

UMP LAB PROFILE

FTKA

Room 107

Concrete
Laboratory
2



BASIC INFORMATION

Location:

Makmal FKASA 1, TTI, Room
No. 107, Concrete Lab 2.

Cluster:

CONCRETE

| No | Item | Status |
|----|----------------------|-------------------|
| 1 | Area | 24m x 8.4m |
| 2 | Supply | 1 phase & 3 phase |
| 3 | Communication point | No |
| 4 | Gases | No |
| 5 | AV System | No |
| 6 | Store | No |
| 7 | Lab Preparation Room | No |
| 8 | Air Conditioning | No |
| 9 | Others (utilities) | No |

LIST OF EQUIPMENTS

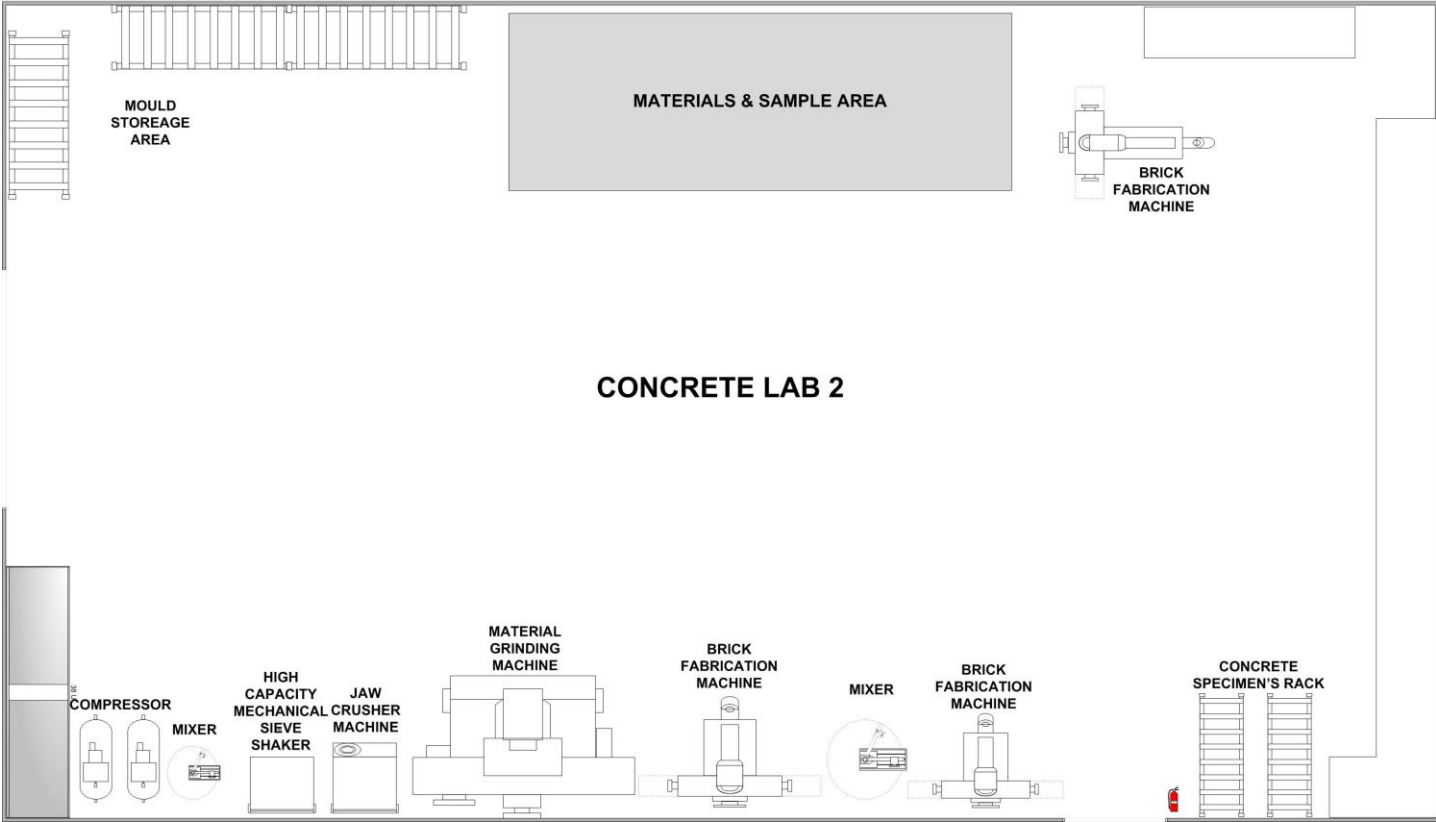
Nature of Equipments

- This lab consist of tools, equipments and materials to be used for the preparation of raw material for fresh concrete/bricks .
- The tools/equipments used are from various brand/supplier.

| No | Item | Quantity | Status | usage |
|----|---------------------------------------|----------|-------------------|-----------|
| 1 | Air compressor | 2 | In good Condition | PnP & R&D |
| 2 | High Capacity Mechanical Sieve Shaker | 1 | In good Condition | PnP & R&D |
| 3 | Jaw Crusher | 1 | In good Condition | PnP & R&D |
