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DEPT: MECHANICAL ENGINEERING

COURSE: ENG 284

THE ALFA BELGORE REHABILITATION PROJECT

In Rehabilitation of a building, various measures must be carried out. The Alfa Belgore hall can sit a crowd of immense capacity but still not enough to accommodate the entire school's population. For this particular reason the hall needs to be renovated.

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SCOPE OF WORK

Project scope;

Documentation: Requirements needed in this project, the funds, personnels required, site managements, design calculations.

Site preparation: Removal of valuables, special inspection, ensures there's daily quality control and monitoring.

Material testing: Material testers and technicians experienced in precast and cast concrete asphalt, earth work and certification accordingly.

Demolition: Removal of materials, ensure safety policies and procedures are followed by

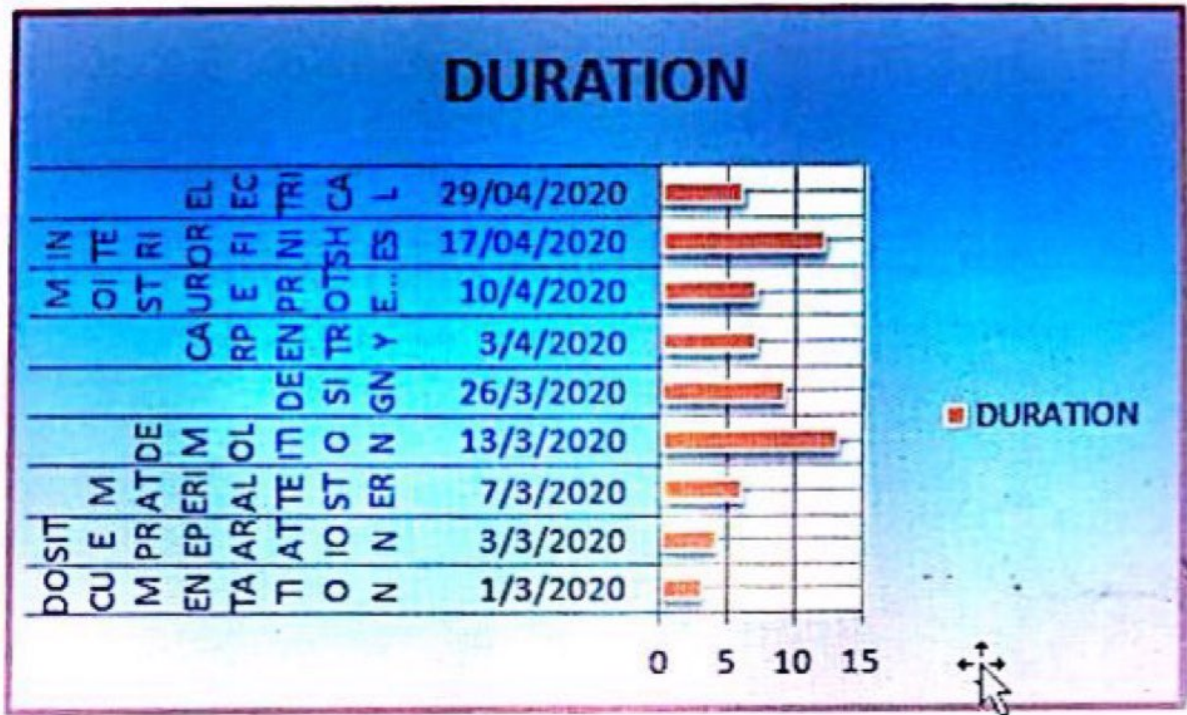
employees, proper use of personal protective equipment (PPE).

. Carpentry: Material installation, doors, windows etc.

Moisture Protection: certification of all roofing requirements, review of installations.

Interior finishes: Tiling, walls, cleaning of the finishes

. Electrical: lightening and powering requirements.



THE GANTT CHART

HUMAN RESOURCES NEEDED AND PROJECT TEAM.

The resources; Cement blocks, Mixers, building tools, etc.

The structure and composition of the project team tends to change through the duration of

the project; some team members might only have a very brief involvement, bringing specialist knowledge or supplying specialist component during a particular phase, whilst others, such as the client,

project managers

The architect

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The workers

The workers

The tradesman

4. The site was secured to prevent people from coming close to the construction site, and ensure that dangerous objects such as bamboo

sticks, roofing sheets don't fall on them.
Ensuring safety protocols.

5. THE PROJECTION COST

- At 10% 4 million naira
- At 15% 10 million naira
- At 5% 1 million naira
- At 12% 14 million naira
- At 20% 22 million naira

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6.

- Mobilization 20 million naira
- Completion 15 million naira
- Completion and hand over 10 million naira

Defect liability period 22 million naira

7. BILLING OF ENGINEERING MEASUREMENT AND EVALUATION (BEME):

This is a systematic, transparent tool used during and post- construction to assess the value of the cost construction works. This includes the cost of materials, labor, and equipment and any other resources required for the project.

Defect liability period: is a period of time following practical completion during which a contractor remains liable under the building contract for dealing with any defect which becomes apparent.

Lead consultant is the consultant that directs the work of the consultant team and is the main point of the contract for communication between client and consultant team.

Project life cycle is the sequence of phases that a project goes through from its initiation to its closure.

Environmental impact assessment is the assessment of environmental consequences of a plan, policy, program, or actual projects prior to the decision to move forward with proposed action.