

FLOOR PLAN DETAIL

- 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 to 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 Φ 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-5 for earthquake resistance and structural detail.

Schedule of Door & Windows				
Name	Lintel	Width	Sill lvl	Description
D1	2.10	0.90	--	
D2	2.10	0.75	--	
W1	2.10	1.50	0.90	
W2	2.10	1.20	0.90	
W3	2.10	0.90	0.90	
V	2.10	0.60	1.80	

NOTES:-
 Clear height of DU = 2.85 m
 Earthquake resistance structure as per site condition
 * All the Dimensions in m

DRG. No. - NIT/CED/2017/PMAY-OP3-MB-SR-ZIV/DWG-1

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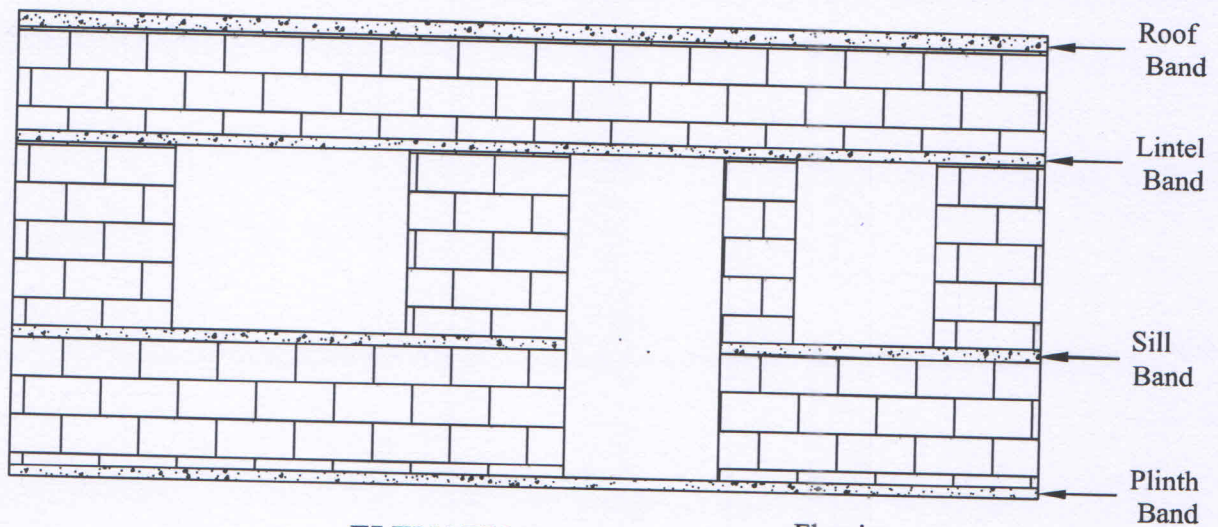
BUILDING NAME:
 PMAY HFA
 OPTION 3
 MASONRY BUILDING
 SLOPING ROOF
 ZONE IV

DRAWING TITLE:
 FLOOR PLAN

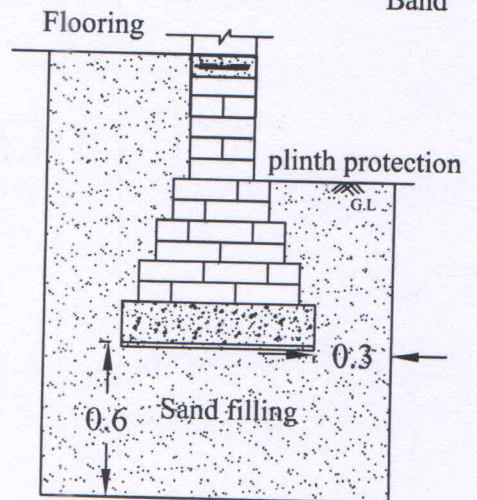
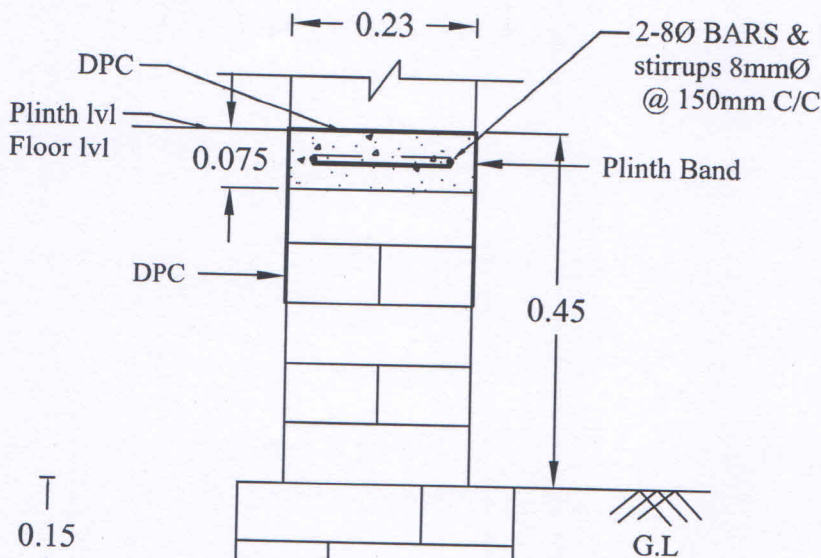
DESIGNED BY:
 Dr. Pardeep Kumar
 Dr. Hemant Kumar Vinayak