| 4 | Material Grinding Machine | 1 | In good Condition | PnP & R&D |
| 5 | Brick Fabrication Machine | 3 | In good Condition | R&D |
| 6 | Mixer | 2 | In good Condition | PnP & R&D |
| 7 | Various Moulds For Concrete | 200 | In good Condition | PnP & R&D |

LAB LAYOUT

ROOM NO. 107



LAB PICTURES



OTHER INFORMATION

- This lab consist of tools, equipments and materials to be used for the preparation of raw materials for fresh concrete/bricks.
- The storage area for raw materials.

UMP LAB PROFILE



FTKA

Room 108

Material
Lab

Version
4th May 2021

BASIC INFORMATION

Location:

Makmal FKASA 1, TTI, Room
No. 108, Material Lab.

Cluster:

CONCRETE

| No | Item | Status |
|----|----------------------|----------------------------|
| 1 | Area | 8m x 4.4m |
| 2 | Supply | 1 phase & 3 phase |
| 3 | Communication point | 3 nos network, 1 nos phone |
| 4 | Gases | No |
| 5 | AV System | No |
| 6 | Store | No |
| 7 | Lab Preparation Room | No |
| 8 | Air Conditioning | Yes (Split) |
| 9 | Others (utilities) | Exhaust Ventilation Fan |

