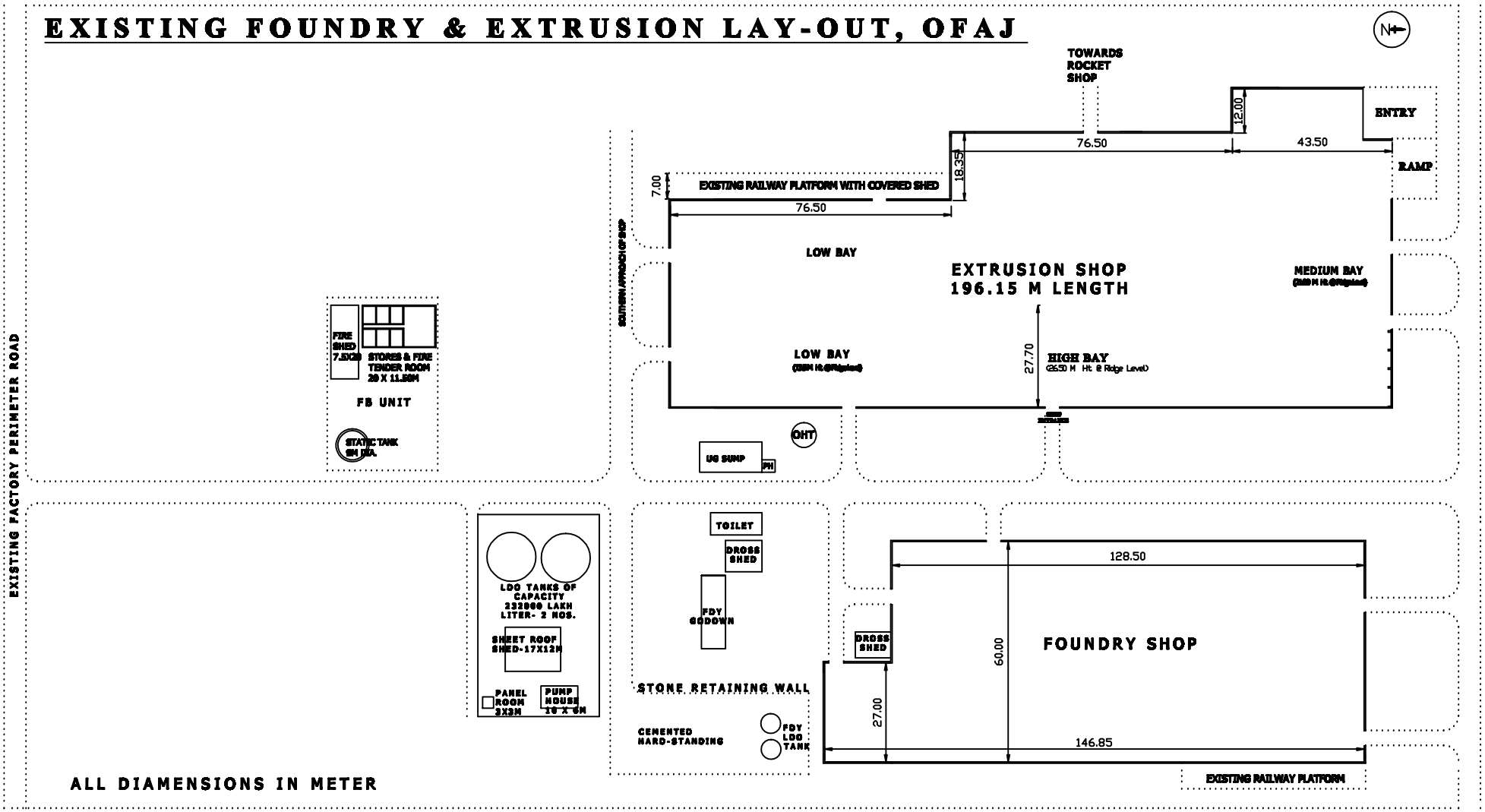
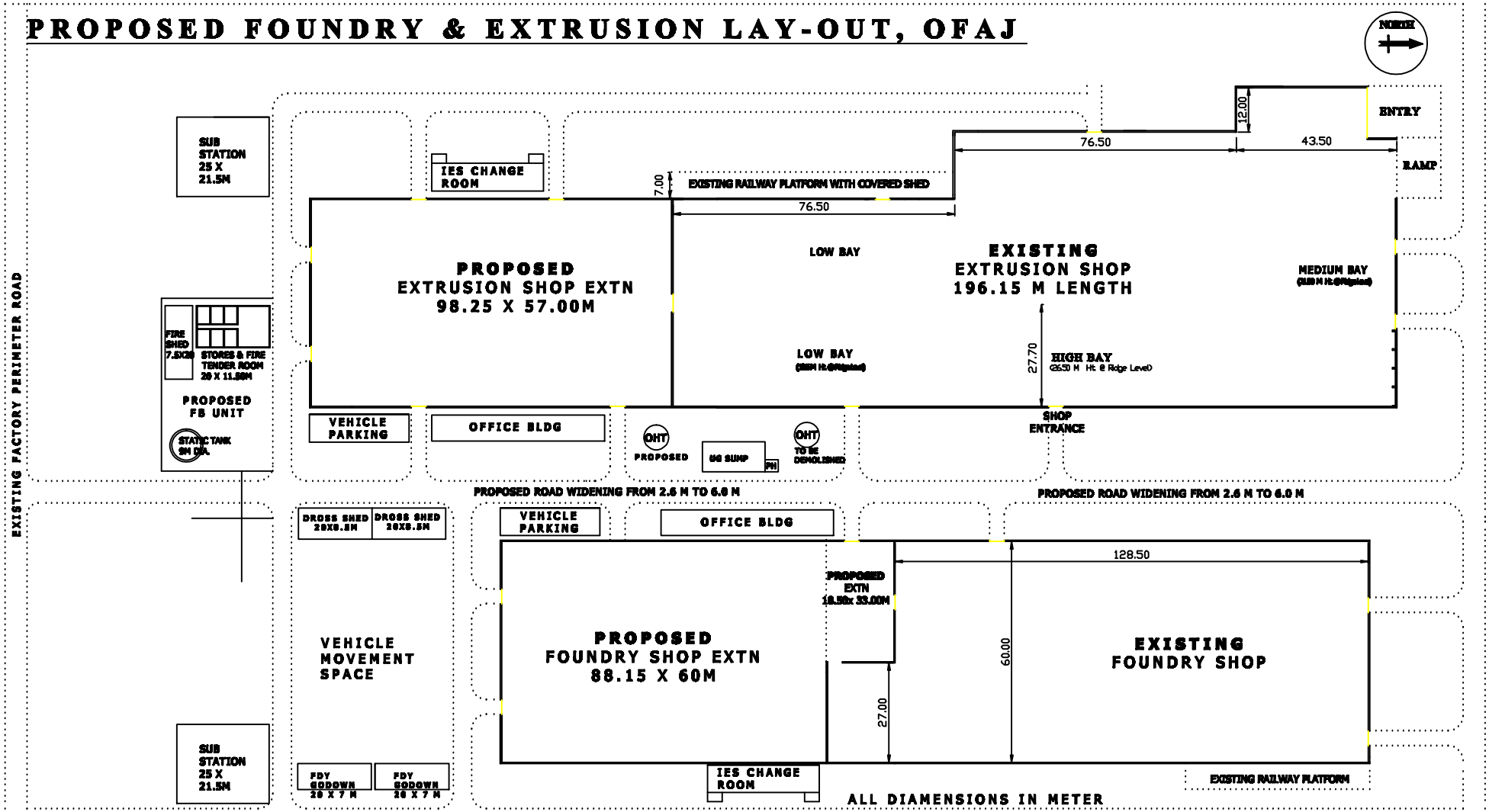
# EXISTING FOUNDRY & EXTRUSION LAY-OUT, OFAJ




