**Name**: Ogundipe Oluwamayowa Omotayo

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**Course Code:** ENG 284

**Course Name:** Engineer in society

**Alfa Belgore Hall Rehabilitation Project.**

**Outline the scope of work in details in order of occurrence?**

**Project scope statement**

Tear down existing structure and rebuild with certain alterations and additions to the original design to accomplish the following objectives.

* Increase carrying capacity of the hall
* Ensure the building operates at maximum efficiency
* To improve existing facilities and introduce new ones

**Introduction/background to project**

* Aare-Afe Babalola requested quick renovation of the Alfa- Belgore hall situated in the campus of Afe Babalola university Ado-Ekiti during the time (6 months)
* After proper review
* The project was allocated 7 months for completion
* The project would entail the removal of the roofing objects and support barns
* The project would also involve rebuilding the structure but with the addition of a gallery to the new structure.

**Business case**

The project is undertaken to improve the carrying capacity of the Alfa-Belgore hall

The business benefits include

* When hosting events such as convocation or matriculation on the hall in properly able to contain more people which will encourage more parents to be in attendance.
* New facilities for the ICT department located in the hall will greatly improve the school online infrastructure.
* The new and improved hall would better improve the atmosphere of the campus in general.

**Deliverables**

The outcome of the project

* Introduction of gallery floor in the building
* Refitting and improvement in toilet facilities
* Storage setup is refurbished with conduit wiring and works seamlessly with technical stations
* Improve lighting throughout the elite structure
* ICT area is also improved with new furniture and better wiring.

Also those are to be present on completion of project.

**Human resources needed for the project.**

* Engineering consultants
* Civil engineers
* Mechanical engineers
* Electrical & electronics engineers
* Water and waste water engineers
* Technicians
* Carpenters
* Laborers (construction worker and plumber E.T.C)

**Main Project team and their designations.**

Engineering consultants: the team constitute of three consultants, an engineering professor (lead consultant), and two engineering doctors.

Mechanical engineers: two mechanical engineering serve as project sub managers, supervising the rest of the engineers in hands on project work ad achievement of project objectives

Civil engineers: there are four civil engineers enlisted for the project implementation. These four engineers have one of them as the civil leader, and they supervise the labors and artisans in project

Electrical and electronics engineering: their task is to design hgh voltage equipment such as wiring systems, lighting systems, and generators.

**Why was the site secured?**

In order to reduce theft in the construction site, anybody without authorization cannot just walk in to the site and steal any valuable items or tools if the site is we secured. And to also avoid accidents when construction is ongoing. **These are ways to keep construction site secured:**

* Keep areas lit
* Install cameras and alarms
* Keep intruders
* The site should be well fenced
* Store valuables in shipping containers

**What is BEME?**

This is (bill of engineering measurement and evaluation) also referred to as “bill”, is a tool used before, during and post-construction to assess and value the cost of construction works. This includes the cost of materials, labor, equipment and all/any other resources required for the success.

**What is defect liability period?**

This 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 defect liability period is usually a period of around 6 or 12 months but it can vary depending on contract used.

**What is lead consultant?**

This 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, except for on significant design issues where the lead designer may become the main point of contact.

**What is Project life cycle?**

This refers to the four-step process that is followed by nearly all project managers when moving through stages of project completion. This is the standard project life cycle most people are familiar with. The project life cycle provide a framework for managing and type of project within a business.

**What is Environmental impact assessment (EIA)?**

 This is defined as an activity designed to identify the impact on the bio-geophysical environment of man wellbeing of legislative proposal projects, products and operational procedures and to interpret and communicate information

EIA is basically a systematic process of identifying the future consequences of current or proposal action.