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DEPARTMENT: Civil Engineering

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.*

<u>Materials needed.</u>

- *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	W K 5	WK 6	W K 7	WK 8	W K 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)										

Explain why the site was secured.

- *For safety reason*
- *To prevent theft of expensive equipment.*
- *For access control.*
- *To fulfill government law guiding site construction.*
- *Protecting against vandalism and arson.*
- *Preventing trespassers from entering the building site and climbing on equipment which puts not only the variables but also the trespasses in danger.*

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 /square meter	1,800	5,000	9,000,000
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	Transportati	1	400,000	400,000

	on			
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.