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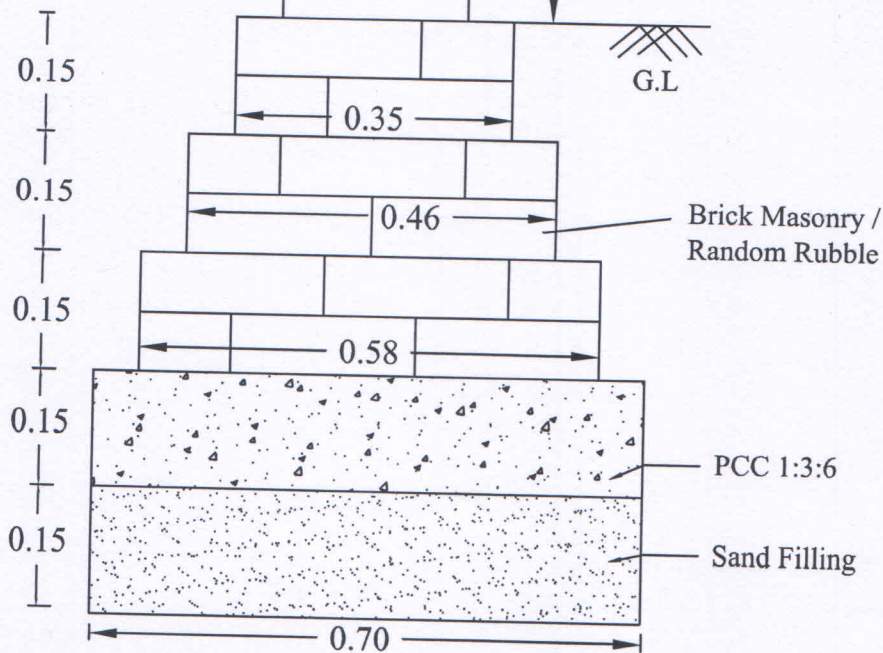
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ELEVATION



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



FOOTING DETAILS

DRG. No. - NIT/CED/2017/PMAY-OP3-MB-SR-ZIV/DWG-2

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BUILDING NAME:
PMAY HFA
OPTION 3
MASONRY BUILDING
SLOPING ROOF
ZONE IV

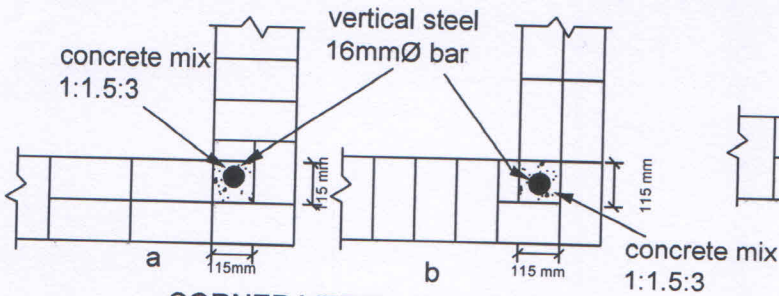
DRAWING TITLE:
FOOTING DETAIL &
ELEVATION

