

CONSTRUCTION OF NEW OP BLOCK AND WARD BUILDING FOR INSTITUTE OF MENTAL HEALTH & NEURO SCIENCES (IMHANS)- PHASE II AT MEDICAL COLLEGE, KOZHIKODE

Part I - CIVIL WORKS

Part IA. Construction of Compound Wall

SL No	Description	Unit	Quantity	Rate (Rs.) in words and figures	Amount (Rs.)
A	COMPOUND WALL				
I	SUB HEAD I - EARTH WORK				
1	Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth upto 30 cm measured at a height of 1 m above ground level and removal of rubbish upto a distance of 50 m outside the periphery of the area cleared.	Sqm	2670.00		
2	Earth work in excavation by mechanical means (Hydraulic Excavator)/ manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. All kinds of soil.	Cum	500.00		
3	Supplying and filling in plinth with quarry dust under floors including watering, ramming, consolidating and dressing complete.	Cum	28.00		
II	SUB HEAD - II - PLAIN CEMENT CONCRETE				
4	Cement concrete(Cast-in-situ) Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering- All work upto plinth level 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40mm nominal size)	Cum	68.00		
5	Providing and laying cement Concrte in retaining walls, return walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses,string or lacing courses, parapets, coping bed blocks, anchor blocks, plain window sills, fillets etc upto floor five level, including the cost of centring, shuttering and finishing 1:2:4 (1 cement: 2coarse sand : 4 graded stone aggregate 20 mm nominal size)	Cum	45.00		
III	SUB HEAD - III - REINFORCED CEMENT CONCRETE				

SL No	Description	Unit	Quantity	Rate (Rs.) in words and figures	Amount (Rs.)
6	Providing and laying in position specified grade of reinforced cement concrete including the cost of centering, shuttering, finishing and excluding cost of reinforcement -All work upto plinth level: 1:1.5:3 (1 cement: 1.5 coarse sand : 3 graded stone aggregate 20mm nominal size)	Cum	12.00		
7	Reinforced cement concrete work in walls (any thickness) including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc upto floor V level including cost of centering, shuttering, finishing and excluding cost of reinforcement in 1:1.5:3 (1 cement: 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	Cum	3.00		
8	Reinforced cement concrete work in beams, suspended floors, roofs having slope upto 15degree, landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases upto floor V level including cost of centering, shuttering, finishing and excluding the cost of reinforcement in 1:1.5:3 (1 cement: 1.5 coarse sand : 3 graded stone aggregate 20mm nominal size)	Cum	35.00		
9	Reinforcement for RCC works including straightening, cutting, bending, placing in position and binding all complete. Thermo - Mechanically treated bars (Using Vizac, Tata or SAIL)	Kg	5000.00		
IV	SUB HEAD - IV- STONE WORK				
10	Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20mm nominal size) at plinth level with: Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	510.00		
11	Stone work with neatly dressed selected hard laterite stones of size 35X21X20 cm in foundation and plinth cement mortar 1:6 (1 cenent , 6 coarse sand) including extra for super structure above plinth level and up to floor v level.	Cum	195.00		

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V	SUB HEAD -V- STEEL WORK				
12	Steel work welded in built up section / framed work including cutting ,hoisting, fixing I position and applying a priming coat of approved steel primer using structural steel etc. as required.In grating ,frames.guard bar, ladder, railings, brackets, gates and similar works.	Kg	1500.00		
13	Providing and fixing stainless steel 12mm dia bar bent to shape with hooked ends in R.C.C. slabs during laying including, all as per standard design complete.	Each	4.00		
VI	SUB HEAD- VI- Wood Work				
14	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position : Second Class Teak Wood	Cum	0.30		
15	Providing and fixing panelling or panelling and glazing in panelled or panelled and glazed shutters for doors, windows and clerestory windows (Area of opening for panel inserts excluding portion inside grooves or rebates to be measured). Panelling for panelled or panelled and glazed shutters 25 mm to 40 mm thick : Second class teak wood	Sqm	4.50		
16	Providing and fixing glazed shutters for doors, windows and clerestory windows using 4 mm thick float glass panes including black enamelled ISI marked MS butt hinges with necessary screws.Second class teak wood 30mm thickness	Sqm	4.20		
17	Providing 40x5mm flat iron hold fast 40 cm long including fixing to frame with 10mm diameter bolts, nuts and wooden plugs and embedding in cement concrete block 30x10x15cm 1:3:6 mix (1 cement : 3 coarse sand : 6 graded stone aggregate20mm nominal size)	each	10.00		
18	Providing and fixing bright finished m.s hasp and staple (safety type) with necessary screws etc. complete:	each	4.00		