ALL DIAMENSIONS IN METER

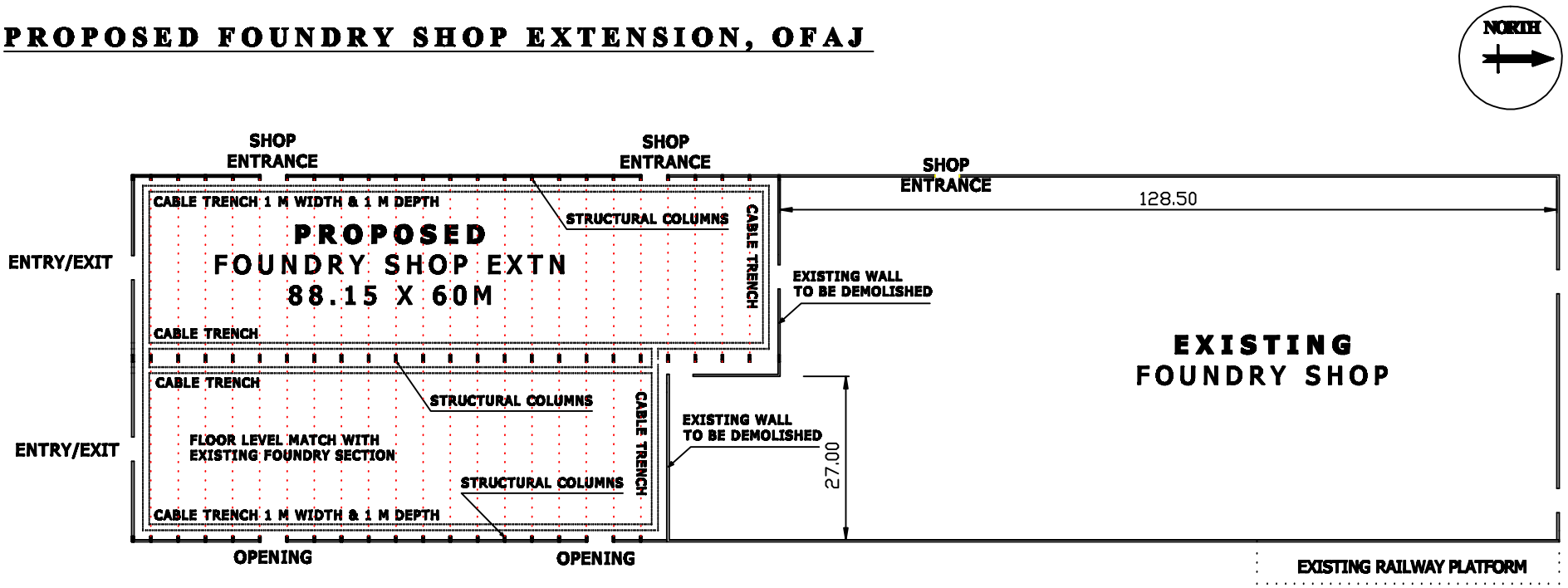
Drg. No.: Existing Layout FDY & EXTR/OFAJ/01