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

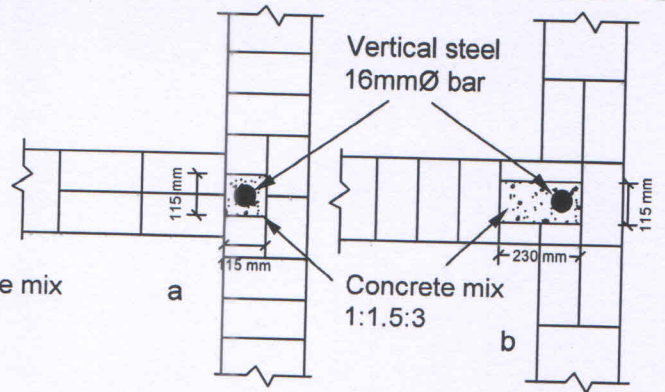
• All dimensions are in meter

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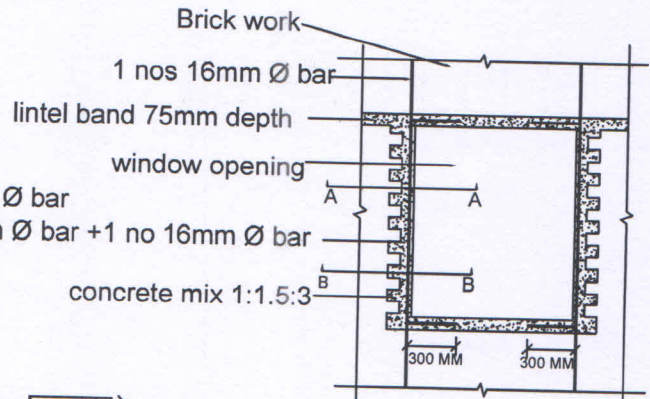
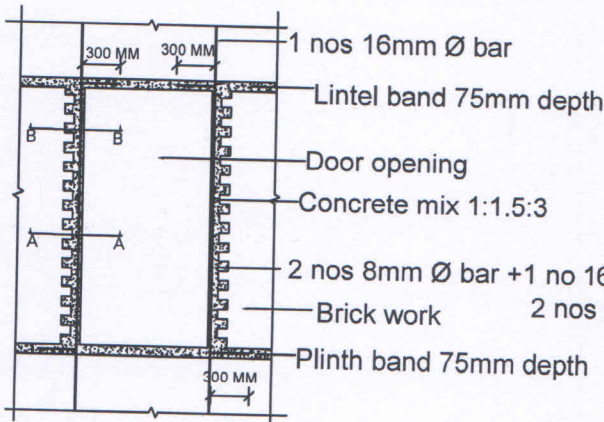
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CORNER VERTICAL STEEL
a & b :- alternate courses in one brick wall

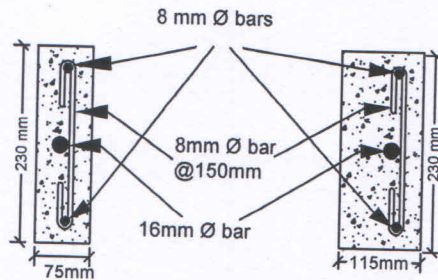


INTERMEDIATE VERTICAL STEEL
a & b :- alternate courses in one brick wall



DETAIL OF R/F AROUND DOOR

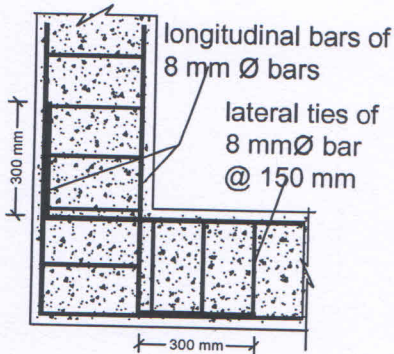
DETAIL OF R/F AROUND WINDOW



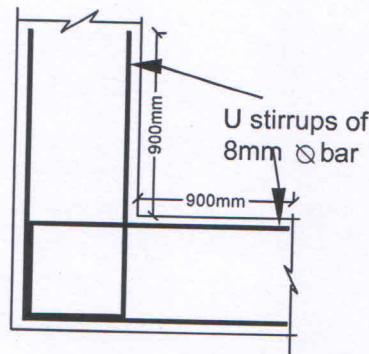
SECTION A-A

SECTION B-B

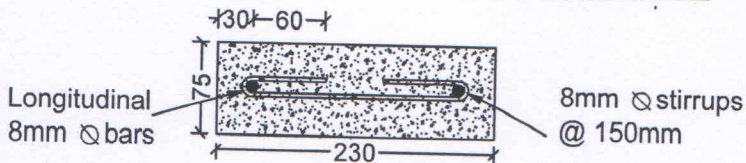
- Lap length and development length (L_d) for 8 mmØ is 400 mm.
- Clear cover for the band should be 30mm.