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19	Providing and fixing bright finished brass 100 mm mortice latch and lock with 6 levers and a pair of lever handles with necessary screws etc. complete (best make of approved quality).	each	1.00		
20	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 : 300x10 mm	Each	2.00		
VII	SUB HEAD -VII - PVC DOOR WORKS				
21	Providing and fixing factory made UPVC door frame of Rajashri or equivalent make made of UPVC extruded section having an overall dimension as. Below(tolerance+1mm) with wall thickness 2.0mm+/-0.2mm, corners of the door frame to be jointed with galvanized brackets and stainless steel screws, joint mitred plastic welded. the hinge side vertical of the frames reinforced by galvanized M.S. tube of size 19x19mm and 1mm +/- 0.1mm wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturers specification and direction of Engineer-in-charge:Extruded section Profile size 42x50mm.	Rm	5.00		
22	Providing and fixing to existing door frames.30mm thick factory made Rajashri or equivalent make Polyvinyl Chloride(PVC) door shutter and rails of a UPVC profile section of size 30mmx60mm and wall thickness 2mm+/-0.2mm with inbuilt decorative moulding edging on one side. The styles and rails with plastic brackets of size 75x220mm mitre and welded at the corners. The-styles of the shutter reinforced by inserting galvanized M.S. tube of size 25x20mm and 1mm+/-0.1mm wall thickness. The lock rail made up of 'H' section, a UPVC profile section of size 30mmx100mm and 2mm+/-0.2mm wall thickness welded to the shutter style with a UPVC profile section single panel of size not less than 620mm,having overall thickness of 20mm and 1mm+/-0.1mm wall thickness with 20mm panel beading of suitable size, as per manufactures specification and direction of Engineer-in-charge.	Sqm	1.80		

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VIII	SUB HEAD -VIII - FLOORING				
23	Providing and laying polished vitrified floor tiles of minimum size 600x600mm of thickness 10mm or nearest size of M/s. JOHNSON, KAJARIA, NITCO, SOMANY or equivalent in light colours and shades, with water absorption's less than 0.08% and conforming to IS:15622, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) including grouting the joints with cement and matching pigments etc, complete as directed by the Engineer-in-charge. <i>Basic rate of tile not less than Rs. 865/sqm</i>	Sqm	8.00		
24	Providing and laying anti skid ceramic floor tiles of minimum 400x400 mm size for toilets (7.5mm thickness or nearest size) M/s. JOHNSON, KAJARIA, NITCO, SOMANY or equivalent of 1st quality conforming to IS: 15622 of approved make in all colours, shades, except white, ivory, grey, fume red brown laid on 20mm thick bed of cement mortar 1:4 (1 cement : 4 coarse sand) including pointing the joints with white cement and matching pigments etc complete. <i>Basic rate of tile not less than Rs. 370/sqm</i>	Sqm	1.50		
25	Providing and fixing Ist quality ceramic glazed wall tiles conforming to IS: 15622 of minimum 350x250 mm size and thickness 5MM of JOHNSON, NITCO, ORIENT, , KAJARIA ,or 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. <i>Basic rate of tile not less than Rs. 295/sqm</i>	Sqm	40.00		

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IX	SUB HEAD - IX - FINISHING				
26	12mm cement plaster on rough side of single or half brick wall finished with a floating coat of neat cement of mix 1:4 (1 cement : 4 fine sand)	Sqm	17.00		
27	6mm cement plaster to ceiling of mix 1 : 3 (1 cement : 3 fine sand)	Sqm	38.00		
28	15mm cement plaster on rough side of single or half brick wall finished with a floating coat of neat cement of mix 1:5 (1 cement :5 fine sand)	Sqm	2600.00		
29	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade in two or more coats on new work, including finishing walls with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications: Two or more coats applied on walls @ 1.25 ltr/10 sqm over and including one coat of Special primer applied @ 0.75 ltr / 10 sqm	Sqm	55.00		
30	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 basecoat of water proofing cement paint applied @ 2.20 kg/ 10 sqm)	Sqm	2600.00		
31	Steel Work painting- Painting with synthetic enamel paint of approved brand and manufacture to give an even shade. Two or more coats on new work	Sqm	85.00		

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32	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications : Painting wood work with Deluxe Multi Surface Paint of required shade. Two or more coat applied @0.90 ltr/10 sqm over an under coat of primer applied @0.75 ltr/ 10 sqm of approved brand or manufacture	Sqm	18.00		
33	Pointing on stone work with cement mortar 1:3 (1 cement : 3 fine sand): Flush/ Ruled pointing.	Sqm	430.00		

