

Planning and Designing a Building

Residential Building - Line Plan & References – Model 1

The diagram on the left-hand side illustrates line diagram and table on the right-hand side gives the specification doors and windows.



Line Diagram

References		
D	Door	120x210 cm
D₁	Door	90x210 cm
D₂	Door	75x210 cm
W	Window	180x120 cm
W₁	Window	180x120 cm
W₂	Window	180x120 cm
W₃	Window	180x120 cm

Residential Building – Detail Plan

The Plan illustrates the detail planning of a residential building for the given line diagram with wall thickness and doors, windows and their position.



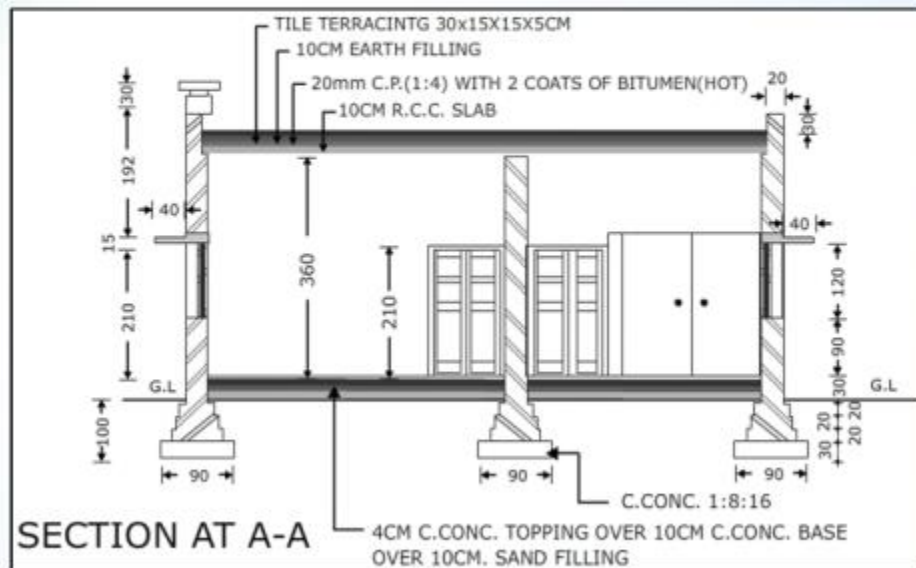
Residential Building – Elevation

The figure illustrates the front elevation of the residential building.



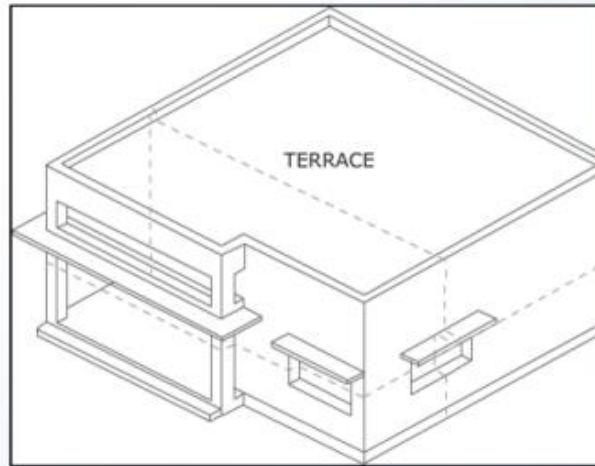
Residential Building – Detail Elevation

The figure illustrates the detail section at A-A of the residential building.



Residential Building – Isometric View

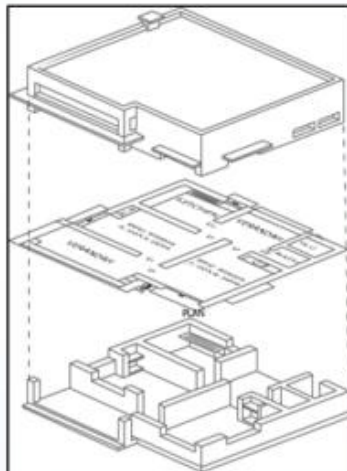
The figure illustrates the isometric view of a residential building which shows the top view, front view and right view.



