

18/eng02/039	
ETOK NSIBIET-ABASI EDEM	
COMPUTER EN GINEERING	

ALFA BELGORE REHABILITATION

1) DESCRIPTION OF SERVICE

Afe Babalola University Ado-Ekiti has required to renovate the Alfa Belgore hall on its campus. The work shall be done in accordance with the scope of work, specification and general contract conditions. The project requires an experienced registered contractor to redesign and execute the job. The scope of work is outlined as follows.

Scope of work

1. Mobilization of human resources to site
2. Purchasing of materials
 - Purchase of materials and tools to site
 - Provision of storage facility for purchased materials and tools on site
3. Disconnection of power lines and water pumps around the building to be renovated.
4. Removal of fixtures
 - Doors
 - Window frames
 - Cabinet
 - Plumbing fixtures
5. Uninstallation of roofing materials
6. Marking out and demolition of parts to be restructured
7. Carting away of debris resulting from demolition of parts to be restructured
8. Laying of brick walls and concreting as per the new design made for the renovation work at alfa Belgore.
9. Reinstallation of roofing thrusts and sheets
10. Plastering of the walls with a standard mix ratio designed for the project
11. Reinstallation of fixtures
 - Tiling the areas to be tiled
 - Electrical fixtures
 - Doors
 - Windows and window frames
12. Screeding of walls and attachment of other materials on walls as per the new design for Alfa Belgore
13. Handing over and commissioning

Human Resources Needed for Project

1. Masonry
 - Bricklayers
 - Helpers
 - Tilers

2. Plumbing
 - Plumber
 - Fitter
3. Electricals
 - Electrical engineers
 - Electrical mates
4. Engineers on site
 - Architect
 - Civil engineer
 - Electrical Engineer

A construction site can be a dangerous place, and it can also frequently be a target for arson and theft. Construction site security is necessary for preventing a number of serious issues, including

THEFT

One of the most common threats to construction site security is theft. Theft of expensive materials and equipment can disrupt business operations drastically and put a huge dent in your wallet! In order to prevent opportunistic criminals stealing your vital tools, you can implement a range of measures with Code 3 Security

ARSON

One of the most unfortunate and frightening issues with construction site security in 2018 is the threat of arson. According to figures from RISC Authority, more than 40% of all fires on construction sites are started deliberately. This costs the industry an estimated £400 million a year in lost earnings, insurance premium increases and compensation packages.

Unfortunately, arson is not only dangerous because of the loss of property and assets, but it is also estimated that 90 people die and over 2,00 people are injured as a result of arson every year. Therefore, it is very important to have a strategy in place to fight arson wherever possible. Protect your property and your people by making sure that the eyes and ears of your site are always in full working order.

VANDALIZATION

To avoid destruction of work by thugs and merchants of evil we must secure to site.

PAYMENT PLAN

First installment :30% of total estimated cost =~~₦~~5,256,000

Second installment: 30% of total estimated cost = ₦5,2526,000

Final installment :40% of total estimated cost=~~₦~~7,008,000

BILL OF ENGINEERING MEASUREMENT EVALUATION (BEME) is referred to as 'bill' is a tool used before, during and after construction to assess the value and cost of construction works. This includes cost of material, labor, equipment and all/any other resource(s) required for the success of any construction endeavor based on a pre-determined scope and specification.

DEFECT LIABILITY: A defects liability period is a period of time following practical completion during which a contractor remains liable under the building contract for dealing with any defects which become apparent. Depending on the form of contract you are reading, it may also be referred to as a rectification period or defects correction period.

A defects liability period is usually a period of around six or 12 months but it can vary depending on the contract used. Any defects or faults which arise during this period (for example - due to defective materials or workmanship) must be put right by the contractor at its own expense.

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.

Search Results

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

Environmental Impact Assessment (EIA) is a process of evaluating the likely environmental impacts of a proposed project or development, taking into account inter-related socio-economic, cultural and human-health impacts, both beneficial and adverse.

UNEP defines Environmental Impact Assessment (EIA) as a tool used to identify the environmental, social and economic impacts of a project prior to decision-making. It aims to predict environmental impacts at an early stage in project planning and design, find ways and means to reduce adverse impacts, shape projects to suit the local environment and present the predictions and options to decision-makers. By using EIA both environmental and economic benefits can be achieved, such as reduced cost and time of project implementation and design, avoided treatment/clean-up costs and impacts of laws and regulations.