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X	SUB HEAD X- INTERNAL WATER SUPPLY & SANITARY INSTALLATIONS				
34	Providing and fixing white vitreous china pedestal type water closet (European type) with seat and lid, 10 litre low level white vitreous china flushing cistern with fittings & CI / MS brackets, 40 mm flush bend, overflow arrangement with specials of standard make and mosquito proof coupling of approved municipal design complete, including painting of fittings and brackets, 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		
35	Providing and fixing wash basin with C.I/ M.S brackets, 15mm C.P. brass pillar taps Kingston/ Gem/ Techno/ Parko, 32mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls and floors wherever require: White Vitreous China Wash basin size 550x400 mm with a pair of 15 mm C.P. brass pillar taps	each	1.00		
36	Providing and fixing unplasticised PVC connection pipes with brass unions 30 cm length 15mm nominal bore	each	1.00		
37	Providing and fixing waste pipe for sink, wash basin or urinals including PVC waste fittings complete:Semi Rigid Pipe-32mm diameter	each	1.00		
38	Providing and fixing 600x450mm bevelled edge mirror 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	1.00		
39	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with C.P.brass screws with concealed fittings arrangement of approved quality colour and make: 600m long towel rail with total length of 645mm, width 78mm and effective height of 88 mm, weighing not less than 190 gms	each	1.00		

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40	Providing and fixing PTMT liquid soap container 109mm wide, 125mm high and 112mm distance from wall of standard shape with bracket of the same material with snap fittings of approved quality, co lour and make, weighing not less than 105gms	each	1.00		
41	Providing and fixing wall face PVC pipe complete including cutting,chasing in walls and making good the walls etc complete.				
a	20mm PVC pipe (10kg/sqcm)	Rm	76.00		
b	32mm PVC pipe 1(10kg/sqcm)	Rm	50.00		
42	Providing and fixing CP brass long body bib cock of approved quality confirming to IS standards weighing not less than 690gms 15mm nominal bore	each	2.00		
43	Providing and fixing brass Bib cock of approved quality - 15mm nominal bore	each	2.00		
44	Providing and fixing C.P. brass shower rose with 15 to 20 mm inlet 100mm diameter	each	1.00		
45	Providing and fixing C.P brass stop cock (concealed) of standard design of approved make conforming to IS 8931. conforming to IS standards 15 mm nominal bore	each	10.00		
46	Providing and fixing PTMT (an Engineering thermo plastic) grating of approved quality colour and make 150 mm nominal size square,100mm diameter of the inner hinged round grating.Rectangular type with circular round lid	each	1.00		

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XI	SUB HEAD -XI - Fencing				
47	Fencing with angle iron post placed at required distance embedded in cement concrete blocks, every 15th post, last but one end post and corner post shall be strutted on both sides and end post on one side only and provided with horizontal lines and two diagonals interwoven with horizontal wires, of barbed wire weighing 9.38 kg per 100 m (minimum), between the two posts fitted and fixed with G.I. staples, turn buckles etc. complete. (Cost of posts, struts, earth work and concrete work to be paid for separately) :- Payment to be made per metre cost of total length of barbed wire used. With G.I. barbed wire	Rm	2000.00		
48	Supplying at site Angle iron post & strut of required size including bottom to be split and bent at right angle in opposite direction for 10 cm length and drilling holes upto 10 mm dia. etc. complete	kg	600.00		
49	R.C.C. Standards post/ struts/rails/ pales of mix 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 12.5 mm nominal size) with wooden plugs or 6mm bar nibs wherever required as per direction of Engineer-in-charge (cost of earth works in excavation, concrete works in foundation to be paid separately).	Cum	4.00		
50	Fencing with R.C.C. post placed at required distance, embedded in cement concrete blocks, every 15th post, last but one end post and corner post shall be strutted on both sides and end post one side only, provided with horizontal lines and two diagonals of barbed wire weighing 9.38 kg per 100 metres (minimum), between the two posts fitted and fixed with G.I. staples on wooden plugs or G.I. binding wire tied to 6 mm bar nibs fixed while casting the post (cost of R.C.C. posts, struts, earth work and concrete to be paid for separately) :- Payment to be made per metre cost of total length of barbed wire used. With G.I. barbed wire	Rm	1400.00		

SL No	Description	Unit	Quantity	Rate (Rs.) in words and figures	Amount (Rs.)
51	Demolishing stone rubble masonry 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	240.00		
	TOTAL				