DETAIL OF PLINTH/LINTEL BAND



PLAN OF SILL LEVEL R/F



SECTION OF PLINTH/LINTEL BAND

All Dimensions are in mm

DRG. No. - NIT/CED/2017/PMAY-OP3-MB-SR-ZIV/DWG-3

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BUILDING NAME:
PMAY HFA
OPTION 3
MASONRY BUILDING
SLOPING ROOF
ZONE IV

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

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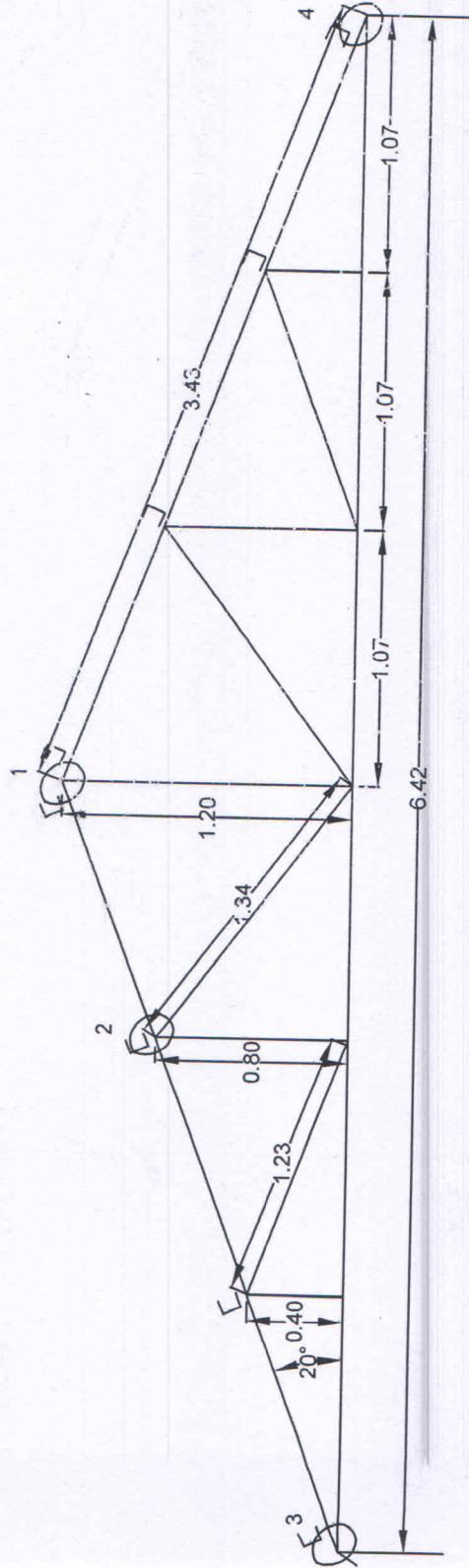
PRG No. - NIT/CRD/2017/
PMAY -OP3-MB-ER-EIV/
DWG-4

NATIONAL INSTITUTE OF
TECHNOLOGY HAMIRPUR

BUILDING NAME:
PMAY HFA
OPTION 3
MASONRY BUILDING
SLOPING ROOF
ZONE IV

DRAWING TITLE:
ELEVATION OF TRUSS

DESIGNED BY:
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Dr. Hemant Kumar Vinayak



ELEVATION OF TRUSS

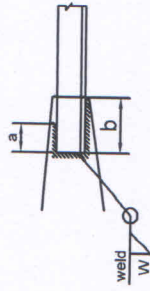
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NOTES:-

Sr.No.

