

**Proposed High School
At
Jethal VDC-07, Sindhupalchok, Nepal**

PROPOSAL REPORT

November, 2015



SUBMITTED BY:

**PRAJ DESIGNER & PLANNERS
GYANESHWOR, KATHMANDU, NEPAL
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Background

These Proposed School buildings are designed "Seismically Resistant" following all the codes & by-laws of Nepal Building Code(NBC) 2015, applicable for " Earthquake Resistant buildings".The main structure & roofing is fabricated with heavy duty MS Steel Sections, using Bolts & Nuts to tie them up for easy installation even in Rural Regions,where electricity is not available.

Construction Method

Walling is done with 450mm thick stone masonry wall,from foundation to 1.00 meter height and above it, up to 2.60meter with 10mm thick Cement fibre Board.Roofing is Colored CGI Sheet which is facilitated with fiberglass gutter & PVC downtake pipes for convenient rain water drainage.Doors are made of MS Steel framework with waterproof Plyboard external cover & windows are sliding aluminum with stainless steel Mosquito Net and to protect students from noise,heat & cold 6mm thick waterproof plywood false ceiling is provided below the roof truss.Classroom flooring & 1.20meter covered Corridor is finished with Cement punning finish above Plain Concrete Cement(PCC).Each rooms are supplied with electrical switches,sufficient number of outlets & LED lights.

Safety Measures

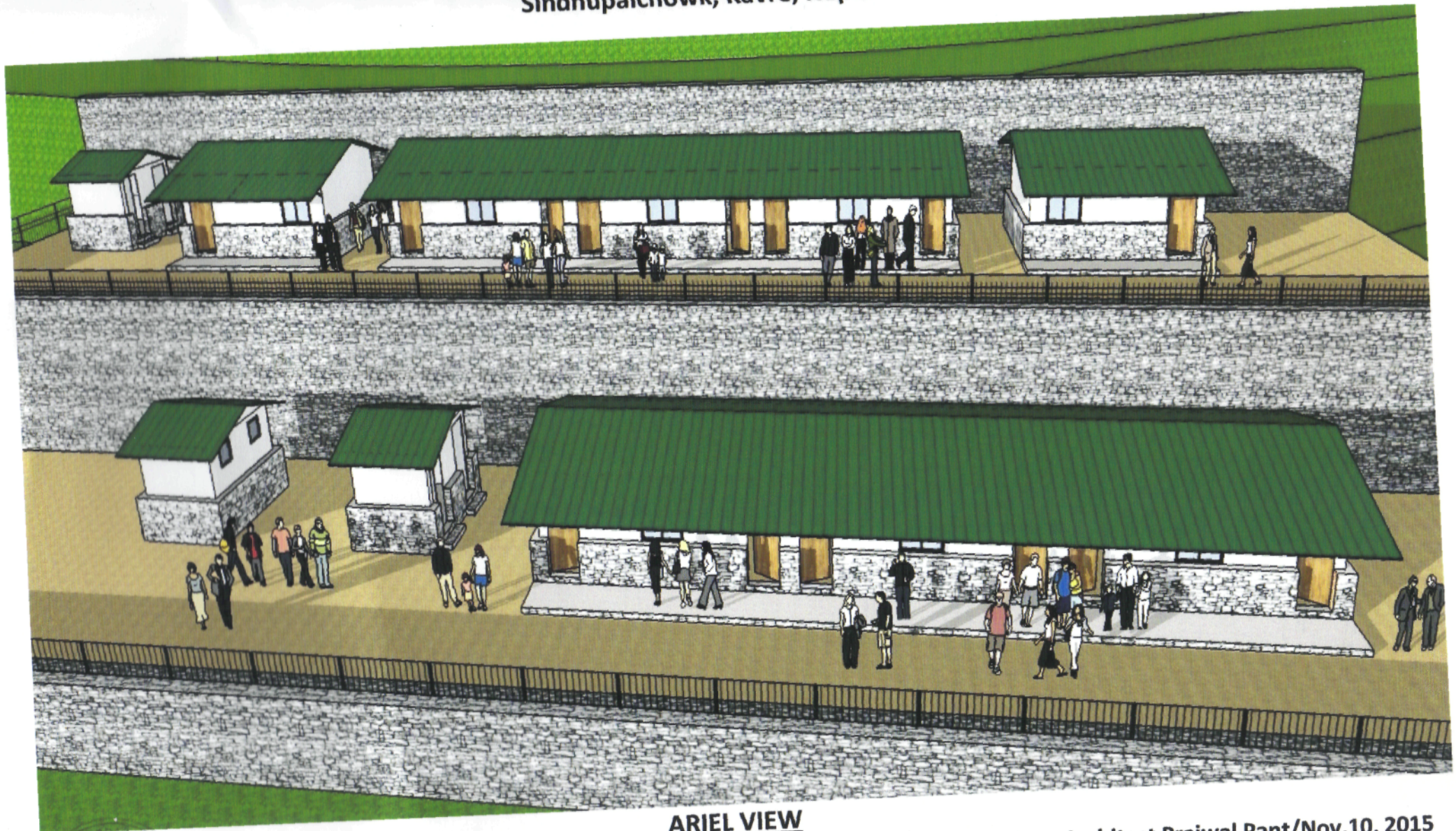
Since Nepal is located in Earthquake prone Zone, all the safety construction techniques are implemented in this design such as,