# PROPOSED FOUNDRY & EXTRUSION LAY-OUT, OFAJ




Drg. No.: Proposed Layout FDY & EXTR/OFAJ/02

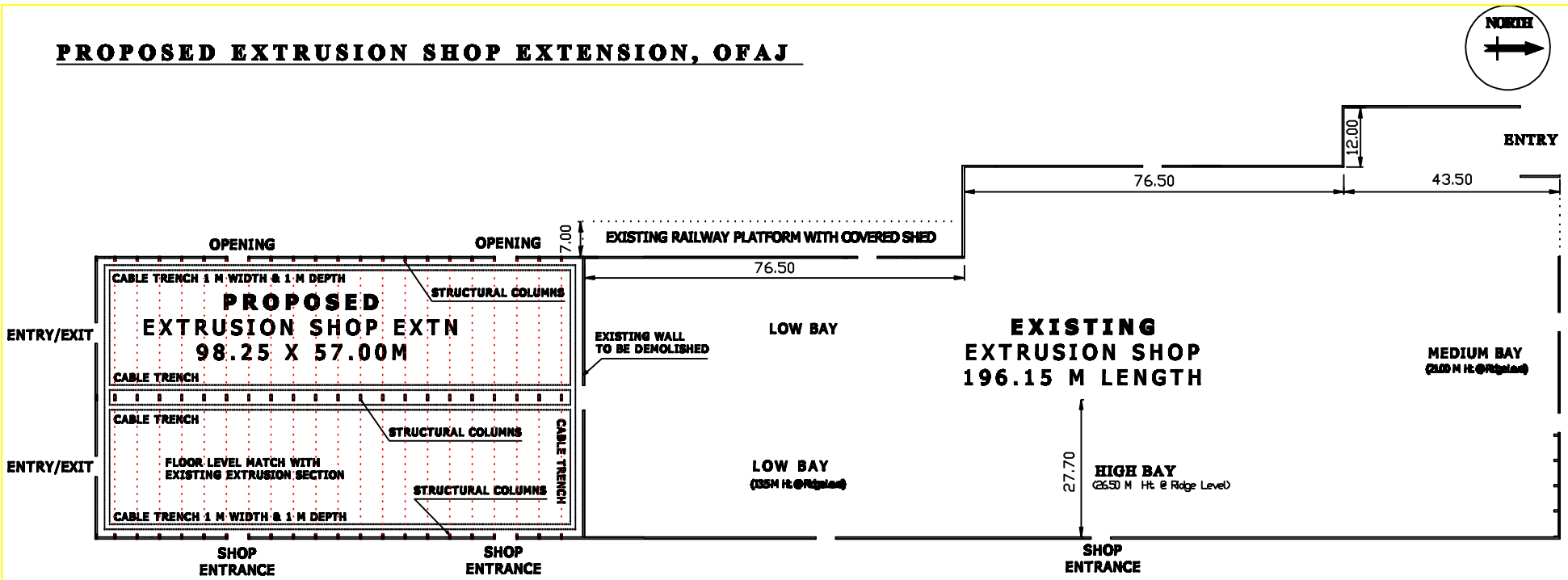
# PROPOSED FOUNDRY SHOP EXTENSION, OFAJ




ALL DIAMENSIONS IN METER

Drg. No.: GA of Foundry Extension/OFAJ/03

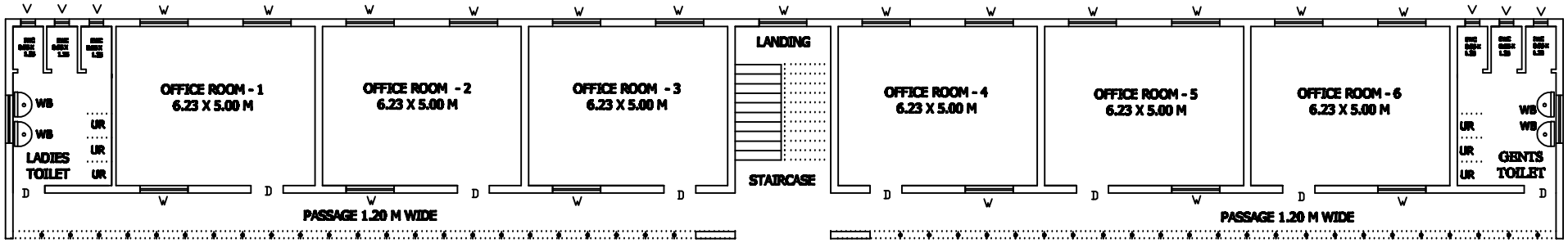
# PROPOSED EXTRUSION SHOP EXTENSION, OFAJ



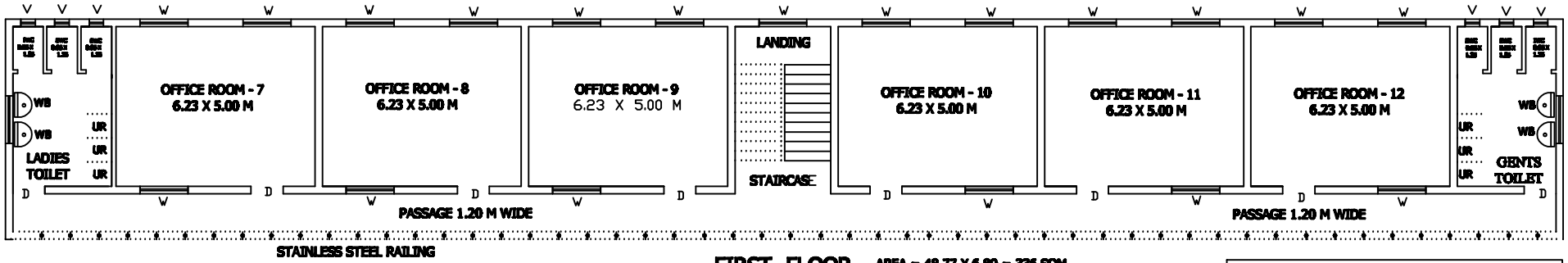

Drg. No.: GA of Extrusion Extension/OFAJ/04

ALL DIAMENSIONS IN METER

**Name of work**: Provision of Office Bldg. for Proposal of Extension of Foundry Shop & Extrusion Shop at O. F. Ambajhari. (Ground & First Floor for Each Shop)