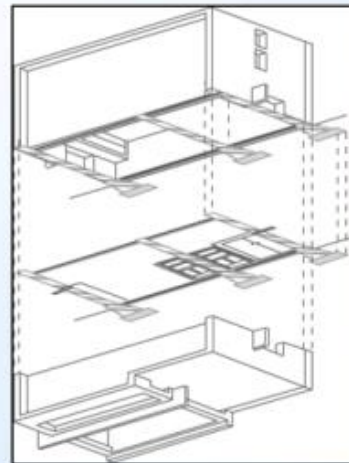
Isometric View

Residential Building – Methods of Drawing Plan and Section

The left figure illustrates the method of drawing the plan i.e., by cutting the building by a horizontal plane as shown in middle and right figure illustrates the method of drawing the section i.e., by cutting the building by a vertical plane as shown.



Civil Engineering Drawing



Planning of Building

Residential Building – Model-2

For the line diagram given with the specifications to draw plan, sections, elevation of a residential building.



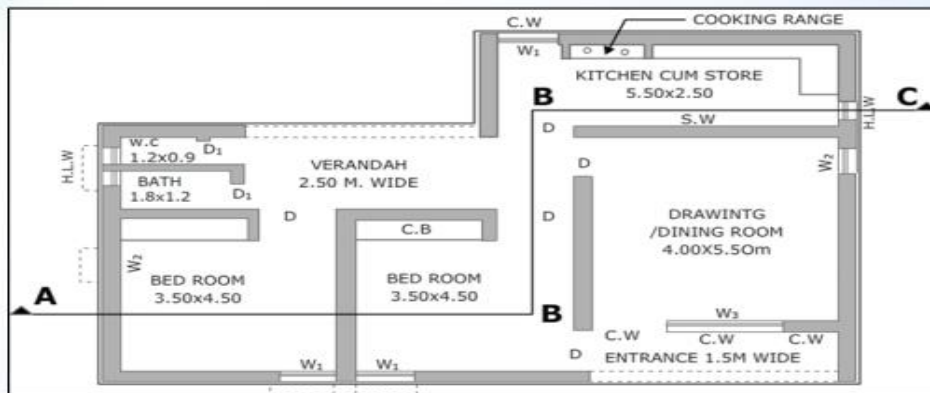
Line Diagram

References

D	1.20 x 2.10 M
D1	0.75 x 2.10 M
W3	1.80 x 1.20 M
W2	0.75 x 1.20 M
HLW	0.50 x 0.60 M
CB	2.30 x 2.10 M

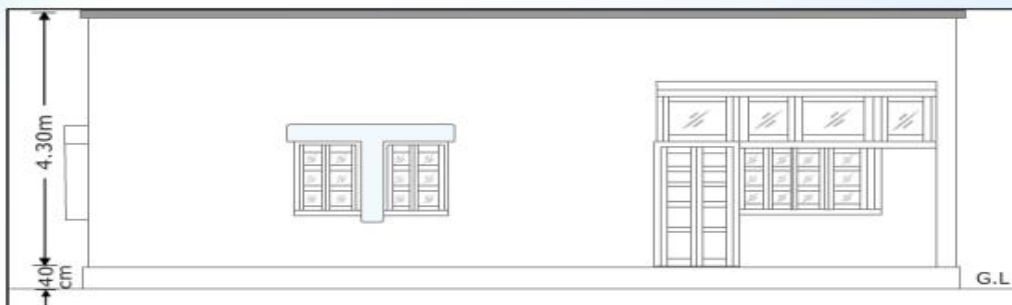
Residential Building – Plan of Model-2

The figure illustrates the plan drawn from the given line diagram of a residential building - model 2.