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



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

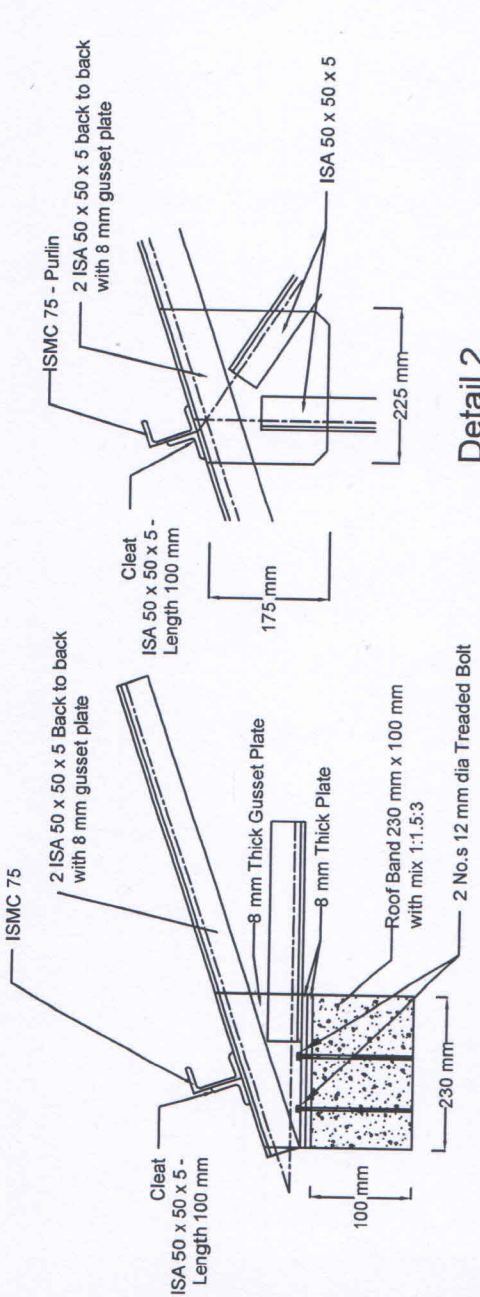
DRG. No. - NIT/CED/2017/PMAY -OP3-MB-SR-ZIV/DWG-5

NATIONAL INSTITUTE OF TECHNOLOGY HAMIRPUR

**BUILDING NAME:
PMAY HFA
OPTION 3
MASONRY BUILDING
SLOPING ROOF
ZONE IV**

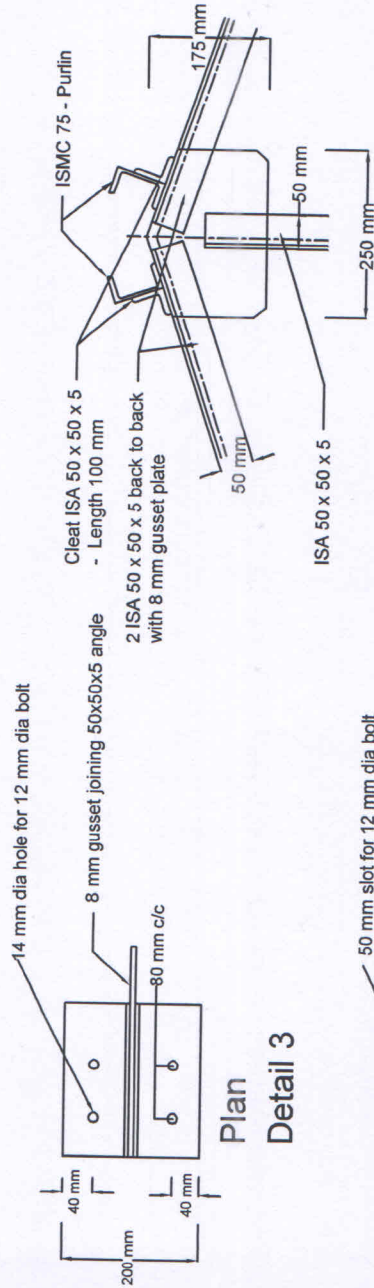
**DRAWING TITLE:
CROSS SECTION OF TRUSS**

**DESIGNED BY:
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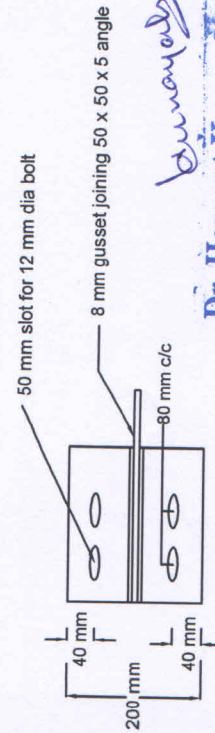


Detail 2

**Elevation
Detail 3**



**Plan
Detail 3**



**Plan
Detail 4**

Detail 1

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