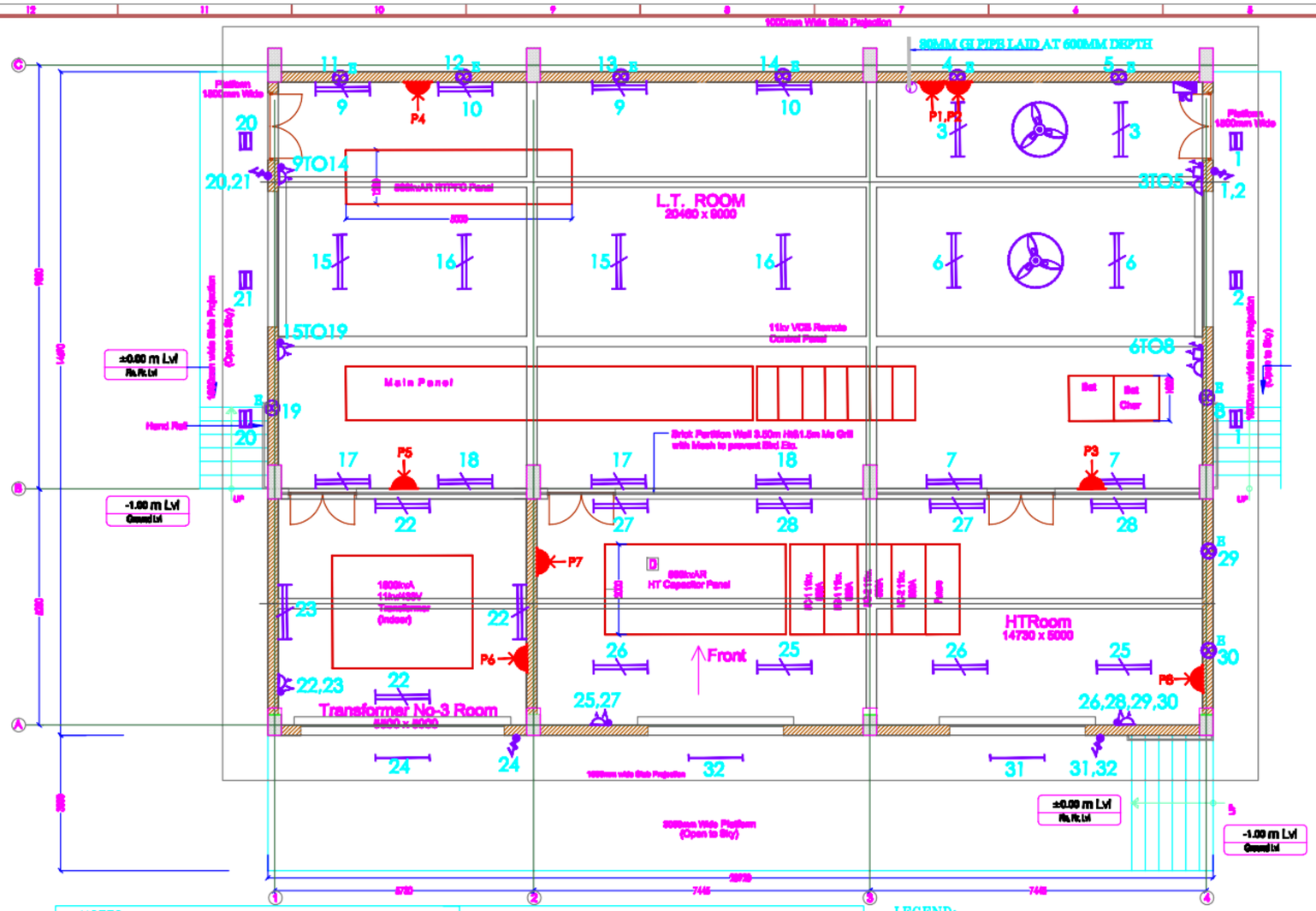

GROUND FLOOR AREA = 48.77 X 6.89 = 336 SQM




FIRST FLOOR AREA = 48.77 X 6.89 = 336 SQM

ALL DIAMENSIONS IN METER

**Drg. No.: GA of Office Bldg/OFAJ/05**




| LDB1: | | | C.L: 11900 Watts | | |
|---|---|---|---|---|---|
| 6WAY TPNMCBDB | | INCOMING 63A FP | | RCBO | |
| CKT. NO. | RATING | LOCATION ROOM | LOAD R PHASE | LOAD Y PHASE | LOAD B PHASE |
| 1 | 6A | 1 TO 5 | 575 | | |
| 2 | 6A | 6 TO 8 | | 520 | |
| 3 | 6A | 9 TO 14 | | 740 | |
| 4 | 6A | 15 TO 21 | | 755 | |
| 5 | 6A | 22 TO 24 | 370 | | |
| 6 | 6A | 25,27,31,32 | | | 400 |
| 7 | 6A | 26,28,29,30 | | | 540 |
| 8 | 16A | P1,P2 | 2000 | | |
| 9 | 16A | P3 | | | 1000 |
| 10 | 16A | P4 | | | 1000 |
| 11 | 16A | P5 | 1000 | | |
| 12 | 16A | P6,P7 | | 2000 | |
| 13 | 16A | P8 | | | 1000 |
| 14 | 16A | SPARE | | | |
| 15 | 16A | SPARE | | | |
| 16 | 6A | SPARE | | | |
| 17 | 6A | SPARE | | | |
| 18 | 6A | SPARE | | | |
| TOTAL | | | 3945 | 4015 | 3940 |

**General Notes**

1. All dimensions are in millimeters and levels (elevations) are indicated in meters, unless otherwise indicated. Only figured dimensions shall be followed. do not scale the drawing.
2. Read the drawing in conjunction with:
   a) All corresponding architectural dwgs.
   b) All corresponding structural dwgs.
   c) The corresponding contour & survey plans.
3. The arrangements/sizes of columns, beams, slabs, etc, shown in the architectural dwgs. are only indicative,meant only for reference.
4. The arrangement of the same shall be followed only from the structural drawings.