- Rectangular Shape rooms(Regular Form)
- Main Posts/Columns in equal intervals.
- Sufficient Horizontal & Vertical Bracings.
- Light Cement Board Walling & Partition.
- Stone Foundation
- 450mmx120mm RCC Sill Band below window level

The steel frame & roof Structure are cut into pieces,numbered,welded & drilled for bolts & nuts at factory & brought to respective sites & installed for fast & easy construction.Foundation, walling,finishing,electrification & plumbing works are to be done at the site itself.



PROPOSED HIGHER SECONDARY SCHOOL AT JESTHAL VDC
Sindhupalchowk, Kavre, Nepal



ARIEL VIEW

Designed By: Architect Prajwal Pant/Nov.10, 2015





PRAJ DESIGNER & PLANNERS

Architects, engineers, interior designers & planners

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E-mail:prajdgplaner@yahoo.com

Regd.No.25918/75

Date:10-11-15

Owner:Proposed Naya Basti High School(6-10)

Subject :- Cost Estimate

Location:- Jethal-07,Sindhupalchok,Nepal.

COST ESTIMATE

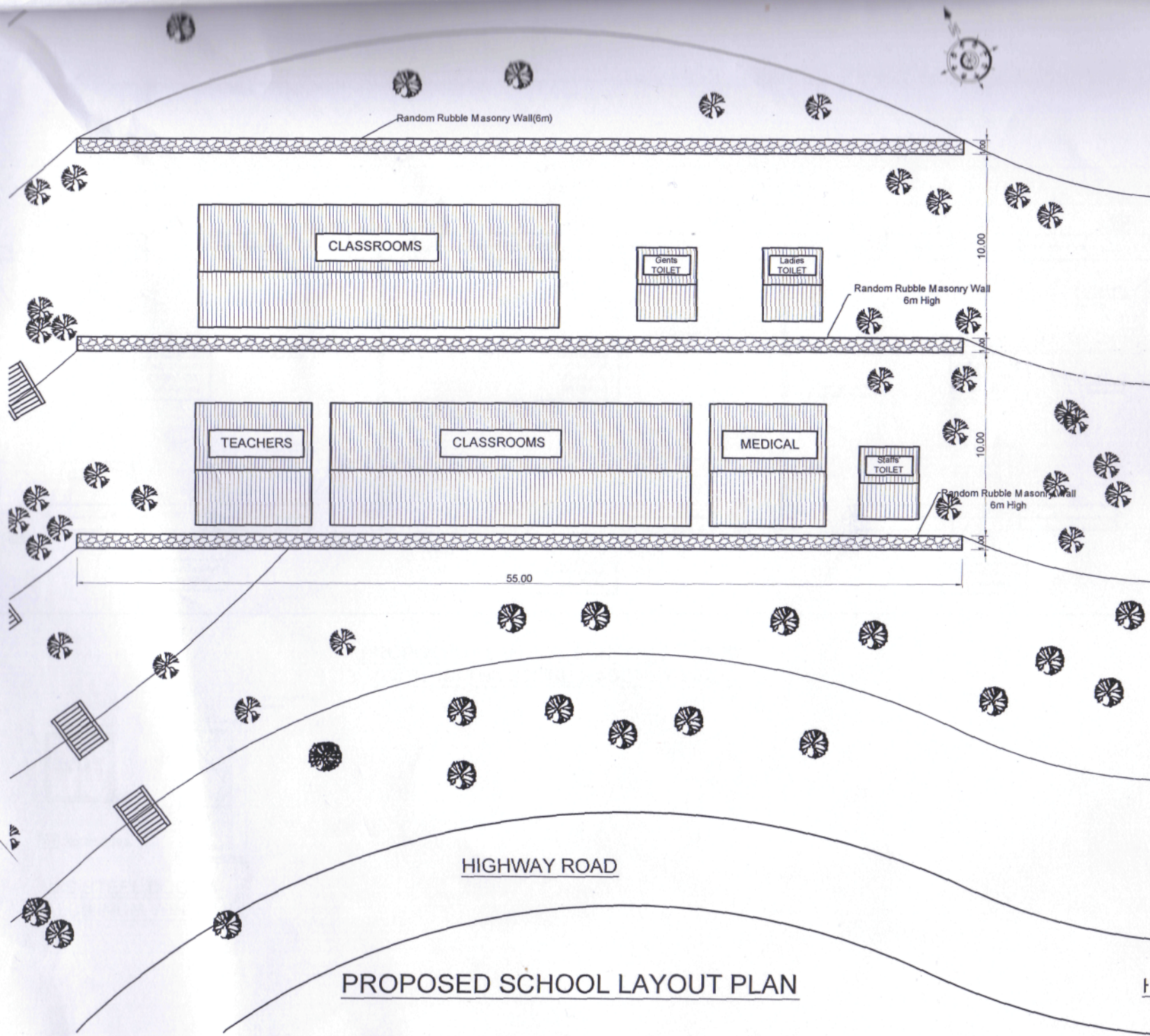
S.N.	PARTICULARS	QTY.	UNIT	RATE (Nrs.)	AMOUNT(Nrs.)	REMARKS
