

**Upgradation og Kozhikode Medical College - Renovation of Existing terrace area in Surgery  
Department converting to Canteen Facilities**

	<b>PART A - CIVIL WORKS</b>				
<b>Sl. no</b>	<b>Description of work</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate Rs (in fiigures &amp; words)</b>	<b>Amount (Rs)</b>
1	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge. In cement mortar	Cum	10.00		
2	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead :Of area beyond 3 sq. metres	each	4.00		
3	Dismantling roofing including ridges, hips, valleys and gutters etc., and stacking the material within 50 metres lead of :Asbestos sheet	Sqm	460.00		
4	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement, with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).	Cum	2.00		
5	Centering and shuttering including strutting, propping etc. and removal of form for :				

Sl. no	Description of work	Unit	Qty	Rate Rs (in figures & words)	Amount (Rs)
(a)	Suspended floors, roofs, landings, balconies and access platform	Sqm	12.00		
(b)	Lintels, beams, plinth beams, girders, bressumers and cantilevers	Sqm	15.00		
6	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in :				
	Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	16.00		
7	Half Brick masonry with F.P.S bricks of class designation 75 in super structure above plinth level upto floor V level in Cement mortar 1:3 (1 cement : 3 coarse sand)	Sqm	16.00		
8	Extra for providing and placing in position 2 nos 6mm dia. M.S bars at every third course of half brick masonry (with F.P.S bricks)	Sqm	16.00		
9	CEMENT PLASTER (IN FINE SAND) - 12 mm cement plaster of mix 1:4 (1 cement: 4 fine sand)	Sqm	119.00		

Sl. no	Description of work	Unit	Qty	Rate Rs (in figures & words)	Amount (Rs)
10	15 mm cement plaster on the rough side of single or half brick wall of mix :1:4 (1 cement: 4 fine sand)	Sqm	90.00		
11	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	Sqm	209.00		
12	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface : Water thinnable cement primer	Sqm	209.00		
13	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade :Two or more coats on new work	Sqm	209.00		
14	Finishing walls with Acrylic Smooth exterior paint of required shade : New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm)	Sqm	254.00		

Sl. no	Description of work	Unit	Qty	Rate Rs (in figures & words)	Amount (Rs)
15	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :				
	Powder coated aluminium (minimum thickness of powder coating 50 micron)	kg	199.00		
16	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately)				
	Powder coated aluminium (minimum thickness of powder coating 50 micron)	kg	282.00		

Sl. no	Description of work	Unit	Qty	Rate Rs (in figures & words)	Amount (Rs)
17	Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer-in-charge.				
	Pre-laminated particle board with decorative lamination on both sides	Sqm	4.00		
18	Providing and fixing glazing in aluminium door, window, ventilator etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item):shutters and partitions etc. with EPDM rubber / neoprene gasket				
a	With float glass panes of 4.00 mm thickness	Sqm	26.00		
b	With float glass panes of 5.50 mm thickness	Sqm	5.00		

Sl. no	Description of work	Unit	Qty	Rate Rs (in figures & words)	Amount (Rs)
19	Providing and fixing 100mm brass locks (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete	each	4.00		
20	Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete :				
	100 mm	each	8.00		
21	Providing and fixing aluminium hanging floor door stopper, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade, with necessary screws etc. complete.				
	Single rubber stopper	each	4.00		
22	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868 ) transparent or dyed to required colour or shade, with necessary screws etc. complete :				

Sl. no	Description of work	Unit	Qty	Rate Rs (in figures & words)	Amount (Rs)
	250x10 mm	each	4.00		
23	Providing and fixing double action hydraulic floor spring of approved brand and manufacture conforming to IS : 6315, having brand logo embossed on the body / plate with double spring mechanism and door weight upto 125 kg, for doors, including cost of cutting floors, embedding in floors as required and making good the same matching to the existing floor finishing and cover plates with brass pivot and single piece M.S. sheet outer box with slide plate etc. complete as per the direction of Engineer-in-charge. With stainless steel cover plate minimum 1.25 mm thickness	each	1.00		
24	Providing and fixing 12 mm thick frameless toughened glass door shutter of approved brand and manufacture, including providing and fixing top & bottom pivot & spring type fixing arrangement and making necessary holes etc. for fixing required door fittings, all complete as per direction of Engineer-in-charge (Door handle, lock and stopper etc.to be paid separately).	Sqm	6.00		
25	Providing and fixing of DORMA or equivalent make door handle, Lock and stopper for 12 mm thick frameless toughened glass door including necessary screws, all materials, Labour etc., as per the direction of the Engineer in charge. Size - 25 mm x 450 mm long	Set	3.00		

