

Schedule of Door & Windows				
Name	Lintel	Width	Sill W	Description
D1	2.10	0.90	-	PVC DOOR
D2	2.10	0.75	-	
W1	2.10	2.00	0.90	
W2	2.10	1.50	0.90	
W3	2.10	1.40	1.20	
V	2.10	0.60	1.65	

NOTES:-  
 Clear height of DU = 2.85 m  
 Earthquake resistance structure as per site condition  
 \* 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 ( $L_d$ ) for 8 mm  $\phi$  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
- Any discrepancy in the structural drawings should be correlated with architectural drawing.
- Partition Wall of WC and Bath, Bath and Entry Passage, Kitchen and passage, Kitchen and WC, Passage and Bedroom shall be constructed till full height after slab casting
- Refer DWG-2 to DWG-4 for earthquake resistance and structural detail.

DRG. No. - NIT/CED/2017/PMAY  
 -OP2-MB-SR-ZV/DWG-1

NATIONAL INSTITUTE OF  
 TECHNOLOGY HAMIRPUR

BUILDING NAME:  
 PMAY HFA  
 OPTION 2  
 MASONRY BUILDING  
 SLOPING ROOF  
 ZONE V

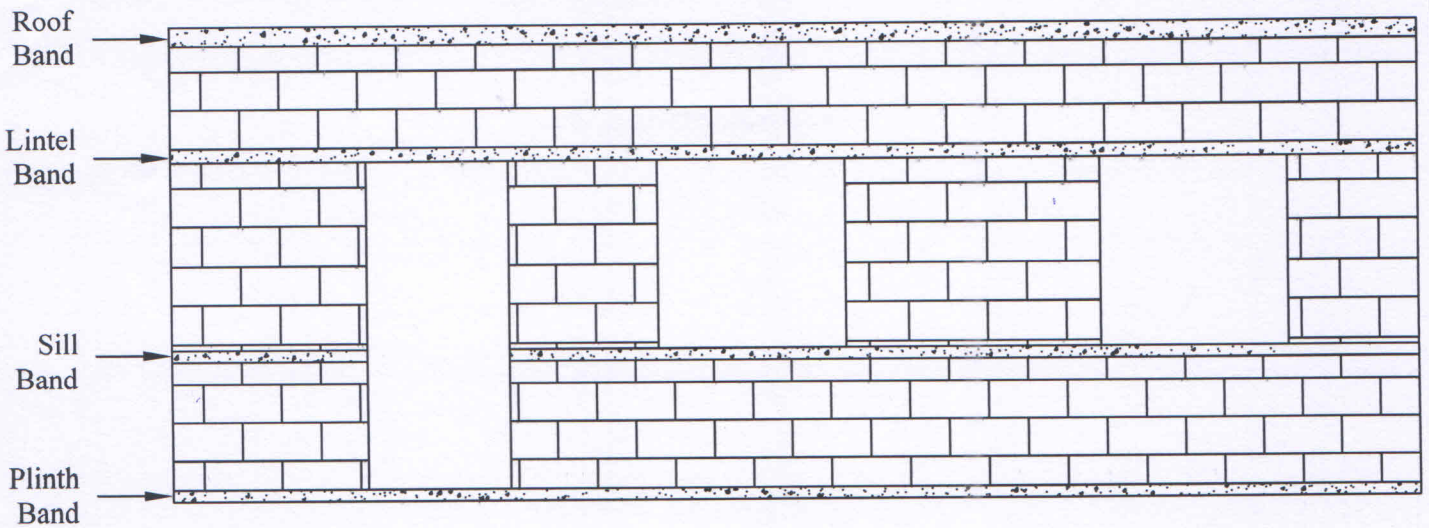
DRAWING TITLE:  
 FLOOR PLAN

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

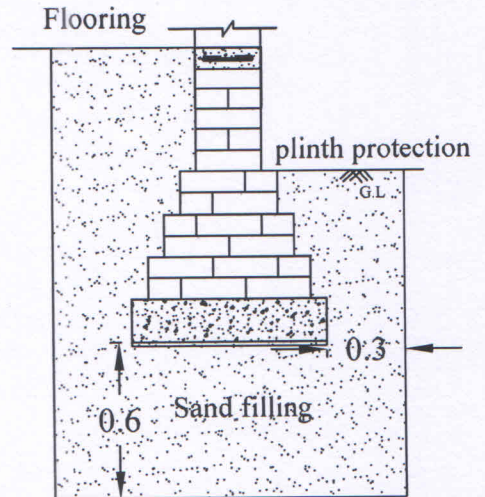
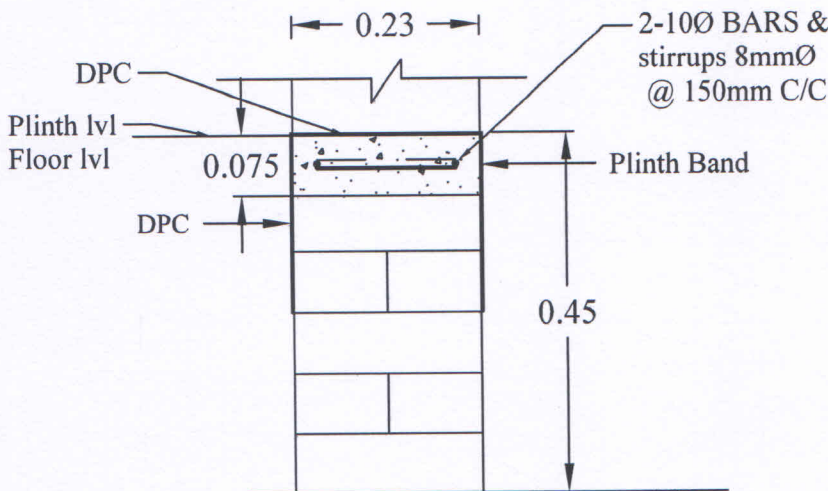
**Dr. Hemant Kumar Vinayak**  
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**Dr. Pardeep Kumar**  
 Associate Professor (Structural Engg.)  
 Civil Engineering Department  
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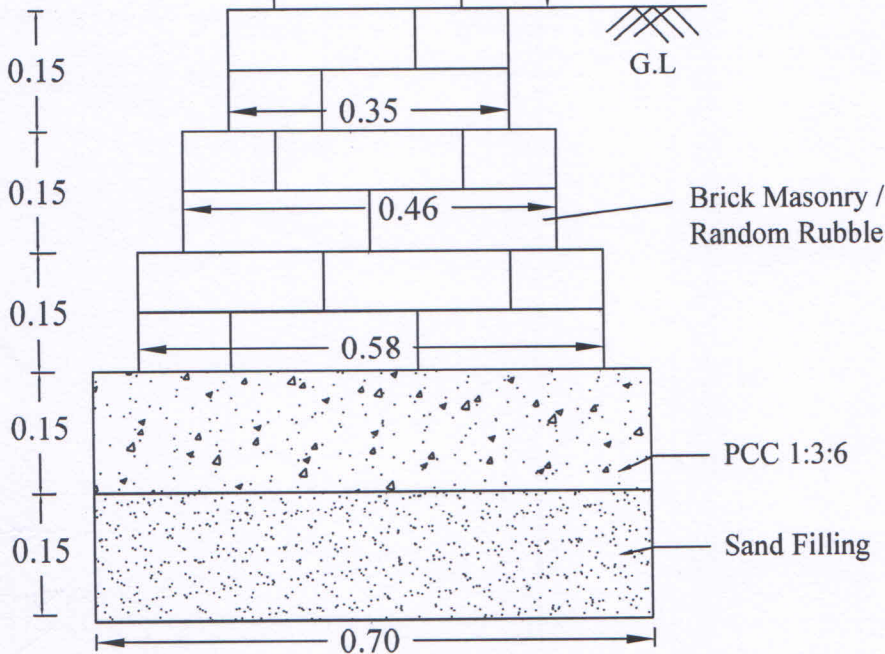




