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DEPARTMENT: CHEMICAL

MATRIC NO: 18/ENG01/023

COURSE CODE: ENG284

COURSE TITLE: ENGINEER IN SOCIETY

PROJECT TITLE

ALFA BELGORE REHABILITATION PROJECT

1) SCOPE OF WORK INVOLVED IN THE PROJECT

GOALS OF THE WORK

- The need for more space to accommodate more people there

•Safety concerns due to age of the building and fear of the integrity of the building

•The need to improve the hall and provide it with modern days facilities as it is a centre piece in the school.

TASK CARRIED OUT FOR THE RENOVATION PROCESS

THE CLEARING

The building would be evacuated for work to beginning on.

The building would be cleared and all the furniture would be taken out and moved to a secured and safe place. Facilities would also be removed and safely stored in the ware house till after the project

Demolishing, dismantling of structures

This is when the main work begins; we will start by removing the roof of the building. After that we will then beginning other are modelling work on the building. The main aim for this work is to expand the building so it can accommodate more people for social

events, programs and other activities the schools come up with. At the end of the project, the building is going to have more space.

CLEAN UP

This is the final stage of the project, where all the materials, the tools, equipments used and the heavy duty machines would be returned. The roofing sheets would also be cleared and also the left over material. So that the place would be okay and ready for use and if the need be; to be re-commissioned. chool name better.

PROFESSIONALS INVOLVED IN THE WORK

.Surveyor

. Architect

. Civil engineers

. Services engineer

. Structural engineer

. Cost consultant

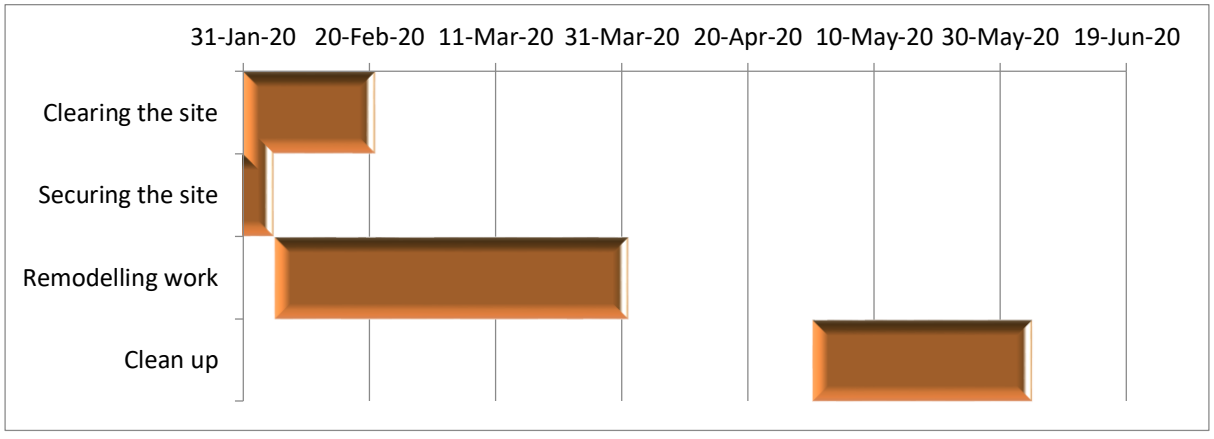
TIME DURATION FOR EACH PROJECT

. The clearing stage is estimated to be completed in 21days (3 weeks).

The estimated duration of this stage is 2-3 months (6-8 weeks).

. The operation would take an estimated amount of 4-5 weeks. 2)

PROJECT GANT CHART



3)

HUMAN RESOURCES NEEDED AND THE PROJECT TEAM

For the project to be successful and to be accomplished within the time given, a workforce of 30-40 men would be needed for the whole project if the project is to follow the estimated time given to it which is approximately 126 days to complete.

PROJECT TEAMS INVOLVED

•Quantity surveyors who will ensure that all the materials used for the project are of good quality and can used and also to ensure that the materials are in good shape.

•An electrical engineering that will ensure that all the electrical connections are correct and the electrical are installed correctly.

•An Architect who will design the new structure.

•A Structural Engineer that will ensure that the new structure can hold and can live up to its expectation.

•Water works engineer who will ensure that the water facilities are in good order, especially in the toilet.