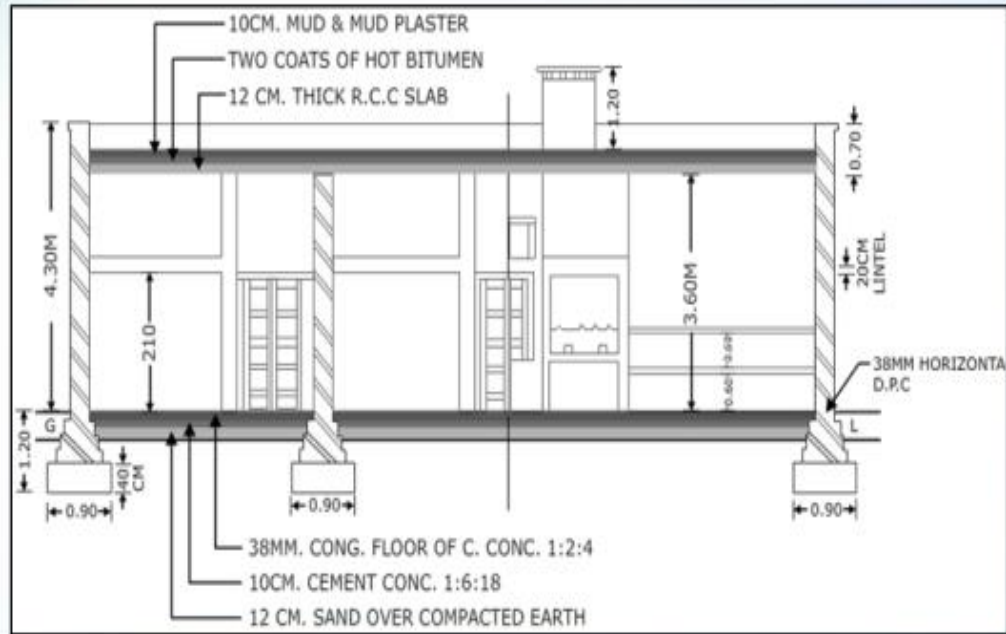
Residential Building – Front Elevation of Model-2

The figure illustrates the **FRONT ELEVATION** of a residential building – model 2.



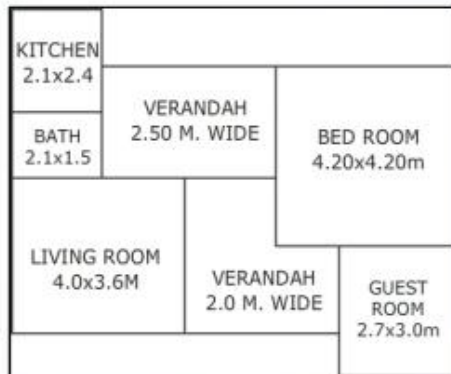
Residential Building – Section on ABC for Model-2

The figure illustrates the **section on ABC** of a residential building – model 2.



Residential Building – Model-3

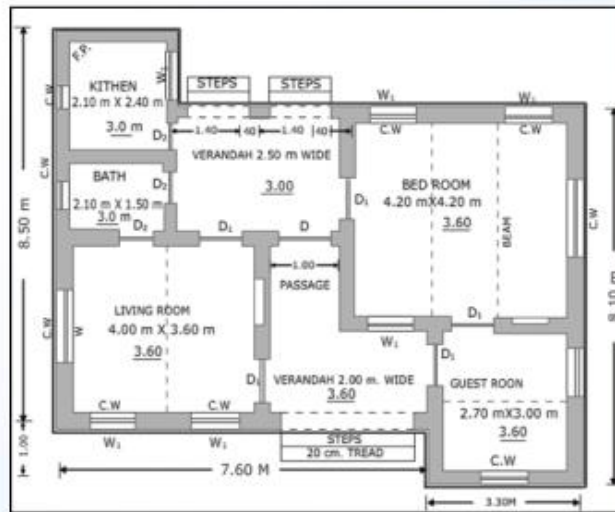
For the line diagram given with the specifications to draw plan, sections, elevation of a residential building.



