

BRIEF SPECIFICATION OF SCHOOL BUILDING

S.No.	ITEM	Specification
1	Foundation	
1.1	Foundation	Isolated and combined foundation as per structure design for G+1 story.
2	Superstructure	
2.1	Superstructure	RCC framed construction with filler walls in brick work of 205/125 mm thick in cement mortar 1:4/1:3 as per requirement
2.2		Internal partition - half brick masonry in cement mortar 1:3
3	Frames	
3.1	Window Frames	Press metal of profile C (Single rebate) frames as per CPWD specifications with provision of glazed shutters only.
3.2	Door Frames	Press metal frame of profile C (Single rebate) as per CPWD specifications. Only school entrance doors at ground floor are of aluminum.
4	Shutters	
4.1	Window shutter	MS tubular glazed shutters for all windows.
4.2	Door shutter Flush Door shutters	<ol style="list-style-type: none"> 1. 35 mm thick non decorative flush door shutters ISI marked as per CPWD specification. 2. Only school entrance doors at ground floor are of aluminum.
5	Flooring	
5.1	Entrance lobby	Granite flooring with granite skirting.
5.2	Class room, corridor, Dormitory, entrance lobby etc	Kota stone flooring with kota skirting
5.3	Chemistry lab platform	Acid resistance tile
5.4	Outer Wall face of classes and labs (corridor walls)	Glass mosaic tiles

5.5	Skirting/Dado in toilets walls	Ceramic glazed wall tiles of approved design up to ht. of 2100 mm.
5.6	Toilet flooring	Ceramic glazed floor tiles of approved design as per CPWD specification.
5.7	Ramp	Chequered precast cement concrete tiles 22 mm thick.
5.8	Principal, V. Principal & Staff Room	Vitrified tile flooring with vitrified skirting of size with vitrified skirting of size 600 X 600 mm.
5.9	Courtyard	Cement flooring
5.10	School main entrance	Red sand stone flooring
6	Finishing	
6.1	Internal wall/ceiling	All internal walls are to be painted with dry distemper with white cement based putty of 1mm thick.
6.2	External wall	All external walls are finished with water proofing cement paint of required shade as per specification CPWD.
6.3	Cupboard	<p>Providing and fixing storage unit height made out of 19 mm commercial board for verticals, top, bottom and intermediate vertical partitions as per drawing detail.</p> <p>Shutters shall be in 25 mm commercial board with teak wood lipping all-round. The front to be finished with 1 mm thick laminate. 6mm ply shall be use at back of cupboard.</p> <p>Shelves: Shelves are made of 19 mm BWR grade plywood with teak wood lipping. The teak wood lipping shall be polished. All top of shelves shall be laminated with 1.0 mm thick laminate of white shade.</p> <p>The top of storage unit also to be finished with a 1mm thick laminate.</p> <p>The bottom/sides of shelves and other surfaces to be painted with enamel paint of approved shade.</p> <p>Following hardware to be provided in cupboards: Aluminum Handles of 125mm long for each shutter, 1 tower bolt of 150 X10 mm and 2 magnetic catchers with 1 brass cupboard lock.</p>
6.4	Door & Window painting	Synthetic enamel paint on all wood work and steel work after coat of primer unless otherwise noted. Grills to be painted with synthetic enamel.
6.5	Railing	MS railing for internal & external staircase corridor, ramp, etc

6.6	Fittings	MS fitting as per CPWD specification.
6.7	Red sand stone Cladding	Boxing at front elevation.
7	Sanitary fixtures	
7.1	W.C	One European WC in one set of toilet and rest of all WCs are Indian type with PVC cistern as per CPWD specifications. All European WC's in staff toilet.
7.2	Sanitary pipe	CI pipes & it's necessary fittings
7.3	Water supply	CPVC pips for internal and for exposed water supply line and fittings
7.4	MH to MH	Non pressure NP2 pipes
8	Electrical	
8.1	Electric Accessories	Modular switches. Ceiling Fan , CFL light fittings PVC conduits & fittings pipe medium grade. Exhaust fan as per requirement Geyser & Cooler points as per requirement.
8.2	Electrical wiring	FRLS Wiring

