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Matric Number: 19/ ENG01/020

Department: Chemical

Course Code: ENG 284

Course: Engineer in the Society

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PROJECT TITLE:
THE REHABILITATION OF ALFA BELGORE
HALL

CLIENT: AFE BABALOLA UNIVERSITY

LOCATION: AFE BABALOLA UNIVERSITY, ADO-
EKITI, EKITI STATE, NIGERIA.

SCOPE OF THE PROJECT

Problem Statement

The Alfa Belgore Hall, which turns to be the largest hall in the above-mentioned location, is not big enough to accommodate the school's student-staff capacity, hence it needs to be renovated.

Goals

- ✚ Enlarging of the structure.
- ✚ Refurnishing of the hall to promote comfortability
- ✚ Stock taking of the fixtures in the hall.

Deliverables/Objectives

- ✚ Re-designing of the blueprint of the hall.
- ✚ Environmental Impact Assessment of the redesign.
- ✚ Stock taking of all fixtures ranging from chairs to electrical devices.
- ✚ Relocation of fixtures and disconnection of the building service
- ✚ Securing of the site.
- ✚ Removal of the corrugated roofing sheets.

- # Construction of necessary extended foundation and sub foundation.
- # Construction of the connecting walls to the extended foundations and extension of the roofs.
- # Re- roofing with the provides roofing sheets and finishing touches like plastering and painting.
- # Reconnection of the fixtures, building services and removal of site securing.
- # Test run of the functionality of the renovated building.

