

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 10 mm Φ is 500 mm
- Second class brick must be used
- Mortar 1:4 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.

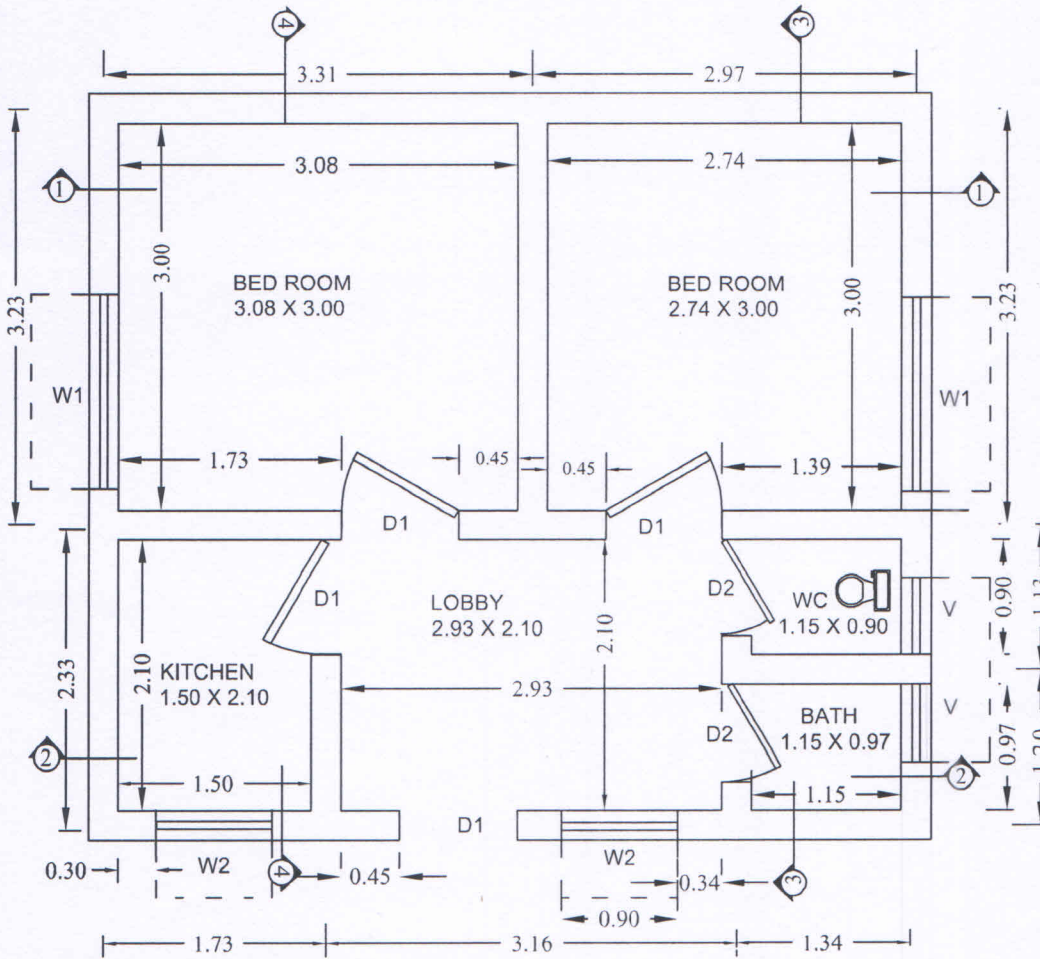
DRG. No. - NIT/CED/2017/PMAY-OP1-MB-SR-ZV/DWG-1

