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DEPTMART: CIVIL ENGINEERING

MAT NO: 18/ENG03/051

COURSE: ENGINEERING IN SOCIETY.

COURSE: ENG 284

PROJECT TITLE: RE-HABILITATION OF ALFA BELGORE HALL ABUAD UNIVERSITY.

Outline the scope of work in detail in order of occurrence.

- *Get Bill of quantity*
- *We are to get a new design from the architect*
- *To seek approval for the rehabilitation project from the government*
- *Securing the site.*
- *Removing the roof.*
- *Rehabilitation of the building.*
- *Perform soil test.*
- *Perform non-destructive and integrity test.*

List all human resources needed and constitute the project team stating who the lead consultant is.

The leader of the team is always an architect. The first thing, we must understand what went wrong in the old building. The architect has to give a new design to define the modification. After identifying your resources, we need manpower, we set completion date, organization of resources, sourcing of raw material or building material, advanced payment 30% to setup among the workmen.

Resource on site.

- *Carpenter.*
- *Bricklayer.*
- *Wielder.*
- *Electrician.*
- *Plumber.*
- *POP technician.*
- *Painter.*

- *Safety officer.*
- *General laborer.*

Materials needed.

- *Granite.*
- *Sharp sand.*
- *Plastering sand.*
- *Iron rod (imported type)*
- *Water.*
- *Cement.*
- *Ladder.*
- *Electrical lightening (for nightwork).*
- *ladder.*

GANT CHART

	PROJECT TITLE- RE-HABILITATION OF ALFA BELGORE HALL-ABUAD UNIVERSITY										
	TASKS	WK 1	WK 2	WK 3	WK 4	WK 5	WK 6	WK 7	WK 8	WK 9	WK 10
1	secure the site										
2	Produce building drawing										
3	Process building approval from government										
4	Get bill of quantity from quantity surveyor										
5	perform soil test.										
6	Perform nondestructive & integrty test										
7	Perform EIA test										
8	Removing the Roof (capenter)										
9	Rehabilitating the roof -(Bricklayer)										
10	Rehabilitating the roof - painter,bricklayer)										

Why was The Site Secured?

The site is a very expensive work where the project is implemented and they are very vulnerable to all types of problem. As the work is in progress, aside from Alfa Belgore hall being rehabilitated, expensive equipment and valuable materials that are being used are kept on the site. The tools, equipment, machinery, and materials are also worth millions of Naira. The project will also be on for several months so such materials equipment and the site will be open to a heap of potential disasters. The site could be vulnerable to;

- Fire
- Theft
- Vandalism
- Accidents
- Natural Disasters
- Water Damage
- Wind Damage

For these reasons the security of the site is hugely important. A group of security guards will be on patrol day and night looking out for any suspicious or criminal activities. Bollards and using of the former roofing to surround the site will also be effective in guarding the area and keeping unauthorized personnel clear. The two measures stated above will help deal with theft and vandalism. These guards will also be on the watch for students that stray of into the site if this happens. They will help look out for any potential problems when workers or contractors are not around at the time.

Develop a BEME for the project by lump sum projections.

S/N	*Description*	*Quantity*	*Unit price(N)*	*Cost(N)*
1	*Granite*	*20*	*120,000*	*2,400,000*

2	*Sharp /plastering sand*	*30*	*45,000*	*1,350,000*
3	*Cement*	*1,200 bags*	*2,600*	*3,120,000*
4	*Iron rod(16mm)*	*15 tons*	*230,000*	*3,450,000*
5	*Iron Rod(12mm)*	*15 tons*	*230,000*	*3,450,000*
6	*Iron Rod(10mm)*	*6 tons*	*210,000*	*1,260,000*
7	*Plank(1x12)*	*100*	*1500*	*150,000*
8	*Plank(2x3)*	*100*	*1500*	*150,000*
9	*Plank(3x4)*	*150*	*1500*	*225,000*
10	*Plumbing materials*	*1*	*1,200,000*	*1,200,000*
11	*Electrical materials*	*1*	*2,500,000*	*2,500,000*
12	*POP materials*	*1*	*1,500,000*	*1,500,000*
13	*Paints*	*80*	*5,000*	*400,000*
14	*Roofing sheet*	*1,800*	*5,000*	*9,000,000*

	/square meter			
15	*Concrete facial*	*1*	*4,500,000*	*4,500,000*
16	*Tiles(cartons)*	*1000*	*2,500*	*2,500,000*
17	*Electrical fittings*	*1*	*5,500,000*	*5,500,000*
18	*Nails*	*50*	*4000*	*200,000*
19	*Transportation*	*1*	*400,000*	*400,000*
20	*Labor cost*	*10*	*200,000*	*2,000,000*
	TOTAL			*45,255,000*

Forty-five million two hundred and fifty-five thousand Naira only.

S/N	*Item*	*amount*
1	*Miscellaneous 10%*	*4,525,500*
2	*Consultancy 15%*	*3,017,000*
3	*Site preparation & clearing 5%*	*2,262,750*
4	*Transport cost 12%*	*5,430,600*
5	*Profit 20%*	*9,051,000*

	TOTAL	*24,286,850*

S/N	*Item*	*Amount*
1	*Material cost*	*45,255,000*
2	*Profit/handling cost*	*24,286,850*
	GRAND TOTAL	*69,541,850*

SIXTY-NINE MILLION FIVE HUNDRED AND FORTY-ONE THOUSAND EIGHT HUNDRED FIFTY NAIRA ONLY.

PAYMENT SCHEDULE

S/N	*ITEM DESCRIPTION*	*AMOUNT*

1	*30% TECH for mobilization*	*2,318,061.67*
2	*30% completion*	*2,318,061.67*
3	*40% final payment*	*1,738,546.25*
4	*10% six months defect liability period.*	*6,954,185.00*
	TOTAL	*13,328,854.6*

What is BEME?

For all engineering works, it is required to know beforehand the probable cost of construction known as estimated cost. 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.

What is Defect liability period?

A defect liability period (warranty period) is a period of time following practical completion during which a contractorremains 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.

What is lead consultant?

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What is project life cycle?

A project life cycle is the sequence of phases that a project goes through from its initiation to its closure. The number and sequence of the cycle are determined by the management and various other factors like needs of the organization involved in the project, the nature of the project, and its area of application. The phases have a definite start, end, and control point and are constrained by time. The project lifecycle can be defined and modified as per the needs and aspects of the organization. Even though every project has a definite start and end, the particular objectives, deliverables, and activities vary widely. The lifecycle provides the basic foundation of the actions that has to be performed in the project, irrespective of the specific work involved.

Project life cycles can range from predictive or plan-driven approaches to adaptive or change-driven approaches. In a predictive life cycle, the specifics are defined at the start of the project, and any alterations to scope are carefully addressed. In an adaptive life cycle, the product is developed over multiple iterations, and detailed scope is defined for iteration only as the iteration begins.

What is environmental impact assessment (EIA)?

Environmental impact assessment study is a tool used to identify the environmental, social and economic impact of a project before decision is made to continue or drop the project.