

vkokl h; , oa vukokl h; Hkouks dh fof'krV; ks ea i fjozU

dk; kzy; i ed[k vfhk; Urk] m0i0] yk0fu0fo0] y[kuÅ Hkou oxz ds dk; kzy; Kki l q; k&1210@69ohih vfoax%13 frukad 5-6-13] ed; vfhk; Urk Hkou% }kjk i0z ea frukad 4-11-2008 dks iujhf{kr fof'krV; ks ea l akku tkjh fd; k x; k gS A fofHku izdkj ds vkokl h; @vukokl h; Hkouks ds fuekzk ea l akks/kr fof'krV; ks ea enokj Vcyj OkeZ ea l yHk l nHkZ ea l dfyr fd; k x; k gS ft l l sfd Hkfo"; ea fuekzk fd; s tkus okys Hkouks ea fof'krV; ks dks ykxwfd; k tk; sA dk; Z djus l simZ ed; vfhk; Urk Hkou% }kjk mijkr of.kr i= l siqV djuk vko'; d gSA

Specification for Residential Building

S.No.	Item	Specification	Spec. No.	Provision in Type of Building	Unit	Rate
1	2	3	4	5	6	7
1- Foundation & Plinth						
1.1	Plinth Filling	150mm thick local sand filling in plinth	NBO No. 4.24	Type All		
1.2	Foundation concrete	Cement concrete 1:4:8(1 cement 4 coarse sand 8 stone aggregate 40mm nominal size)	CPWD 4.1.8	Type All		
1.3	Foundation plinth masonry	Brick work in 1:6(1 cement 6 coarse sand with class M-15 bricks or cement concrete blocks/fly ash blocks.	Detail spec. 6.1 revised	Type All		
1.4	Height of plinth	Minium 600mm or as per requirement at site.		Type All		
2- Super Structure						
2.1.1	Damp proof course	40mm thick cement concrete consisting of one part cement 2 part approved coarse sand and 4 part graded stone aggregate 12.5 mm nominal size and including water proofing (ISI Mark) materials in the proportion as specified by the manufacturer. (DPC shall not be provided over RCC plinth band)		Type All		
2.1.2	Water proof coating	Bituminous coating or polymer modified cementious water proof coating over DPC/ RCC		Type All		
2.2	Plinth	15mm thick plaster with cement and coarse sand mortar 1:4 shall be done both side of brick work inner side 15cm below plinth and out side 15cm below GL		Type All		
2.3	Super Structure masonry	1:6 cement and coarse sand mortar or other equivalent specification only up to three stories using M-10 Bricks in framed structures & M-15 brick in load bearing structures as per design or cement concrete blocks/Fly ash blocks	Detail spec. 6.1 revised	Type All		
2.4.1	Slab columns and beam	RCC Slab columns and beams in Min M-20 grade mix concrete.	Detail spec. 5.6 revised	Type All		
2.4.2	Lintels	RCC lintel in min M-20 grade Mix concrete/ prefabricated RCC lintels up to 10 cm thickness as per design.	Detail spec. 5.6 revised	Type All		
2.4.3	RCC Shelves	25 mm thick RCC in min M-20 grade Mix concrete with neat cement top/Prefabricated shelves as per requirement.	Detail spec. 5.6 revised	Type All		
2.6	Clear height of finalized chief architect	(a) 3 meter height		Type 1,2,3		
		(b) 3.3 meter height		Type 4,5		
3- Door/ Window Frames						
3.1	Frames for doors	(a) Angle iron 35x35x5mm meant for door Chaukhat including 4 hinges up to 2.5 sqm area of door shutter	Detail spec. 9.1 revised	Type 1,2,3		