1	Classrooms size:7.00M x4.42M with 1.20M wide Covered Corridor in front made of MS Steel frame structure truss with stone masonry wall upto 0.90M high together with Cement Board wall,waterproof plyboard false ceiling,aluminum windows,steel doors with cement finish floor & colors on wall,electrical fixtures all complete.	6.00	Nos	766500.00	4599000.00	
2	Teachers' Room with Library & Medical Care Rooms size:5.64Mx4.42M 1.20M wide Covered Corridor in front made of MS Steel frame structure truss with stone masonry wall upto 0.90M high together with Cement Board wall,waterproof plyboard false ceiling,aluminum windows,steel doors with cement finish floor & colors on wall,electrical fixtures all complete.	2.00	Nos	675500.00	1351000.00	
3	Toilet size:3.35M x 2.43M made of MS Steel frame structure truss with stone masonry wall upto 0.90M high together with Cement Board wall,aluminum windows,steel doors with cement finish floor & toilet fixtures & colors on wal,electrical fixturesl all complete.	3.00	Sqft.	350000.00	1050000.00	
Total Amount(excluding Vat 13%)					7000000.00	

(In words:Seventy Hundred Thousand Only.)

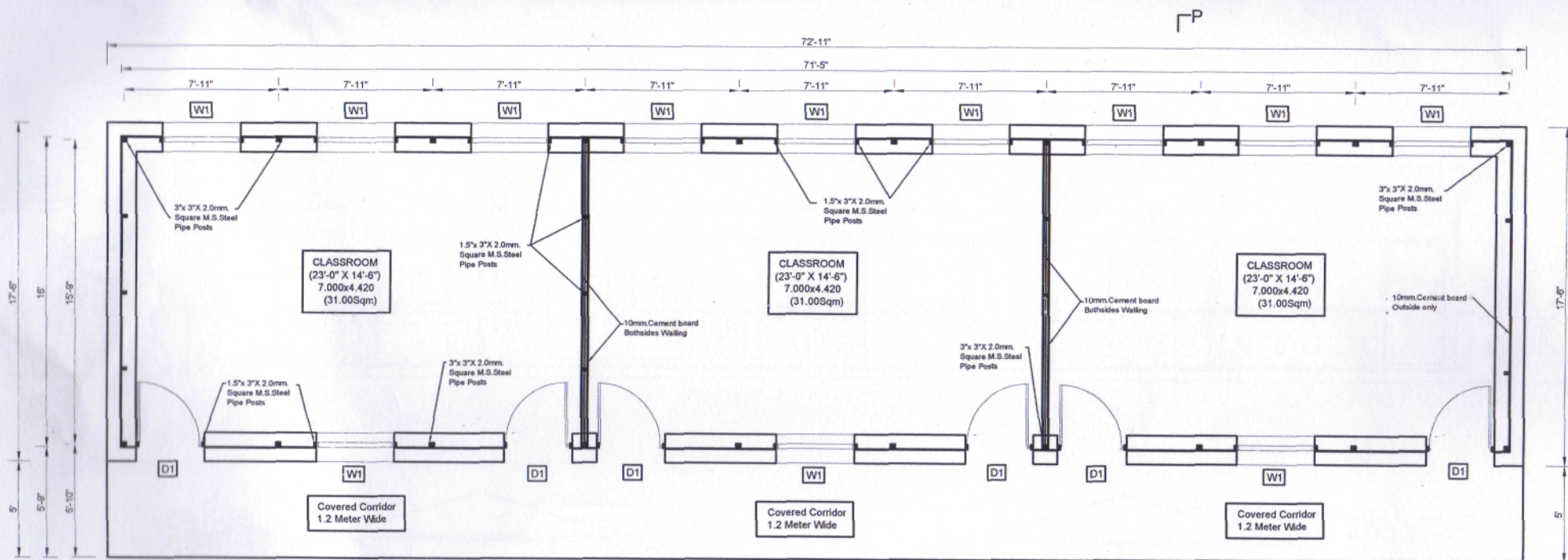
Prepared & Submitted By:

Prajwal Pant
Engineer

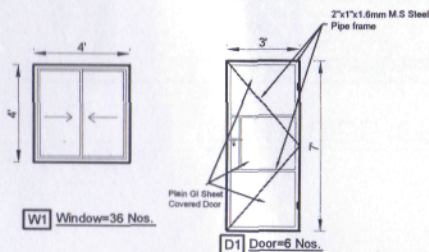




PROPOSED SCHOOL LAYOUT PLAN

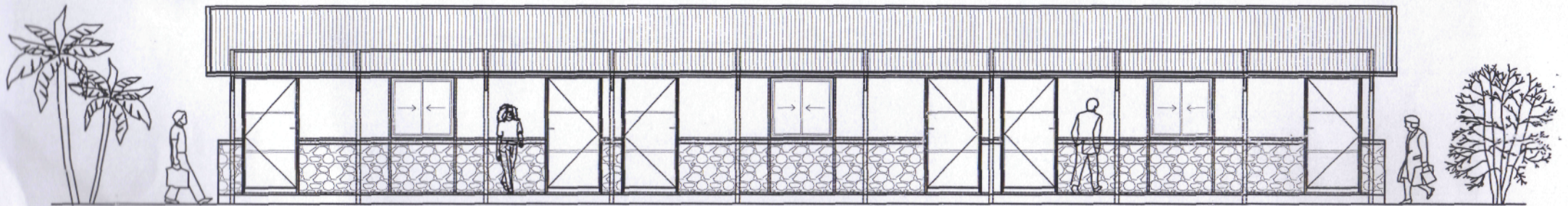


**PROPOSED PLAN FOR SCHOOL (71'-5"X16')
(WITH 18" THK STONE MASONRY WALL)**

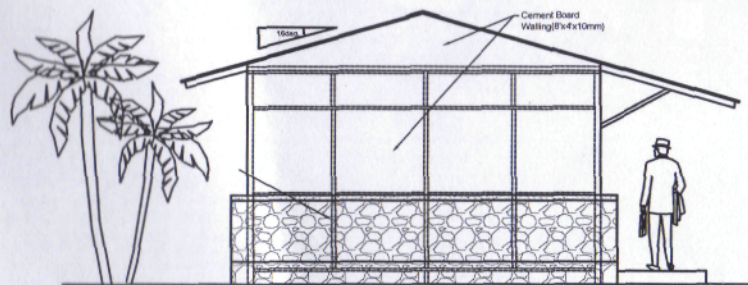


**MS STEEL DOOR &
ALUMINUM WINDOW**

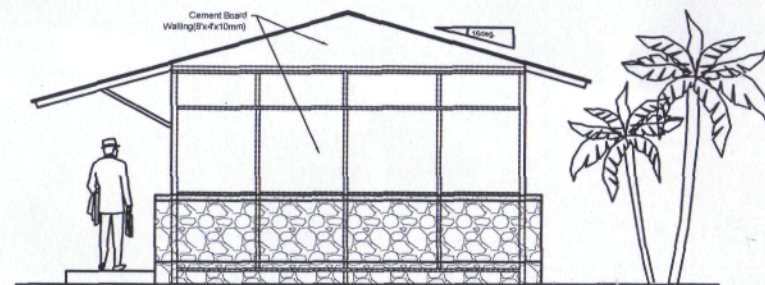




FRONT ELEVATION



RIGHT SIDE ELEVATION



LEFT SIDE ELEVATION

PROPOSED SCHOOL(71'-5"X16')
(WITH 18" THK STONE MASONRY WALL)