•The will also be a group of consultants who will advice the best way that the project will move. The Lead Consultants will be Angry Pro Wara Samuel.

4)

LEAD CONSULTANT AND HIS PROJECT TEAM

The lead consultant's role might include:

.Co-ordinating, monitoring and reviewing the work of the consultant team (and others, such as specialist designers and specialist contractors).

.Arranging consultant team meetings and planning work stages.

.Preparing programmes and progress reports.

.Seeking instructions from the client.

REASON FOR SECURING THE SITE

. Access control – as well as minimal access points, this includes installing suitable, industrial security gating so that gates cannot be simply unhinged after hours.

. Lighting – as both a visible deterrent and aid to security, lighting can particularly protect access points and should be fitted to areas which are inaccessible and therefore cannot be disabled by intruders.

. Fencing and barriers – RISC recommends construction sites install site perimeter security of at least 2.4 metres high. Additional security can be gained by deploying.

. Anti-climb, palisade and / or welded mesh fencing as these reduce access through climbing and makes intruders visible.

. Locks – sites should include lockable storage such as steel tool vaults and containment so that all equipment, tools, metals and materials can be secured out of sight overnight and when not in use, to reduce visible temptation to opportunist.

5)

BILL OF ENGINEERING MEASUREMENT AND EVALUATION (BEME)

ITEM NO	DESCRIPTON	QUANTITY	UNIT COST	TOTAL COST
1	Roofing sheet	100	₦ 1,400.00	₦ 140,000.00
2	cement bags	500	₦ 180,000.00	₦ 90,000,000.00
3	Trucks of gravel	12	₦ 35,000.00	₦ 420,000.00
4	Trucks of sand	13	₦ 45,000.00	₦ 585,000.00
5	Glass which will be brought as 12x12	10	₦ 50,000.00	₦ 500,000.00
6	Light bulbs fittings	40	₦ 8,000.00	₦ 320,000.00
7	Light bulbs	40	₦ 2,500.00	₦ 100,000.00
8	Copper wires	60	₦ 2,000.00	
9	Projector	3	₦ 150,000.00	₦ 450,000.00

10 T.V 4 ₦ 100,000.00 ₦ 400,000.00

6.

Payment Schedule

Description	Percentage	Total Estimated Cost(tec)	Total amount to be paid	Percentage Retained	Amount Retained	Payment
Mobilization	30%	₦ 700,000,000	₦ 210,000,000	0%	₦ -	₦ 210,000,000
At 50% completion	30%	₦ 700,000,000	₦ 210,000,000	0%	₦ -	₦ 210,000,000
Final Payment	40%	₦ 700,000,000	₦ 280,000,000	10%	₦ 70,000,000	₦ 210,000,000
After 6months (and no defect found)	10%	₦ 700,000,000	₦ 70,000,000	0%	₦ -	₦ 70,000,000
Total						₦ 700,000,000

7)

MEANING OF DEFECT LIABILITY PERIOD (DLP)

The defects liability period (now called the 'rectification period' in Joint Contracts Tribunal (JCT) contracts) begins upon certification of practical

completion and typically lasts six to twelve months. During this period, the client reports any defects that arise to the contract administrator who decides whether they are defects (i.e. works that are not in accordance with the contract).

MEANING OF BEME

BEME was introduced by the officials of the Federal Ministry of Works and Housing, when concerted effort was made to exclude quantity surveyors from performing cost functions on civil engineering projects. Nigeria is the only country in the whole world using the document known as: Bill of Engineering Measurement and Evaluation (B.E.M.E) as costing document for the procurement of infrastructure and construction projects.

WHO IS A 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 consultant team, except for on significant design issues where the lead designer may become the main point of contact.

PROJECT LIFE CYCLE IN THE WORKS

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.

ENVIRONMENTAL IMPACT ASSESSMENT (EIA)

The term "environmental impact assessment" (EIA) is usually used when applied to actual projects by individuals or companies and the term "strategic environmental assessment" (SEA) applies to policies, plans and programmes most often proposed by organs of state .It is a tool of environmental management forming a part of project approval and decision-making. Environmental assessments may be governed by rules of administrative procedure regarding projects by individuals or companies and the term "strategic environmental assessment" (SEA) applies to policies, plans and programmes most often proposed by organs of state .It is a tool of

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