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**MATRIC NO: 18/ENG02/025**

**DEPARTMENT: COMPUTER ENGINEERING**

**COURSE TITLE: ENGINEERING IN THE SOCIETY.**

**COURSE CODE: ENG 284.**

**DATE: 15TH APRIL, 2020.**

ALPHA BELGORE REHABILITATION PROJECT

* P**roject overview:** This is a multipurpose hall designed to have about 2000 sitters with two bathrooms and two offices. Due to the continuous increase of the school’s population, this hall is unable to contain the students plus their parents it has brought to many inconveniences during the matriculation and convocation ceremonies.

As a result, the school board of administration decided to increase the buildings height, size and width so as to ensure optimal comfortability of the students and their parents.

* **Project scope:** This project includes the renovation of the Alpha Belgore multipurpose hall located opposite the college of engineering and beside the girls hostel. it was founded by the committee as a stand-alone project. The project consists essentially of refreshing the indoor spaces including:
* The redevelopment of storage area
* The creation of a larger sanitary.
* Replacement of the coatings on the floors, walls and ceilings
* The creation of a new bar space in the entrance area
* The addition of another floor making it a duplex.
* Lastly, particular care has also been taken in the treatment of acoustics.

LOCATION: Afe Babalola University opposite engineering college

YEAR: 2020

CATEGORY: Modern- multipurpose

* **Project schedule:** The duration for this project without any circumstances is 6months or longer.

**HUMAN RESOURCES**

**The team**

* The client (the lead consultant)
* Contract administrator
* Consultant
* Architect
* Consultant
* Subcontractor
* Builders
* Electricians
* Plumbers.

Every person listed above according to their area of expertise must have a minimum of 4 years’ experience in refurbishing and a 2-year experience with plumbing and 3years of electrical works.

**REASONS WHY THE CITE IS SECURED.**

This cite is secured so as to prevent people from using the construction site to access other buildings and theft of the building material. Also, because of the constant state of change of the site, risks can also change quickly, and therefore it vital to regularly re-access the risk and threats to the site. This is to prevent injuries to different students as it is a school construction site and it’s a place where student usually use.

**BEME**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S/N** | **ITEM** | **QUANTITY** | **UNIT** | **RATE(s)** | **AMOUNT** |
| 1 | Cement | 35 | Bags | 7500 | 7500 |
| 2 | Gravel | 3 | Tons | 9000 | 9000 |
| 3 | Pipes | 40 |  | 4000 | 4000 |
| 4 | Cables | 40 | Yards | 4000 | 4000 |
| 5 | Sand | 3 | Tons | 7500 | 7500 |
| 6 | Wood | 45 | Planks | 5000 | 5000 |
| 7 | Consultancy fee |  |  | 1000000 | 1000000 |
| 8 | Transportation |  |  | 190000 | 190000 |
| 9 | Site preparation and clearing |  |  | 750000 | 750000 |
| 10 | Profit |  |  | 600000 | 600000 |
|  | Total |  |  | 2577000 | 2577000 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S/N** | **DESCRIPTION** | **SCHEDULE**  **DATE** | **PERCENTAGE OF TEC(%)** | **AMOUNT** | **PAYMENT**  **DATE** |
| 1 | Mobilization | 28/12/2019 | 30 | 300000 | 3/01/2020 |
| 2 | 50% Completion | 4/03/2020 | 30 | 300000 | 25/05/2020 |
| 3 | Completion and handover | 5/06/2020 | 30 | 300000 | 10/06/2020 |
| 4 | Defect liability period | 12/09/2021 | 10 | 100000 | 25/10/2021 |

**DEFINITIONS**

* **B.E.M.E:** The Bill of Engineering Measurement and Evaluation (B.E.M.E) also known as bill is used in providing sufficient information during a construction planning, for tendering and contracting purposes of for the purpose of knowing the estimated cost of the proposed project (if the estimated cost is greater than the available funds to execute the project then attempts are made to reduce the estimated cost by reviewing the scope and /or specification.
* **DEFECT LIABILITY PERIOD:** A defect liability period also known as the rectification period is a period of time following the 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 around 6 to 12months but it can vary depending on the contract used. During this period, the clients reports any defect that arise to the contract administrator who decides whether they are defects or just maintenance issues.
* **THE LEAD CONSULTANT:** The lead consultant is responsible for advising, providing leadership and coordination, monitoring and reviewing, managing change, reporting and liaison. His central role is the management of the relationship between individual design discipline as well as those between the design.
* **PROJECT LIFECYCLE:** Every construction project has a lifecycle which can be compared to the biological lifecycle which can be compared to the biological lifecycle where activities begin gradually and build rapidly as the project commences to the final deliverables. When the project reaches its final days, activities taper off and slow down.
* **ENVIRONMENTAL IMPACT SOCIETY(EIA):** This is a process that evaluates the likely environmental impacts of a proposed projector development, taking into account inter-related socio-economic, cultural and human-health impacts, both beneficial and adverse. The purpose of the EIA process is to inform decision makers and the public of the environmental consequences of implementing a proposed project.