Sl. no	Description of work	Unit	Qty	Rate Rs (in figures & words)	Amount (Rs)
26	Providing and fixing factory made uPVC door frame made of uPVC extruded sections having an overall dimension as below (tolerance $\pm 1\text{mm}$ ), with wall thickness 2.0 mm ( $\pm 0.2\text{ mm}$ ), corners of the door frame to be Jointed with galvanized brackets and stainless steel screws, joints mitred and Plastic welded. The hinge side vertical of the frames reinforced by galvanized M.S. tube of size 19 X 19 mm and 1mm ( $\pm 0.1\text{ mm}$ ) wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturer's specification and direction of Engineer- in- charge				
	Extruded section profile size 48x40 mm	Rm	5.00		



Sl. no	Description of work	Unit	Qty	Rate Rs (in figures & words)	Amount (Rs)
27	Providing and fixing to existing door frames				
	30 mm thick factory made uPVC door shutter made of styles and rails of a uPVC hollow section of size 60x30 mm and wall thickness 2 mm ( $\pm 0.2$ mm), with inbuilt decorative moulding edging on one side. The styles and rails mitred and joint at the corners by means of M.S. galvanised/plastic brackets of size 75x220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserting galvanised M.S. tube of size 25x20 mm and 1 mm ( $\pm 0.1$ mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100x30 mm and 2 mm ( $\pm 0.2$ mm) wall thickness fixed to the shutter styles by means of plastic/ galvanised M.S. 'U' cleats. The shutter frame filled with a uPVC multi-chambered single panel of size not less than 620 mm, having over all thickness of 20 mm and 1 mm ( $\pm 0.1$ mm) wall thickness . The panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised M.S. rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineer in-charge	Sqm	1.00		
28	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete.				
	Fixed to openings /wooden frames with rawl plugs screws etc.	kg	405.00		
29	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS : 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), including grouting the joints with white cement and matching pigments etc.,complete. Size of Tile 600x600 mm <i>Basic rate of tile not less than Rs. 850/sqm</i>	Sqm	205.00		

Sl. no	Description of work	Unit	Qty	Rate Rs (in figures & words)	Amount (Rs)
30	Providing and laying antiskid Glazed Ceramic floor tiles of size 300x300 mm or more (thickness to be specified by the manufacturer), of 1st quality conforming to IS : 15622, of approved make, in colours White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement: 4 Coarse sand), including grouting the joints with white cement and matching pigments etc., complete.	Sqm	10.00		
31	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), including grouting the joint with white cement & matching pigments etc. complete. Size of Tile 600x600 mm	sqm	13.00		
32	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS:15622 of 300x400 mm size (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	Sqm	35.00		

Sl. no	Description of work	Unit	Qty	Rate Rs (in figures & words)	Amount (Rs)
33	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels. Granite of any colour and shade Area of slab over 0.50 sqm	Sqm	8.00		
34	Providing and fixing tiled false ceiling of approved materials of size 595x595 mm in true horizontal level, suspended on interlocking metal grid of hot dipped galvanized steel sections (galvanized @ 120 grams / sqm, both side inclusive) consisting of main "T" runner with suitably spaced joints to get required length and of size 24x38 mm made from 0.30 mm thick (minimum) sheet, spaced at 1200 mm center to center and cross "T" of size 24x25 mm made of 0.30 mm thick (minimum) sheet, 1200 mm long spaced between main "T" at 600 mm center to center to form a grid of 1200x600 mm and secondary cross "T" of length 600 mm and size 24x25 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600 mm panel to form grids of 600x600 mm and wall angle of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the grid including, required cutting/making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main "T" runners to be suspended from ceiling using GI slotted cleats of size 27 x 37 x 25 x 1.6				

Sl. no	Description of work	Unit	Qty	Rate Rs (in figures & words)	Amount (Rs)
	12.5 mm thick square edge PVC Laminated Gypsum Tile of size 595x595 mm, made of Gypsum plasterboard, manufactured from natural gypsum as per IS 2095 part I and laminated with white 0.16mm thick fire retardant PVC film on the face side and 12micron metalized polyester on the back side with all edges sealed with the face side PVC film which goes around and wraps the edges and is bonded to the edges and the back side metalized polyester film so as to make the tile a completely sealed unit.	sqm	215.00		
35	Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) for levelling course	Cum	11.00		
36	Supply and fixing of 0.50 mm thick TCT troughed coloured, corrugated traffoidal galvalume roofing sheets including vertical/ curved surfscs fixed with self screwing bolts & washer with all lead & lift including all men & materials etc., Complete as per direction of Engineer in Charge	Sqm	460.00		

