**NAME: ELEGBE CALEB OSIGBODI**

**MATRIC NO: 18/ENG02/038**

**DEPARTMENT: COMPUTER ENGINEERING**

**COURSE CODE: ENG 284**

**1.) Scope of work:**

*7th March 2020*

**Renovation of Alfa Belgore**

 This project is under the works of a civil engineer, it is expedient for the engineers on site to be civil engineers because it’s their area of expertise so they have more knowledge about this project, this project is being carried out to improve the quality and space 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 when inside.

**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 4 years’ experience with electrical works.

Must have minimum 5 years’ experience in renovating.

Must have up to 3 years’ experience with plumbing.

**Project Team**

1.) Client (LEAD CONSULTANT).

2.) Consultant.

3.) Architect (Engineer).

4.) Contractor.

5.) Subcontractor.

6.) Environmental Engineer.

**4.)** To prevent unnecessary injuries to different persons, safety measures should be put in place to help reduce the rate of accidents, e.g: Everyone on the site must be in the correct uniform and wearing their safety equipment’s at all times (helmets, gloves, etc.). In order to reduce the risk of theft on the construction site, we need to implement way to deter future offenders, for example: fencing the whole site, applying locks to the entrance of the site, CCTV and security guards would be place to watch over the site.

**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**  | **10/10/2023** | **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 any construction endeavor based on a pre-determined scope and specification.

**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.

**ENVIROMENTAL 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.