LIST OF EQUIPMENTS

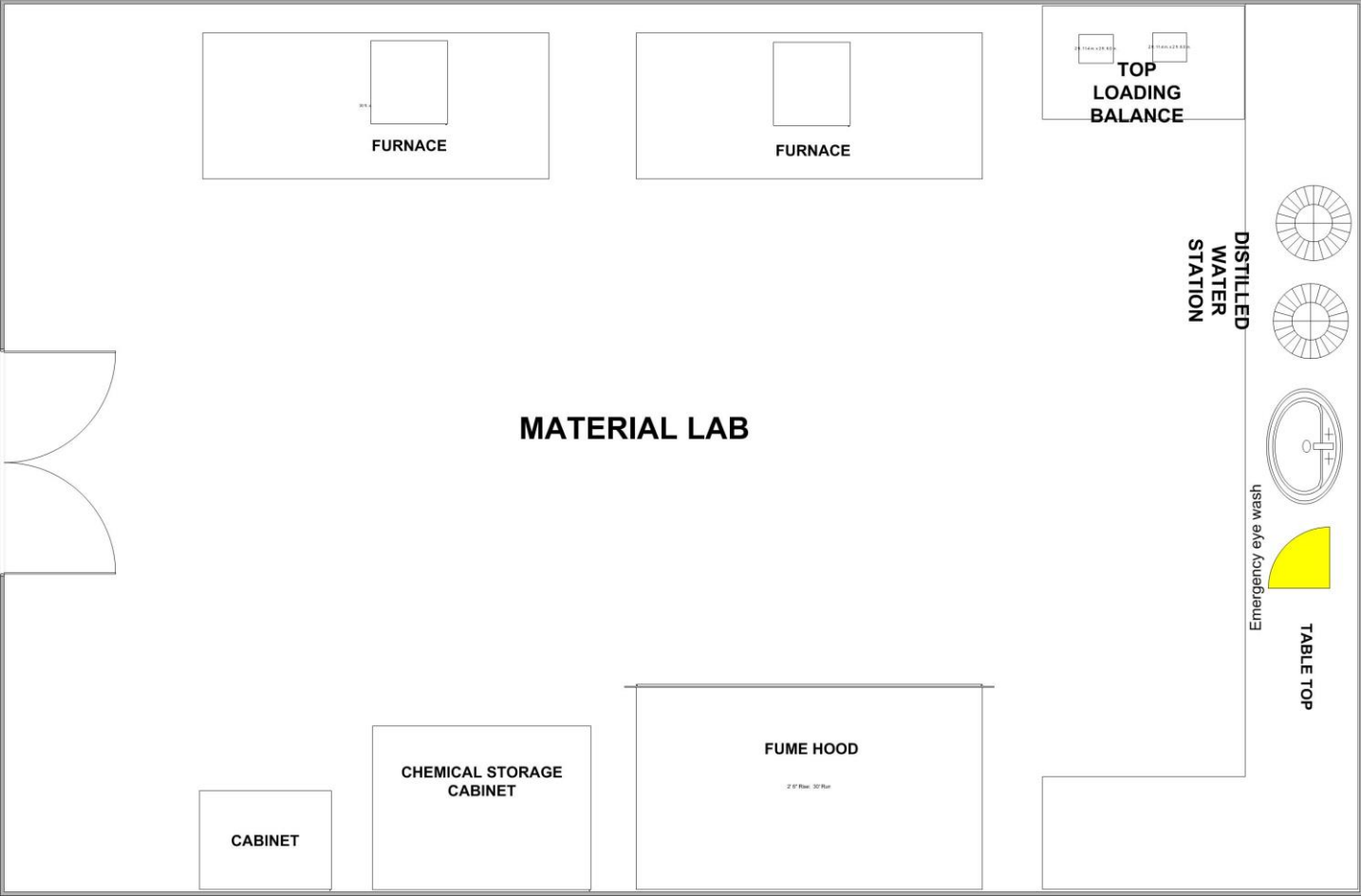
Nature of Equipments

- This lab consist of tools, equipments and materials/chemicals to be used for the preparation of raw material for fresh concrete/bricks.
- The tools/equipments used are from various brand/supplier.

| No | Item | Quantity | Status | usage |
|----|-----------------------------|----------|----------------------|-----------|
| 1 | Oven | 2 | In good | R&D |
| 2 | Top Loading Balance | 2 | In good Condition | PnP & R&D |
| 3 | Desiccator | 2 | In good Condition | R&D |
| 4 | Fume Hood | 1 | In good Condition | PnP & R&D |
| 5 | Chemical Storage Cabinet | 1 | In good Condition | PnP & R&D |

LAB LAYOUT

ROOM NO.108



LAB PICTURES



OTHER INFORMATION

- This lab consist of tools, equipments and materials/chemicals to be used for the preparation of raw materials for fresh concrete/bricks.

UMP LAB PROFILE



FTKA

Room 109

Store

BASIC INFORMATION

Location:

Makmal FKASA 1, TTI, Room
No. 108, Material Lab.