**ELEVATION**



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



**FOOTING DETAILS**

DRG. No. - NIT/CED/2017/PMAY  
-OP2-MB-SR-ZV/DWG-2

NATIONAL INSTITUTE OF  
TECHNOLOGY HAMIRPUR

BUILDING NAME:  
PMAY HFA  
OPTION 2  
MASONRY BUILDING  
SLOPING ROOF  
ZONE V

DRAWING TITLE:  
FOOTING DETAIL &  
ELEVATION

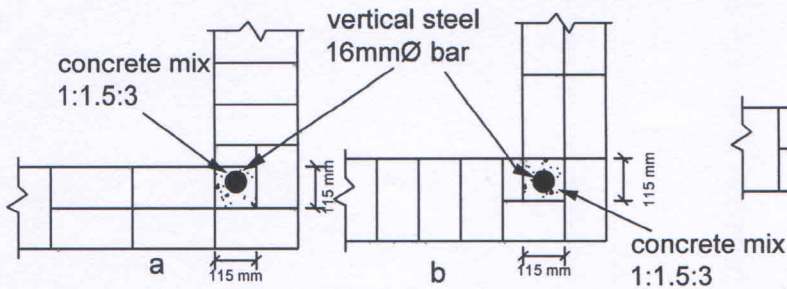
DESIGNED BY:  
Dr. Pardeep Kumar  
Dr. Hemant Kumar Vinayak

• All dimensions are in meter

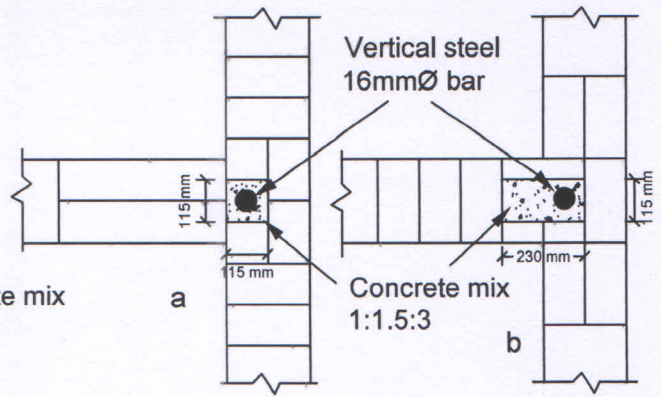
*Hemant Vinayak*  
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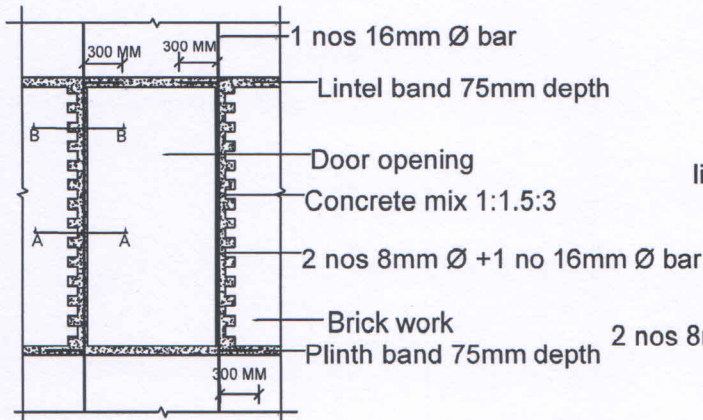




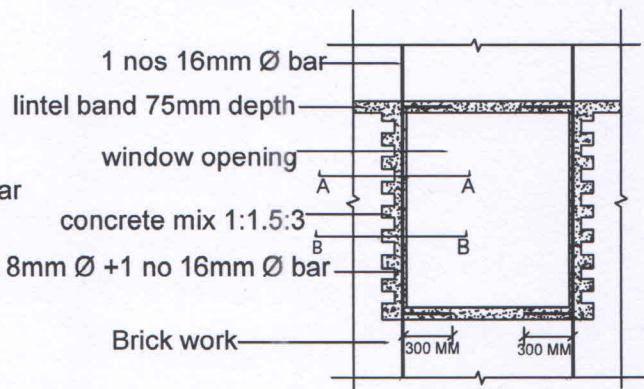
**CORNER VERTICAL STEEL**  
a & b :- alternate courses in one brick wall



