Emergency School Reconstruction Project

TYPE DESIGN:
3 Storey 6 Small Classroom
3-6C(S)
# TABLE OF CONTENT:

## ARCHITECTURAL DRAWINGS

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## STRUCTURAL DRAWINGS

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<td>BEAM DETAILS</td>
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## ELECTRICAL DRAWINGS

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<td>LIGHT, POWER AND DB LAYOUT (GROUND FLOOR)</td>
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<td>LIGHT, POWER AND DB LAYOUT (SECOND FLOOR)</td>
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NOTES:
1. Any discrepancy in the drawing to be immediately reported to the consultant or concerned engineer.
2. Drawing are not to be directly measured.
3. Read this drawing along with other related drawings and coordinate with Structural, Electrical, Plumbing, and other services drawings.
4. Rafter doors & windows schedule/elevations for size of beams & windows
5. Provide threshold at all exterior doors as per details, unless otherwise indicated.
6. The location of ramps to be adjusted as per site conditions.

GROUND FLOOR PLAN
Area = 142.75 SQ. M.
(Scale: 1:100)
NOTES:
1. Any discrepancy in the drawing to be immediately reported to the consultant or concerned engineer.
2. Drawing are not to be directly measured.
3. Read this drawing along with other related drawings and coordinate with Structural, Electrical, Plumbing and other services drawings.
4. Railing doors & windows schedule/elevations for size of frames & windows.
5. Provide threshold at all exterior doors as per details, unless otherwise indicated.
6. The location of ramps to be adjusted as per site condition.

Date: September, 2016
SECOND FLOOR PLAN
Area = 142.75 Sc. M.
(Scale= 1:100)

NOTES:
1. Any discrepancy in the drawing to be immediately reported to the consultant or concerned engineer.
2. Drawing are not to be directly measured.
3. Read this drawing along with other related drawings and coordinate with Structural, Electrical, Plumbing, and other services drawings.
4. Refer doors & windows schedule/elevations for size of doors & windows.
5. Provide threshold at all exterior doors as per details, unless otherwise indicated.
6. The location of ramps to be adjusted as per site condition.

Date: September, 2016

Sheet Title: SECOND FLOOR PLAN
Sheet No: 3-6C (S)
Print Sheet: A’3’ Size
NOTES:
1. Any discrepancy in the drawing to be immediately reported to the consultant or concerned engineer.
2. Drawings are not to be directly measured.
3. Read this drawing along with other related drawings and coordinate with Structural, Electrical, Plumbing, and other services drawings.
4. Refer doors & windows schedule/elevations for size of doors & windows.
5. Provide threshold at all exterior doors as per details, unless otherwise indicated.
6. The location of ramps to be adjusted as per site condition.

NOTE:
1. Read this drawing along with other related drawings and other services drawings.
2. Drawing are not to be directly measured.
3. Refer doors & windows schedule/elevations for size of doors & windows.
4. Provide threshold at all exterior doors as per details, unless otherwise indicated.
5. The location of ramps to be adjusted as per site condition.

Sheet Title: ROOF PLAN
Sheet No.: 3-6C
Date: September, 2016
Print Sheet: A’3’ Size
NOTES:
1. Any discrepancy in the drawing to be immediately reported to the consultant or concerned engineer.
2. Drawing are not to be directly measured.
3. Refer this drawing along with other related drawings and coordinate with Structural, Electrical, Plumbing, and other services drawings.
4. Refer door schedule/elevations for sizes of doors.
5. Provide thresholds at all exterior doors as per details.
6. The location of ramps to be adjusted as per site condition.

3 STOREY 6 SMALL CLASSROOMS

Date: September, 2016
NOTES:
1. Any discrepancy in the drawing to be immediately reported to the consultant or concerned engineer.
2. Drawing are not to be directly measured.
3. Read this drawing along with other related drawings and coordinate with Structural, Electrical, Plumbing and other services drawings.
4. Refer doors & windows schedules/elevations for size of doors & windows.
5. Provide threshold at all exterior doors as per details, unless otherwise indicated.
6. The location of ramps to be adjusted as per site condition.

