FLOOR PLAN DETAIL

Schedule of Door & Windows

<table>
<thead>
<tr>
<th>Name</th>
<th>Lintel</th>
<th>Width</th>
<th>Stll H</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>D1</td>
<td>2.10</td>
<td>0.90</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>D2</td>
<td>2.10</td>
<td>0.75</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>W1</td>
<td>2.10</td>
<td>1.50</td>
<td>0.90</td>
<td></td>
</tr>
<tr>
<td>W2</td>
<td>2.10</td>
<td>1.20</td>
<td>0.90</td>
<td></td>
</tr>
<tr>
<td>W3</td>
<td>2.10</td>
<td>0.90</td>
<td>0.90</td>
<td></td>
</tr>
<tr>
<td>V</td>
<td>2.10</td>
<td>0.60</td>
<td>1.80</td>
<td></td>
</tr>
</tbody>
</table>

NOTES:-
Clear height of DU = 2.85 m
Earthquake resistance structure as per site condition
* All the Dimensions in m

NOTES:-

- All dimensions are in m, unless wherever specified diameter of the bars shown in mm
- Dimensions are not to be scaled out, only written dimensions may be taken as correct.
- Nominal mix concrete 1:1.5:3 according to IS 456 Clause 9.3
- The reinforcement shall be of high strength deformed steel bars conforming to IS:1786-2008
- Lap length and development length (Ld) for 8 mm φ is 400 mm
- Second class brick must be used
- Mortar 1:5 according to Table 3 IS 4326-2013
- All walls are one Brick Thick Masonry walls or Autoclaved Aerated Block of Class 7.5
- Partition Wall of WC and Bath, toilet and passage shall be constructed till full height after slab casting
- Any discrepancy in the structural drawings should be correlated with architectural drawing.
- Refer DWG-2 to DWG-5 for earthquake resistance and structural detail.

DRG. No. - NIT/CED/2017/PMAY-OP3-MB-SR-ZIV/DWG-1

NATIONAL INSTITUTE OF TECHNOLOGY HAMIRPUR

BUILDING NAME:
PMAY HFA
OPTION 3
MASONRY BUILDING
SLOPING ROOF
ZONE IV

DRAWING TITLE:
FLOOR PLAN

DESIGNED BY:
Dr. Pardeep Kumar
Dr. Hemant Kumar Vinayak
ELEVATION

PLINTH LEVEL

FLOOR LEVEL

DPC

PLINTH BAND

0.23

2-8Ø BARS & stirrups 8mmØ @ 150mm C/C

PLINTH PROTECTION

0.3

SAND FILLING

0.6

BRICK MASONRY / RANDOM RUBBLE

0.46

PCC 1:3:6

0.58

SAND FILLING

0.70

FOOTING DETAILS

• All dimensions are in meters

Dr. Hemant Kumar Vinayak
Assistant Professor
Department of Civil Engineering
National Institute of Technology,
Hamirpur-177005 (H.P.)

Dr. Pardeep Kumar
Associate Professor (Structural Engg.)
Civil Engineering Department
NIT, Hamirpur (H.P.)-177005


NATIONAL INSTITUTE OF TECHNOLOGY HAMIRPUR

BUILDING NAME:
PMAY IFA
OPTION 3
MASONRY BUILDING
SLOPING ROOF
ZONE IV

DRAWING TITLE:
FOOTING DETAIL & ELEVATION

DESIGNED BY:
Dr. Pardeep Kumar
Dr. Hemant Kumar Vinayak
**DETAIL OF R/F AROUND DOOR**

- 1 nos 16mm Ø bar
- Lintel band 75mm depth
- Door opening
- Concrete mix 1:1.5:3
- 2 nos 8mm Ø bar +1 no 16mm Ø bar
- Brick work
- Plinth band 75mm depth

**SECTION A-A**

- 8 mm Ø bars
- Lateral ties of 8 mm Ø bar @ 150 mm

**SECTION B-B**

- 8 mm Ø bar @ 150 mm
- 16 mm Ø bar @ 115 mm
- U stirrups of 8 mm Ø bar
- 900 mm

**DETAIL OF PLINTH/LINTEL BAND**

- Longitudinal 8mm Ø bars
- 230 mm

**PLAN OF SILL LEVEL R/F**

- 8 mm Ø stirrups @ 150 mm
- U-Shape bars

**SECTION OF PLINTH/LINTEL BAND**

- All Dimensions are in mm

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**DETAILED DRAWING**

- Lap length and development length (Ld) for 8 mmØ is 400 mm.
- Clear cover for the band should be 30mm.

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**NATIONAL INSTITUTE OF TECHNOLOGY HAMIRPUR**

**DRAWING TITLE:**
- DETAILS OF R/F AROUND WINDOW & DOOR, VERTICAL R/F, CROSS SECTION OF BAND

**DESIGNED BY:**
- Dr. Pardeep Kumar
- Dr. Hemant Kumar Vinayak
Elevation
Detail 3

Plan
Detail 3

Detail 1

Plan
Detail 4

NOTES:-
1. All dimensions are in mm unless specified.
2. Dimensions are not to be scaled out, only written dimensions may be taken as correct.
4. Any discrepancy in structural Drawings should be correlated with Architectural drawing.
5. Scale: Not to scale
6. Truss has been designed for 0.3m snow depth

SR. NO.

NATIONAL INSTITUTE OF TECHNOLOGY HAMIRPUR

BUILDING NAME:
PMAY HFA
OPTION 3
MASONRY BUILDING
SLOping ROOF
ZONE IV

DRAWING TITLE:
CROSS SECTION OF TRUSS

DESIGNED BY:
Dr. Pardeep Kumar
Dr. Hemant Kumar Vinayak