NATIONAL INSTITUTE OF TECHNOLOGY HAMIRPUR

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

DRAWING TITLE:
FLOOR PLAN

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



FLOOR PLAN DETAIL

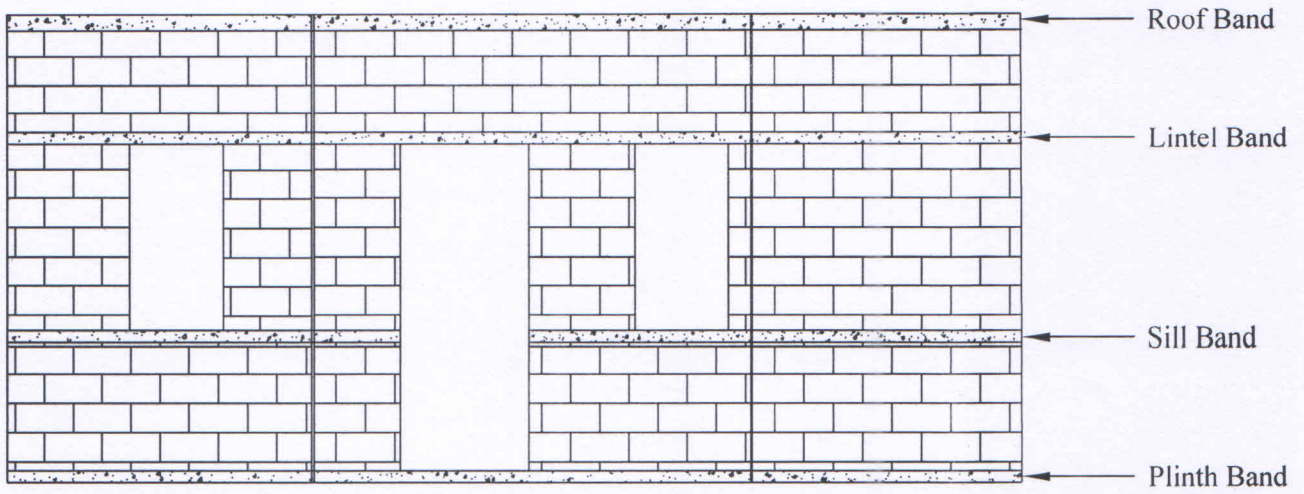
Schedule of Door & Windows

Name	Lintel	Width	Sill lvl	Description
D1	2.10	0.90	--	
D2	2.10	0.75	--	PVC DOOR
W1	2.10	1.50	0.90	
W2	2.10	0.90	0.90	
V	2.10	0.60	1.65	

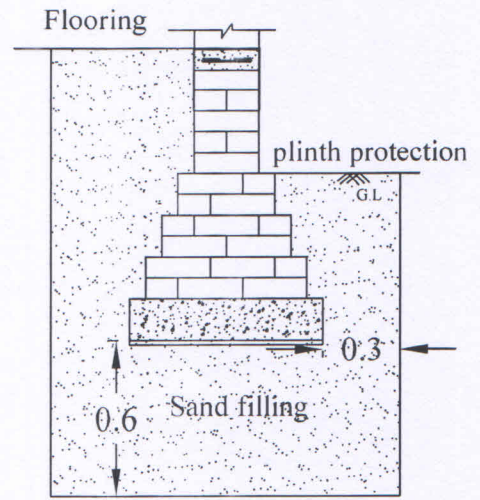
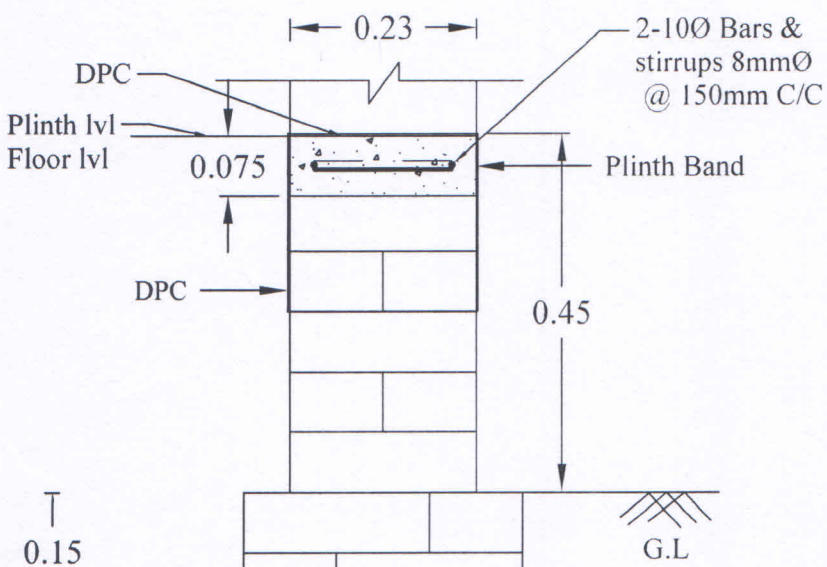
NOTES:-
Clear height of DU = 2.85 m
Chajja projection over windows is 450 mm .
* All the Dimensions in m