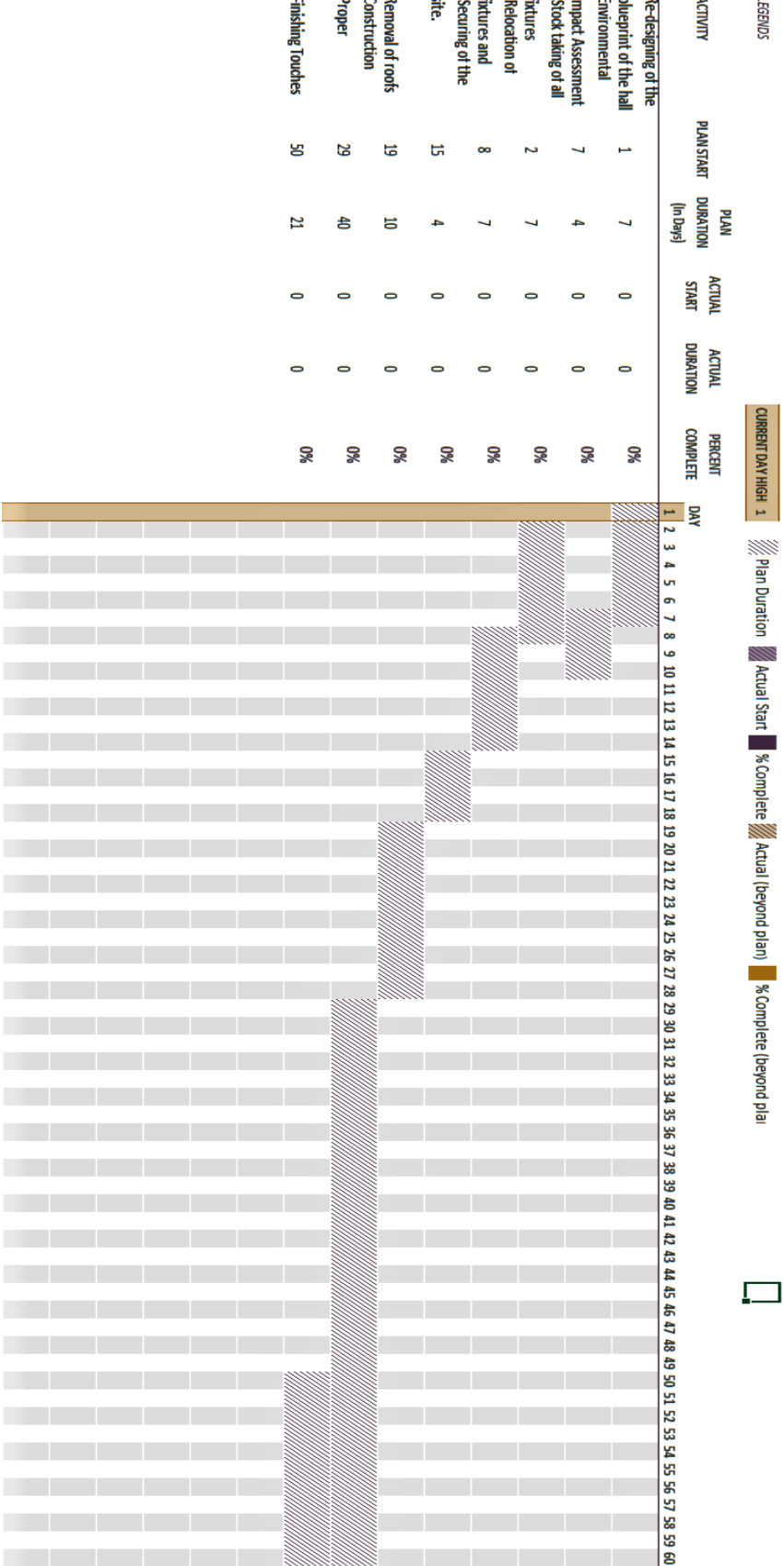
Timeline

The project is slated to last for a period of about 5months. The slated timetable is shown as follows:

Milestone	Duration
Designing of blueprint and Environmental impact Assessment of the redesign	2weeks
Stock taking, relocation of features and disconnection of building services	2 weeks
Securing of the site	1.5 weeks
Removal of corrugated roofing sheets	1.5 weeks
Additional constructions from foundation to roof	2 months
Plastering and repainting	2weeks
Reconnection of features, building services and removal of site securing	2 weeks
Test run of the rehabilitated facility	1 week