FOR APPROVAL

| Rev. | Date | Description |
|---|---|---|

**EXTENSION OF FOUNDRY AND EXTRUSION SECTION FOR NEW 10000 TON CAPACITY PRESS ALONG WITH UP & DOWN STREAM FACILITIES PROJECT AT ORDNANCE FACTORY AMBAJHARI, NAGPUR**

Drawing Title :

**General Arrangement (GA) drawing for proposed Foundry Electrical Substation Building.**

**Drg No: Foundry E-Sub st/OFAJ/06-A**

| Date | Scale | Status |
|---|---|---|
| | | |

File name : ambi

A1

NOTES:

1) ALL MATERIALS USED FOR ELECTRICAL WORKS SHALL CONFORM TO RELEVANT IS SPECIFICATIONS AND WIRING SHALL BE CARRIED OUT AS PER IS:732 & NATIONAL ELECTRICAL CODE
2) ALL CONDUITS SHALL BE HEAVY GUAGE FRLS PVC AND MINIMUM 25MM DIA SIZE ONLY.
3) THE NUMBER OF WIRES THAT CAN BE DRAWN THROUGH A CONDUIT ARE GIVEN BELOW.

| | 1.5SQMM | 2.5SQMM | 4SQMM | 6SQMM | 10SQMM |
|---|---|---|---|---|---|
| 25MM | 9 | 8 | 5 | 4 | 3 |
| 32MM | 13 | 12 | 9 | 8 | 6 |

4) THE SIZE OF WIRES FOR VARIOUS POINTS SHALL BE AS FOLOWS.

A) FOR LIGHT/FAN/5A SOCKET POINTS:
(FROM DB TO SWITCH BOARD)
2RUNS OF 2.5SQMM MULTISTRAND COPPER CONDUCTOR FRLS INSULATED WIRES WITH ONE RUN OF 1.5SQ.MM EARTH WIRE

B) FOR LIGHT/FAN/5A SOCKET POINTS:
(FROM SWITCH BOARD TO POINT)
2RUNS OF 1.5SQMM MULTISTRAND COPPER CONDUCTOR FRLS INSULATED WIRES WITH ONE RUN OF 1.5 SQ.MM EARTH WIRE

C) FOR 15A SOCKET OUTLETS:
2RUNS OF 4SQMM MULTISTRAND COPPER CONDUCTOR FRLS INSULATED WIRES WITH ONE RUN OF 2.5SQ.MM EARTH WIRE

D) FOR LDB:
4RUNS OF 6SQMM MULTISTRAND COPPER CONDUCTOR FRLS INSULATED WIRES WITH TWO RUNS OF 4SQ.MM EARTH WIRE

E) FOR PDB:
4RUNS OF 10SQMM MULTISTRAND COPPER CONDUCTOR FRLS INSULATED WIRES WITH TWO RUNS OF 6SQ.MM EARTH WIRE

5) FOR EVERY CIRCUIT, SEPERATE NEUTRAL & EARTH WIRES SHALL BE DRAWN ALONG WITH PHASE WIRE
6) THE FOLLOWING COLOUR CODING SHALL BE FOLLOWED FOR ALL WIRING :
   PHASES : RED/YELLOW/BLUE
   NEUTRAL: BLACK
   EARTH : GREEN
7) FOR TELEPHONE WIRING 2 PAIR 0.5MM DIA WIRE SHALL BE USED.
8) SEPARATE CONDUITS SHALL BE LAID FOR TELEPHONES/LAN.
9) ALL CEILING FANS SHALL BE FIXED WITH STANDARD DOWN ROD AND OF WHITE COLOUR UNLESS SPECIFIED OTHERWISE.
10) ALL DIMENSIONS ARE IN mm ONLY
11) READ THIS DRAWING TOGETHER WITH ARCH.DRGS..
12) ALL MOUNTING HEIGHTS MENTIONED ARE TO THE BOTTOM OF SWITCH BOARDS.
13) THE SAME NUMBER OF SWITCH FOR TWO LIGHTS IN A ROOM INDICATES GROUP CONTROL OF LIGHTS
14) POWER SOCKETS LOCATIONS SHALL BE FINALIZED BY USER/ENGINEER IN CHARGE.

**MOUNTING HEIGHTS (ABOVE FFL)**

| | |
|---|---|
| 1) LIGHTING SWITCH BOARDS | — 1350mm |
| 2) INDEPENDANT 5A/15A SOCKETS | — 600mm |
| 3) WALL BRACKET LIGHTS | — 2250mm |
| 4) TELEPHONE SOCKETS | — 600mm |
| 5) DISTRIBUTION BOARDS | — 1650mm |

**LEGEND:**

| | | |
|---|---|---|
| | LIGHT CONTROL SWITCH(ONEWAY) | |
| | ONE WAY 6A WEATHER PROOFSWITCH | 07NOS |
| | 5A SOCKET WITH SWITCH | DEP: 07NOS |
| | FAN REGULATOR | 02NOS |
| | 1200MM SWEEP CEILING FAN | 02NOS |
| E | 380MM SWEEP EXHAUST FAN | 10NOS |
| | 2X11W SURFACE MOUNTED CFL LIGHT FIXTURE (PHILIPS CAT NO: FCS031 2XPL-S/2P11W I 240V) | 06NOS |
| | 2X28W T5 INDUSTRIAL TYPE LIGHT FIXTURE WITH REFLECTOR (PHILIPS CAT NO: TMS122M 2XTL5-28W EBT) | 30NOS |
| | 28W WALL MOUNTED T5 BOX TYPE LIGHT FIXTURE (PHILIPS CAT NO: TWG207 1XTL528W HF) | 03NOS |
| | 16A SOCKET WITH SWITCH | 08NOS |
| | TELEPHONE OUTLET | 01NO |
| DB | LIGHTING & POWER MCB DISTRIBUTION BOARD | 01NO |