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

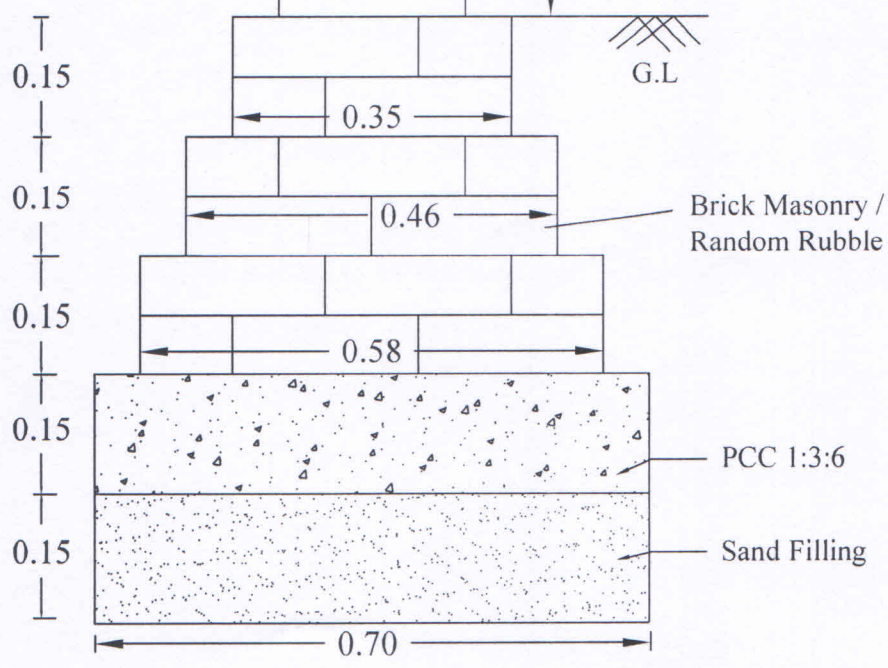
Pardeep Kumar
Dr. Pardeep Kumar
Associate Professor (Structural Engg.)
Civil Engineering Department
NIT, Hamirpur (H.P.)-177005



ELEVATION



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



FOOTING DETAILS

• All dimensions are in meter

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

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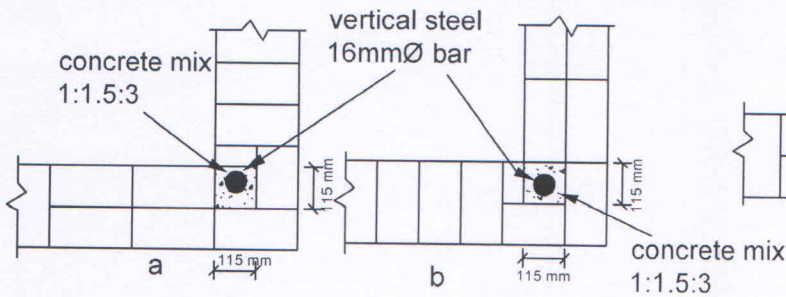
BUILDING NAME:
PMAY HFA
OPTION 1
MASONRY BUILDING
SLOPING ROOF
ZONE V