S.No.	Item	Specification	Spec. No.	Provision in Type of Building	Unit	Rate
1	2	3	4	5	6	7
		(b) Angle iron 40x40x5mm meant for door Chaukhat including 4 hinges up to 2.5 sqm area of door shutter	Detail spec. 9.1 revised	Type 4		
		(c) Sal wood Chaukhat frame in Double door section 60x120mm and single door section 60x100mm wood section to be provided.	Detail spec. 9.1 revised	Type 5		
3.2	Frames for windows	(a) Z-Section windows (ISI Mark)/ MS Tubular Box section window made of cold rolled formed continuous seam welded M.S. tubular box section made from corrosion resistant coated conforming to IS 513.-1973 size of welded tubular Z-profile and T-profile are 50x23 mm x16gauge with suitable flush but welded and lugs 100mm long of 19x3 mm size embedded in cement concrete blocks 150x100x100mm of 1:3:6 (1cement 3coarse sand 6 stone aggregate 20mm nominal size) or with plugs and screws of with Rawal plugs and screws required including providing and fixing of 4mm thick glass panes with glazing and special metal sash putty of approved make complete including MS oxidised casement fastener (125 mm length weighing not less than 100 gms.) MS Oxidised Peg stay (200mm length weighing not less than 240gms) and box type hinges 65 mm length and of 2.5mm thick Galvanised pin of 6mm dia and applying a priming of approved steel primer.	Detail spec. 9.1 revised	Type 1,2,3		
		(b) same as above but with double door attachment 14x26gauge stainless steel jali on inner side and glazed door attachment on outer side.	Detail spec. 9.1 revised	Type 4		
		(c) Sal wood Chaukhat frame in Double door section 60x120mm and single door section 60x100mm wood section to be provided.	Detail spec. 9.1 revised	Type 5		
4- Door & Window Shutter						
4.3	A- Doors shutter	(a) 30mm thick flush door shutters (ISI Marked)	Detail spec. 9.2 revised	Type 1		
		(b) Flush door shutters 30mm thick (ISI Marked) Door of kitchen shall be of Jali.	Detail spec. 9.2 revised	Type 2, 3		
		(c) Flush door shutters 35mm thick (ISI Marked) with both side decorative veneering laminated (1mm), Door of kitchen shall be of Jali.	Detail spec. 9.2 revised	Type 4, 5		
	B- Mosquito proof door shutters	(a) Outer doors to be with 30mm thick pressed ply jali shutters with 14x26 gauge jali on windows or Stainless steel jali shutter with angle iron frame.	Detail spec. 9.6 revised	Type 1,2,3		
		(b) Outer doors to be with 35mm thick pressed ply jali shutters with 14x26 gauge jali on windows or Stainless steel jali shutter with angle iron frame.	Detail spec. 9.6 revised	Type 4		
		(c) 35mm thick 2nd class teak shutter with 14x26 gauge staninless steel jali.	Detail spec. 9.6 revised	Type 5		
	C- Latrine or bathroom and court yard shutters	(a) 30mm thick flush door shutters (ISI Marked) with 1mm thick lamination both side shall be provided work stainless steel nails or Solid PVC door shutters or cement based particle board panelled doors and B.P. sheet panel door for court yard.	Detail spec. 9.2 revised	Type 1,2,3		