THE PROJECT'S GANTT CHART PRIOR TO IT'S COMMENCEMENT

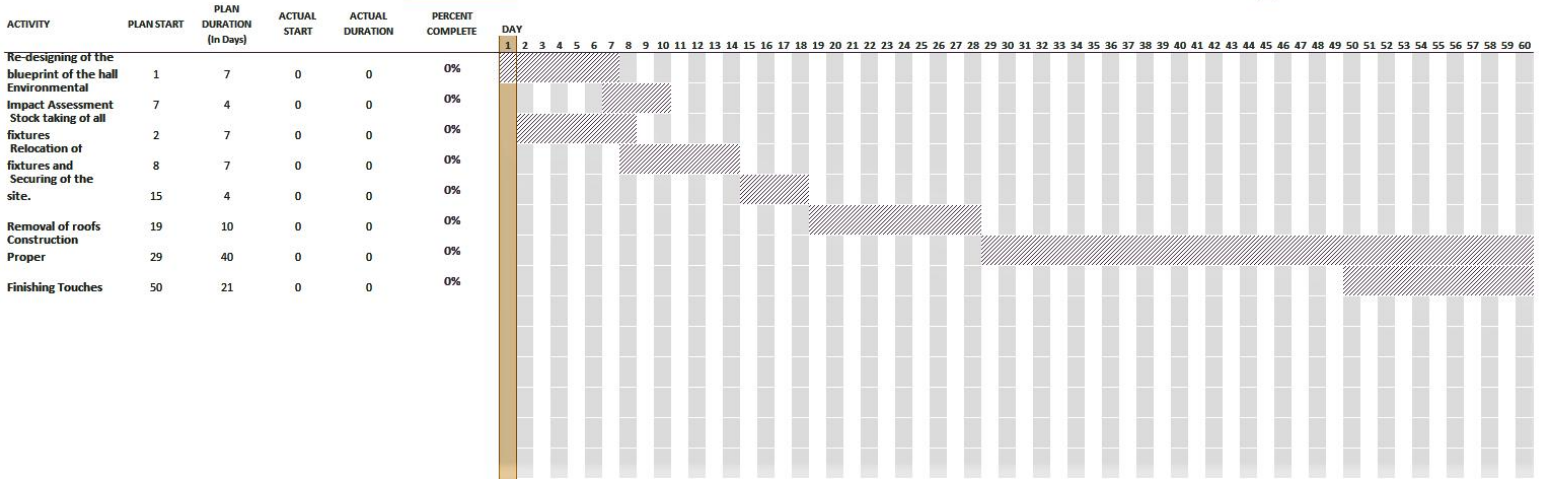
REHABILITATION OF ALFA BELGORE HALL



REHABILITATION OF ALFA BELGORE HALL

LEGENDS

CURRENT DAY HIGH 1 ■ Plan Duration ■ Actual Start ■ % Complete ■ Actual (beyond plan) ■ % Complete (beyond plan)



HUMAN RESOURCES/PROJECT TEAM

- ✓ Project Manger ----- Lead Consultant
- ✓ Architect
- ✓ Engineers
- ✓ Quantity Surveyors
- ✓ Builders
- ✓ Carpenters
- ✓ Masons
- ✓ Painter/Interior finisher
- ✓ Electrician

Why the site was secured

The site was secured to avoid accident to the passerby by ensuring they are not encroaching the region of ongoing work.

BILL OF ENGINEERING MEASUREMENTS AND EVALUATIONS (BEME)

Site work

- | | |
|--|---------|
| 1. Stock taking and relocation expense | 70,000 |
| 2. Impact fee | 50,000 |
| 3. Water | 100,000 |
| 4. Architecture, Engineering | 240,000 |
| 5. Others | 100,000 |

Foundations

- | | |
|---|---------|
| 1. Excavation, Concrete, Retaining Walls and Backfill | 300,000 |
|---|---------|

Framing

- | | |
|-------------------------------|---------|
| 1. Framing(including roofing) | 200,000 |
| 2. Trusses | 50,000 |
| 3. Sheathing | 50,000 |
| 4. General Metal and Steel | 100,000 |
| 5. Other | 100,000 |

Exterior Finishing

- | | |
|-----------------------------|---------|
| 1. Exterior Walls Finishing | 300,000 |
| 2. Windows and Doors | 150,000 |
| 3. Other | 100,000 |

Major System rough ins

- | | |
|---------------|---------|
| 1. Plumbing | 100,000 |
| 2. Electrical | 150,000 |
| 3. Hvac | 60,000 |

4. *Other* 100,000

Interior Finishing

1. *Insulation* 20,000

2. *Painting* 70,000

4. *Lighting* 10,000

5. *Flooring* 50,000

6. *Other* 50,000

Total Estimated Cost(Materials)= 2 520 000.00

Miscellaneous = 10% of TEC-----252 000

Consultancy fee =15 % TEC ----- 378 000

Site Preparations and clearing after completion = 5% TEC-----
126 000

Transport Cost =12% of TEC ----- 302 400

Profit =20% TEC ----- 504 000

PAYMENT SCHEDULE

The payment plan is as follows:

Total cost for the Project = 4,082,400.00

- 30 % tec for Mobilisation = 1,224,720.00
- Next 30 % tec at 50% completion =1,224,720.00
- Final Payment of 40 %tec at completion and handover=1,632,960.00
- (Retain 10 % tec for a 6 months Defect liability period=408,240.00)

Question 7

- **BEME** means “Bill of Engineering Measurement and Evaluation”. It is a tool used before, during and post construction to assess and value the cost of construction works. This includes the cost of materials labour, equipment and all other resources required for the success of the construction.
- **Defect Liability Period** is also known as the rectification period. It usually begins on certification of practical completion and last for about 6 to 12 months. This period is the period where the client reports any defects that arises to the contract administrator and upon consideration gives instructions for the rectification of such defects.
- **Lead Consultant** are those who have hands-on roles which involve the day-to-day running of continuing client projects. Lead consultants oversee a team of junior consultants. The team receives and works on the client’s information from the lead consultant.
- **Project Life Cycle** is the sequence of phases that a project goes through from its initiation to its closure. It consist of the initiation phase, planning phase, -+execution phase and termination phase.
- **Environmental Impact Assessment (EIA)** is 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.