

PROPOSED CHSE EXTENSION

CLIENT: MINISTRY OF EDUCATION

Proposed six storey building in CHSE

PROJECT DETAILS

Name of plot: Proposed CHSE Extension building (6 storey building)

Building footprint area: 480 m2 (approximate)

Client : Ministry of Education

PROJECT BRIEF IN DETAIL

The following are the detail requirements for each floor of the building. *(note: the following requirement is subject to change during concept development stage)*

Site and Location

- Proposed guest house is located in the Male'.
- No survey map of the plot exist or defenied plot boundary exist. Contractor need to conduct a detail as built survey of all the entire site. Survey must be carried out by a liscenced surveyor (registered in Housing Ministry

PROJECT SPECIFICS

Design stage

- The project will be procured as a design and build project.
- Contractor must ensure that the building is designed and documented based on the concept plans provided by the client.
- The building must be structurally designed to accommodate five concrete slabs as shown in concept plans.
- Contractor must design the building and produce full set of architectural, structural, plumbing and electrical and fire fighting drawings for a six storey building.
- Contractor must nomnate a registered architect and and engineer during detail design and documentation stage to liase with the client. The architect and engineer must be registered in Ministry of Housing.
- It is the responsibility of the contractor to obtain all the necessary approvals and permits required for construction.
- Contractor must submit to client

Two hard copy of full detail documentation (signed / stamped by structural checker and architectural checker)

One CD containing CAD file of detail documentation drawings / PDF of all drawings
Building Specification.

PDF of building specification

Construction stage

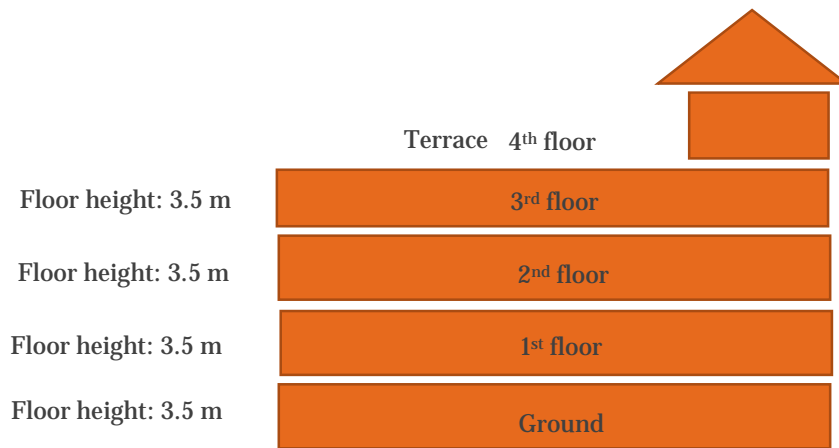
- The construction is divided to two stages. Stage 1 and 2
- The scope of this assignment is to design the building to accommodate six floors and a terrace. But the construction scope is limited up to 4th floor (stage 1)
- Construction will be carried out to complete stage 1.
- That is to finish the building up to third floor.
- Fourth floor will act as a terrace at this stage. Fourth floor must be have a waterproof screed and proper drainage must be allowed to eliminate ponding and leakage issues.
- All or any exposed iron bars must be applied with anti rusting coating.

CONSTRUCTION STAGES BREAK DOWN

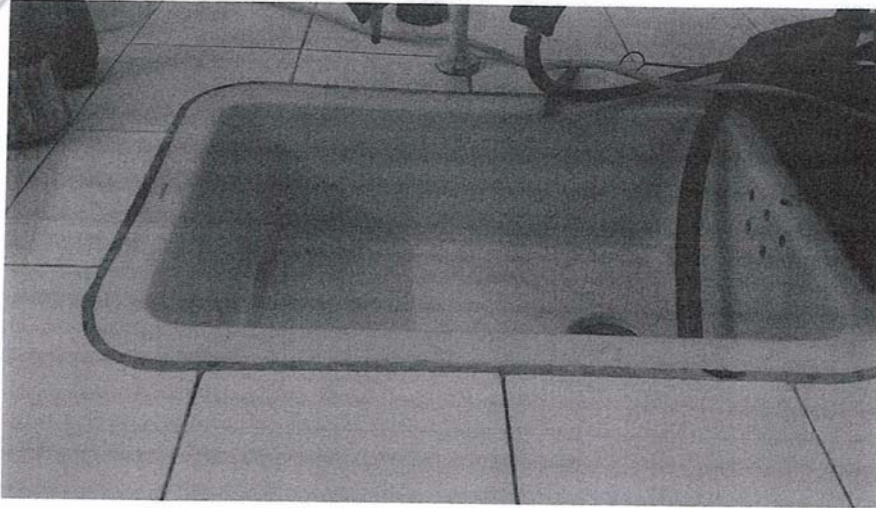
| Levels | Spaces | Construction stages |
|-----------------------|--|---------------------|
| Ground floor | Five class rooms / 20 pax lift / 2 stairs/ 3 toilets with wash basin | Stage 01 |
| First floor | Chemistry Lab 2 nos/ stores / 20 pax lift / 2 stairs/ 3 toilets with wash basin | Stage 01 |
| Second Floor | Physics lab 1 nos/ Biology lab 01 nos/ Health room/ Councillors room / 20 pax lift / 2 stairs/ 3 toilets with wash basin | Stage 01 |
| Third floor | Five class rooms / 20 pax lift / 2 stairs/ 3 toilets with wash basin | Stage 01 |
| Fourth Floor - | To be an open terrace at stage 01 | Stage 01 |
| | Five class rooms / 20 pax lift / 2 stairs/ 3 toilets with wash basin | Stage 02 |
| Fifth Floor | Five class rooms / 20 pax lift / 2 stairs/ 3 toilets with wash basin | Stage 02 |
| Terrace | Terrace | Stage 02 |

