FLOOR PLAN 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>PVC DOOR</td>
</tr>
<tr>
<td>W2</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>1.65</td>
<td></td>
</tr>
</tbody>
</table>

NOTES:-
Clear height of DU = 2.85 m
Chajja projection over windows is 450 mm.
* All the Dimensions in m

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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 (Ld) for 8 mm Φ is 400 mm
- Second class brick must be used
- Mortar 1:5 as per Table 3 IS 4326-2013
- All walls are one Brick Thick Masonry walls or Autoclaved Aerated Block of Class 7.5
- 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-OP1-MB-SR-ZIV/DWG-1

NATIONAL INSTITUTE OF TECHNOLOGY HAMIRPUR
BUILDING NAME: PMAY HFA
OPTION 1
MASONRY BUILDING
SLOPING ROOF
ZONE IV

DRAWING TITLE: FLOOR PLAN

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

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.)
Department of Civil Engineering
National Institute of Technology
Hamirpur (H.R.)-177005
• In case of foundation to be constructed in expansive soil
• Clear cover for the reinforcement should be 30mm.

**FOOTING DETAILS**

- All dimensions are in meters.

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**ELEVATION**

- Roof Band
- Lintel Band
- Sill Band
- Plinth Band

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**PCC 1:3:6**

- Sand Filling
- Brick Masonry / Random Rubble
- DPC
- 0.35
- 0.46
- 0.58
- 0.70

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**FLOORING**

- Plinth protection
- 0.6
- Sand filling
- 0.3

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**DRG. No. - NIT/CED/2017/PMAY-OP1-MB-SR-ZIV/DWG-2**

**NATIONAL INSTITUTE OF TECHNOLOGY HAMIRPUR**

**BUILDING NAME:**
PMAY HFA
OPTION I
MASONRY BUILDING
SLOPING ROOF
ZONE IV

**DRAWING TITLE:**
FOOTING DETAIL & ELEVATION

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

---

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

**Dr. Pardeep Kumar**
Associate Professor (Structural Engrg.)
Department of Civil Engineering
National Institute of Technology, Hamirpur (H.P.)-177005
**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**

**SECTION A-A**

**SECTION B-B**

**DETAIL OF PLINTH/ LINTEL/ ROOF/GABLE BAND**

**PLAN OF SILL LEVEL R/F**

**SECTION OF PLINTH/ LINTEL/ A = 75 mm**

**ROOF/GABLE A = 100 mm BAND**

All Dimensions are in mm

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**DRG. No. - NIT/CED/2017/PMAY-OP1-MB-SR-ZIV/DWG-3**

**NATIONAL INSTITUTE OF TECHNOLOGY HAMIRPUR**

**BUILDING NAME:**
PMAY HFA
OPTION 1
MASONRY BUILDING
SLOPING ROOF
ZONE IV

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

**DESIGNED BY:**
Dr. Hemant Kumar Vinayak
Assistant Professor
Department of Civil Engineering
National Institute of Technology
ELEVATION OF TRUSS

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
Elevation
Detail 3

Plan
Detail 3

Plan
Detail 4

Detail 1

Detail 2

Sr. No. | 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.


NATIONAL INSTITUTE OF TECHNOLOGY HAMIRPUR

BUILDING NAME:
PMAY HFA
OPTION 1
MASONRY BUILDING
SLOPING ROOF
ZONE IV

DRAWING TITLE:
CROSS SECTION OF TRUSS

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

Dr. Hemant Kumar Vinayak
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National Institute of Technology, Hamirpur (H.P.-177005)

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