References	
D	1.20 m X 2.10 m
D ₁	0.90 m X 2.10 m
D ₂	0.75 m X 2.10 m
W ₁	1.00 m X 1.20 m
W	1.50 m X 1.20 m
CW	2.30 m X 2.10 m

Residential Building –Plan of Model-3

The figure illustrates the plan drawn from the given line diagram of a residential building - model 3.



Residential Building –Elevation of Model-3

The figure illustrates the **FRONT ELEVATION** of a residential building – model 3.



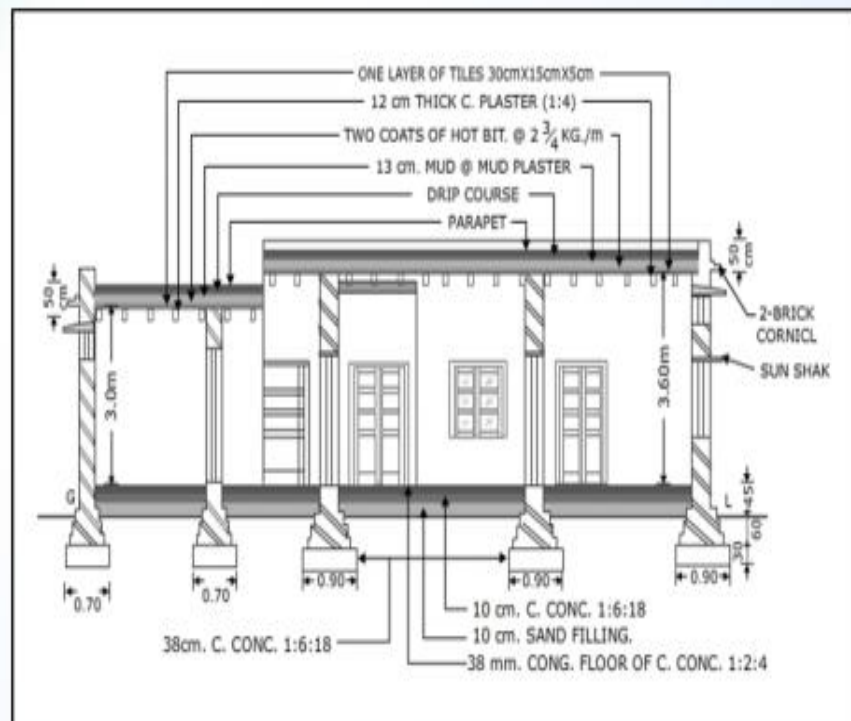
Residential Building –Back Elevation of Model-3

The figure illustrates the **BACK ELEVATION** of a residential building – model 3.



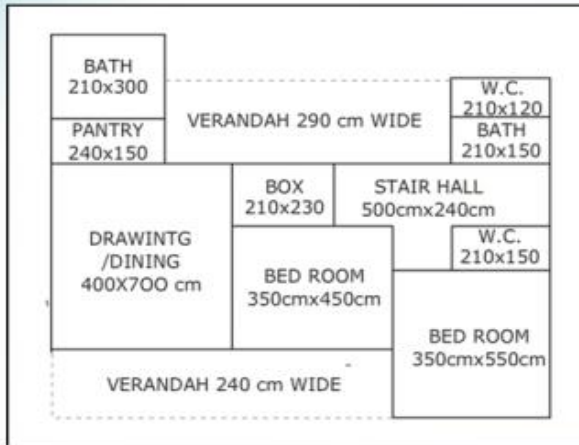
Residential Building –Section on ABC for Model-3

The figure illustrates the **SECTION ON ABC** of a residential building – model 3.



Residential Building – Ground Floor Line Plan of Model-4

For the line diagram given with the specifications to draw plan, sections, elevation of a residential building.