Date: September, 2016

Sheet Title: ELEVATION & SECTION
Sheet No.: 3-6C (S)
Print Size: A3 Size
NOTES:
1. Any discrepancy in the drawing to be immediately reported to the consultant or concerned engineer.
2. Drawing are not to be directly measured.
3. Refer this drawing along with other related drawings and coordinate with Structural, Electrical, Plumbing and other services drawings.
4. Refer doors & windows schedule/elevations for size of doors & windows.
5. Provide threshold at all exterior doors as per details, unless otherwise indicated.
6. The location of ramps to be adjusted as per site condition.

1. Storey: 3 STORY 6 SMALL CLASSROOMS
2. Scale: 1:40
3. Date: September, 2016

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WALL SECTION AT Y-Y
(Scale: 1:50)
1. Any discrepancy in the drawing to be immediately reported to the consultant or concerned engineer.
2. Drawing are not to be directly measured.
3. Read this drawing along with other related drawings and coordinate with Structural, Electrical, Plumbing, and other service drawings.
4. Refer doors & windows schedule/ elevations for size of doors & windows.
5. Provide threshold at all exterior doors as per details, unless otherwise indicated.
6. The location of ramps to be adjusted as per site condition.

NOTES:

3. Read this drawing along with other related drawings and other services drawings.

2. Drawing are not to be directly measured.

1. Any discrepancy in the drawing to be immediately reported to the consultant or concerned engineer.

5. Provide threshold at all exterior doors as per details, unless otherwise indicated.

6. The location of ramps to be adjusted as per site condition.
NOTES:
1. Any discrepancy in the drawing to be immediately reported to the consultant or concerned engineer.
2. Drawing are not to be directly measured.
3. Refer this drawing along with other related drawings and coordinate with Structural, Electrical, Plumbing and associated drawings.
4. Refers doors & windows schedule/labelings for size of doors & windows.
5. Provide threshold at all exterior doors as per details, unless otherwise indicated.
6. The location of ramps to be adjusted as per site condition.

3 STOREY 6 SMALL CLASSROOMS

Date: September, 2016
NOTES:
1. Any discrepancy in the drawing to be immediately reported to the consultant or concerned engineer.
2. Drawing are not to be directly measured.
3. Read this drawing along with other related drawings and coordinate with Structural, Electrical, Plumbing, and other services drawings.
4. Refer doors & windows schedule/elevations for size of doors & windows.
5. Provide threshold at all exterior doors as per details, unless otherwise indicated.
6. The location of ramps to be adjusted as per site condition.

1. Read this drawing along with other related drawings unless otherwise indicated.
2. Drawing are not to be directly measured.
3. Provide threshold at all exterior doors as per details, unless otherwise indicated.
4. The location of ramps to be adjusted as per site condition.

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**DRAWING CONTENTS**

**TYPICAL METAL WINDOW SECTION**

- **TYPICAL METAL WINDOW SECTION**
  - Area: 1.59 Sq.M.
  - Scale: 1:25

- **TYPICAL METAL DOOR SECTIONAL PLAN**
  - Area: 2.61 Sq.M.
  - Scale: 1:25

- **DOORS & WINDOWS SCHEDULE**

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<th>G.F.</th>
<th>F.F.</th>
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<td>1</td>
<td>1</td>
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<td>4</td>
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</table>

**TOTAL**: 15 12 14 43

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**NOTES:**

- Provide threshold at all exterior doors as per details, unless otherwise indicated.
- The location of ramps to be adjusted as per site condition.
NOTES:

1. Any discrepancy in the drawing to be immediately reported to the consultant or concerned engineer.
2. Drawings are not to be directly measured.
3. Read this drawing along with other related drawings and coordinate with Structural, Electrical, Plumbing and other services drawings.
4. Refer doors & windows schedule/elevations for size of doors & windows
5. Provide threshold at all exterior doors as per details, unless otherwise indicated.
6. The location of ramps to be adjusted as per site condition

