Government of Nepal
National Reconstruction Authority
Central Level Project Implementation Unit (EDU)
Gyaneshwor, Kathmandu

2 Storey 8 Classrooms
Revised (Nov 2018)
EXCAVATION PLAN

Government of Nepal
National Reconstruction Authority
Central Level Project Implementation Unit (EDU)
Gyaneshwor, Kathmandu

PROJECT: 2 Storey 8 Classrooms Revised (Nov 2018)

TITILE: EXCAVATION PLAN

Date: Scale: 1:75
Designed by:
Checked by:
Approved by:

Sheet No: 8
As per Site Condition, Df (Min. 1500)

FOOTING SECTION WITH PLINTH BEAM

For Hard and Medium soil

GROUND LVL.

Compaction Earth

150 mm Stone Sand Compaction/ 3" flat brick soling

12 dia. @ 150mm c/c

L/B

FOOTING PLAN

PLINTH AND FOUNDATION TIE BEAM

GROUND LVL.

Compaction Earth

150 mm Stone Sand Compaction/ 3" flat brick soling

12 dia. @ 150mm c/c

L/B

FOOTING SECTION WITH PLINTH BEAM AND FOUNDATION BEAM
ELEVATION SHOWING FOOTING, LOWER TIE BEAM, UPPER TIE BEAM AND PLINTH WALL

BRICK MASONRY TOE WALL
STONE MASONRY TOE WALL

SECTION AT X-X

GROUND LEVEL

150 mm Stone Soling with compaction
Earth Compaction

Levelling PCC (1:3:6)
Flat Brick Soling with compaction
Earth Compaction

GROUND LEVEL

4 - 12Ø (Fe415 or Fe500)

4 - 12Ø (Fe415 or Fe500)

450
500
55
112
200
500

230 mm Thk Plinth Wall

230
75

PLINTH LVL.

L/B

Compaction Earth

FOOTING SECTION

L/B

Compaction Earth

GROUNDLVL.

Min. 1500

PCC (1:3:6)

Plinth tie beam

Foundation tie beam

50mm.

450
500

55
150
250
230

1 Brick height

200

55

STONE MASONRY TOE WALL

PCC (1:3:6)

Compaction Earth

55

150 mm Stone Soling with compaction
Earth Compaction

Levelling PCC (1:3:6)

Stone Masonary (1:6)

GROUND LEVEL

450
500
55
112
200
500

SECTION AT X-X

50mm.

150 th. stone soling or Flat brick soling

Compaction Earth

55

230
55

230
150 mm Stone Sand
Compaction/ 3'' flat brick soling

See Table

Min. 1500

PLINTH LVL.

75

200

Compaction Earth

FOOTING SECTION

L/B

75

See Table

GROUND LVL.

PCC (1:3:6)

150 mm Stone Sand
Compaction/ 3'' flat brick soling

(For soft and weak soil)

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PROJECT:
2 Storey 8 Classrooms
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TITLE:
PLINTH WALL FOR WEAK/ SOFT SOIL

Date:
Scale:
Designed by:
Checked by:
Approved by:

Sheet No: 11
**COLUMN SIZE AND REINFORCEMENT**

<table>
<thead>
<tr>
<th>Floor</th>
<th>Column C1</th>
<th>Column C2</th>
<th>Stirrups</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Top Floor</td>
<td>350</td>
<td>350</td>
<td>8Ø @ 100mm c/c 8Ø @ 150mm c/c</td>
<td>M 20</td>
</tr>
<tr>
<td></td>
<td>350</td>
<td>350</td>
<td></td>
<td></td>
</tr>
<tr>
<td>First Floor</td>
<td>350</td>
<td>350</td>
<td>8Ø @ 100mm c/c 8Ø @ 150mm c/c</td>
<td>M 20</td>
</tr>
<tr>
<td></td>
<td>350</td>
<td>350</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ground Floor</td>
<td>350</td>
<td>350</td>
<td>8Ø @ 100mm c/c 8Ø @ 150mm c/c</td>
<td>M 20</td>
</tr>
<tr>
<td></td>
<td>350</td>
<td>350</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**L-SECTION OF COLUMN WITH LAPPING**

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**COLUMN DETAILS**

**PROJECT:**
2 Storey 8 Classrooms Revised (Nov 2018)

**DESIGNED BY:**

**CHECKED BY:**

**APPROVED BY:**
FOUNDATION TIE BEAM PLAN  
(Beam size 230x230)

PLINTH BEAM PLAN  
(Beam size 230x230)

Please refer Sheet no. 23 for detail (Wall with Door)
Please refer Sheet no. 23 for detail (Wall with Door)
First Floor beam along grid A, B, C

First floor beam along grid 1, 2, 3, 4

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PROJECT: 2 Storey 8 Classrooms Revised (Nov 2018)
TITLE: BEAM DETAILS

Date: 
Scale: 1:50 & 1:25
Designed by: 
Checked by: 
Approved by: 

Sheet No: 16
Second floor beam along grid A,B,C
Scale: 1:50

Second floor beam along grid 1,2,3,4
Scale: 1:50

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PROJECT: 2 Storey 8 Classrooms Revised (Nov 2018)

TITLE: BEAM DETAILS

Sheet No: 17
Connection Detail Between Main & Secondary Beam (Plan)

Connection Detail Between Main & Secondary Beam (Section)

L-Section of beam along grid B' (SECONDARY BEAM)
SLAB PLAN FOR STAIRCASE ROOF

SLAB THICKNESS = 125mm

Scale : 1:50

L-SECTION OF SLAB ALONG X-X DIRECTION

Scale : 1:25

L-SECTION OF SLAB ALONG Y-Y DIRECTION

Scale : 1:25

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PROJECT : 2 Storey 8 Classrooms Revised (Nov 2018)
TITLE : STAIRCASE SLAB

Date : Scale : 1:25
Sheet No:

Designed by :
Checked by :
Approved by :
UP Thickness Of Waist Slab = 150mm
Tread = 300 mm
Riser = 150mm

STAIRCASE PLAN
(Scale - 1:50)

BEAM LAYOUT PLAN
(Staircase Roof Level)
(Scale - 1:100)

REINFORCEMENT DETAILS OF STAIRCASE FLIGHT-1
(Scale - 1:25)

REINFORCEMENT DETAILS OF STAIRCASE FLIGHT-2
(Scale - 1:25)

LANDING BEAM CONNECTION DETAIL
(Scale - 1:30)

LANDING BEAM
COLUMN

DOWEL BAR 4NOS. 16Ø
75 MM GAP FILLED WITH THERMOCOL PACKING

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PROJECT:
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TITLE:
STAIRCASE DETAILS

Date:
Scale: 1:50 & 1:25

Designed by:
Checked by:
Approved by:

Sheet No: 22