DRAWING TITLE:
FOOTING DETAIL &
ELEVATION

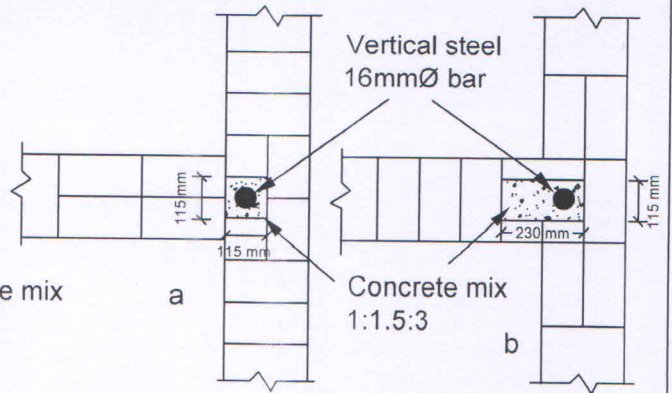
DESIGNED BY:
Dr. Pardeep Kumar
Dr. Hemant Kumar Vinayak

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

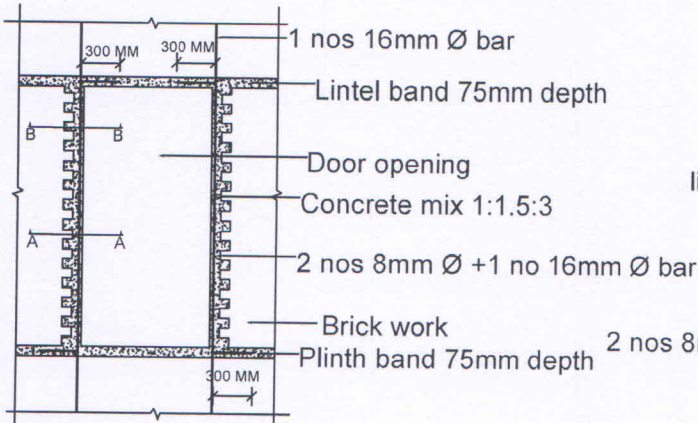
Dr. Pardeep Kumar
Dr. Pardeep Kumar
Associate Professor (Structural Engg.)
Civil Engineering Department
NIT, Hamirpur (H.P.)-177005



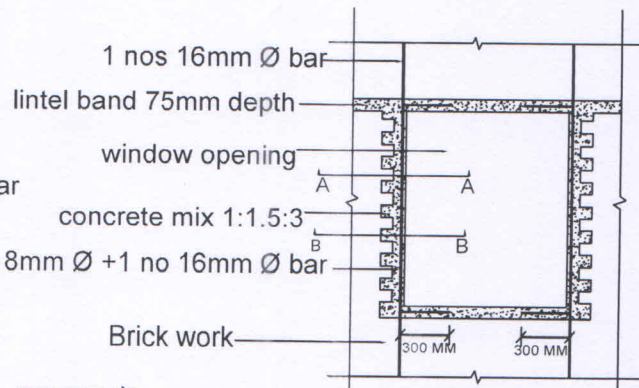
CORNER VERTICAL STEEL
a & b :- alternate courses in one brick wall