**Drg No: Foundry E-Sub st/OFAJ/06-A**

# General Arrangement (GA) drawing for proposed Extrusion Electrical Substation Building.

## Schedule of Finishes

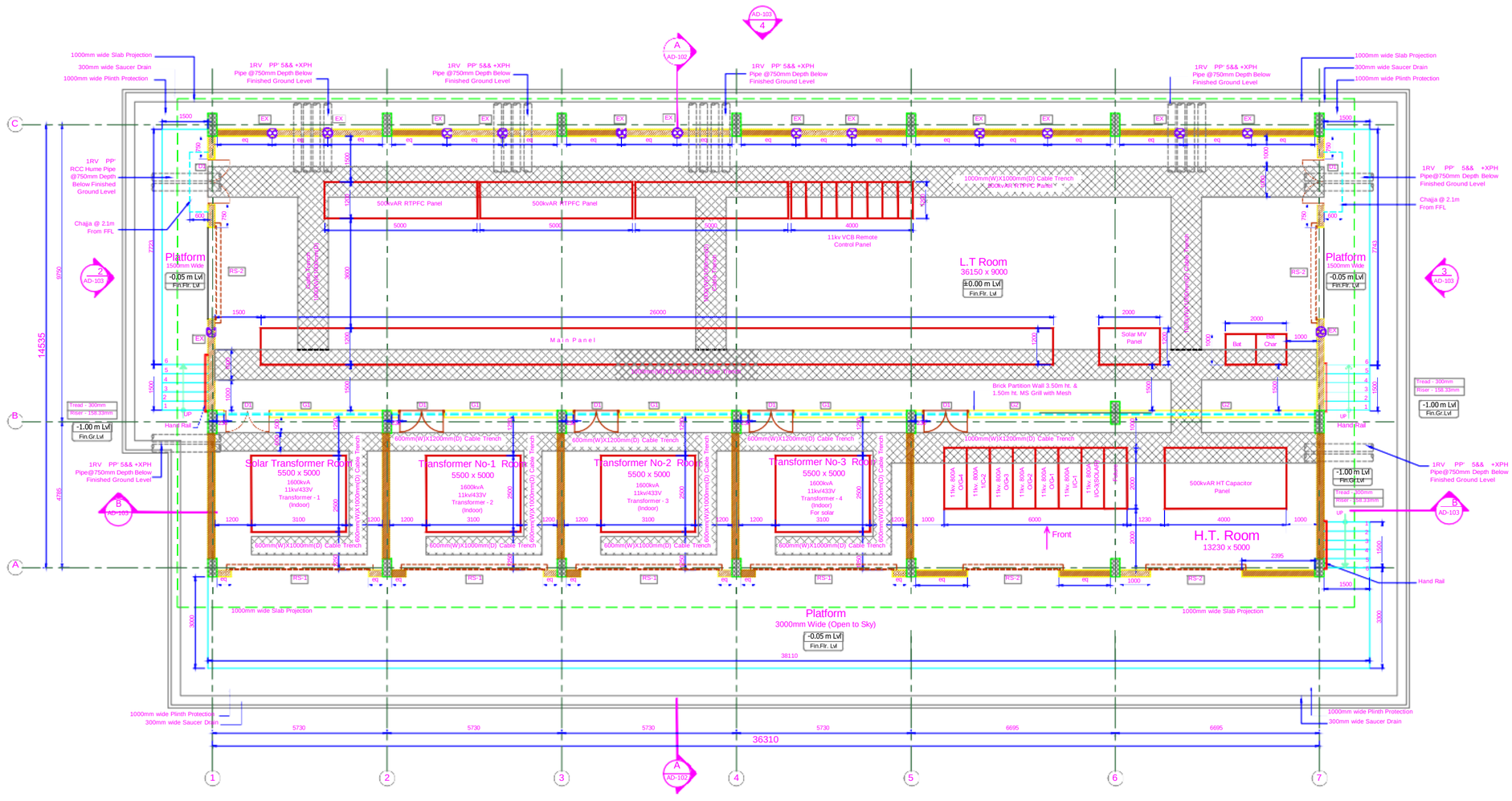
| Name of the Rooms | Type of Flooring |
|---|---|
| Steps & Platforms | Kota Stone Flooring |
| HT Panel Room | Granolithic Flooring |
| LT Panel Room | Granolithic Flooring |
| Transformer Rooms | Granolithic Flooring |

## Schedule Of Openings

| Type | Size | Description | Sill Top | Lintel Bot. |
|---|---|---|---|---|
| D1 | 1500x2100 | General Purpose Steel Double Shutter Door | | 2.10m From FFL |
| RS1 | 4500x4500 | MS Rolling Shutter with Grill. | | 4.50m From FFL |
| RS2 | 3000x4500 | MS Rolling Shutter with Grill. | | 4.50m From FFL |
| G1 | 5430x1500 | MS Grill With mesh | | Beam Bottom |
| G2 | 6395x1500 | MS Grill With mesh | | Beam Bottom |

## General Specifications

* Painting
  External : External Grade Cement Based Paint of Approved Shade
  Internal : For Ceiling - White Wash
  : For Walls - O.B.D of Approved Shade
* Super Structure
  230mm Brick Masonry
* Handrail
  40mm Ø MS Pipe Handrail @ 900 From FFL.
* Skirting
  Skirting 125mm Ht., Relavent Flooring Material as/spec.
* Terrace Treatment
  Sloped Roof Terrace Shall be Finish Water Proofing Treatment as/spec.