Cluster:

CONCRETE

| No | Item | Status |
|----|----------------------|-------------|
| 1 | Area | 8m x 4.4m |
| 2 | Supply | 1 phase |
| 3 | Communication point | No |
| 4 | Gases | No |
| 5 | AV System | No |
| 6 | Store | Yes |
| 7 | Lab Preparation Room | No |
| 8 | Air Conditioning | Yes (Split) |

LIST OF EQUIPMENTS

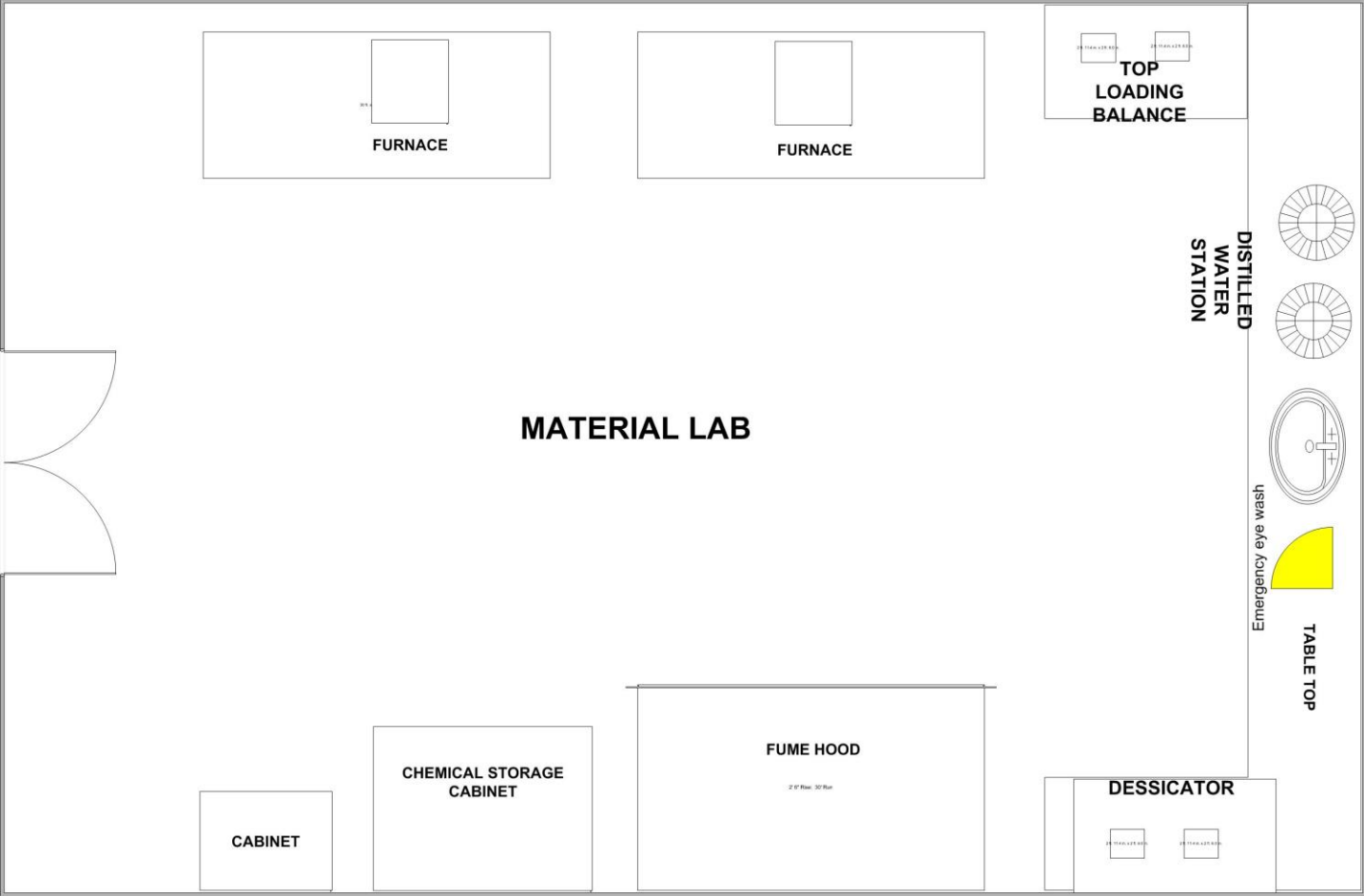
Nature of Equipments

- This store consist of tools and equipments that seldomly used for R&D.
- The tools/equipments used are from various brand/supplier.