S.No.	Item	Specification	Spec. No.	Provision in Type of Building	Unit	Rate
1	2	3	4	5	6	7
		(b) 35mm thick flush door shutters (ISI Marked) with 1mm thick lamination both side shall be provided work stainless steel nails or Solid PVC door shutters or cement based particle board panelled doors and B.P. sheet panel door for court yard.	Detail spec. 9.2 revised	Type 4, 5		
4.4	Window shutter & Grill	(a) Z-Section windows (ISI Mark) shutter with the iron safety bars of 10mm square bar or as per Architectual design.	Detail spec. 9.2 revised	Type 1,2,3		
		(b) Window shutters to be of 35mm thick pressed ply with one side teak veneer or 2nd class teak wood jali shutters with 14x26 gauge jali or Stainless steel jali shutter with MS Tubular section and windows with a provision of A.C. instalation in master bed room with safety grills as per design & drawing.	Detail spec. 9.2 revised	Type 4		
		(c) Window shutters to be of 35mm thick 2nd class teak wood jali shutters with 14x26 gauge jali or Stainless steel jali shutter with MS Tubular section and on windows with a provision of A.C. instalation in all bed room and drawing room with safety grills as per design & drawing.	Detail spec. 9.2 revised	Type 5		
4.5	Door/Window fittings	(a) Oxidized iron fitting (ISI Markes)		Type 1,2,3		
		(b) Stainless Sheet or Aluminium Anodized fittings		Type 4		
		(c) Brass fittings.		Type 5		
5- Miscellaneous items						
5.1	Curtain Rod	(a) Curtain Rod with clamp		Type 1,2,3		
		(b) Drapery Rods		Type 4,5		
5.2	Ventilator	(a) Z-Section windows (ISI Mark)/ MS Tubular Box section window made of cold rolled formed continuous seam welded M.S. tubular box section made from corrosion resistant coated conforming to IS 513. 1973 size of welded tubular Z-profile and T-profile are 50x23 mm x16gauge with suitable flush but welded and lugs 100mm long of 19x3 mm size embedded in cement concrete blocks 150x100x100mm of 1:3:6 (1cement 3coarse sand 6 stone aggregate 20mm nominal size) or with plugs and screws of with Rawal plugs and screws required including providing and fixing of 4mm thick glass panes with glazing and special metal sash putty of approved make complete including MS oxidised casement fastener (125 mm length weighing not less than 100 gms.) MS Oxidised Peg stay (200mm length weighing not less than 240gms) and box type hinges 65 mm length and of 2.5mm thick Galvanised pin of 6mm dia and applying a priming of approved steel primer.	Detail spec. 9.1 revised	Type 1,2,3		

S.No.	Item	Specification	Spec. No.	Provision in Type of Building	Unit	Rate
1	2	3	4	5	6	7
		(b) same as above but with double door attachment 14x26gauge stainless steel jali on inner side and glazed door attachment on outer side.	Detail spec. 9.1 revised	Type 4		
		(c) Sal wood Chaukhat frame in Double door section 60x120mm and single door section 60x100mm wood section to be provided.	Detail spec. 9.1 revised	Type 5		
5.3	Enclosing front veranda New	Enclosing front veranda New		Type All		
5.4	Enclosing back veranda New	(a) To be enclosed with expanded metal and stainless mosquito proof jali.		Type 3		
		(b) Back and front veranda with wire stainless mosquito proof jali and giazed shutter with grills as per drawing.		Type 4,5		
5.5	Shutter in Almirah	(a) 25mm thick flush door shutter (one side laminated) to be provided.	Detail spec. 9.2 revised	Type 1,2,3,4		
		(b) 25mm thick flush door shutter (both side laminated) to be provided.	Detail spec. 9.2 revised	Type 5		
5.6	Rain water pipe new	110mm OD 6 kg/cm ² pressure SWR Pipe.		Type All		
5.7	Plastering	12-15 mm thick in 1:6 (1 Cement : 6 Sand with not less than FM 1.25) mortar.	Detail spec. 13.5.1 revised	Type All		
6- Flooring						
6.1	Floors	(a) All 40mm thick CC floors, except WC and bath 300x300mm Antishid/matt finished ceramic tiles over 20 mm thick 1:4 Cement mortar and green stone/ Kota stone in kitchen.	Detail spec. 14.6 revised	Type 1,2,3		
		(b) 600x600mm Vitrified tile flooring over 20mm thick 1:4 Cement sand mortar in all rooms, kota stone flooring over 20mm thick 1:4 cement sand mortar in lobby, gallery common space etc and 300x300mm Antisked/matt finished ceramic tiles over 20mm thick 1:4 cement mortar in WC, bath and kitchen.	Detail spec. 14.6 revised	Type 4,5		
7- Dado & Skirting						
7.1	Dado skirting	(a) 200x300mm ceramic tiles over 12 mm thick 1:3 cement mortar 90cm. High in WC and 1.5 mt high in Bath area.	Detail spec. 14.6 revised	Type 1,2,3		
		(b) 300x450mm ceramic tiles over 12 mm thick 1:3 cement mortar up to lintel level in WC, bath, wash area.	Detail spec. 14.6 revised	Type 4,5		
7.2	Apron	60cm wide 25mm thick in 1:2:4 cement concrete over 75mm 1:4:8 cement concrete and 75 cm to 90cm wide for more than 2 storey.	Detail spec. 14.6 revised	Type All		
7.3	Finish on wall of cooking plate form	(a) 200x300mm ceramic tiles over 12 mm thick 1:3 cement coarse sand mortar up to 600 mm high and 18 (+/- 2) mm thick polished kota stone over kitchen top platform.	Detail spec. 14.10.1 revised	Type 1,2,3		
		(b) 300x450mm ceramic tiles over 12 mm thick 1:3 cement coarse sand mortar up to 600 mm high and 18 (+/- 2) mm thick polished Granite stone over kitchen top platform.	Detail spec. 14.10.1 revised	Type 4,5		
7.4	Court yard	(a) 40mm thick 1:2:4 CC floor with glass strips of 5 mm thick up to 200 Sq.ft area.		Type 1,2		