Current Development stages

- Proposed building area : 480 M2



Laboratory sink.



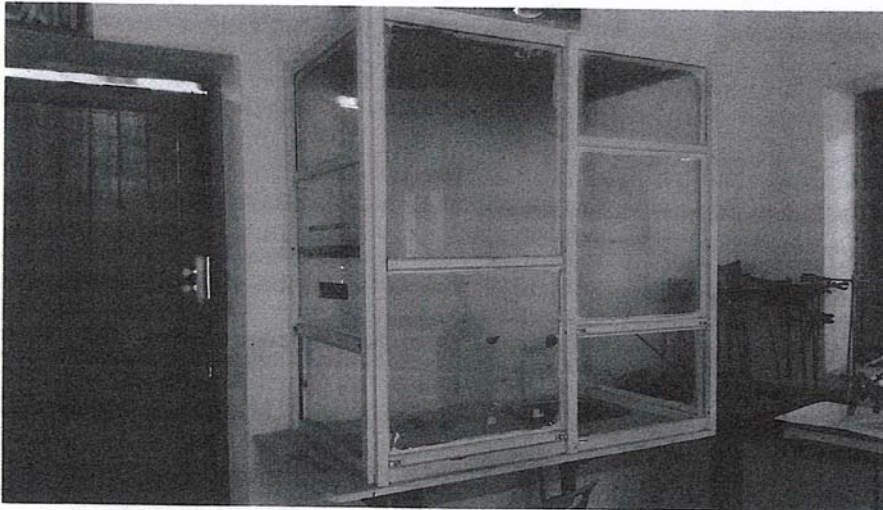
- ceramic sink.
- for preparation room 1' x 1.5'
- for labs. 2' x 1.5'

PIC: Laboratory Sink:

-Ceramic sink for preparation room size 1'x1.5'

For Labs 2'x1.5'

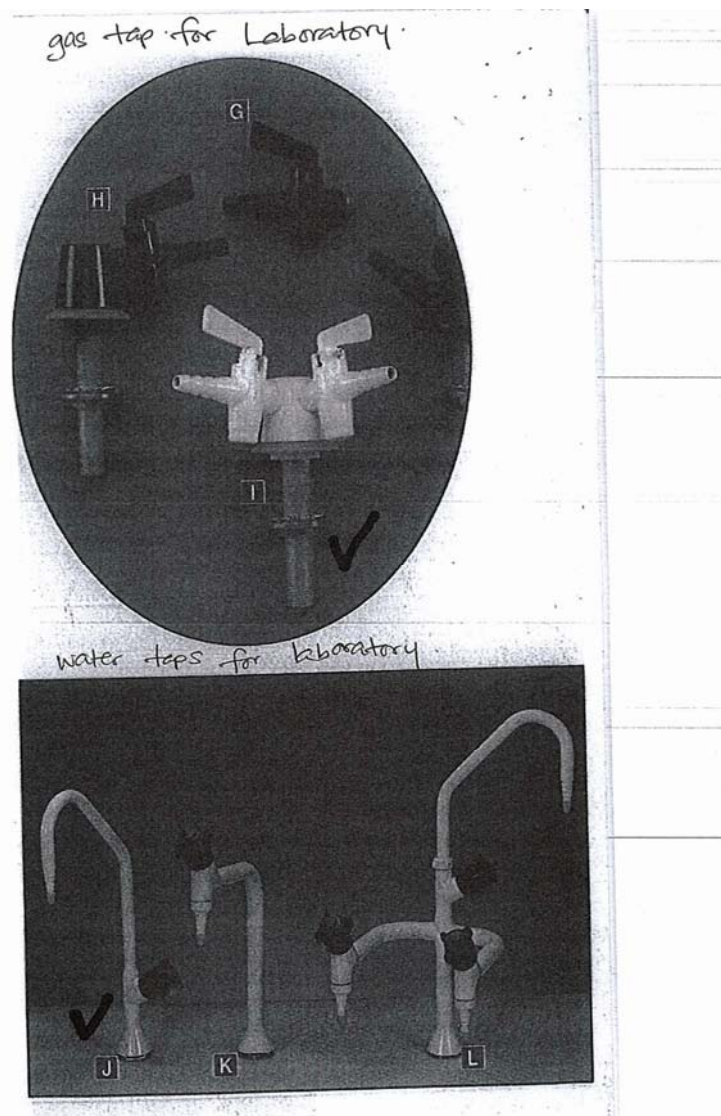
Fume cupboard. (3 cupboards in each lab) + 1 in preparation room.