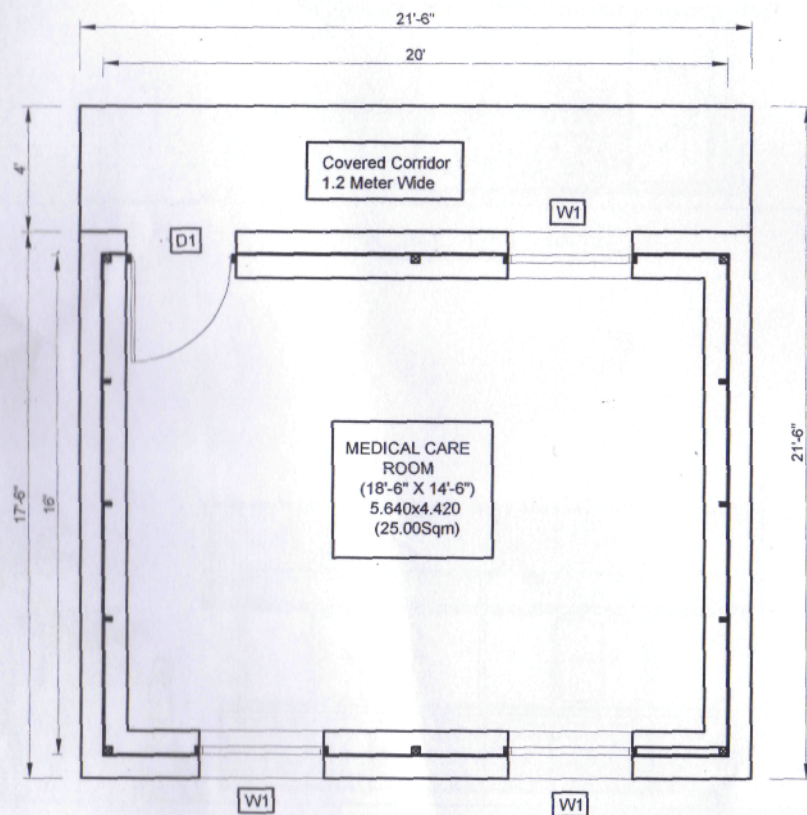
PROPOSED HIGHER SECONDARY SCHOOL AT JESTHAL VDC
Sindhupalchowk, Kavre, Nepal.