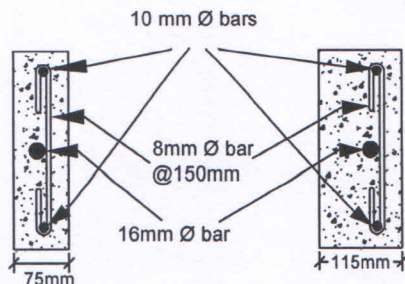
**INTERMEDIATE VERTICAL STEEL**  
a & b :- alternate courses in one brick wall



**DETAIL OF R/F AROUND DOOR**



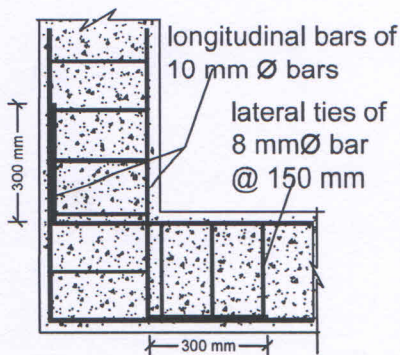
**DETAIL OF R/F AROUND WINDOW**



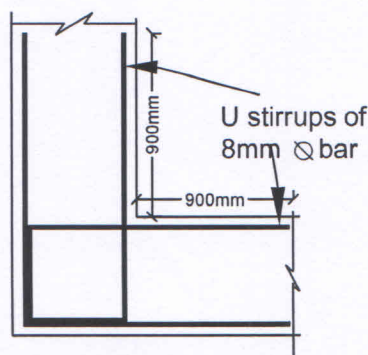
**SECTION A-A**

**SECTION B-B**

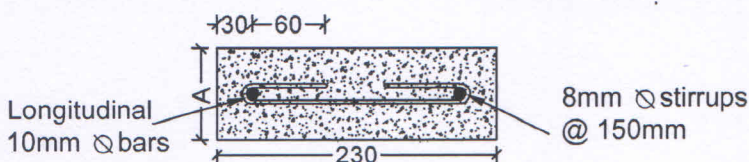
- Lap length and development length ( $L_d$ ) for 10 mm $\varnothing$  is 500 mm.
- Clear cover for the band should be 30mm.



**DETAIL OF PLINTH/LINTEL 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 -OP2-MB-SR-ZV/DWG-3

NATIONAL INSTITUTE OF TECHNOLOGY HAMIRPUR

**BUILDING NAME:**  
PMAY HFA  
OPTION 2  
MASONRY BUILDING  
SLOPING ROOF  
ZONE V

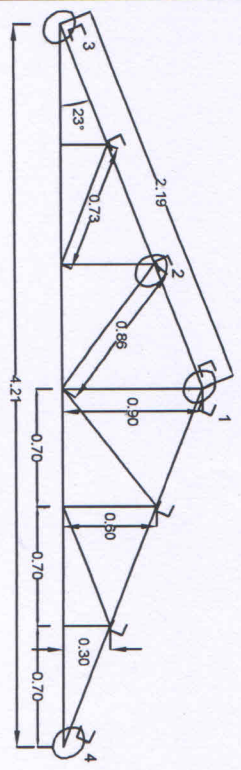
**DRAWING TITLE:**  
DETAILS OF R/F AROUND WINDOW & DOOR, VERTICAL R/F, CROSS SECTION OF BAND