INTERMEDIATE VERTICAL STEEL
a & b :- alternate courses in one brick wall

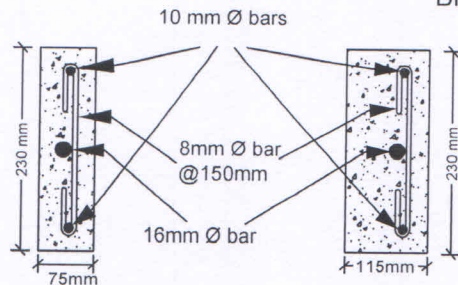


DETAIL OF R/F AROUND DOOR

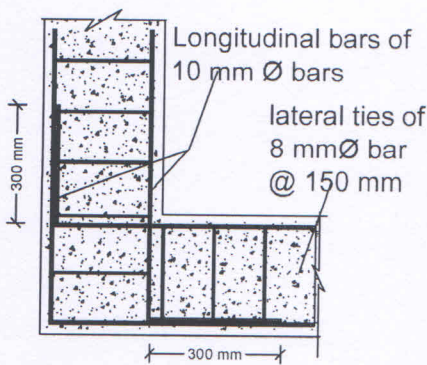


DETAIL OF R/F AROUND WINDOW

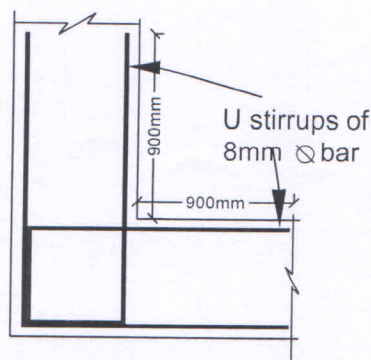
- Lap length and development length (L_d) for 10mm Φ is 500 mm
- Clear cover for band should be 30mm.