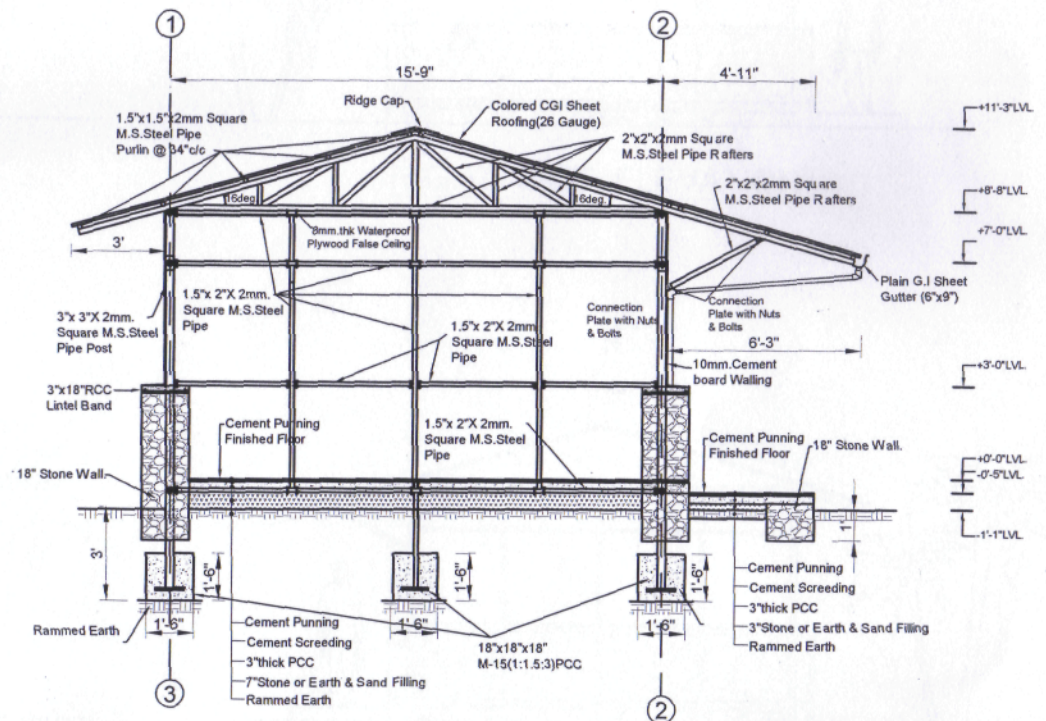
NORTH-WEST VIEW

Designed By: Architect Prajwal Pant/Nov.10, 2015



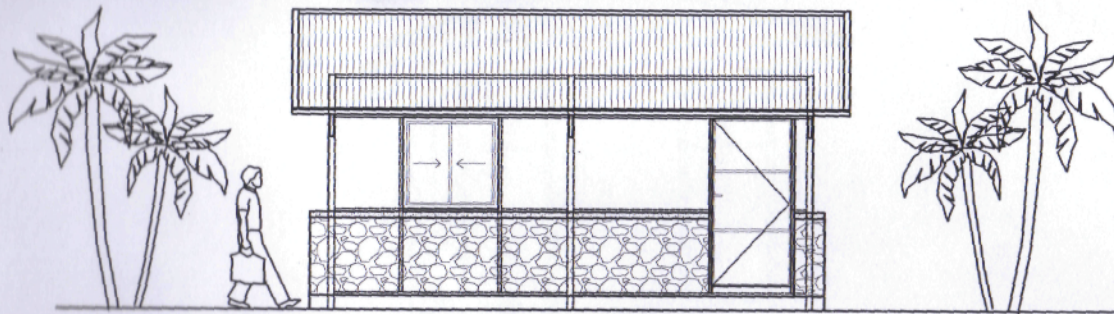


**PROPOSED PLAN FOR TEACHER ROOM(20'X16')
(WITH 18" THK STONE MASONRY WALL)**

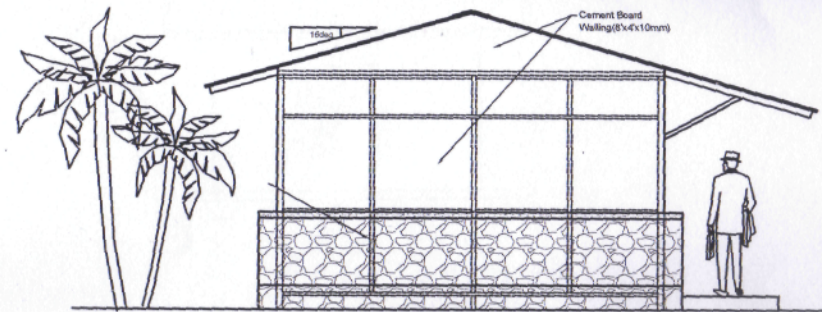


TYPICAL SECTION AT P-P