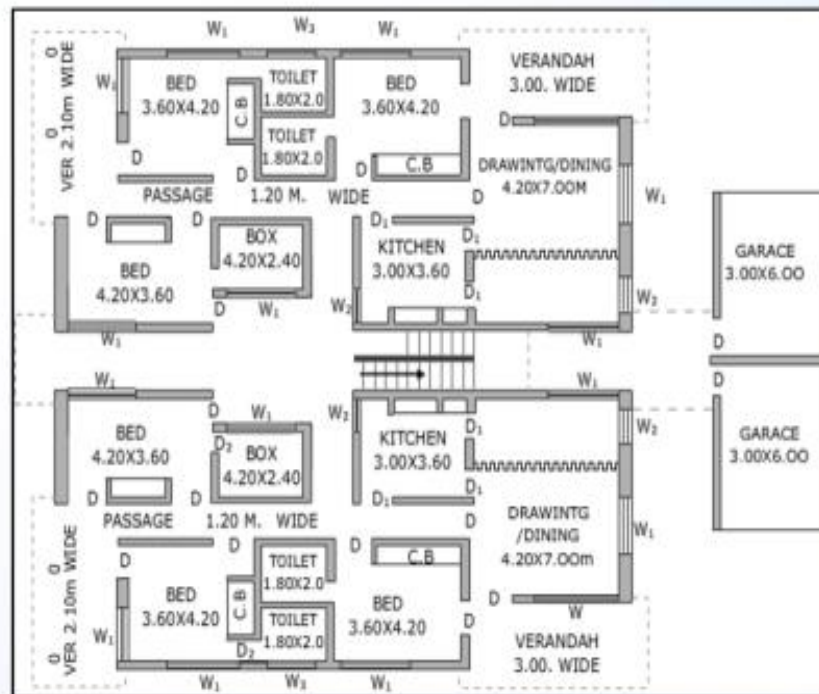


Line Plan (Ground Floor)

References		
D	Door	120 cm x 210 cm
D ₁	Door	90 cm x 210 cm
D ₂	Door	75 cm x 210 cm
W	Window	200 cm x 120 cm
W ₁	Window	150 cm x 120 cm
W ₂	Window	120 cm x 120 cm
W ₃	Window	90 cm x 120 cm
C.W	Cler Storey Window	90 cm x 45 cm
C.B ₁	Cup-Board	100 cm x 200 cm
C.B ₂	Cup-Board	116 cm x 200 cm

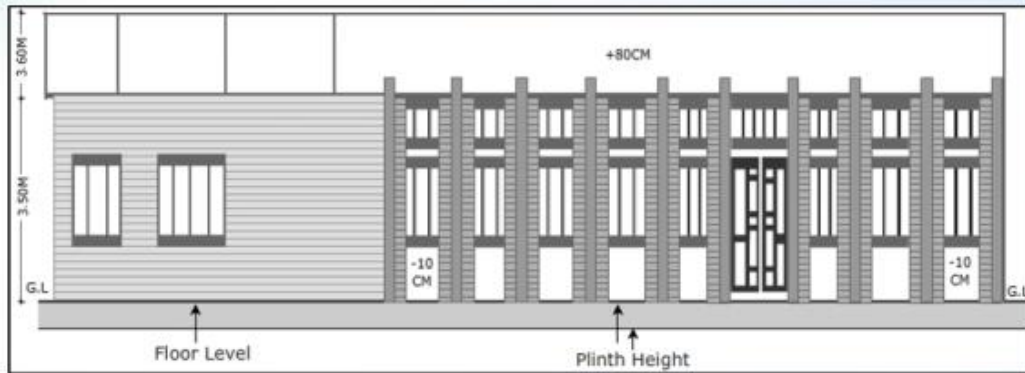
Hospital Building – Planning and Designing

The diagram represents the plan of a hospital building.



