**NAME: Elikwu Emmanuel.**

**MATRIC NO: 18/ENG06/021.**

**DEPARTMENT: MECHANICAL ENGINEERING.**

**COURSE CODE: ENG 284.**

 **COURSE: ENGINEER IN SOCIETY.**

**1.) Scope of work:**

Date : 2nd 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.(civil engineer).

5.) Subcontractor ( mechanical engineer, electrical, painter, carpenter).

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

**4.)** Safety ( health and safety engineer ) must be around to ensure safety measures are put in place to minimize hazardous occurrence to the workers and the site in general also proper fencing and security should be put in place in other to checkmate thieves and non workers accessing the site.

**5.) BEME**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ITEM | DESCRIPTION  | QUANTITY  | UNIT | RATE $ | AMOUNT  |
| 1 | Cement  | 300 | Bags | 70000 | 70000 |
| 2 | Sand | 6 | Tons | 40000 | 40000 |
| 3 | Water | 450 | Gallons | 30000 | 30000 |
| 4 | Cables  | 200 | Meters | 80000 | 80000 |
| 5 | Pipes | 80 | Meters | 6000 | 6000 |
| 6 | Consultancy fee |  | Naira | 350000 | 350000 |
| 7  | Transportation  |  |  | 100000 | 100000 |
| 8 | Site preparation and clearing  |  |  | 50000 | 50000 |
| 9 | Profit |  |  | 200000 | 200000 |
|  | Total |  |  | 926000 | 926000 |

**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  | 12/10/2020 | 10 | 2 000 000 | 12/10/2020 |

7.) **BEME:**

 A BEME review: definition and description. ... A BEME review is a description and evaluation of evidence pertinent to a clearly formulated topic/question that uses explicit scientific methodologies and methods to systematically identify, assemble, critically analyse and synthesise information relevant to the review topic.

**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.

During the defects liability period, typically:

the contractor has the right to return to the site to rectify defects or complete unfinished work;

the principal is entitled to continue holding security, to secure the contractor’s obligations in respect of incomplete or defective work; and

the superintendent continues to remain involved in the project.

Under some contracts, if the contractor rectifies a defect during the defects liability period, there will be a new defects liability period in respect of that rectification work.

**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.