| No | Item | Quantity | Status | usage |
|----|---------------------------|----------|-------------------|-----------|
| 1 | Ferrosan | 1 | In good Condition | R&D |
| 2 | Windsor Probe | 1 | In good Condition | PnP & R&D |
| 3 | Material Grinding Machine | 1 | In good Condition | R&D |
| 4 | Dessicator | 2 | In good Condition | R&D |
| 5 | Fume Hood | 1 | In good Condition | PnP & R&D |
| 6 | Chemical Storage Cabinet | 1 | In good Condition | PnP & R&D |

LAB LAYOUT

ROOM NO.108



LAB PICTURES



OTHER INFORMATION

- This lab consist of tools, equipments and materials/chemicals to be used for the preparation of raw materials for fresh concrete/bricks.

UMP LAB PROFILE

FTKA

Room 110

Destructive
& Non-
Destructive
Lab



BASIC INFORMATION

Location:

Makmal FKASA 1, TTI, Room
No. 110.

Cluster:

CONCRETE

| No | Item | Status |
|----|-------------------------|---|
| 1 | Area | 8m x 8m |
| 2 | Supply | 1 phase |
| 3 | Communication point | 3 nos network, 1 nos phone |
| 4 | Gases | No |
| 5 | AV System | 1 nos Lecturer PC Connection 1 nos Projector Screen (Motorized) 1 set PA System |
| 6 | Store | No |
| 7 | Bilik Persediaan Makmal | No |
| 8 | Air Conditioning | Yes (Split) |
| 9 | Others (utilities) | No |