BRIEF SPECIFICATION OF TYPE II BUILDING

S.No.	ITEM	Specification
1	Foundation	
1.1	Foundation	Isolated & combined foundation as per structure design for G+ 1 stories.
2	Superstructure	
2.1	Superstructure	RCC framed construction with filler walls in brick work of 125/250 mm thick in cement mortar 1:4/1:3 as per requirement
2.2		Internal partition - half brick masonry in cement mortar 1:3
3	Frames	
3.1	Window Frames	Press metal of profile E (Double rebate) frames as per CPWD specifications with provision of glazed shutters wire gauge shutter.
3.2	Door Frames	T iron frames as per CPWD specifications. Only door cum window frames are of press metal frame of profile E (Double rebate) as per CPWD specifications.
4	Shutters	
4.1	Window shutter	35mm chemical treated hollock wood panelled glazed shutters for Window with 5.5 mm thick float glass and wire gauge shutter.
4.2	Door shutter	35 mm thick non decorative flush door shutters ISI marked as per CPWD specification.
5	Flooring	
5.1	Staircase treads	Kota stone flooring with marble skirting/risers.
5.2	Living room	Vitrified floring with vitrified skirting

5.3	Toilet flooring	Ceramic glazed floor tiles of approved design as per CPWD specification.
5.4	Skirting/Dado in toilets walls	Ceramic glazed wall tiles of approved design upto ht. of 2100 mm and 600 mm from kitchen counter top..
5.5	Main entrance & side verandah treads	Chequerred precast cement concrete tiles 22 mm thick.
5.6	Bed room, kitchen & cupboard base	Terrazo tile with cement skirting
6	Finishing	
6.1	Internal wall/ceiling	All internal walls are to be painted with oil bound distemper over white cement based putty of average thickness 1 mm except some rooms describe in S.No. 6.2 and ceiling also.
6.2	Kitchen & toilet	All internal walls are to be painted with white wash and ceiling also.
6.3	External wall	All external walls are finished with premium acrylic smooth exterior paint and water proofing compound shall be used in external plaster from PGL to plinth lvl. Plaster of required shade as per specification CPWD.
6.4	Cupboard	<p>Providing and fixing storage unit height made out of 19 mm commercial board for verticals, top, bottom and intermediate vertical partitions as per drawing detail.</p> <p>Shutters shall be in 25 mm commercial board with teak wood lipping all-round. The front to be finished with 1 mm thick laminate.6mm ply shall be use at back of cupboard.</p> <p>Shelves: Shelves are made of 19 mm BWR grade plywood with teak wood lipping. The teak wood lipping shall be polished. All top of shelves shall be laminated with 1.0 mm thick laminate of white shade.</p> <p>The top of storage unit also to be finished with a 1mm thick laminate.</p> <p>The bottom/sides of shelves and other surfaces to be painted with enamel paint of approved shade.</p> <p>Following hardware to be provided in cupboards: Aluminum Handles of 125mm long for each shutter, 1 tower bolt of 150 X10 mm and 2 magnetic catchers with 1 brass cupboard lock.</p>
6.4	Door & Window painting	Synthetic enamel paint on all wood work and steel work after coat of primer unless otherwise noted.

		Grills to be painted with synthetic enamel.
6.5	Railing	MS railing for internal & external staircase corridor, ramp, etc
6.6	Fittings	MS fitting as per CPWD specification.
7	Sanitary fixtures	
7.1	W.C	One European WC and rest of WC's are Indian type with PVC cistern as per CPWD specifications.
7.2	Sanitary pipe	CI pipes & it's necessary fittings
7.3	Water supply	CPVC pips for internal and for exposed water supply line and fittings
7.4	MH to MH	Non pressure NP2 pipes
8	Electrical	
8.1	Electric Accessories	Modular switches. Ceiling Fan , CFL light fittings PVC conduits & fittings pipe medium grade. Exhaust fan as per requirement Geyser & Cooler points as per requirement.
8.2	Electrical wiring	FRLS Wiring

