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 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 (L_d) for 8 mm Ø 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.

Schedule of Door & Windows

<table>
<thead>
<tr>
<th>Name</th>
<th>Lintel</th>
<th>Width</th>
<th>Sill</th>
<th>M</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>D1</td>
<td>2.10</td>
<td>0.90</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>D2</td>
<td>2.10</td>
<td>0.75</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>W1</td>
<td>2.10</td>
<td>1.50</td>
<td>0.90</td>
<td></td>
<td></td>
</tr>
<tr>
<td>W2</td>
<td>2.10</td>
<td>1.30</td>
<td>0.90</td>
<td></td>
<td></td>
</tr>
<tr>
<td>W3</td>
<td>2.10</td>
<td>0.90</td>
<td>0.90</td>
<td></td>
<td></td>
</tr>
<tr>
<td>V</td>
<td>2.10</td>
<td>0.60</td>
<td>1.80</td>
<td></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

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Civil Engineering Department
NIT, Hamirpur (H.P) - 177005

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

NATIONAL INSTITUTE OF TECHNOLOGY HAMIRPUR

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

DRAWING TITLE:
FLOOR PLAN

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

- 2-10Ø BARS & stirrups 8mmØ @ 150mm C/C
- Sand filling
- Clear cover for the reinforcement should be 30 mm.
- In case of foundation to be constructed in expansive soil

FOOTING DETAILS

- All dimensions are in meter.

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**CORNER VERTICAL STEEL**

a & b : alternate courses in one brick wall

- 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

**INTERMEDIATE VERTICAL STEEL**

a & b : alternate courses in one brick wall

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

**DETAIL OF R/F AROUND DOOR**

- Section A-A

**SECTION A-A**

- 8mm Ø bar @ 150mm
- 16mm Ø bar
- 115mm
- 75mm

**SECTION B-B**

- U stirrups of 8mm Ø bar
- 900mm
- 900mm

**DETAIL OF PLINTH/LINTEL BAND**

- Longitudinal bars of 10 mm Ø bars
- Lateral ties of 8 mm Ø bar @ 150 mm
- 300 mm

**PLAN OF SILL LEVEL R/F**

- 8mm Ø stirrups @ 150mm
- 230
- 230
- 300-60-

**SECTION OF PLINTH/LINTEL BAND**

All Dimensions are in mm

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**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

---

**NATIONAL INSTITUTE OF TECHNOLOGY HAMIRPUR**

**BUILDING NAME:**

PMAY HFA
OPTION 3
MASONRY BUILDING
SLOPING ROOF
ZONE V

**DRG. No.:** NIT/CED/2017/PMAY-OP3-MB-SR-ZV/DWG-3
### Details

**Typical Details of Wall Depth**

<table>
<thead>
<tr>
<th>Layer</th>
<th>Width (mm)</th>
<th>Depth (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>50 x 50</td>
<td>50</td>
</tr>
<tr>
<td>2</td>
<td>50 x 50</td>
<td>50</td>
</tr>
</tbody>
</table>

**Notes:**

- Truss has been designed for 0.3m snow depth.
- Scale: Not to scale.
- All dimensions in mm unless specified.