**Floor Plan @ ±0.00m lvl**

## General Notes

1. All dimensions are in millimeters and levels (elevations) are indicated in meters, unless otherwise indicated. Only figured dimensions shall be followed. do not scale the drawing.
2. Read the drawing in conjunction with:
   a) All corresponding architectural dwgs.
   b) All corresponding structural dwgs.
   c) The corresponding contour & survey plans.
3. The arrangements/sizes of columns, beams, slabs, etc, shown in the architectural dwgs. are only indicative,meant only for reference.
4. The arrangement of the same shall be followed only from the structural drawings.

Good for Construction

| | Date | Description |
|---|---|---|
| | | |

**PROJECT FOR:**
**EXTENSION OF FOUNDRY AND EXTRUSION SECTION FOR NEW 10000 TON CAPACITY PRESS ALONG WITH UP & DOWN STREAM FACILITIES PROJECT AT ORDNANCE FACTORY AMBAJHARI, NAGPUR**

Drawing No.:

Drg No: Extrusion E-Sub st/OFAJ/06-B

Client :

| Date | Scale | Status | |
|---|---|---|---|
| | 1:75 | | |
| Drawn | Designation | Checked | Approved |
| | | | |
| Project no. | Drawing no. | | Rev. |
| | | | 0 |

File name :

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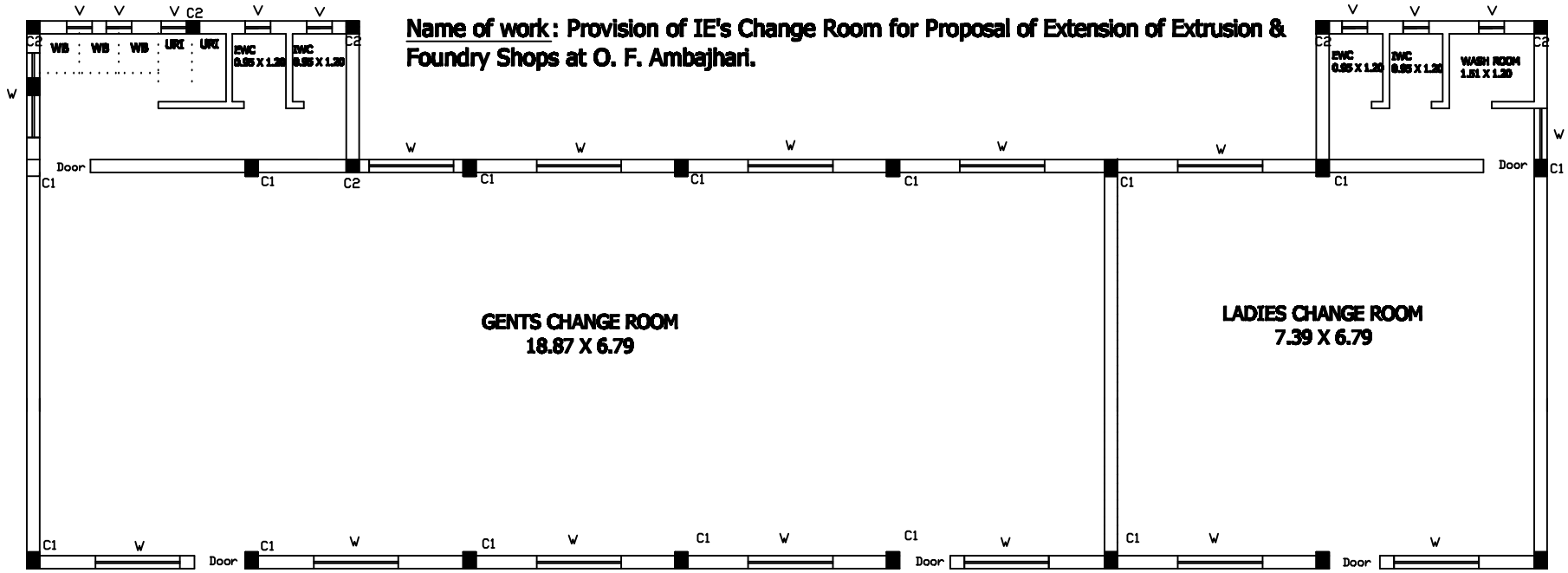
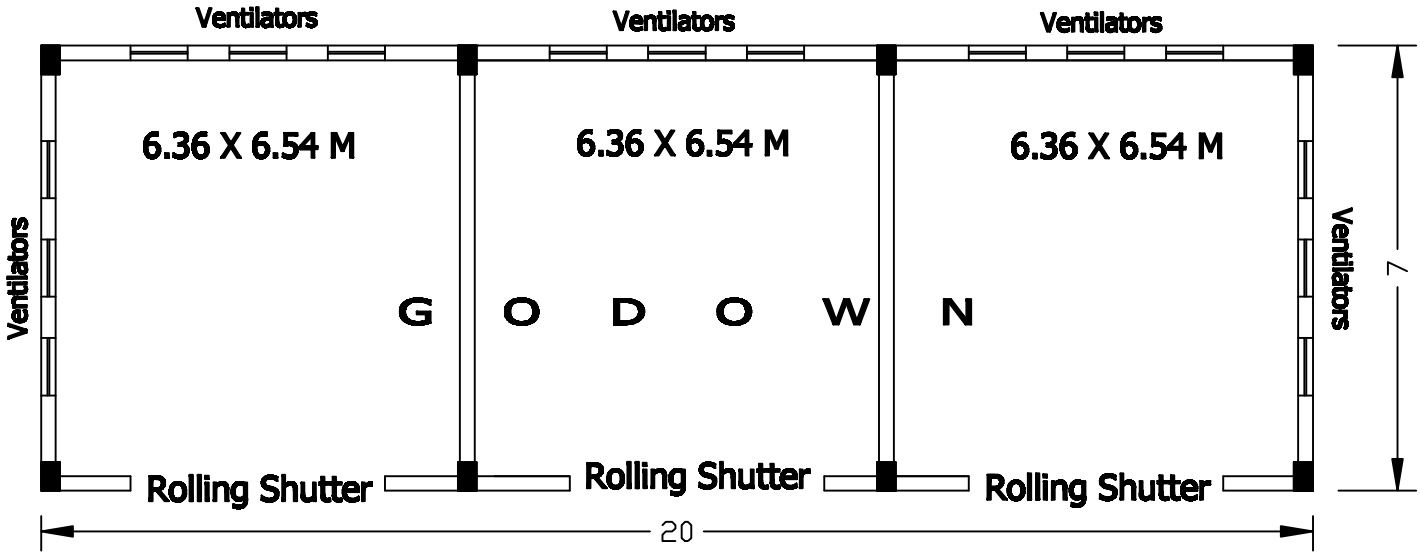