SECOND FLOOR FALSE CEILING LAYOUT PLAN

Sheet Title: FALSE CEILING LAYOUT PLAN
Sheet No: 3-6C (S)
Date: September, 2016
1. Use N2-0.8(1:1.5) grade concrete for slab beam.
   Column foundation: 1:1.5 & 1:1.0 (For RCC Works)
2. Use Fe600 grade steel for stirrups Fe500 N/mm².
3. Clear cover to bars
   a. For concrete members in contact with soil = 30mm.
   b. For longitudinal (vertical) bars in column = 40mm.
   c. For main bars in beams = 25mm.
   d. For other bars in slab = 20mm.
4. Bars in columns shall be spliced only at mid-height of column as per ductile detailing IS 13502-2014.
5. Bars splicing in beam shall be avoided in the span where intermediate beam is connected and shall be only as shown on Dwg.
6. Development / lap length (l) for bars

<table>
<thead>
<tr>
<th>Size (in)</th>
<th>8</th>
<th>10</th>
<th>12</th>
<th>16</th>
<th>20</th>
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<tr>
<td>24</td>
<td>480</td>
<td>600</td>
<td>720</td>
<td>900</td>
<td>1200</td>
<td>1500</td>
<td>1800</td>
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</table>
7. Temp. distribution reinforcement for slab - TMT 62B (100 C/C)
8. Clear vertical distance between two rows (layers) of bars = 25mm.
9. Provide shear reinforcement at 100 C/C at lap locations.
11. (note): If H ≤ 6m or 600mm or larger lateral dimension of the member, whichever is greater.
12. D - Depth of beam.
13. Structural steel shall have strength Fy = 345Mpa
14. Foundation type should be decided by site condition after excavation of foundation.
15. If bearing capacity is less than 1.5 times of foundation should be re-designed.
16. Provide 2 M10 solid round bars in 325mm deep beam.

NOTES:
1. Any discrepancy in the drawing to be immediately reported to the consultant or concerned engineer.
2. Drawing are not to be directly measured.
3. Read the drawing along with other related drawings and coordinate with Structural, Electrical, Plumbing and other services drawings.
4. Rollers doors & windows schedules/locations for size of doors & windows.
5. Provide threshold at all exterior doors as per details, unless otherwise indicated.

TYPICAL LAP LOCATION FOR BEAM BARS

TYPICAL BENT-UP DETAIL FOR SLAB BARS

TYPICAL LAP PORTION DETAIL

CONNECTION DETAIL BETWEEN MAIN & SECONDARY BEAM (PLAN)

CONNECTION DETAIL BETWEEN MAIN & SECONDARY BEAM

TYPICAL COLUMN SHEAR REINFORCEMENT DETAIL
1. Any discrepancy in the drawing to be immediately reported to the consultant or concerned engineer.

2. Drawings are not to be directly measured.

3. Read this drawing along with other related drawings and coordinates with Structural, Electrical, Plumbing and other services drawings.

4. Roller doors & windows schedule/elevations for size of doors & windows.

5. Provide threshold at all exterior doors as per details, unless otherwise indicated.

NOTES:

- Provide threshold at all exterior doors as per details, unless otherwise indicated.

- Roller doors & windows schedule/elevations for size of doors & windows.

- Read this drawing along with other related drawings and coordinates with Structural, Electrical, Plumbing and other services drawings.

- Any discrepancy in the drawing to be immediately reported to the consultant or concerned engineer.

- Drawings are not to be directly measured.

- Foundation Beam Tie Section Detail at -2

- Plinth Beam Tie Section Detail at -2

- Footing Table

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<td>450</td>
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<tr>
<td>1</td>
<td>F2</td>
<td>2200</td>
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<td>450</td>
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<td>2800</td>
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- Trench Plan

- Wall Foundation Detail Section at -4
3. Read this drawing along with other related drawings and other services drawings unless otherwise indicated.

2. Drawings are not to be directly measured.

1. Any discrepancy in the drawing to be immediately reported to the consultant or concerned engineer.

5. Provide threshold at all exterior doors as per details.

4. Refer doors & windows schedule/elevations for size of doors & windows.

NOTES:

1. Any discrepancy in the drawing to be immediately reported to the consultant or concerned engineer.

2. Drawings are not to be directly measured.

3. Read this drawing along with other related drawings and coordinate with Structural, Electrical, Plumbing and other services drawings.

