DETAILED DRAWING OF REINFORCEMENT OF BEAMS AT PLINTH LEVEL

S - 8 mm dia bars @ 100 mm c/c

PB-1  PB-2  PB-3  C1
C1  C1  C1
PB-7
C1
PB-4  PB-5  PB-6  C1
C1
PB-8  PB-9  PB-10

3.34  2.93  2.73

3-12Ø
3-12Ø
3-12Ø
3-12Ø
3-12Ø
3-12Ø
3-12Ø
3-12Ø
3-12Ø
3-12Ø
3-12Ø

3.34  2.93  2.73

BEAM DETAIL FOR BEAM PB-1 to PB-6

2-12Ø  2-12Ø  2-12Ø
1-16Ø  1-16Ø  1-16Ø
C1  C1  C1

3-12Ø
3-12Ø

1.27  4.21  1.27

BEAM DETAIL FOR BEAM PB-7 & PB-10

3-12Ø
3-12Ø

4.21

BEAM DETAIL FOR BEAM PB-8 & PB-9

NOTES:

- All dimensions are in meters, 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.
- Size of Beam is 250 X 250 mm.
- Grade of concrete shall be M20.
- All reinforcement shall be of grade Fe 415 confirming to IS:1786-2008.
- Clear Cover to reinforcement shall be 25 mm.
- Bending and fixing of reinforcement shall be as per is:2502-1963.
- Lap length and anchorage length shall be 57 times the bar diameter
- Further refer notes from the drawing of 'Detail of footings'.

DRG. No. - NIT/CED/2017/OP-2-RCC- FR Z-IV/DWG-3

NATIONAL INSTITUTE OF TECHNOLOGY HAMIRPUR

BUILDING NAME:
PMAY HFA
OPTION 2
REINFORCED CONCRETE BUILDING
FLAT ROOF
ZONE IV

DETAIL OF PLINTH BEAM

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
DETAILED DRAWING OF REINFORCEMENT OF BEAMS AT ROOF LEVEL

S - 8 mm dia bars @ 100 mm c/c

NOTES:
- All dimensions are in meters, 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.
- Size of Beam is 250 X 250 mm.
- Grade of concrete shall be M20.
- All reinforcement shall be of grade Fe 415 confirming to IS:1786-2008.
- Clear Cover to reinforcement shall be 25 mm.
- Bending and fixing of reinforcement shall be as per is:2502-1963.
- Lap length and anchorage length shall be 57 times the bar diameter
- Further refer notes from the drawing of 'Detail' of footings.

DRG. No. - NIT/CED/2017/OP-2-RCC-FR Z-IV/DWG-4

NATIONAL INSTITUTE OF TECHNOLOGY HAMIRPUR

BUILDING NAME:
PMDT HFA
OPTION 2
REINFORCED CONCRETE BUILDING
FLAT ROOF
ZONE IV

DETAIL OF ROOF BEAM

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
• Clear cover for the slab should be 20mm.
• All dimensions are in meter

SCHEDULE OF BARS
a. 8 mm Ø @ 150 mm c/c