BRIEF SPECIFICATION OF TYPE III BUILDING

S.No.	ITEM	Specification
1	Foundation	
1.1	Foundation	Isolated & combined foundation as per structure design for G+ 2 stories.
2	Superstructure	
2.1	Superstructure	RCC framed construction with filler walls in brick work of 125/250 mm thick in cement mortar 1:4/1:3 as per requirement
2.2		Internal partition - half brick masonry in cement mortar 1:3
3	Frames	
3.1	Window Frames	Press metal of profile E (Double rebate) frames as per CPWD specifications with provision of glazed shutters wire gauge shutter.
3.2	Door Frames	For all internal doors T iron frames shall be provided as per CPWD specifications. Only door cum window frames are of press metal frame of profile E (Double rebate) as per CPWD specifications.
4	Shutters	
4.1	Window shutter	35mm chemical treated hollock wood panelled glazed shutters for Window with 5.5 mm thick float glass and wire gauge shutter.
4.2	Door shutter	35 mm thick non decorative flush door shutters ISI marked as per CPWD specification.
5	Flooring	
5.1	Staircase treads	Kota stone flooring with marble skirting/risers.
5.2	Living room	Vitrified flooring with vitrified skirting

5.3	Toilet flooring	Ceramic glazed floor tiles of approved design as per CPWD specification.
5.4	Skirting/Dado in toilets walls	Ceramic glazed wall tiles of approved design upto ht. of 2100 mm and 600 mm from kitchen counter top..
5.5	Main entrance & side verandah treads	Chequered precast cement concrete tiles 22 mm thick.
5.6	Bed room, kitchen & cupboard base	Terrazo tile with cement skirting
6	Finishing	
6.1	Internal wall/ceiling	All internal walls are to be painted with oil bound distemper over white cement based putty of average thickness 1 mm except some rooms describe in S.No. 6.2 and ceiling also.
6.2	Kitchen & toilet	All internal walls are to be painted with white wash and ceiling also.
6.3	External wall	All external walls are finished with premium acrylic smooth exterior paint and water proofing compound shall be used in external plaster from PGL to plinth lvl. Plaster of required shade as per specification CPWD.
6.4	Cupboard	<p>Providing and fixing storage unit height made out of 19 mm commercial board for verticals, top, bottom and intermediate vertical partitions as per drawing detail.</p> <p>Shutters shall be in 25 mm commercial board with teak wood lipping all-round. The front to be finished with 1 mm thick laminate. 6mm ply shall be use at back of cupboard.</p> <p>Shelves: Shelves are made of 19 mm BWR grade plywood with teak wood lipping. The teak wood lipping shall be polished. All top of shelves shall be laminated with 1.0 mm thick laminate of white shade.</p> <p>The top of storage unit also to be finished with a 1mm thick laminate.</p> <p>The bottom/sides of shelves and other surfaces to be painted with enamel paint of approved shade.</p> <p>Following hardware to be provided in cupboards: Aluminum Handles of 125mm long for each shutter, 1 tower bolt of 150 X10 mm and 2 magnetic catchers with 1 brass cupboard lock.</p>
6.4	Door & Window painting	Synthetic enamel paint on all wood work and steel work after coat of primer unless otherwise noted.

		Grills to be painted with synthetic enamel.
6.5	Railing	MS railing for internal & external staircase corridor, ramp, etc
6.6	Fittings	MS fitting as per CPWD specification.
7	Sanitary fixtures	
7.1	W.C	One European WC and rest of WC's are Indian type with PVC cistern as per CPWD specifications.
7.2	Sanitary pipe	CI pipes & it's necessary fittings
7.3	Water supply	CPVC pips for internal and for exposed water supply line and fittings
7.4	MH to MH	Non pressure NP2 pipes
8	Electrical	
8.1	Electric Accessories	Modular switches. Ceiling Fan , CFL light fittings PVC conduits & fittings pipe medium grade. Exhaust fan as per requirement Geyser & Cooler points as per requirement.
8.2	Electrical wiring	FRLS Wiring