2.6' x 4' fume cupboards in the labs / 2.5' x 2.5' in preparation room.
with gas tap sink and water tap.

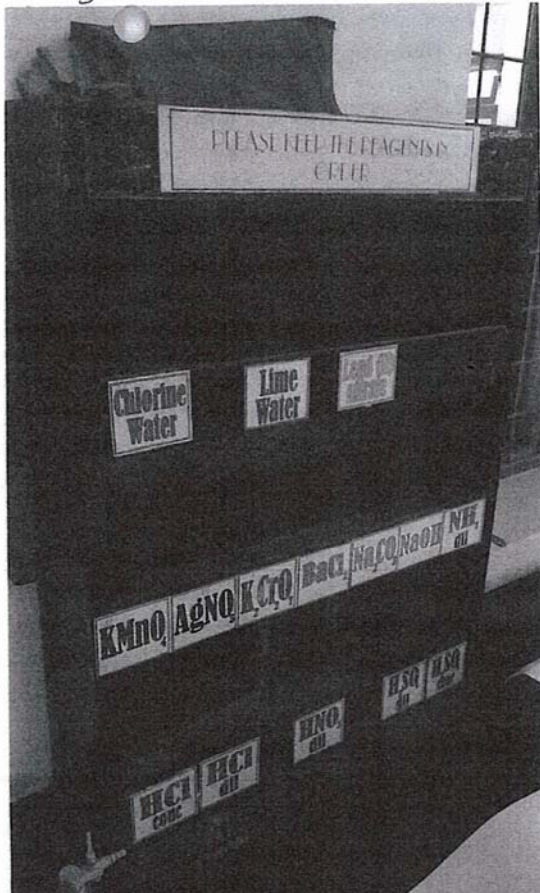
PIC: Fume cupboard (3 cupboards in each lab) = 1 in each preparation room:

-2.6'x4' fume cupboards in the labs / 2.5'x2.5' in preparation room with gas tap sink and water tap.



PIC: Gas tap and water tap reference pictures.

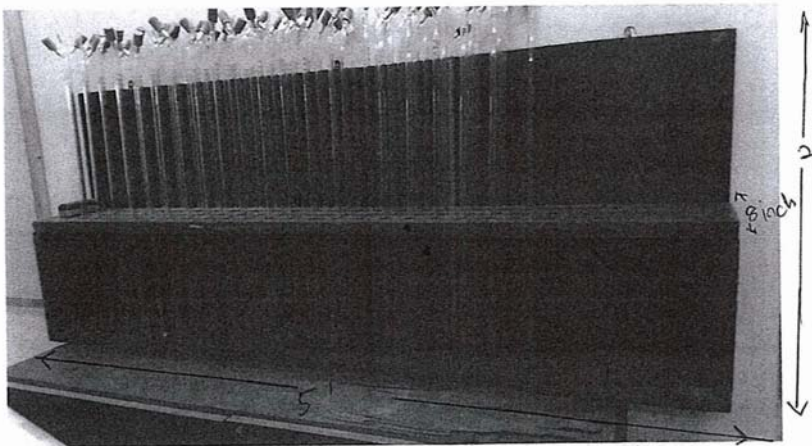
Reagent rack. (25 racks)



2.6' x 2' x 5"

PIC: Reagent rack (25 nos) size: 2.6'x2.5'

Burette rack. (3 nos)



PIC: Burette rack (3nos)

