

ADENIYI MOLOLUWA

EMMANUEL

18/ENG05/005

ENG 284

ENGINEERS IN THE SOCIETY

THE SCOPE OF WORK FOR THE ALPHA BELGORE REHABILITATION PROJECT

The Alfa Belgore hall is large multipurpose hall situated in the university premises , the hall is named after former Chief justice of Nigeria, Hon. Justice Alfa Belgore who is of course retired. It was built to accommodate a very large number of persons.

PROBLEM STATEMENT

The hall can presently accommodate just about 1000 students which is not suitable for a school with over 7000 students staffs excluded, the building is in good condition, the hall is being renovated solely because of the lack of space.

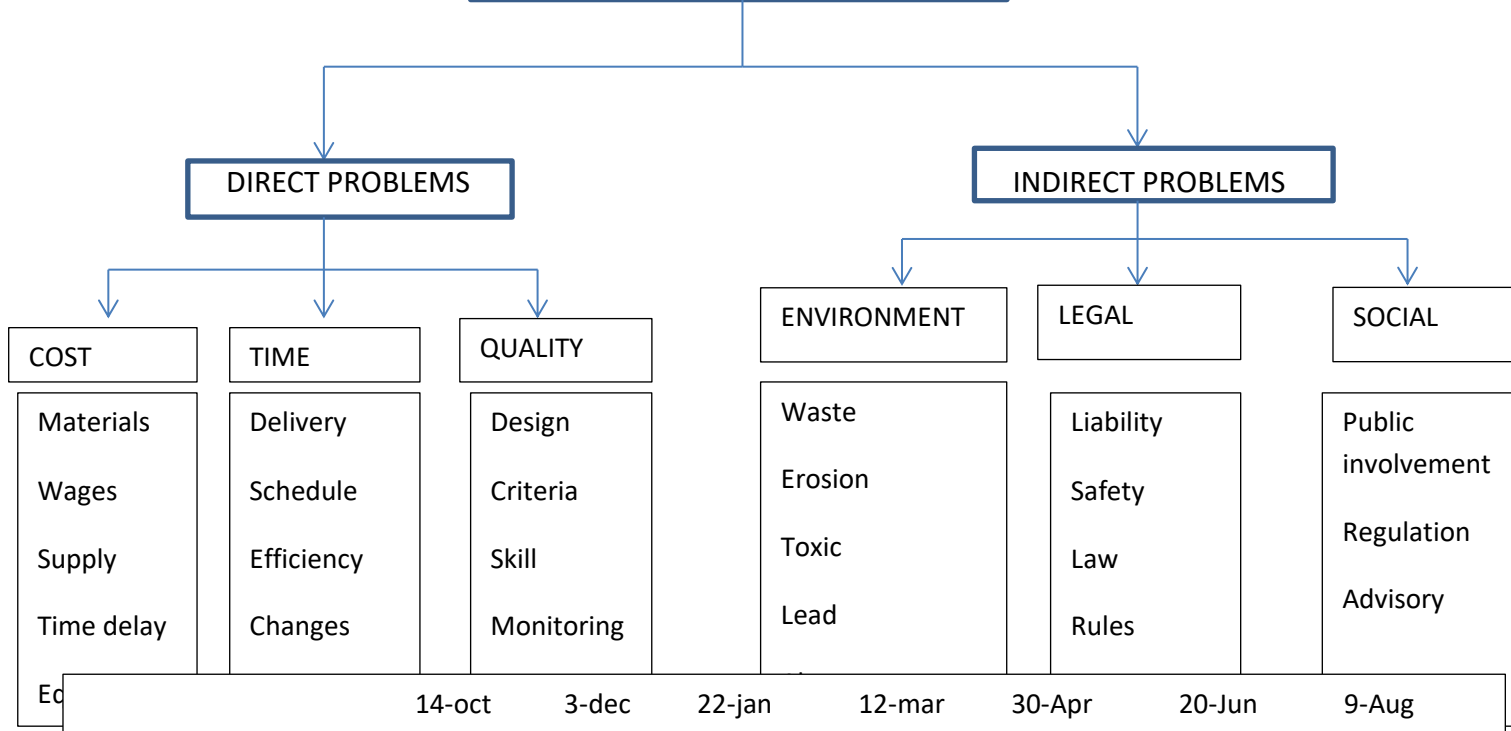
PROJECT WORK REQUIREMENTS

The hall needs to be expanded and to achieve that the farthest wall of the building is to be taken down. The exterior environment surrounding the building needs to be dug and cleared in order to place a solid foundation to match the new structure. The stage set of the hall needs to be taken out and pushed back a few meters, then some interior renovations like new toilets, tiles , pillars, painting and smoothening of the building. The air conditioners were done recently so are in good conditions but the lighting and electrical supply needs to be taken out and be replaced with ore modern technology.

The works will include;

1. Demolishing, removal and preparation
2. Concrete, block and plastering work
3. Painting and smoothening work
4. Doors, window and metal work
5. Sanitary and plumbing work
6. Electrical work

CONSTRUCTION PROJECT CHALLENGES



The human resources needed during this project are the various trained personnel needed to effectively carry out the project and they are;

Architects

Project managers

Civil engineers

Structural engineers

Masons

Electrical engineer

Painter

Quantity surveyors

The lead consultant in this construction project is the Architect

The site was secured and hidden away from the public majorly for safety reason, they are roof constructions and removal of ground which would leave holes in the ground which would be hazardous for the public. There is also destruction of property for removal which could fall and create a dangerous environment.

BEME (BILL OF ENGINEERING MEASUREMENT AND EVALUATION)

Total Estimated cost (TEC)= fifty million Naira(~~₦~~ 50,000,000)

Miscellaneous (10% of TEC);

10/100 OF 50,000,000

= ~~₦~~5,000,000

Consultancy fees (15% of TEC);

15/100 of 50,000,000

= ~~₦~~ 7,500,000

Site preparations and clearing after completion (55 of TEC)

5/100 OF 50,000,000

= ~~₦~~ 2,500,000

Transport cost (12% of TEC)

12/100 OF 50,000,000

= ~~₦~~ 6,000,000

Profit (20% of TEC)

20/100 OF 50,000,000

= ~~₦~~ 10,000,000

BEME : this is the bill of engineering measurement and evaluation , it is a tool used before, during and post- construction to assess and value the cost of construction work.

DEFECT LIABILITY PERIOD; This 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. A defect liability period is usually around six or twelve months but it varies depending on contract.

LEAD CONSULTANT: The lead consultant is the consultant that directs the work of the consultant team and is the main point of contact between the client and the consultant team except for significant design issues where the lead designer may become the main point of contact.

PROJECT LIFE CYCLE: A project life cycle is the sequence of phases that a project goes through from its initiation to its closure. The project lifecycle can be defined and modified as per the needs and aspects of the organizations.

ENVIRONMENTAL IMPACT ASSESSMENT: This is the assessment of the environmental impact of a plan it is usually used when applied to actual projects by individuals or companies and the term.

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

