion
* Finally payment of 40% of Total Estimated cost at completion and hand over
* Retain 10% of Total Estimated cost for a 6 months defect liability period.

Bill of Engineering Measurement and Evaluation (BEME)

This is referred to as ‘bill’ is a tool used before, during and after construction to assess the value and cost of construction works. This includes cost of material, labor, equipment and all/any other resource(s) required for the success of any construction endeavor based on a pre-determined scope and specification

Defect Liability Period

The defects liability period (or 'DLP') is a fixed period of time, starting from the date of practical completion, during which the contractor has an express contractual right to return to the site to rectify defects.

Lead Consultant

The [lead consultant](https://www.designingbuildings.co.uk/wiki/Lead_consultant%22%20%5Co%20%22Lead%20consultant) is the [consultant](https://www.designingbuildings.co.uk/wiki/Consultants%22%20%5Co%20%22Consultants) that directs the [work](https://www.designingbuildings.co.uk/wiki/Works%22%20%5Co%20%22Works) of the [consultant team](https://www.designingbuildings.co.uk/wiki/Consultant_team%22%20%5Co%20%22Consultant%20team) and is the main [point](https://www.designingbuildings.co.uk/wiki/Points%22%20%5Co%20%22Points) of contact for communication between the [client](https://www.designingbuildings.co.uk/wiki/Clients%22%20%5Co%20%22Clients) and the [consultant team](https://www.designingbuildings.co.uk/wiki/Consultant_team%22%20%5Co%20%22Consultant%20team), except for on significant [design](https://www.designingbuildings.co.uk/wiki/Design%22%20%5Co%20%22Design) issues where the [lead designer](https://www.designingbuildings.co.uk/wiki/Lead_designer%22%20%5Co%20%22Lead%20designer) may become the main [point](https://www.designingbuildings.co.uk/wiki/Points%22%20%5Co%20%22Points) of contact.

Project Life Cycle

A project life cycle is the sequence of phases that a project goes through from its initiation to its closure. The number and sequence of the cycle are determined by the management and various other factors like needs of the organization involved in the project, the nature of the project, and its area of application. The phases have a definite start, end, and control point and are constrained by time. The project lifecycle can be defined and modified as per the needs and aspects of the organization. Even though every project has a definite start and end, the particular objectives, deliverables, and activities vary widely. The lifecycle provides the basic foundation of the actions that has to be performed in the project, irrespective of the specific work involved. Project life cycles can range from predictive or plan-driven approaches to adaptive or change- driven approaches. In a predictive life cycle, the specifics are defined at the start of the project, and any alterations to scope are carefully addressed. In an adaptive life cycle, the product is developed over multiple iterations, and detailed scope is defined for iteration only as the iteration begins

Environment Impact Assessment (EIA)

The term "environmental impact assessment" (EIA) is usually used when applied to actual projects by individuals or companies and the term "[strategic environmental assessment](https://en.wikipedia.org/wiki/Strategic_environmental_assessment%22%20%5Co%20%22Strategic%20environmental%20assessment)" (SEA) applies to policies, plans and programmes most often proposed by organs of state .It is a tool of environmental management forming a part of project approval and decision-making. Environmental assessments may be governed by rules of [administrative procedure](https://en.wikipedia.org/wiki/Administrative_law%22%20%5Co%20%22Administrative%20law) regarding public participation and documentation of decision making, and may be subject to judicial review.

UNEP defines Environmental Impact Assessment (EIA) as a tool used to identify the environmental, social and economic impacts of a project prior to decision-making. It aims to predict environmental impacts at an early stage in project planning and design, find ways and means to reduce adverse impacts, shape projects to suit the local environment and present the predictions and options to decision-makers. By using EIA both environmental and economic benefits can be achieved, such as reduced cost and time of project implementation and design, avoided treatment/clean-up costs and impacts of laws and regulations