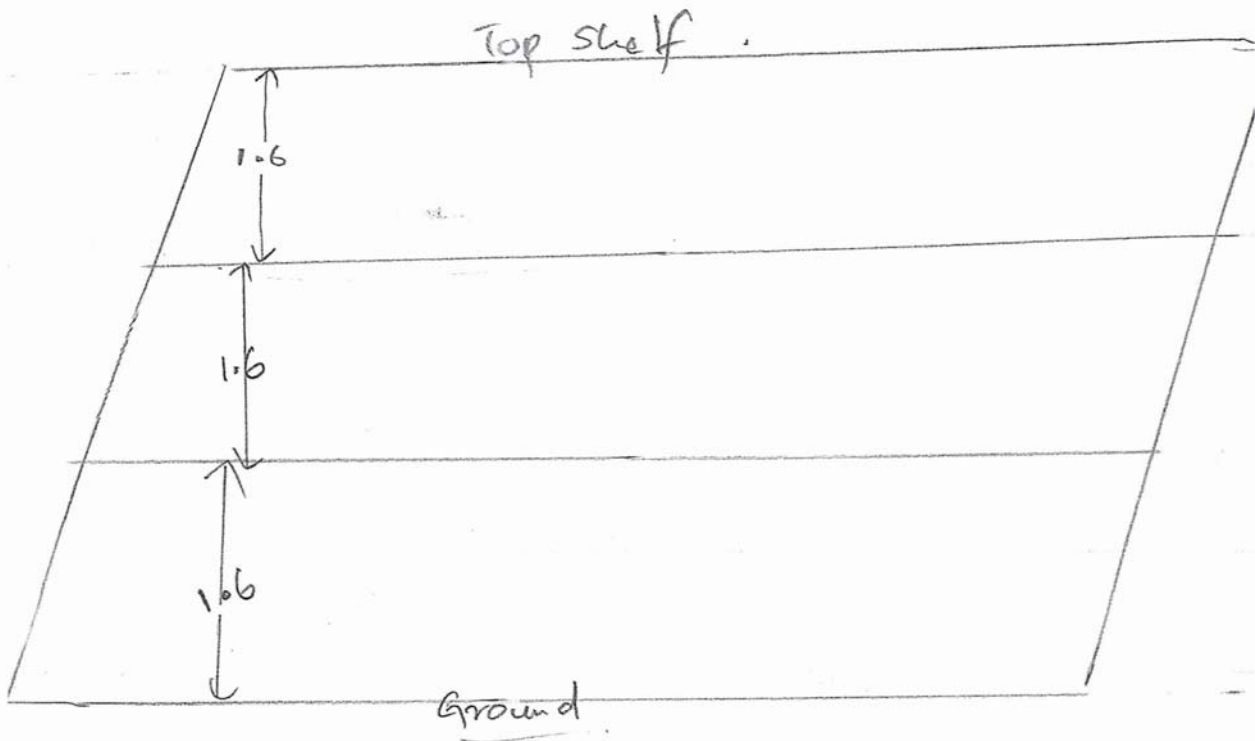
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(Handwritten musical notation on six-line staves)

۱۵۲۴۰۰ ۹۳۷۵ = ۱۴۳۰۵۰۰، ۱۶۸۱ ۱۵۴۰۰۰۰، ۱۰۰
 ۲۰۰۰۰۰ ۹۳۷۵ ۱۴۳۰۵۰۰ ۲۰۰۰۰۰ ۱۶۸۱ ۹۳۷۵
 ۱۴۳۰۵۰۰ ۹۳۷۵ ۱۴۳۰۵۰۰ ۹۳۷۵ ۱۴۳۰۵۰۰ ۹۳۷۵

$\frac{2299}{2} = \frac{4990}{2} \quad \frac{9525}{2} = \frac{5613}{2} \quad \frac{2562}{2} = \frac{4990}{2} \quad \frac{9525}{2} = \frac{5613}{2}$

Details of the
Concrete shelf in the Chemical room.



Other details

- Building type: Concrete structure with solid block masonry walls
- Block wall thickness: 150mm thk solid block. 25mm thick plastering on both sides
- Floor finish : All classrooms to be finished with 600 x 600mm Ceramic floor tiles / Use Conmix C800 Tile adhesive for tile fixing
- All exposed balconies , corridors and terrace to be finished with outdoor anti slip 600 x 600mm ceramic tiles/ Use Conmix C800 Tile adhesive for tile fixing
- Use step tiles for stairs
- Roofing is to be of Lysaght trim deck if required
- Putty work inside and outside the walls are not required
- Use Conmix Megaadd WL2 – for all underground concrete works
- Use Conmix MegaFlow P for all general concrete
- Use Conmix MoyaProof WS2 water proofing for all balconies, terrace and exposed corridors