BRIEF SPECIFICATION OF TYPE V BUILDING

S.No.	ITEM	Specification
1	Foundation	
1.1	Foundation	Isolated foundation as per structure design for ground floor only.
2	Superstructure	
2.1	Superstructure	RCC framed construction with filler walls in brick work of 125/250 mm thick in cement mortar 1:4/1:3 as per requirement
2.2		Internal partition - half brick masonry in cement mortar 1:3
3	Frames	
3.1	Window Frames	Press metal of profile E (Double rebate) frames as per CPWD specifications with provision of glazed shutters wire gauge shutter.
3.2	Door Frames	<ol style="list-style-type: none"> 1. Only internal door frames are of press metal frame of profile C (Single rebate) as per CPWD specifications. 2. All door cum window door frames are press metal of profile E (Double rebate) frames as per CPWD specifications. 3. T iron frames for the MS door/entrance door.
4	Shutters	
4.1	Window shutter	35mm 2 nd class teak wood panelled glazed shutters for Window with 5.5 mm thick float glass and wire gauge shutter.
4.2	Door shutter	<ol style="list-style-type: none"> 1. 35 mm thick non decorative flush door shutters ISI marked as per CPWD specification. 2. MS door at the entrance of quarter.
5	Flooring	
5.1	All floors	Kota stone flooring with marble skirting/risers except rooms describe in S.No. 6.2
5.2	Living & dining room	Vitrified floring with vitrified skirting

5.3	Toilet flooring	Ceramic glazed floor tiles of approved design as per CPWD specification.
5.4	Skirting/Dado in toilets walls	Ceramic glazed wall tiles of approved design upto ht. of 2100 mm and 600 mm from kitchen counter top..
6	Finishing	
6.1	Internal wall/ceiling	All internal walls and ceiling are to be painted with oil bound distemper over white cement based putty of average thickness 1 mm.
6.2	External wall	All external walls are finished with premium acrylic smooth exterior paint and water proofing compound shall be used in external plaster from PGL to plinth lvl. Plaster of required shade as per specification CPWD.
6.3	Cupboard	<p>Providing and fixing storage unit height made out of 19 mm commercial board for verticals, top, bottom and intermediate vertical partitions as per drawing detail.</p> <p>Shutters shall be in 25 mm commercial board with teak wood lipping all-round. The front to be finished with 1 mm thick laminate. 6mm ply shall be use at back of cupboard.</p> <p>Shelves: Shelves are made of 19 mm BWR grade plywood with teak wood lipping. The teak wood lipping shall be polished. All top of shelves shall be laminated with 1.0 mm thick laminate of white shade.</p> <p>The top of storage unit also to be finished with a 1mm thick laminate.</p> <p>The bottom/sides of shelves and other surfaces to be painted with enamel paint of approved shade.</p> <p>Following hardware to be provided in cupboards: Aluminum Handles of 125mm long for each shutter, 1 tower bolt of 150 X10 mm and 2 magnetic catchers with 1 brass cupboard lock.</p>
6.4	Door & Window painting	Synthetic enamel paint on all wood work and steel work after coat of primer unless otherwise noted. Grills to be painted with synthetic enamel.
6.5	Railing	MS railing for internal & external staircase corridor, ramp, etc
6.6	Fittings	MS fitting as per CPWD specification.
7	Sanitary fixtures	
7.1	W.C	Two European WC and two Indian WCs type with PVC cistern as per CPWD specifications.
7.2	Sanitary pipe	CI pipes & it's necessary fittings

7.3	Water supply	CPVC pips for internal and for exposed water supply line and fittings
7.4	MH to MH	Non pressure NP2 pipes
8	Electrical	
8.1	Electric Accessories	Modular switches. Ceiling Fan , CFL light fittings PVC conduits & fittings pipe medium grade. Exhaust fan as per requirement Geyser & Cooler points as per requirement.
8.2	Electrical wiring	FRLS Wiring