S.No.	Item	Specification	Spec. No.	Provision in Type of Building	Unit	Rate
1	2	3	4	5	6	7
		(b) Same as above but with a provision of water line for washing machine at a suitable place.		Type 3		
		(c) courtyard 40 mm thick 1:2:4 CC flooring or cement tiles.		Type 4,5		
8- Finishing						
8.1	Outer finish	(a) 3 coat water proof cement paint		Type 1,2,3		
		(b) Two coats Sintex/Apex/Premium acylic smooth exterior paint with silicone additives over one primer coat.		Type 4,5		
8.2	Internal finish	(a) White wash 3 coats		Type 1		
		(b) Colour wash/White wash 3 coats		Type 2		
		(c) Oil bound distemper		Type 3		
		(d) same as typy-III but drawing room and master bed room, lobby with plastic emulsion paint on treated surface with cement base putty		Type 4,5		
9- Water Supply & Sanitary Fittings						
9.1	Sanitary fitting W.C.	(a) Orrisa pan 580mm with low level PVC cistern (ISI marked)		Type 1,2		
		(b) Orrisa pan/European pan 580mm with low level PVC cistern (ISI marked)		Type 3		
		(c) same as type-III but one seat may be Anglo Indian type.		Type 4		
		(d) same as type-III but two seats may be European or Anglo Indian type.		Type 5		
9.2	Wash Basin	(a) One WHB 450x300 mm size.		Type 1,2,3		
		(b) Wash Basin 550x400mm size two numbers or three in case both the bath rooms are combined.		Type 4		
		(c) 4 WHB of size 550x400mm size in both the bath rooms.		Type 5		
9.3	Shower	(a) To be provided one in bathroom		Type 3		
		(b) To be provided each bathroom		Type 4,5		
9.4	Sink and drain board in kitchen	(a) White Glazed fire clay sink of 450x300x150mm size.		Type 1,2		
		(b) Same as type1 with a provision of water purifier point for water supply.		Type 3		
		(c) Stainless steel sink with drain board with a provision of water purifying point for water supply.		Type 4,5		
9.5	Soap Tray	(a) One concealed of china ware with every WHB including glazed tiles in 600 mm height.		Type All		
9.6	Towel rail	(a) Towel Ring		Type 1,2,3		
		(b) Towel rail with each wash basin		Type 4,5		
9.7	Looking Mirror	One with each WHB		Type All		
9.8	Flushing Cistern	Low level cistern to be provided		Type All		
9.9	Hot water connection point and mixer from geyser for WHB & Bath	(a) In all bathroom		Type 3		
		(b) In all bathrooms and kitchen		Type 4,5		
	Water proofing Treatment Over Roof					

S.No.	Item	Specification	Spec. No.	Provision in Type of Building	Unit	Rate
1	2	3	4	5	6	7
10.1	Water proofing treatment with brick bat coba	In terrace, in sunken portion of kitchen & toilets above ground floor.		Type All		

Specification for Nonresidential Building

Class A : Circuit house, Medical College, District Hospital, Tourist Resort, Court Room and Degree College

Class B : Inter College, Hospital, Treasury Building, Fertilizers Godown, Office Blocks, P.H.C, Regional F.P. Center

Class C : Primary School, Junior High School , Gang Hut and other small building, Sub Center