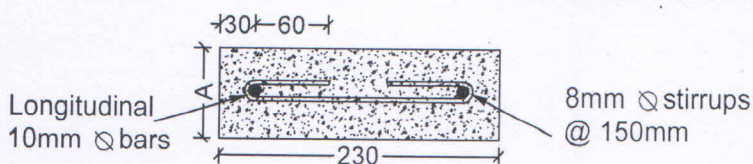
SECTION A-A **SECTION B-B**



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

DRG. No. - NIT/CED/2017/PMAY -OPI-MB-SR-ZV/DWG-3

NATIONAL INSTITUTE OF TECHNOLOGY HAMIRPUR

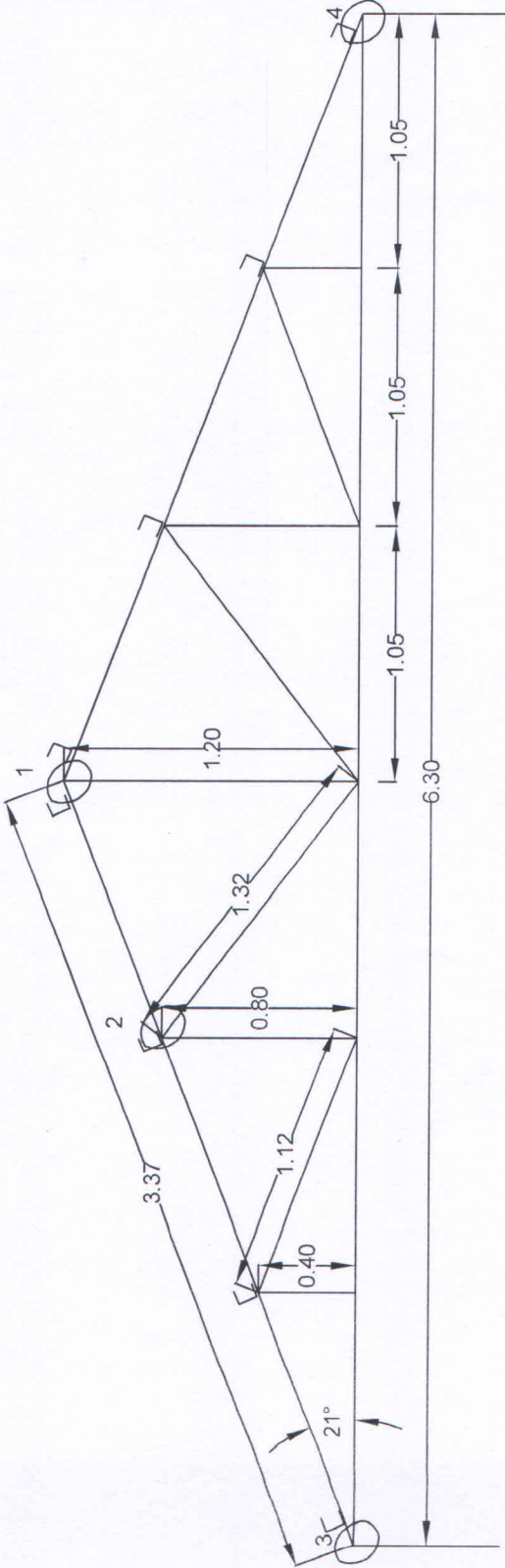
BUILDING NAME:
PMAY HFA
OPTION I
MASONRY BUILDING
SLOPING ROOF
ZONE V

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

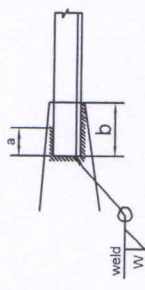
Hemant Kumar Vinayak
Dr. Hemant Kumar Vinayak
Assistant Professor
Department of Civil Engineering
National Institute of Technology,
Hamirpur -177005 (H.P.)

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

<p>DRG. No. - NIT/CED/2017/ PMAY -OPI-MB-SR-ZV/ DWG-4</p>	
<p>NATIONAL INSTITUTE OF TECHNOLOGY HAMIRPUR</p>	
<p>BUILDING NAME: PMAY HFA OPTION 1 MASONRY BUILDING SLOPING ROOF ZONE V</p>	
<p>DRAWING TITLE: ELEVATION OF TRUSS</p>	
<p>DESIGNED BY: Dr. Pardeep Kumar Dr. Hemant Kumar Vinayak</p>	<p style="text-align: center;"><u>ELEVATION OF TRUSS</u></p>

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

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

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.										
3.	Grade of concrete M:20.										
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										
7.	 <table border="1"> <thead> <tr> <th>ANGLE SIZE</th> <th>WELD THK W. mm</th> <th>a(mm)</th> <th>b(mm)</th> <th>GUSSET THK mm</th> </tr> </thead> <tbody> <tr> <td>L 50 x 50 x 5</td> <td>6</td> <td>50</td> <td>90</td> <td>8</td> </tr> </tbody> </table> TYPICAL DETAILS OF WELD LENGTH	ANGLE SIZE	WELD THK W. mm	a(mm)	b(mm)	GUSSET THK mm	L 50 x 50 x 5	6	50	90	8
ANGLE SIZE	WELD THK W. mm	a(mm)	b(mm)	GUSSET THK mm							
L 50 x 50 x 5	6	50	90	8							

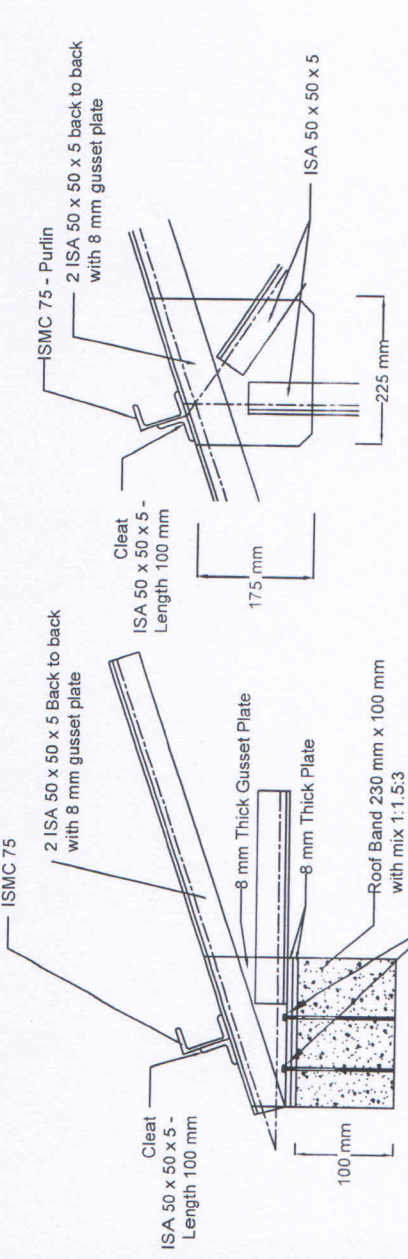
DRG. No. - NIT/CED/2017/PMAY -OP1-MB-SR-ZV/DWG-5