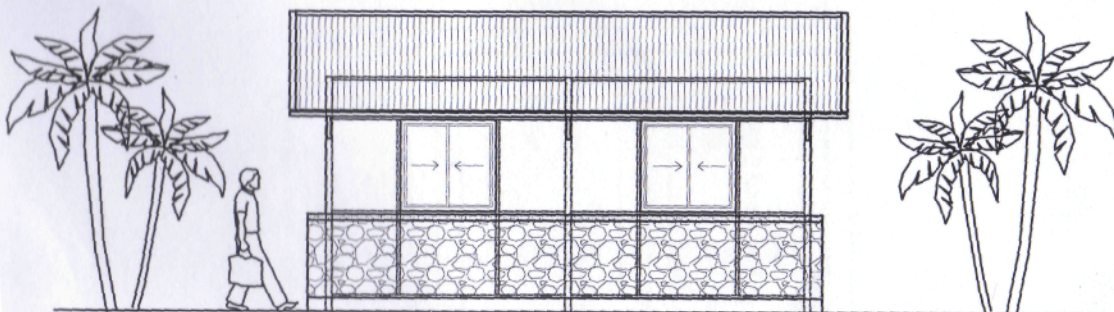




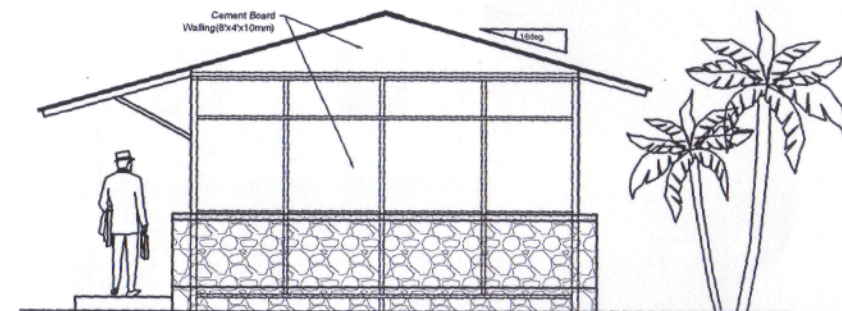
FRONT ELEVATION



RIGHT SIDE ELEVATION



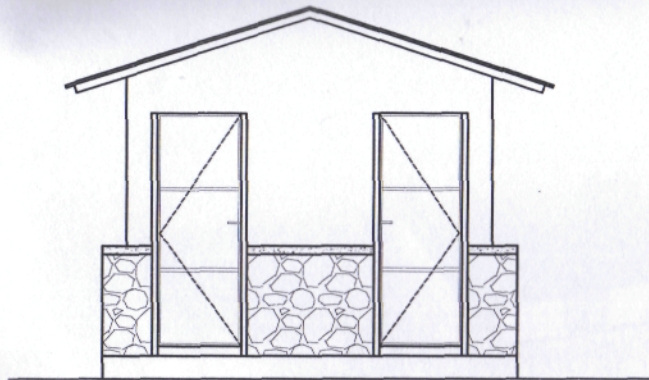
BACK ELEVATION



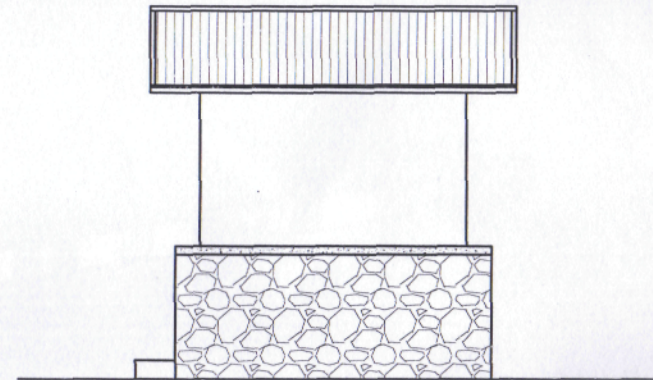
LEFT SIDE ELEVATION

PROPOSED TEACHER ROOM(20'X16')
(WITH 18" THK STONE MASONRY WALL)