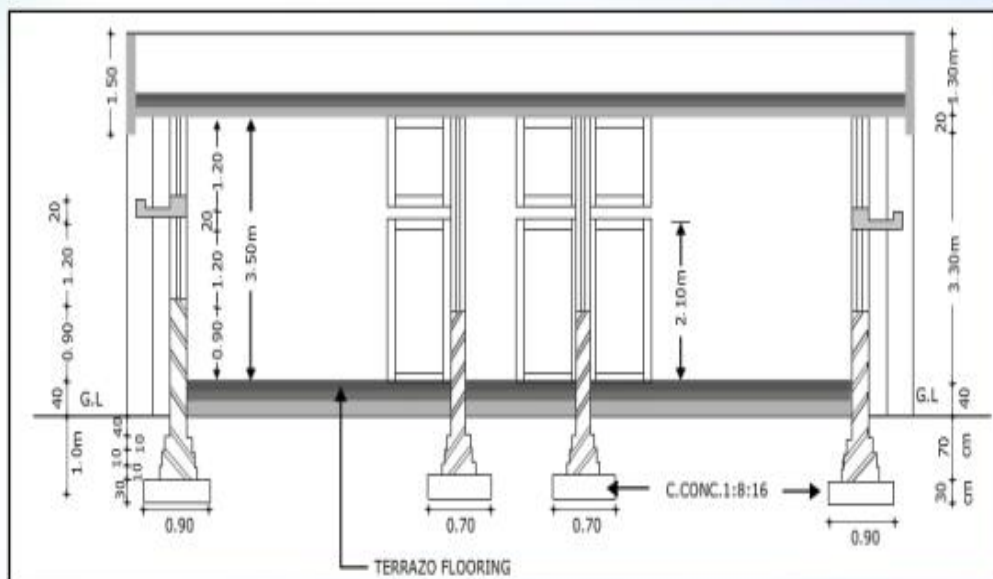
Hospital Building – Front Elevation

The figure illustrates **Front Elevation** of a hospital building.



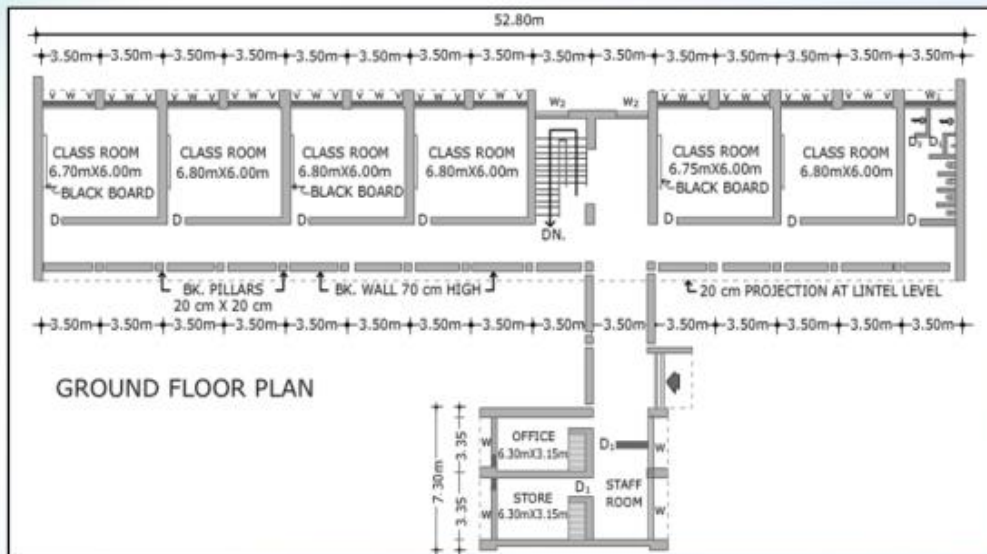
Hospital Building – Section at X-X

The figure illustrates section at X-X of a hospital building.



