FLOOR PLAN DETAIL

Schedule of Door & Windows

<table>
<thead>
<tr>
<th>Name</th>
<th>Lintel</th>
<th>Width</th>
<th>Sill M</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>D1</td>
<td>2.10</td>
<td>0.90</td>
<td>--</td>
<td>PVC DOOR</td>
</tr>
<tr>
<td>D2</td>
<td>2.10</td>
<td>0.76</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>W3</td>
<td>2.10</td>
<td>0.60</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
Chajja projection over windows is 450 mm.
Confinement Column sizes: C1 - 230 mm X 230 mm, C2 - 230 mm X 150 mm, C3 - 115 mm X 115 mm

* 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 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 10mmØ is 500 mm
- Second class brick must be used
- Mortar 1:4 as per to Table 3 IS 4326-2013
- All walls are one Brick Thick Masonry walls or Autoclaved Aerated Block of Class 7.5
- All walls are one Brick Thick Masonry walls or Autoclaved Aerated Block of Class 7.5
- Refer DWG-2 to DWG-5 for earthquake resistance and structural detail.
- Ventilator size may be increased with a partially fixed portion to avoid giving two number of C-2 columns.

DRG. No. - NIT/CED/2017/PMAV
-0P1-CMB-SR-ZIV,V/DWG-1

NATIONAL INSTITUTE OF TECHNOLOGY HAMIRPUR

BUILDING NAME:
PMAV HFA
OPTION I
CONFINED MASONRY BUILDING
SLOPING ROOF
ZONE IV, V

DRAWING TITLE:
FLOOR PLAN

DESIGNED BY:
Dr. Pardeep Kumar
Hamirpur (H.P)-177005

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

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

4-10Ø BARS & stirrups 8mmØ @ 200mm C/C

Plinth Tie Beam

0.23

DPC

0.15

0.45

Floor lvl

G.L

Brick Masonry / Random Rubble

0.35

0.46

PCC 1:3:6

Sand Filling

0.58

0.70

FOOTING DETAILS

• All dimensions are in meter

Floors

plinth protection

0.3

0.6

Sand filling

• In case of foundation to be constructed in expansive soil


NATIONAL INSTITUTE OF TECHNOLOGY HAMIRPUR

BUILDING NAME:
PMAY HIFA
OPTION I
CONF. MASONRY BUILDING
SLOPING ROOF
ZONE IV,V

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 Engg.)
Civil Engineering Department
NIT, 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 CONFINED
R/F OF DOOR

DETAIL OF CONFINED
R/F OF WINDOW

"A" = Closer ties = Spacing of hoops @ 100mm c/c
"B" = Spacing of hoops @ 200mm c/c

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

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
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Civil Engineering Department
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Kumar Vinayak