LIST OF EQUIPMENTS

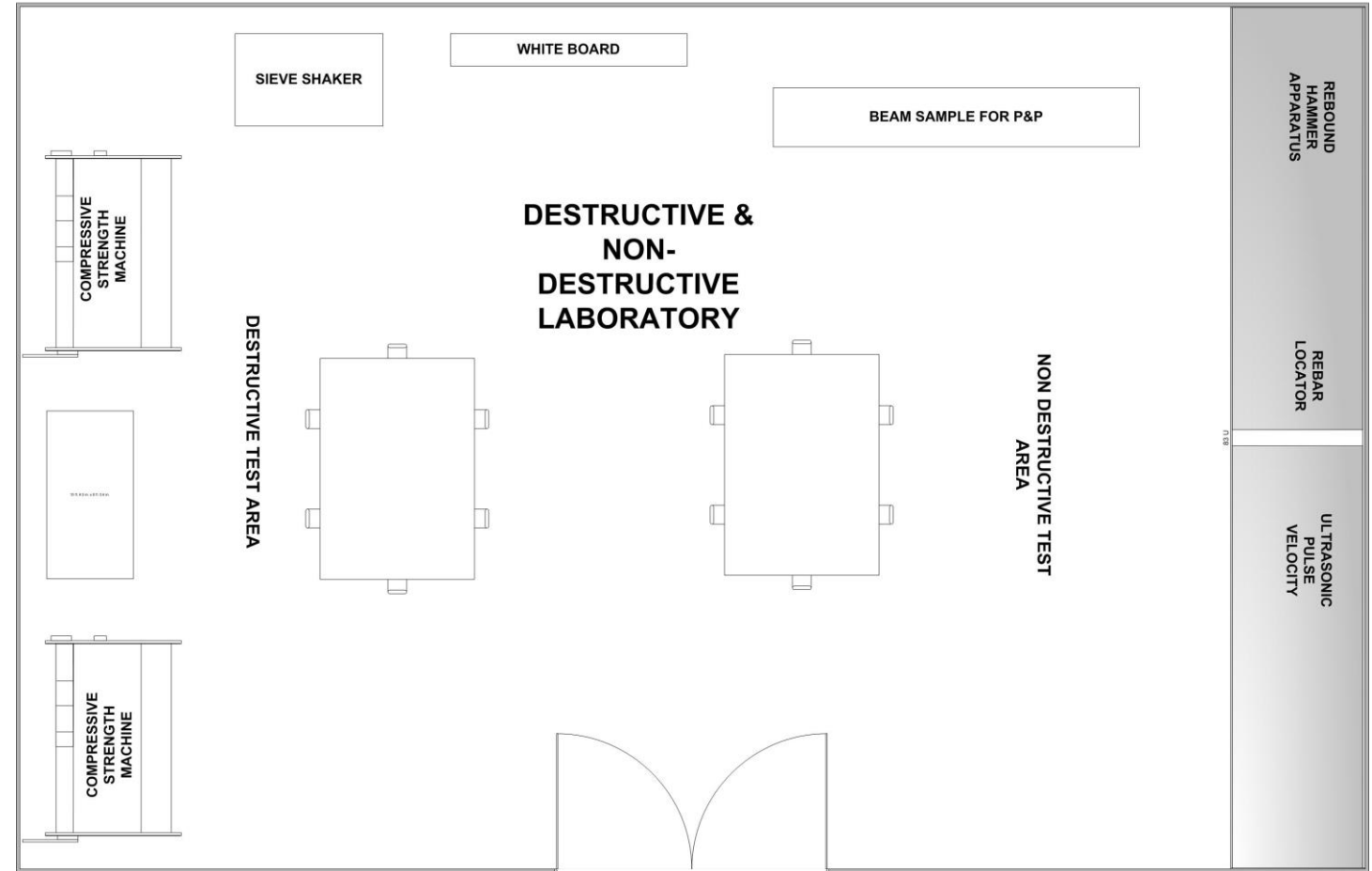
Nature of Storage Room

- This room consist of tools and equipments for both Destructive & Non Destructive Test for concrete i.e compression test (DT), ultrasonic pulse velocity test (NDT), rebar locator (NDT) and Rebound Hammer Test (NDT).

| No | Item | Quantity | Status | usage |
|----|---------------------------|----------|----------------------|-----------|
| 1 | Compression Machine | 3 | In good Condition, 1 | PnP & R&D |
| 2 | Top Loading Balance | 3 | In good Condition | PnP & R&D |
| 3 | Ultrasonic Pulse Velocity | 1 | In good Condition | R&D |
| 4 | Rebound Hammer | 1 | In good Condition | R&D |
| 5 | Rebar Locator | 1 | In good Condition | PnP & R&D |

LAB LAYOUT

ROOM NO. 110



LAB PICTURES



OTHER INFORMATION

- Commonly used by undergraduate / post-graduate students and 3rd party (i.e contractor / consultant / supplier) to determine the strength of concrete/brick.

UMP LAB PROFILE



FTKA

Room 111

Concrete
Lab 1

BASIC INFORMATION

Location:

Makmal FKASA 1, TTI, Room
No. 111, Concrete Lab 1.

Cluster:

CONCRETE

| No | Item | Status |
|----|----------------------|-----------|
| 1 | Area | 24m x 12m |
| 2 | Supply | 1 phase |
| 3 | Communication point | No |
| 4 | Gases | No |
| 5 | AV System | No |
| 6 | Store | No |
| 7 | Lab Preparation Room | No |
| 8 | Air Conditioning | No |
| 9 | Others (utilities) | No |