Sl. no	Description of work	Unit	Qty	Rate Rs (in figures & words)	Amount (Rs)
	<b>PLUMBING</b>				
37	Providing and fixing wash basin (counter type) with CI / MS brackets, 15mm CP brass <b>Pillar taps</b> , 32mm CP brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever required.: White Vitreous China Wash basin size 630 x 450mm with a single 15mm C.P brass pillar tap. Make:Hindware,Cera,Jaquar etc., (Lowest retail price of basin not less than Rs. 3500/each and Pillar tap not less than Rs. 1500/each. Materials to be selected by the Engineer in charge)	each	2.00		
38	Providing and fixing PTMT Bottle Trap for Wash basin and sink.Bottle trap 38 mm single piece moulded with height of 270 mm, effective length of tail pipe 260 mm from the centre of the waste coupling, 77 mm breadth with 25 mm minimum water seal, weighing not less than 263 gms	each	2.00		
39	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS: 13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required : Kitchen sink with drain board 510x1040 mm bowl depth 250 mm	each	1.00		
40	Providing and fixing C.P. brass angle valve for basin mixer water closet and geyser points of approved quality conforming to IS:8931 a) 15 mm nominal bore	each	3.00		

Sl. no	Description of work	Unit	Qty	Rate Rs (in figures & words)	Amount (Rs)
41	Providing and fixing trap of self cleansing design with CP hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors : 100 mm inlet and 100 mm outlet Sand cast iron S&S as per IS: 3989	each	2.00		
42	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required : W.C. pan with ISI marked black solid plastic seat and lid	each	1.00		
43	Providing & fixing of CP <b>Health faucet. Hand operated spray unit (instand type).</b> Make: Hindware, Cera, Jaquar etc..., (Lowest retail price not less than 1200/each. Materials to be selected by the Engineer in charge)	each	1.00		
44	Providing and fixing 600x450mm bevelled edge <b>mirror</b> 5mm thick of superior glass (of approved quality) complete with 6mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	Each	2.00		

Sl. no	Description of work	Unit	Qty	Rate Rs (in figures & words)	Amount (Rs)
45	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement of approved quality and colour. 450 mm long towel rail with total length of 495 mm, 78 mm wide and effective height of 88 mm, weighing not less than 170 gms	Each	2.00		
46	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge.; Concealed work including cutting chases and making good the walls etc.				
a	20mm	RM	30.00		
b	25mm	RM	10.00		
c	32MM	RM	10.00		

Sl. no	Description of work	Unit	Qty	Rate Rs (in figures & words)	Amount (Rs)
47	Providing and fixing unplasticised rigid P.V.C pipe (pressure 4kg/cm <sup>2</sup> ) in rain water pipe or drainage lines including jointing all complete				
a	75mm	RM	30.00		
b	110mm	RM	30.00		
48	Providing and fixing on wall face unplasticised - PVC moulded fittings/accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion.				
a	Single tee without door				
a.1	75x75xX75mm	Each	3.00		
a.2	110x110x110mm	Each	3.00		
b	Bend 87.5° with /with out door				



Sl. no	Description of work	Unit	Qty	Rate Rs (in figures & words)	Amount (Rs)
b.1	75mm	Each	5.00		
b.2	110mm	Each	5.00		
49	Providing and fixing single equal plain junction of required degree including all fixing accessories as per the direction of engineer in charge etc. complete				
a	75x75x75mm, sand cast iron S&S as per IS 3989	Each	3.00		
b	110x110x110mm, sand cast iron S&S as per IS 3989	Each	3.00		
50	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end)				
a	25mm nominal bore	each	1		

Sl. no	Description of work	Unit	Qty	Rate Rs (in figures & words)	Amount (Rs)
b	32mm nominal bore	Each	1.00		
51	Providing and fixing uplasticised PVC connection pipe with brass unions :				
	30 cm length				
	15 mm nominal bore	each	3.00		
52	Constructing brick masonry manhole in cement mortar 1:4 ( 1 cement : 4 coarse sand ) with R.C.C. top slab with 1:2:4 mix (1 cement : 2coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size), inside plastering 12mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) finished with a floating coat of neat cement complete as per standard design :Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg): With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	2.00		
	<b>Grand Total - Civil Works</b>				