

**UMAR SHAMWEEL**

**MAKUN**

**BIOMEDICAL**

**ENGINEERING**

**18/ENG08/024**

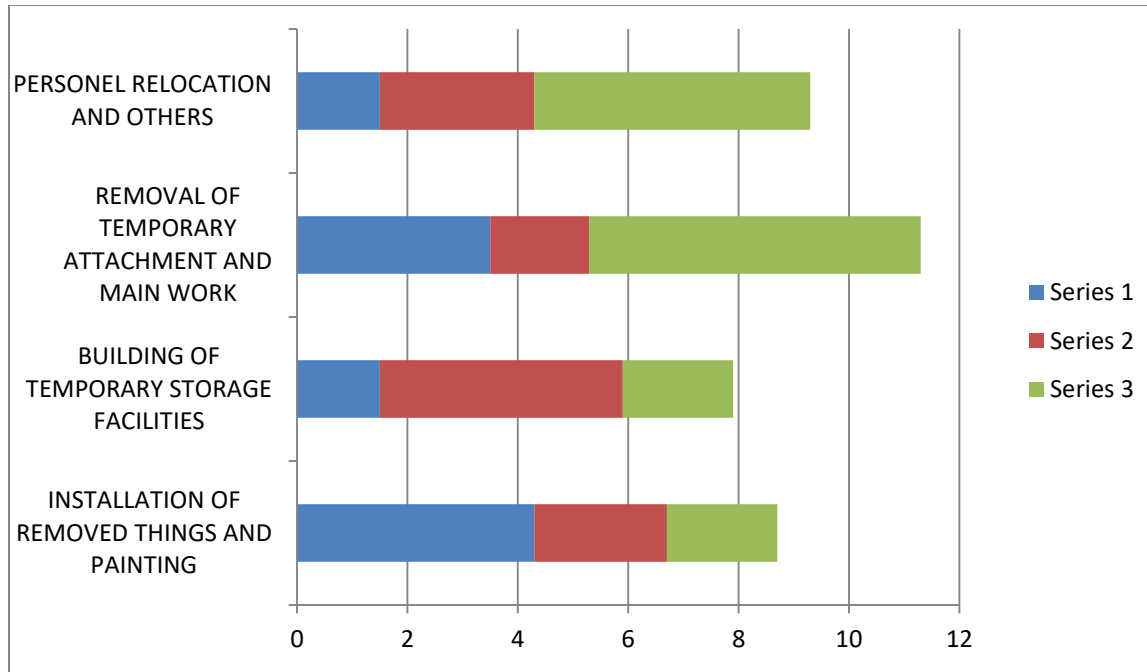
**ENG 284**

**Alfa Belgore HALL Rehabilitation project . As an Engineer CONSULTING STUDENT. The project is under civil engineers, because it is what they studied so they have more knowledge about IT, this project is being done to improve the building TO THE DESIRED STANDARD, this is an opportunity to make the building much more spacious and to REINFORCE the building and It will be more comfortable .**

**1. Outline the Scope of work in detail.**

- **personnel relocation**
- **building evacuation**
  - **Site securing**
  - **Removal of all temporary attachment eg roofing, windows doors etc.**
  - **storage house building and proximity to water supply**
- **real work kicks off**
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- **Installation of all temporary attachment**
- **Plastering**
- **repainting and cleaning of the building**

**2. Gant Chart.**



### 3.) HUMAN RESOURCES;

- **Plumber**
- **Electrician**
- **Carpenters**
- **painters**

#### **Project Team**

- 1.) **Consulting engineer.**
- 2.) **Client.**
- 3.) **civil Engineer.**
- 4.) **Contractor.**
- 5.) **architects**
- 6.) **Subcontractor.**

#### 4.)

- **It is secured so as to prevent unnecessary injuries to other people.**
- **to prevent stealing**

- to prevent accident and also for the safety of the entire school.
- 5.) BEME

• item	• quantity	• unit	• per head(\$)	• total(\$)
<b>cement</b>	<b>30</b>	<b>bags</b>	<b>2000</b>	<b>60000</b>
<b>water</b>	<b>50</b>	<b>tankers</b>	<b>1000</b>	<b>50000</b>
<b>sand</b>	<b>6</b>	<b>tons</b>	<b>5000</b>	<b>30000</b>
<b>pipes</b>	<b>60</b>	<b>yards</b>	<b>500</b>	<b>30000</b>
<b>paints</b>	<b>8</b>	<b>bucket</b>	<b>1500</b>	<b>12000</b>
<b>cables</b>	<b>40</b>	<b>yards</b>	<b>1000</b>	<b>40000</b>
<b>transportation</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>100000</b>
<b>Consultancy fee</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1000000</b>
<b>Site clearance and preparation</b>	<b>•</b>	<b>•</b>	<b>•</b>	<b>500000</b>
<b>Profit</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>3000000</b>
<b>TOTAL</b>				<b>23222000</b>

6.)

S/N	DATE	PAYMENT(PER HEAD)	DESCRIPTION	AMOUNT(\$)
<b>1</b>	<b>1<sup>ST</sup> JAN</b>	<b>5000</b>	<b>MOBILIZATION</b>	<b>100000</b>
<b>2</b>	<b>5<sup>TH</sup> MAR</b>	<b>6000</b>	<b>50% completion</b>	<b>2000000</b>
<b>3</b>	<b>20<sup>th</sup> april</b>	<b>9000</b>	<b>Completion and handover</b>	<b>3000000</b>
<b>4</b>	<b>1<sup>st</sup> may</b>	<b>50000</b>	<b>Defect period</b>	<b>5000000</b>

**7.) BEME: Bill of Engineering Measurement and Evaluation (BEME) is a used during and post-construction to assess and value the cost of construction works. This includes the cost of materials, labor, equipment and other resources required for the completion of the work.**

**Defect liability period: is the period following practical completion during which a contractor remains liable under the building contract for dealing with any defects which arises at that period maybe due to the materials 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 consultancy team.**

**PROJECT LIFE CYCLE: it refers to the phases of process followed for the completion of the work by a project manager when moving through stages of project completion. The Project Life Cycle provides a framework for managing any type of project within a business.**

**ENVUROMENTAL IMPACT ASSESSMENT(EIA):is the assessment of the environmental consequences of a plan, policy, or actual projects prior to the decision to carry on with the proposed action.**