

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

Part 1C Sump & Yard Work

SL No	Description	Unit	Quantity	Rate (Rs.) in figures and words	Amount (Rs.)
C	SUMP & YARD WORK				
I	SUB HEAD I - EARTH WORK				
1	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 50m. All kinds of soil.	Cum	525.00		
2	Earth work in rough excavation, banking excavated earth in layers not exceeding 20 cm in depth, breaking clods, watering, rolling each layer with ½ tonne roller or wooden or steel rammers, and rolling every 3rd and top-most layer with power roller of minimum 8 tonnes and dressing up in embankments for roads, flood banks, marginal banks and guide banks or filling up ground depressions, lead upto 50 m and lift upto 1.5 m : All kinds of soil.	Cum	1325.00		
II	SUB HEAD - II - PLAIN CEMENT CONCRETE				
3	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	38.00		

SL No	Description	Unit	Quantity	Rate (Rs.) in figures and words	Amount (Rs.)
4	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 1:3:6 (1 cement: 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	Cum	15.00		
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	33.00		
III	SUB HEAD - III - REINFORCED CEMENT CONCRETE				
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	32.00		
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	32.00		

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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	31.00		
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	9500.00		

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IV	SUB HEAD - V - BRICK WORK				
10	Half Brick masonry with FPS bricks of class designation 75 in superstructure above plinth level upto floor V level in cement mortar 1:4 (1 cement: 4 coarse sand)	Sqm	90.00		
V	SUB HEAD -VI- FLOORING				
11	Providing and laying 60mm thick factory made cement concrete interlocking paver blocks of M - 30 grade made by block making machine with strong vibratory compaction and of approved size and design/ shape laid in required colour and pattern over and including 50mm thick compacted bed of coarse sand, filling the joints with coarse sand etc all complete as per the direction of Engineer in charge.	Sqm	1250.00		
VI	SUB HEAD - X - FINISHING				
12	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	450.00		

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VII	SUB HEAD XI - DRAINAGE				
13	<p>Constructing brick masonry manhole in cement mortar 1:4 (1 cement: 4 coarse sand) RCC top slab with 1:2:4 mix (1 cement:2 coarse sand:4 graded stone aggregate 20mm 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 fine 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:</p> <p>Inside size 90x80cm and 45cm deep including CI cover with frame (light duty) 455x610mm internal dimensions total weight of cover and frame to be not less than 38kg(weight of cover 23kg and weight of frame 15kg) With common burnt clay F.P.S. (non modular) bricks of class designation 7.5</p>	each	2.00		

SL No	Description	Unit	Quantity	Rate (Rs.) in figures and words	Amount (Rs.)
14	Providing and jointing PVC 150mm PVC pipes of (pressure 6 kg/cm ²) for drainage line including testing of joints etc complete. For sewage connection & Rain water collection & disposal 150mm diameter (Nominal)	RM	350.00		
15	Providing and jointing PVC 110mm PVC pipes of (pressure 6 kg/cm ²) for drainage line including testing of joints etc complete. (Sewage Down pipe on walls) 110mm diameter (OD)	RM	100.00		
16	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. Single tee without door:110x110x110mm	each	25.00		
17	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: Bend 87.5°, 110 mm bend	each	25.00		
18	Providing and jointing PVC 63mm PVC pipes of (pressure 6 kg/cm ²) for drainage line including testing of joints etc complete. (Sullage Down pipe) 63mm diameter (OD)	each	100.00		
19	Providing and fixing MS holder bat clamps of approved design to sewer pipes embedded in and including cement concrete blocks 10x10x10cm of 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) and cost of cutting holes and making good the walls etc:100mm dia pipe	each	60.00		

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VIII	SUB HEAD -XII - INTERNAL WATER SUPPLY & SANITARY INSTALLATIONS				
20	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	140.00		
b	32mm PVC pipe 1(10kg/sqcm)	Rm	150.00		
c	50mm PVC pipe (10kg/sqcm)	Rm	50.00		
d	63mm PVC pipe (10kg/sqcm)	Rm	50.00		
e	75mm PVC pipe (10kg/sqcm)	Rm	50.00		
21	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	10.00		
22	Providing and fixing brass Bib cock of approved quality - 15mm nominal bore	each	10.00		
23	Providing and fixing gun metal gate valve with CI wheel of approved quality(screwed end) –				
a	50mm nominal bore	each	2.00		

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b	65mm nominal bore	each	2.00		
c	80mm nominal bore	each	2.00		
24	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	20.00		
25	Supplying & Erecting pump set of suitable capacity coupled to a electric motor to run on 3 phase electric supply capable of discharging of 7 LPS against a total head of 20m including starter with bronze impeller, stainless steel shaft etc incl. cost of panel Board, voltmeter, ameter etc.	HP	10hp		
26	Providing and fixing G.I. chain link fabric fencing of required width in mesh size 25x25 mm made of G.I. wire of dia. 3mm including strengthening with 2mm dia. wire or nuts, bolts and washers as required complete as per the direction of Engineer-in-charge	Sqm	60.00		
27	Providing and fixing poly carbonate (multi wall 6mm or nearest size) sheet roofing of approved make and quality fixed with polymer coated J or L hooks ,bolts and nut of required diameter necessary washers complete including the cost of M S square tube 50x25mm 16 guage fixed with M S flat 25x6mm including necessary nuts and bolts to support the roofing , painting with two or more coats with synthetic enamel paint over a priming coat of Zinchromate primer etc complete.	Sqm	660.00		
28	Supplying and fixing C.I. cover without frame for manholes 455x610 mm rectangular C.I. cover (light duty) the weight of the cover to be not less than 23 kg.	each	6.00		

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29	Providing M.S. foot rests including fixing in manholes with 20x20x10 cm cement concrete blocks 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) as per standard design: With 20x20 mm square bar	each	12.00		
	TOTAL				