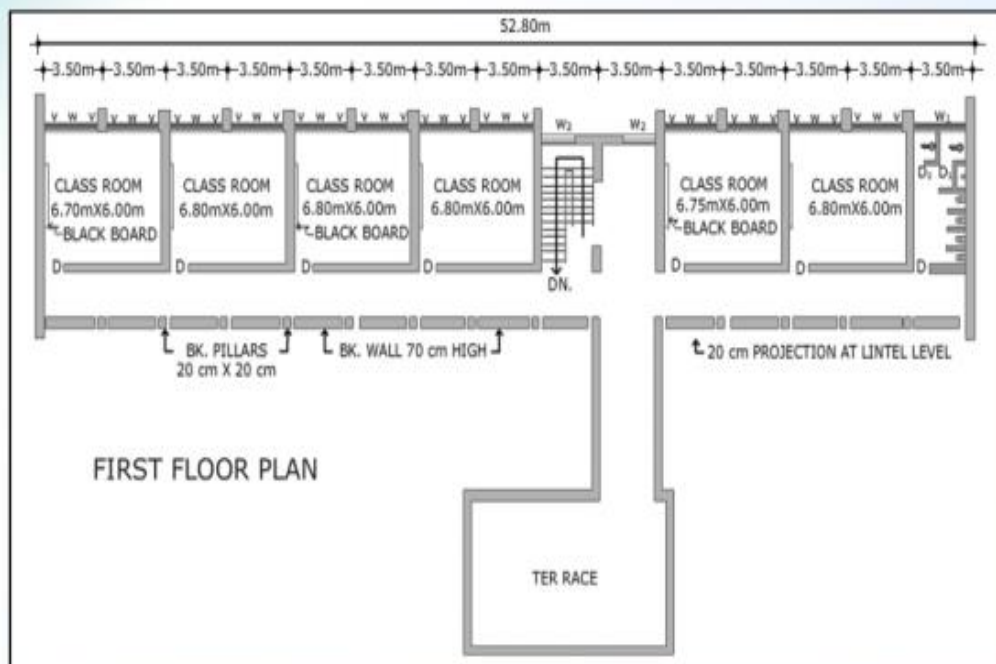
School Building – Ground Floor Plan

The figure illustrates ground floor plan of a school building.



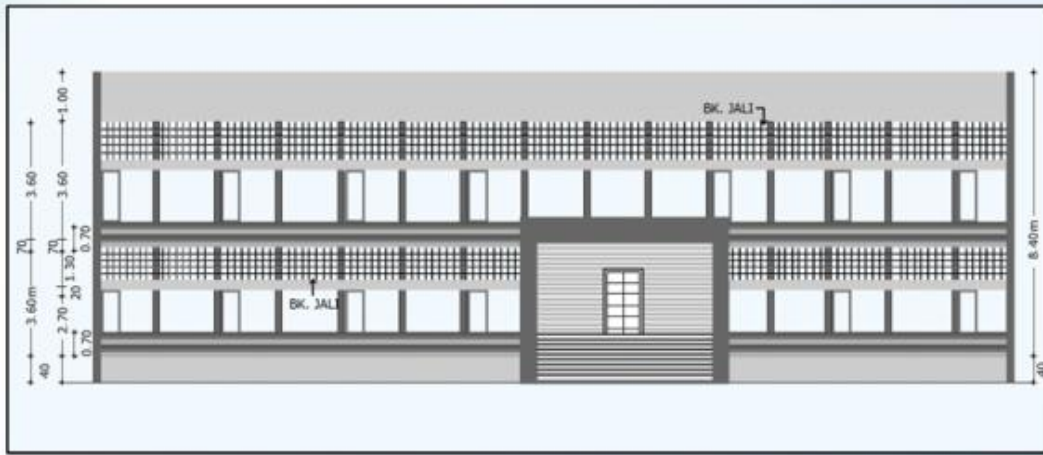
School Building – First Floor Plan

The figure illustrates first floor plan of a school building.



School Building – Front Elevation

The figure illustrates front elevation of a school building.



School Building – Section at A-B

The figure illustrates Section at A-B of a school building.

