**NAME: Adjugah Uvietobore Joshua.**

**MATRIC NO: 18/ENG05 /007**

**DEPARTMENT: MECHATRONICS ENGINEERING.**

**COURSE CODE: ENG 284.**

 **COURSE: ENGINEER IN SOCIETY.**

**1.) Scope of work:**

20th January 2020

Renovation of Alfa Belgore

 This project is under the civil engineers, it is necessary for the engineers to be civil engineers because it is their area of expertise so they have more knowledge about this situation, this project is being carried out to improve the quality of the Alfa Belgore hall, this is an opportunity to make the building much more spacious than it was before and to beautify the building and its environment to make students to be more attracted to the building and much more comfortable.

**2.)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| RESEARCH |  |  |  |  |  |
| PHASE 1 WORK EFFORT |  |  |  |  |  |
| PHASE 2 WORK EFFORT |  |  |  |  |  |
| PHASE 3 WORK EFFORT |  |  |  |  |  |
| TESTING PHASE |  |  |  |  |  |
|  | JAN | FEB | MAR | APR | MAY |

**3.) HUMAN RESOURCES:**

Must have up to 3 years experience with electrical works.

Must have minimum 4 years experience in refurbishing.

Must have up to 3 years experience with plumbing.

Project Team

1.) Client.

2.) Consultant.

3.) Architect (Engineer).

4.) Contractor.

5.) Subcontractor.

6.) Environmental Engineer. The client is the lead consultant.

**4.)** To prevent unnecessary injuries to different persons. In order to reduce the risk to the construction site you need to increase the risk to the potential criminal. ... Deterrence – there are many ways to deter a criminal. Whereas an open, unprotected site looks welcoming to a potential criminal, a site with fences, locks, CCTV and security guards will discourage them.

**5.) BEME**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ITEM | DESCRIPTION  | QUANTITY  | UNIT | RATE $ | AMOUNT  |
| 1 | Cement  | 200 | Bags | 90000 | 90000 |
| 2 | Sand | 5 | Tons | 50000 | 50000 |
| 3 | Water | 300  | Gallons | 25000 | 25000 |
| 4 | Cables  | 100 | Meters | 78000 | 78000 |
| 5 | Pipes | 75 |  | 5000 | 5000 |
| 6 | Consultancy fee |  |  | 250000 | 250000 |
| 7  | Transportation  |  |  | 100000 | 100000 |
| 8 | Site preparation and clearing  |  |  | 50000 | 50000 |
| 9 | Profit |  |  | 200000 | 200000 |
|  | Total |  |  | 848000 | 848000 |

**6.)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| S/N | DESCRIPTION  | SCHEDULE DATE | PERCENTAGE OF TEC (%) | AMOUNT  | PAYMENT DATE |
| 1 | Mobilization  | 30/02/2020 | 30 | 6 000 000 | 14/01/2020 |
| 2 | 50% completion  | 16/03/2020 | 30 | 6 000 000 | 17/03/2020 |
| 3 | Completion and handover  | 29/05/2020 | 30 | 6 000 000 | 29/05/2020 |
| 4 | Defect liability period  | 12/10/2034 | 10 | 2 000 000 | 12/10/2020 |

7.) **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. This includes the cost of materials, labor, equipment and all/any other resource(s) required for the success of.

**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.

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

PROJECT LIFE CYCLE: The Project Life Cycle 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 provides a framework for managing any type of project within a business.

ENVUROMENTAL IMPACT ASSESSMENT (EIA): Environmental assessment is the assessment of the environmental consequences of a plan, policy, program, or actual projects prior to the decision to move forward with the proposed action.