4. Refer doors & windows schedule/elevations for size of doors & windows.

5. Provide threshold at all exterior doors as per details, unless otherwise indicated.
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4. Refer doors & windows schedule/elevations for size of doors & windows.
5. Provide threshold at all exterior doors as per details, unless otherwise indicated.

NOTE:

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4. Refer doors & windows schedule/elevations for size of doors & windows.

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3. Read this drawing along with other related drawings and other services drawings.

4. Refer doors & windows schedule/elevations for size of doors & windows.

5. Provide threshold at all exterior doors as per details, unless otherwise indicated.
3. Read this drawing along with other related drawings
2. Drawing are not to be directly measured.
1. Any discrepancy in the drawing to be immediately
coordinate with Structural, Electrical, Plumbing
and other services drawings.

4. Refer doors & windows schedule/elevations for size
of doors & windows.
5. Provide threshold at all exterior doors as per details,
unless otherwise indicated.

NOTES:

COLUMN FOOTING PLAN -F4
(Scale: 1:20)

COLUMN FOOTING SECTION -F4
(Scale: 1:20)
1. Any discrepancy in the drawing to be immediately reported to the consultant or concerned engineer.
2. Drawing are not to be directly measured.
3. Read this drawing along with other related drawings and coordinate with Structural, Electrical, Plumbing and other services drawings.
4. Refer doors & windows schedule/elevations for size of doors & windows
5. Provide threshold at all exterior doors as per details, unless otherwise indicated.

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<th>COLUMN-GRID A</th>
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NOTES:

- COLUMN LAYOUT PLAN & DETAILS COLUMN, LINTEL & SILL JOIN DETAIL (Scale: 1:100)
- COLUMN, LINTEL & SILL JOIN DETAIL (Scale: 1:25)
1. Any discrepancy in the drawing shall be immediately reported to the consultant or concerned engineer.
2. The drawings are not to be directly measured.
3. Read the drawing along with other related drawings and coordinate with Structural, Electrical, Plumbing and other services drawings.
4. Refer doors & windows schedule/elevations for size of doors & windows.
5. Provide thresholds at all exterior doors as per details, unless otherwise indicated.

**NOTES:**

**S-07**

Mr. H.B. Gurung
Mr. A.S. Tamang
Mr. S. Malla

Sub-Consultant:

Joint Venture with

Project Title:

Government Of Nepal
Department Of Education
Sanothimi, Bhaktapur, Nepal

Emergency School Reconstruction Project

Government Of Nepal

Japan International Cooperation Agency

Mr. Tomoki Miyano
Mr. Hisafumi Michikawa
Mr. Wong Kuok Hung

Donor:

Oriental Consultants
Global Consulting for Sustainable Development

Type Design:

Sheet Title:

COLUMN DETAILS & SILL & LINTEL DETAILS

Sheet No.:

3-6C

Date:

September, 2016

Print Sheet: A3 Size

S-07

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**COLUMN REINFORCEMENT DETAIL AT GRID -2**

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**COLUMN REINFORCEMENT DETAIL AT GRID -3**

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<th>STIRRUPS</th>
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</thead>
<tbody>
<tr>
<td></td>
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<td>(400 x 450)</td>
<td>(400 x 450)</td>
<td>(400 x 450)</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>SECOND FLOOR</td>
<td>6 NOS. -20mm@</td>
<td>6 NOS. -20mm@</td>
<td>6 @100mmoc &amp; 150mmoc</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>6 NOS. -30mm@</td>
<td>6 NOS. -30mm@</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>FIRST FLOOR</td>
<td>12 NOS. -30mm@</td>
<td>6 NOS. -20mm@</td>
<td>6 @100mmoc &amp; 150mmoc</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>8 NOS. -20mm@</td>
<td>8 NOS. -20mm@</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>GROUND FLOOR</td>
<td>12 NOS. -30mm@</td>
<td>6 NOS. -20mm@</td>
<td>6 @100mmoc &amp; 150mmoc</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>8 NOS. -20mm@</td>
<td>8 NOS. -20mm@</td>
<td></td>
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</tr>
</tbody>
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2. Drawing are not to be directly measured.
3. Read this drawing along with other related drawings and coordinate with Structural, Electrical, Plumbing and other services drawings.
4. Refer doors & windows schedules/elevations for size of doors & windows
5. Provide threshold at all exterior doors as per details, unless otherwise indicated.

