STRUCTURAL DESIGN DETAILING

OF

TWO CLASS ROOM STEEL FRAMED, OFF GRID
STONE MASONRY WALL SCHOOL BUILDING

( TYPE DESIGN )

SUBMITTED TO:

Department of Education
Government of Nepal
Ministry of Education
SANOTHIMI, BHAKTAPUR

SUBMITTED BY:

R.K. MALLIK
STRUCTURAL ENGINEER
RND CENTRE P. LTD.
Kupandole, Lalitpur, Nepal
REFURBISHING OF EXISTING TWO CLASSROOM STEEL STRUCTURE

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PLANT AND FRONT ELEVATION
BACK ELEVATION

SIDE ELEVATION

SIDE ELEVATION
SECTION AT X - X

SECTION O-O (TRUSS TR1)

LEGEND

1 - 65M PIPE
8 - 16MM TOR Steel
10 - 50M PIPE
12 - ISMC 75
13 - 100X11 Pipe Section
14 - EXHAUST ROOF FAN (TOTAL 4 NOS)

Medium Size

(All steel structure should be hot-deep galvanized)

TITLE: Sectional Elevation

REFURBISHING OF EXISTING TWO CLASS ROOM STEEL STRUCTURE

DEPARTMENT OF EDUCATION
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DETAIL SECTION

LEGEND

7 - 65M PIPE
8 - 16MM TOR Steel
10 - 50M PIPE
12 - ISMC 75
13 - 100H Pipe Section
14 - EXHAUST ROOF FAN (TOTAL 4 NOS)

Medium Size

(All steel structure should be hot dip galvanized)
DETAIL SECTION

LEGEND

7 - 65M PIPE
8 - 16MM TOR Steel
10 - 50M PIPE
12 - ISMC 75
13 - 100X11 Pipe Section
14 - EXHAUST ROOF FAN (TOTAL 4 NOS)

Medium Size

(All steel structure should be hot deep galvanized)
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SUBMITTED TO:
RND CENTRE PVT. LTD.

TECHNICAL CONSULTANT:
RND CENTRE PVT. LTD.

PAPER SIZE: A3
SHEET NO.: S-8

DETAILS OF STEPS
ELEVATION SHOWING TIE BAND ALONG GRID B-B

SECTION: X2-X2

SECTION: X1-X1
WALL DETAILS

STITCHING PLAN AT T-JUNCTION

100mm Top Band

75mm STITCH BAND

75mm STITCH BAND

STITCHING PLAN AT T-JUNCTION

100 mm R.C.C. Lintel (CONTINUOUS)

75mm STITCH BAND

75MM SILL BAND

Steel for Vertical Reinforcement

1 = Vertical steel bar,
2 = Casing pipe,
3 = Through stone,
4 = Steel or wood link,
5 = Overlapping pair of stones.

Details of Wall Construction (Stone Masonry)

VERTICAL SPACING OF THROUGH STONE = 600 mm
PROPOSED FOUNDATION LAYOUT PLAN

GROUND FLOOR PLAN

Scale: 1:70

REFURBISHING OF EXISTING TWO CLASS ROOM STEEL STRUCTURE

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SANOTHIMI, BHAKTAPUR
PROPOSED TIE BEAM PLAN

Scale: 1:70

A3

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SANOTHIMI, BHAKTAPUR

TECHNICAL CONSULTANT:
RND CENTRE PVT. LTD.

REFURBISHING OF EXISTING
TWO CLASS ROOM STEEL STRUCTURE

SANOTHIMI, BHAKTAPUR
PROPOSED COLUMN PLAN

Scale: 1:70

Name: R.K. Mallik
Designation: Consultant
Signature: 
Date: 

RND CENTRE PVT. LTD.

Title: REFURBISHING OF EXISTING TWO CLASS ROOM STEEL STRUCTURE

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SECTION S-S (TRUSS TR3)

(A) All steel structure should be hot deep galvanized