

**TERTIARY CANCER CARE CENTRE AT GOVERNMENT MEDICAL COLLEGE HOSPITAL,
KOZHICKODE-CONSTRUCTION OF ELECTRICAL PLANT ROOM**

PART A - CIVIL WORKS

Item No	Details of items	Quantity	Unit	Rate(in figures & words)	Amount
	EXCAVATION				
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 50 m. All kinds of soil.	125.00	m3		
2	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m	98.00	m3		
3	Supplying conveying, filling and compacting good earth for levelling yard	25.00	m4		
	PLAIN CEMENT CONCRETE				
4	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size).for foundation and flooring 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size).	28.00	m3		

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5	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement :3 coarse sand : 6 graded stone aggregate 20 mm nominal size) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand including finishing the top smooth				
	Around the periphery of building	19.00	Sqm		
	REINFORCED CEMENT CONCRETE				
6	Providing and laying in position ready mixed M-25 grade concrete for reinforced cement concrete work, using cement content as per approved design mix, manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work including pumping of R.M.C. from transit mixer to site of laying , excluding the cost of centering, shuttering finishing and reinforcement including cost of admixtures in recommended proportions as per IS : 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer - in - charge.				

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	(Note :- Cement content considered in this item is @ 330 kg/cum. Excess/less cement used as per design mix is payable/recoverable separately).				
a	All works upto plinth level.	57.00	m3		
b	All works above plinth level upto floor V level.	10.00	m3		
7	Add for using extra cement in the items of design mix over and above the specified cement content therein	26.80	ql.		
8	Centering and shuttering including strutting, propping etc. and removal of form for :				
a	Foundations, footings, bases of columns, etc. for mass concrete.	54.00	Sqm		
b	Walls (any thickness) including attached pilasters, buttersesses, plinth and string courses etc.	172.00	Sqm		

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d	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	119.00	Sqm		
e	Columns, Pillars, Piers, Abutments, Posts and Struts.	48.00	Sqm		
g	Weather shade, Chajjas, corbels etc., including edges.	9.00	Sqm		
9	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete Thermo-Mechanically Treated bars.	8090.00	kg		

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	BRICK WORK				
10	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:Cement mortar 1:6 (1 cement : 6 coarse sand)	3.00	m3		
11	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)	34.00	m3		
12	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc. including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete.Hot finished welded type tubes	6610.00	KG		

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Item No	Details of items	Quantity	Unit	Rate(in figures & words)	Amount
13	Providing corrugated G.S. sheet roofing including vertical / curved surface fixed with polymer coated J or L hooks, bolts and nuts 8 mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead, including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete (up to any pitch in horizontal/ vertical or curved surfaces), excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required. 0.63 mm thick with zinc coating not less than 275 gm/ m ²	335.00	SQM		
	DOORS /WINDOWS				
14	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) : For fixed portion Powder coated aluminium (minimum thickness of powder coating 50 micron)	143.00	kg		

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Item No	Details of items	Quantity	Unit	Rate(in figures & words)	Amount
15	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)	124.00	kg		
16	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket 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): With float glass panes of 5.50 mm thickness	12.00	Sqm		
17	Providing and fixing fire resistant door frame of section 143 x 57 mm having built in rebate made out of 16 SWG G.I.sheet (zinc coating not less than 120 gm/sqm) duly filled with vermiculite based concrete mix, suitable for mounting 60 minutes fire rated door shutters. The frame is fitted with intumescent fire seal strip of size 10x4 mm (minimum) around the frame and fixing with dash fastener of approved size and make, including applying a coat of approved brand fire resistant primer etc. complete as per direction of Engineer-in-charge (Dash fastener to be paid for separately).	7.00	m		

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Item No	Details of items	Quantity	Unit	Rate(in figures & words)	Amount
18	Providing and fixing 50 mm thick glazed fire resistant door shutters of 60 minutes fire rating conforming to IS:3614 (Part-II) tested and certified as per laboratory approved by Engineer-in-charge with suitable mounting on door frame, consisting of vertical styles, lock rail, top rail 100mm wide, bottom rail 200mm wide, made out of 16 SWG G.I.sheet (zinc coating not less than 120 gm/m ²) duly filled FR insulation material and fixing with necessary stainless steel ball bearing hinges of approved make, including applying a coat of approved fire resistant primer etc. all complete as per direction of Engineer-in-charge (panneling to be paid for separately).	4.00	Each		
19	Providing and fixing glazing in fire resistant door shutters, fixed panels, ventilators and partitions etc., with G.I. beading of appropriate size made out of 20 SWG G.I.sheet (zinc coating not less than 120 gm/m ²), fire resistant sealant, including applying a coat of approved fire resistant primer on G.I. beading etc. complete all as per direction of Engineer-in-charge. With clear fire resistant glass panes 6mm thick of approved brand, having minimum 60 minutes fire resistance	2.00	Sqm		
20	Providing & fixing aluminium casement windows fasteners for aluminium windows Powder coated Aluminium.				
	W(1.8*1.2)	12	Each		

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Item No	Details of items	Quantity	Unit	Rate(in figures & words)	Amount
21	Providing and fixing stainless steel adjustable friction windows stays 205 x 19 mm.				
	W(1.8*1.2)	12	Each		
22	Supplying and fixing rolling shutters of approved make, made of required size M.S. laths, interlocked together through their entire length and jointed together at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete, including the cost of providing and fixing necessary 27.5 cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to IS: 4454 - part 1 and M.S. top cover of required thickness for rolling shutters: 80x1.25mm M.S. laths with 1.25 mm thick top cover.	22.00	m2		
23	Providing and fixing ball bearing for rolling shutters.	2.00	Each		
24	Extra for Extra for providing grilled rolling shutters manufactured out of 8 mm dia M.S.bar instead of laths as per design approved by Engineer in Charge	8.00	m2		

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25	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.	120.00	kg		
26	Providing and fixing bright finished brass hanging type floor door stopper with necessary screws, etc. complete.	1.00	Each		
	FLOORING				
27	62 mm thick cement concrete flooring with concrete hardener topping, under layer 50 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) and top layer 12mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix : 2 graded stone aggregate, 6mm nominal size) by volume, hardening compound mixed @ 2 litre per 50 kg of cement or as per manufacture's specifications. This includes cost of cement slurry, but excluding the cost of nosing of steps etc. complete.	144.00	sqm		
	FINISHING				
28	12 mm cement plaster of mix 1:4 (1 cement: 4 fine sand) for inside walls	198.00	Sqm		

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Item No	Details of items	Quantity	Unit	Rate(in figures & words)	Amount
29	15 mm cement plaster on the rough side of single or half brick wall of mix :1:4 (1 cement: 4 fine sand) for outside walls	245.00	Sqm		

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Item No	Details of items	Quantity	Unit	Rate(in figures & words)	Amount
30	6 mm cement plaster of mix : 1:3 (1 cement: 3 fine sand) for under side of roof slab	109.00	Sqm		
31	Cement plaster 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement.12 mm cement plaster including providing and mixing water proofing material in cement plaster work in proportion recommended by the manufacturers. to the top surface of sunshade	12.00	Sqm		
32	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade New work (Two or more coats applied @ 1.43 ltr/ 10 sqm. over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm).	198.00	Sqm		
33	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade: Two or more coats on new work.	257.00	Sqm		
34	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :Two or more coats on new work.	369.00	Sqm		
	TOTAL (In Figures and Words)				