PLINTH BEAM TIE PLAN AT PLINTH LEVEL
(Scale = 1:100)

BEAM DETAIL ALONG GRID AT -1 & 2
(Scale = 1:50)

NOTES:

Emergency School Reconstruction Project

Sheet Title: PLINTH BEAM TIE PLAN & DETAILS
Sheet No: 3-6C (S)

Print Sheet: A3 Size

Date: September, 2016
1. Read this drawing along with other related drawings and other services drawings unless otherwise indicated.

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4. Refer doors & windows schedule/elevations for size of doors & windows.

5. Provide threshold at all exterior doors as per details, unless otherwise indicated.

S-09

Mr. H.B. Gurung
Mr. A.S. Tamang
Mr. S. Malla

Sub-Consultant: Joint Venture with

Project Title: Emergency School Reconstruction Project

Department Of Education
Sanothimi, Bhaktapur, Nepal

Government Of Nepal
Japan International Cooperation Agency

Donor: ORIENTAL CONSULTANTS GLOBAL

Global Consulting for sustainable Development

Type Design: 3 STOREY 6 SMALL CLASSROOMS

Print Sheet: A’3’ Size

Date: September, 2016

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6. Notes:
   - 3-6C (S)

thonlhi, Bhaktapur, Nepal

Donor: Japan International Cooperation Agency

Project Title: Emergency School Reconstruction Project

Government Of Nepal
Department Of Education

Mr. H.B. Gurung
Mr. A.S. Tamang
Mr. S. Malla

Sub-Consultant: Joint Venture with

Japan International Cooperation Agency

Oriental Consultants
Global Consultants for Sustainable Development

Mr. Tomoki Miyano
Mr. Hisafumi Michikawa
Mr. Wong Kuok Hung

Type Design: 3 STOREY 6 SMALL CLASSROOMS

Print Sheet: A3 Size

Date: September, 2016

Sheet Title: BEAM DETAILS

Sheet No: 3-6C (S)
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3. Read this drawing along with other related drawings and coordinate with Structural, Electrical, Plumbing, and other services drawings.

4. Refer doors & windows schedule/elevations for size of doors & windows.

5. Provide threshold at all exterior doors as per details.

6. Provide finish at all interior doors as per details, unless otherwise indicated.

NOTES:

SECTION - 1-1
(Scale = 1:25)

SECTION - 2-2
(Scale = 1:25)

SECTION - 4-4
(Scale = 1:25)

SECTION - 6-6
(Scale = 1:25)
3. Read this drawing along with other related drawings unless otherwise indicated.

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1. Any discrepancy in the drawing to be immediately and coordinate with Structural, Electrical, Plumbing.

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NOTES:
- Project Title: Emergency School Reconstruction Project
- Donor: Japan International Cooperation Agency
- Joint Venture with Oriental Consultants Global Consulting for Sustainable Development
- Sub-Consultant: Joint Venture with MDR Architects & Associates, Inc.
- Sheet No. 3-6C (S)
- Date: September, 2016
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NOTES:

SLAB REINFORCEMENT PLAN
AT FIRST & SECOND FLOOR LEVEL
(Scale= 1:100)

SLAB THICKNESS
MAIN BAR (SHORT SPAN)
8mm@150mm c/c

MAIN BAR (LONG SPAN)
8mm@150mm c/c
NEGATIVE BAR (TOP BAR)
8mm@300mm c/c
DISTRIBUTION BAR
8mm@150mm c/c

SLAB SECTION - X-X
(Scale = 1:30)

Goverment Of Nepal
Department Of Education
Sanothimi, Bhaktapur, Nepal

Japan International Cooperation Agency

Donor: JICA

Project Title:
Emergency School Reconstruction Project

Sub-Consultant:
Joint Venture with
Oriental Consultants Global

Type Design:
3 STOREY 6 SMALL CLASSROOMS

Print Sheet: A'3' Size
Date: September, 2016

Sanothimi, Bhaktapur, Nepal

Donor : JICA

Emergency School Reconstruction Project

Sub-Consultant: Joint Venture with

Oriental Consultants Global

Type Design: 3 STOREY 6 SMALL CLASSROOMS

Print Sheet: A'3' Size
Date: September, 2016
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NOTES:

S-17

Mr. H.B. Gurung
Mr. A.S. Tamang
Mr. S. Malla

Sub-Consultant: Joint Venture with

Project Title: Emergency School Reconstruction Project

Government Of Nepal
Department Of Education
Sanothimi, Bhaktapur, Nepal
Japan International Cooperation Agency

Donor:

Oriental Consultants
Global Consulting for Sustainable Development

Type Design:

Sheet Title: TRUSS PLAN, SECTION & DETAILS

Sheet No. 3-6C (S)

Print Sheet: A’3’ Size

Date: September, 2016
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Government Of Nepal
Department Of Education
Sanathimi, Bhaktapur, Nepal

Donor : Japan International Cooperation Agency

Project Title: Emergency School Reconstruction Project

Government Of Nepal
Central Level Project Management
Gyaneshwor Kathmandu

Mr. H.B. Gurung
Mr. A.S. Tamang
Mr. S. Malla

Sub-Consultant: Joint Venture with

Oriental Consultants Global
Consulting for Sustainable Development

Mr. Tomoki Miyano
Mr. Hisafumi Michikawa
Mr. Wong Kuk Hung

Donor : ORIENTAL CONSULTANTS GLOBAL

Type Design : Emergency School Reconstruction Project

Print Sheet : A’3’ Size
Date : September, 2016
Sheet No. S-19

Sheet Title: 3-6C

TRUSS DETAILS
1. Any discrepancy in the drawing to be immediately reported to the consultant or concerned engineer.
2. Drawing are not to be directly measured.
3. Read the drawing along with other related drawings and coordinate with Structural, Electrical, Plumbing and other services drawings.
4. Refer doors & windows schedule/lake views for size of doors & windows.
5. Provide threshold at all exterior doors as per details, unless otherwise indicated.
6. The location of ramps to be adjusted as per site condition.

NOTES:

Lighting:
- 24W Daylight Type (240V) (1)
- 24W Daylight Type (240V) (2)
- 24W Daylight Type (240V) (3)
- 24W Daylight Type (240V) (4)
- 18W CFL Down Light
- 16W CFL, Recess Light
- 18W LED Recess Light
- 4 Meter Steel Pole
- 40W CFL, Variable
- 100mm Ceiling Halogen
- ED Power Socket
- 2-way Switch
- One-way Switch
- Single Pole MCB
- Double Pole MCB
- Three Pole MCB
- PB Electric Meter
- Distribution Board
- Main Panel Board

Electrical:
- 4sq mm Cu Wire
- 2 sq mm Cu Wire
- 10A DP MCB
- 20A DP MCB
- Circuit Breaker
- Power Bar
- Lighting Circuit

Plumbing:
- Copper Water Pipe
- 20A DP MCB
- 3-way Switch
- One-way Switch
- Single Pole MCB
- Double Pole MCB
- Three Pole MCB

Structural:
- Beam
- Column
- Slab
- Wall
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NOTES:

Light, Power & DB Layout Plan

(First Floor)

(Scale: 1:100)

First Floor L/P Distribution System (DB-2)

Cable from DB-1

23 sq. mm Cu Wire

20A DP MCB

16A DP MCB

10A DP MCB

5A DP MCB

2A DP MCB

Circuit Breaker

L1 L2 P1 P2

Copper Phase Wire

30A DP MCB

20A DP MCB

16A DP MCB

10A DP MCB

5A DP MCB

2A DP MCB

Distribution Board

1.5 m above Ground Level

Main Panel Board

1.5 m above Ground Level

Oriental Consultants Global

Government of Nepal

Department of Education

Sanothimi, Bhaktapur, Nepal

Joint Venture with

Japan International Cooperation Agency

Project Title:
Emergency School Reconstruction Project

Donor:

Type Design:

Sheet Title:

Print Sheet:

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