NOTE:

- 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 (Ld) 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-4 for earthquake resistance and structural detail.

Schedule of Door & Windows

<table>
<thead>
<tr>
<th>Name</th>
<th>Lintel</th>
<th>Width</th>
<th>Sill 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

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BRG. No. - NIT/CED/2017/PMAY -OP3-MB-FR-ZV/DWG-1

NATIONAL INSTITUTE OF TECHNOLOGY HAMIRPUR

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

DRAWING TITLE:
FLOOR PLAN

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

- 2-100 BARS & stirrups 8mmØ @ 150mm C/C
- Plinth Band
- Sill Band
- Lintel Band

FOOTING DETAILS

- All dimensions are in meters
- Clear cover for the reinforcement should be 30 mm.
- In case of foundation to be constructed in expansive soil

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**CORNER VERTICAL STEEL**

a & b: alternate courses in one brick wall

**INTERMEDIATE VERTICAL STEEL**

a & b: alternate courses in one brick wall

**DETAIL OF R/F AROUND DOOR**

- Lap length and development length (Ld) for 10 mmØ is 500 mm.
- Clear cover for the band should be 30 mm.

**SECTION A-A**

- 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 B-B**

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

**DETAIL OF PLINTH/LINTEL BAND**

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

**PLAN OF SILL LEVEL R/F**

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

**SECTION OF PLINTH/LINTEL BAND**

- All Dimensions are in mm

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- Clear cover the slab should be 20mm.
- All dimensions are in meter

SCHEDULE OF BARS
a. 8 mm Ø @ 200 mm c/c