ALL DIAMENSIONS IN METER

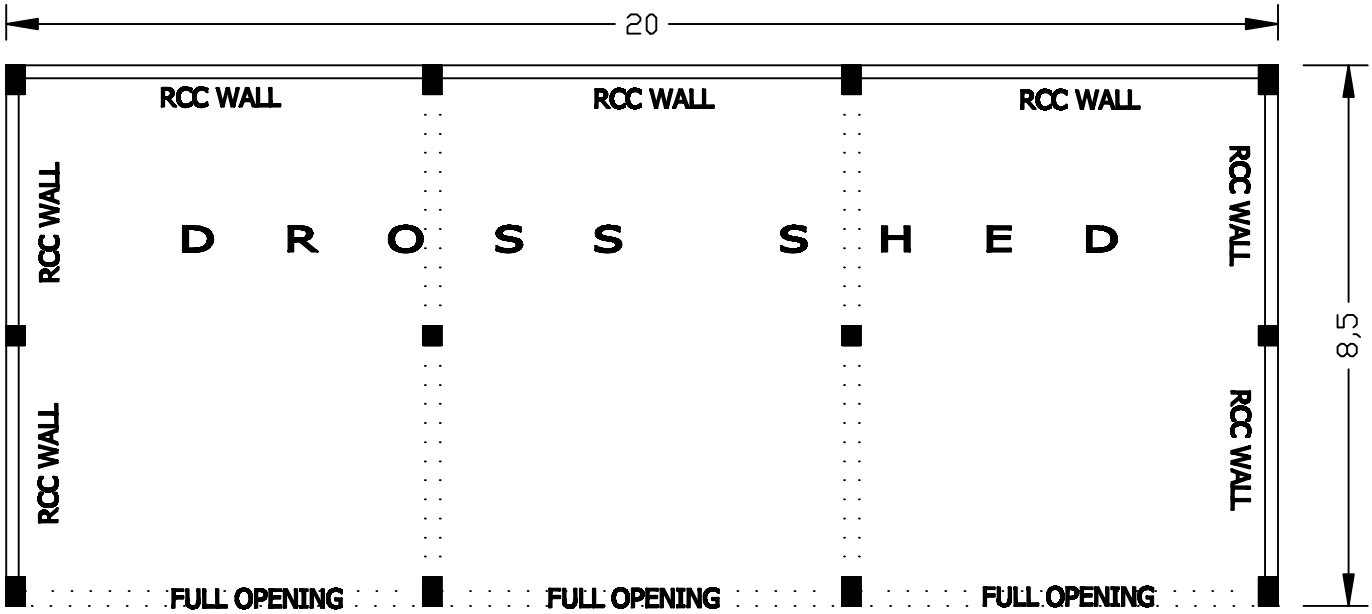
**Drg. No.: GA of IE's Room Bldg/OFAJ/07**

**Name of work**: Provision of Godown Bldg. (2 Nos. of Size 20 x 7 mtr) and Dross Shed (2 Nos. of Size 20 x 8.5 mtr) for proposal of Extension of Fdy. & Extrusion Shop at OFAJ.




**NOTE :**

1. RCC FRAME STRUCTURE WITH 4.5 M HEIGHT OF SLAB ABOVE FINISH FLOOR LEVEL.
2. FINISH FLOOR LEVEL MIN. 450MM ABOVE GROUND LEVEL.
3. RCC FLOORING.
4. MECHANICAL OPERATED ROLLING SHUTTER OF SIZE 4.0 X 4.5 MTR, 3 Nos.
5. M.S. GLASS LOUVERS VENTILATORS - 15 NOS. OF SIZE 0.9 X 0.6 MTR
6. PLINTH PROTECTION OF CONCRETE 1.2 M WIDE
7. FRONT MOVING AREA RCC PAVING CONCRETE OF 150MM THICK.




**NOTE :**

1. RCC FRAME STRUCTURE WITH 5.50 M HEIGHT OF SLAB ABOVE FINISH FLOOR LEVEL.
2. FINISH FLOOR LEVEL MIN. 450MM ABOVE GROUND LEVEL.
3. RCC FLOORING.
4. OUTER WALL RCC OF 200MM THICKNESS.
5. M.S. GRILL VNTILATOR ON OUTER WALL OF 1.5 MTR HEIGHT.
6. PLINTH PROTECTION OF CONCRETE 1.2 M WIDE
7. FRONT MOVING AREA RCC PAVING CONCRETE OF 150MM THICK.

**Drg. No.: GA of Scrap & Dross Shed/OFAJ/08**

ALL DIAMENSIONS IN METER