BILL OF ENGINEERING MEASUREMENT EVALUATION FOR THE REHABILITATION OF ALFA BELGORE HALL AT AFE BABALOLA UNIVERSITY, ADO-EKITI					
S/N	DESCRIPTION	QTY	UNIT	RATE	AMOUNT(₦)
1	Mobilization				80,000.00
2	Purchasing of materials				
	• Purchase of materials and tools to site			Lump sum	2,000,000.00
	• Provision of storage facility for purchased materials and tools on site			Lump sum	300,000.00
3	Disconnection of power lines around the building to be renovated.			Lump sum	70,000.00
4	Removal of fixtures			Lump sum	70,000.00
5	Uninstallation of roofing materials			Lump sum	100,000.00
6	Marking out and demolition of parts to be restructured			Lump sum	700,000.00
7	Carting away of debris resulting from demolition of parts to be restructured			Lump sum	350,000.00
8	Laying of brick walls and concreting as per the new design made for the renovation work at alfa Belgore.			Lump sum	1,250,000.00
9	Reinstallation of roofing thrusts and sheets			Lump sum	380,000.00
10	Plastering of the walls with a standard mix ratio designed for the project			Lump sum	2,500,000.00
11	Purchase and Reinstallation of fixtures			Lump sum	8,000,000.00
12	Screeding of walls and attachment of other materials on walls as per the new design for Alfa Belgore			Lump sum	1,800,000.00
	TOTAL ESTIMATION COST				<u>17,520,000.00</u>
13	Miscellaneous (10%TEC)				1,752,000.00
14	Consultancy Fee(15%TEC)				2,628,000.00
15	Site preparation and clearing after clearance(5%TEC)				876,000.00
16	Transport(12%TEC)				2,102,400.00
17	Profit(20%TEC)				3,504,000.00
	TOTAL COST				<u>28,382,400.00</u>

Alfa Belgore hall rehabilitation

Afe Babalola University

Project Start Date 4/1/2020 (Wednesday)

Display Week 1

Project Lead _____

WBS	TASK	LEAD	START	END	DAYS	% DONE	WORK DAYS	Week 1							Week 2							Week 3							Week 4							Week 5							Week 6							Week 7							Week 8						
								30 Mar 2020							6 Apr 2020							13 Apr 2020							20 Apr 2020							27 Apr 2020							4 May 2020							11 May 2020							18 May 2020						
								30	31	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	
1	[Task Category]			-			-																																																								
1.1	Procurement of material [Name]		Wed 4/01/20	Tue 4/07/20	7	100%	5																																																								
1.2	Mobilisation		Tue 4/07/20	Mon 4/13/20	7	100%	5																																																								
1.3	Disconnection of power lines around		Mon 4/13/20	Sun 4/26/20	14	100%	10																																																								
1.4	Removal of fixtures		Sun 4/26/20	Sat 5/09/20	14	75%	10																																																								
1.4.1	removal of doors		Sat 5/09/20	Fri 5/15/20	7	50%	5																																																								
1.4.2	removal of tile & plumbing		Fri 5/15/20	Thu 5/21/20	7	50%	5																																																								
1.5	Uninstalation of roofing materials		Thu 5/21/20	Wed 5/27/20	7	100%	5																																																								
1.6	Marking out and Demolision of parts to be restructed		Wed 5/27/20	Tue 6/16/20	21	100%	15																																																								
1.7	Carting away of Debris from site		Tue 6/16/20	Mon 6/29/20	14	100%	10																																																								
2.1	Laying of Block walls and concreting as per the new design look		Mon 6/29/20	Sun 7/12/20	14	30%	10																																																								
2.2	plastering of the walls with a standard mix ratio designed for the project		Sun 7/12/20	Sat 7/18/20	7	10%	5																																																								
2.3	Reinstallation of roofing thruss and sheets		Sat 7/18/20	Fri 7/24/20	7	0%	5																																																								
2.4	reinstallation of fixtures		Fri 7/24/20	Thu 8/13/20	21	0%	15																																																								
3	fixtures reinstallation			-			-																																																								
3.1	Tiling of area to be Tiled		Thu 8/13/20	Sun 8/16/20	4	0%	2																																																								
3.2	Plumbing fixtures		Sun 8/16/20	Tue 8/18/20	3	0%	2																																																								
3.3	Electrical fixtures		Tue 8/18/20	Mon 8/24/20	7	0%	5																																																								
3.4	Doors		Mon 8/24/20	Thu 8/27/20	4	0%	4																																																								
3.5	Windows		Thu 8/27/20	Sat 8/29/20	3	0%	2																																																								
4	FINALIZATION			-			-																																																								
4.1	Screeding of walls and attachment of other materials on walls		Sat 8/29/20	Fri 9/11/20	14	0%	10																																																								
4.2	painting of walls		Fri 9/11/20	Thu 9/17/20	7	0%	5																																																								
4.3	handing over and commision		Thu 9/17/20	Thu 9/17/20	1	0%	1																																																								
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