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

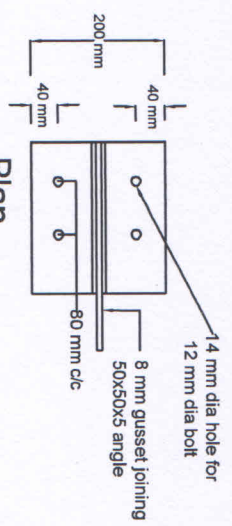
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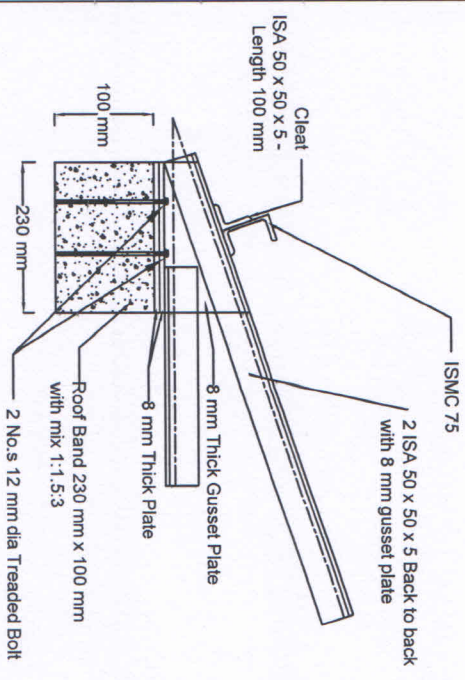




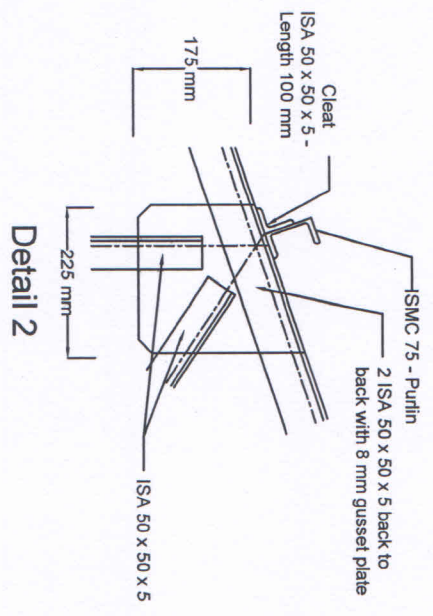
**ELEVATION OF TRUSS**



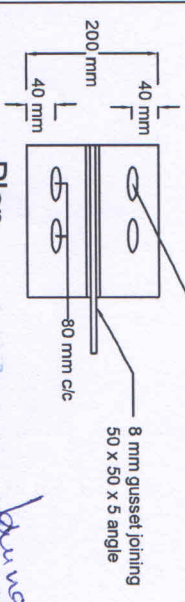
**Plan**



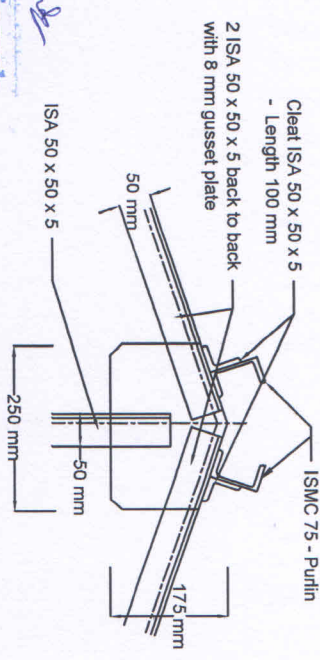
**Elevation Detail 3**



**Elevation Detail 2**



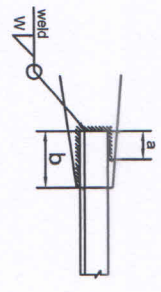
**Plan Detail 4**



**Elevation Detail 1**

Sr.No. **NOTES:-**

- All dimensions are in mm unless specified.
- Dimensions are not to be scaled out, only written dimensions may be taken as correct.
- Grade of concrete M:20.
- Any discrepancy in structural Drawings should be correlated with Architectural drawing.
- Scale : Not to scale
- Truss has been designed for 0.3m snow depth
- 



ANGLE SIZE	WELD THK W, mm	a(mm)	b(mm)	GUSSET THK mm
L 50 x 50 x 5	6	50	90	8

TYPICAL DETAILS OF WELD LENGTH

**DRG. No. - NIT/CED/2017/PMAY -OP2-MB-SR-ZV/DWG-4**

**NATIONAL INSTITUTE OF TECHNOLOGY HAMIRPUR**

**BUILDING NAME: PMAY HFA OPTION 2 MASONRY BUILDING SLOPING ROOF ZONE V**

**DRAWING TITLE: CROSS SECTION OF TRUSS**

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

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