LIST OF EQUIPMENTS

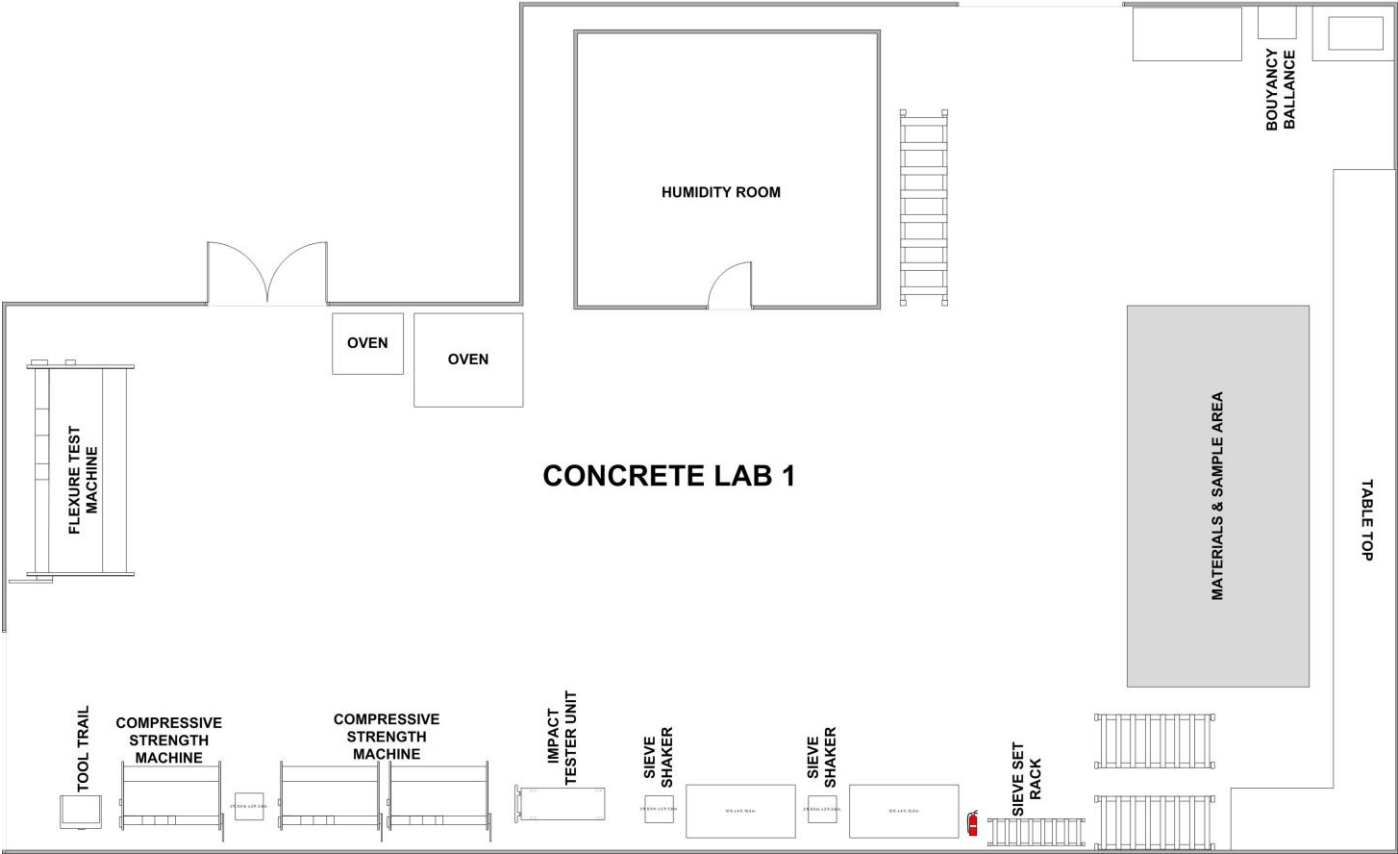
Nature of Equipments

- This area consist of tools and equipments for Destructive Test & Raw Material Preparation area for concrete.
- The Humidity Room commonly used to conduct test in accordance with the actual environment.

| No | Item | Quantity | Status | usage |
|----|------------------------------|----------|-------------------|-----------|
| 1 | Humidity Room | 1 | In good Condition | R&D |
| 2 | Oven | 2 | In good Condition | PnP & R&D |
| 3 | Compressive Strength Machine | 1 | In good Condition | PnP & R&D |
| 4 | Flexure Strength Machine | 1 | In good Condition | PnP & R&D |
| 5 | Mechanical Sieve Shaker | 2 | In good Condition | PnP & R&D |
| 6 | Impact Tester | 3 | In good Condition | R&D |
| 7 | Bouyancy Balance | 1 | In good Condition | PnP & R&D |

LAB LAYOUT

ROOM NO. 111



LAB PICTURES



LAB PICTURES



OTHER INFORMATION

- This lab is also used as a preparation area for raw material.