1- Foundation and Plinth					
1.1	Foundation Concrete	As per residential building			
1.2	Foundation Black cotton soil, loose or filled up soil.	Rofft foundation as diegin required			
1.3	Birck machinery in foundation, super structure in plinth, sand filling in plinth, DPC, Slab, Coloums, Beams, Lintals and Rain water down pipe	As per residential building			
3- Floors					
3.1	Floors specification	(a) Vitrified tile flooring in rooms, Antiskid/matt finished vitrified tile flooring in common circulation area. Polished granite stone flooring in entrence hall/ reception and stair case. Ceramic antiskid/matt finished tile in toilets and Premix vacume 75mm thick cement concrete flooring in basement.		Class A	
		(b) Vitrified tile flooring in rooms, Kota stone flooring in common circulation area/stair case area. Polished granite stone flooring in entrence hall/ reception, . Ceramic antiskid/matt finished tile in toilets and Premix vacume 75mm thick cement concrete flooring in basement.		Class B	
		(c) 40 mm thick 1:2:4 cement concrete flooring, ceramic antiskid/matt finished tile in toilets and Premix vacume 75mm thick cement concrete flooring in basement.		Class C	
4-Frames					
4.1	Chaukhat for door & windows	(a) Aluminium door & window frame of aluminium section or u PVC section		Class A	
		(b) Angle iron 40x40x5mm meant for Door Chaukhat including 4 hinges up to 2.5 sqm area of door shutter and Z-section window frames.		Class B, C	
4.2	Door Shutters	(a) 35mm thick ISI Marked both side laminated door shutter.		Class A	
		(b) 35mm thick ISI Marked Flush door shutter.		Class B, C	

S.No.	Item	Specification	Spec. No.	Provision in Type of Building	Unit	Rate
1	2	3	4	5	6	7
4.3	Window shutter & Grill	(a) Aluminium window shutter with grill in ground floor and without grill on other floor or as specified.		Class A		
		(b) Z-section windows shutter with grill in ground floor and without grill on other floor or as specified.		Class B, C		
4.4	Door and Window fitting	(a) Stainless steel fittings		Class A, B		
		(b) Oxidized iron fittings		Class C		
	5- Finishing					
5.1	Plastering	12-15 mm thick in 1:6 (1 Cement : 6 Sand with not less than FM 1.25) mortar.		Class All		
5.2	Outer finish	(a) Premium acrylic smooth exterior paint with silicon additives two coat with one coat of priming coat over smooth base of cement based wall putty.		Class A, B		
		(b) Three coats of water proof cement paint.		Class C		
5.3	Internal finish	(a) Two coat of Plastic emulsion paint with one coat of priming coat over smooth base of cement based wall putty.		Class A		
		(b) Two coat of Oil bound distemper with one coat of priming coat over smooth base of cement based wall putty.		Class B, C		
5.4	Painting & varnishing New	Two coats of synthetic enamel paint over one priming coat.		Class All		
	6- Miscellaneous					
6.1	Curtain Rod	Drapery Rod		Class All		
6.2	Approan	90 cm wide 25mm thick in 1:2:4 cement concrete over 75 mm 1:4:8 base concrete.		Class All		
6.3	Electrification	Concealed wiring with copper wire		Class All		
6.4	Water Supply	Concealed G.I. Type (B Class)/ CPVC pipe		Class All		
6.5	Santary installations	6kg/cm ² pressure SWR Pipe or as specified.		Class All		
6.6	Railing	Stainless steel railing		Class All		
6.7	Stair Case/ Circulation area	(a) Lift Facia stair case and circulation area poilshed granite stone.		Class A		
		(b) Polished granite stone on Lift Facia and Kota stone stair case and circulation area.		Class B		
		(c) Lift Facia, stair case and circulation area kota stone.		Class C		
7- Provisions on demand by client department						
7	Extra Provisions (not included in plinth area rate & shall be permitted on request of client department)	1- ACP sheeting or dry stone clading or structured glass and spectrum in combination on facia 2- Faise ceilling		Class A		

Note : In Jail Grill and iron gate and door window design as per actual or specified by Jail Department