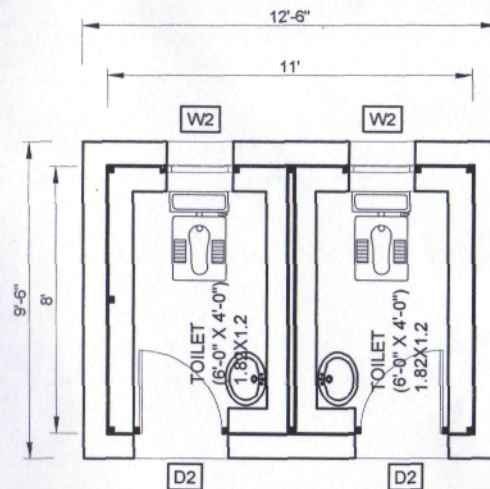




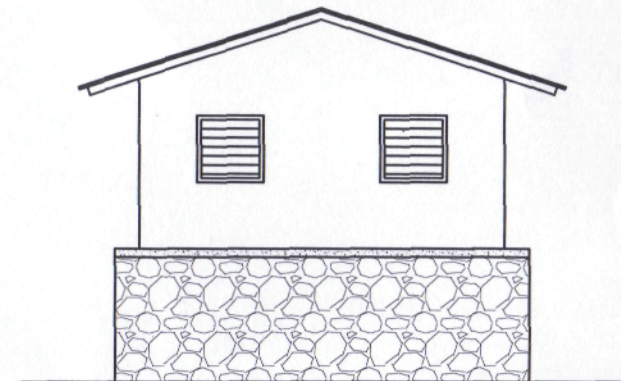
FRONT ELEVATION



RIGHT/LEFT SIDE ELEVATION



PROPOSED PLAN

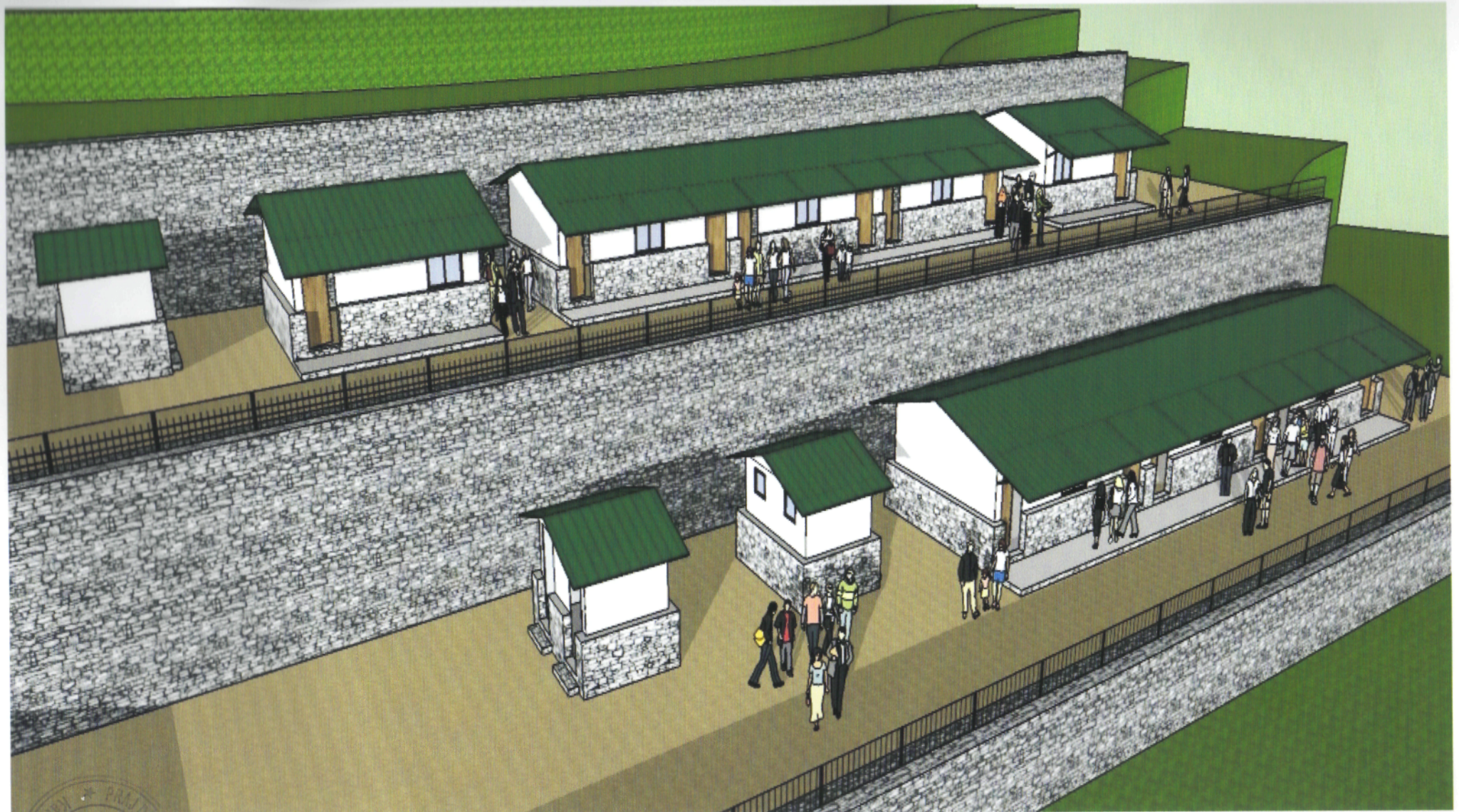


BACK ELEVATION

PROPOSED TOILET(11'X9'-6")
(WITH 18" THK STONE MASONRY WALL)



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Sindhupalchowk, Kavre, Nepal.



NORTH-EAST VIEW

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