NATIONAL INSTITUTE OF TECHNOLOGY HAMIRPUR

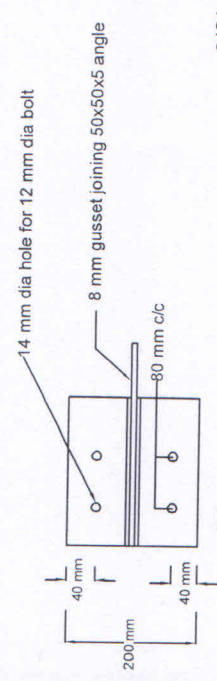
**BUILDING NAME:
PMAY HFA
OPTION 1
MASONRY BUILDING
SLOPING ROOF
ZONE V**

**DRAWING TITLE:
CROSS SECTION OF TRUSS**

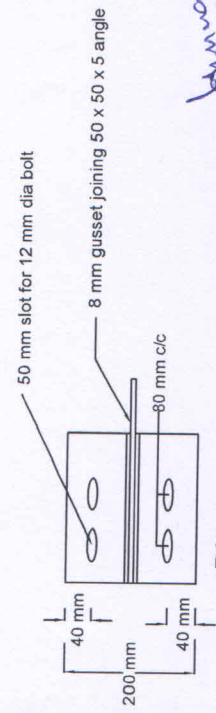
**DESIGNED BY:
Dr. Pardeep Kumar
Associate Professor (Structural)
Civil Engineering Department
NIT, Hamirpur (H.P.)-177005**



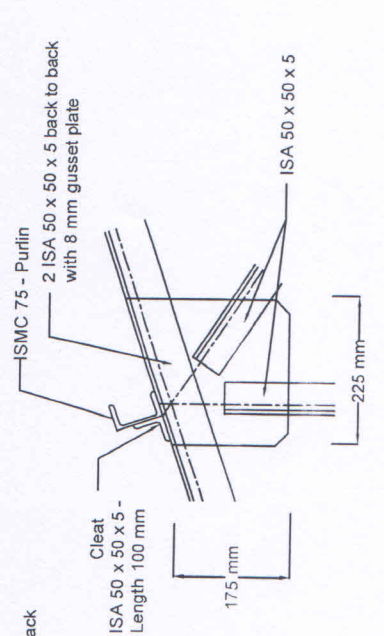
**Elevation
Detail 3**



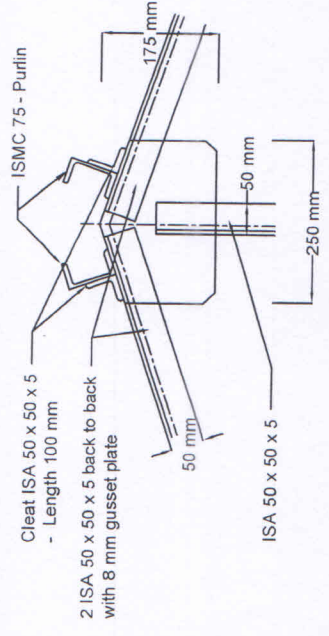
**Plan
Detail 3**



**Plan
Detail 4**



Detail 2



Detail 1

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

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