	UNIVERSITY OF KERALA								
			ENGINEERING UNIT, KAI	RIAVAT	ГОМ				
TEN	IDER SC	HEDU	LE FOR IMPLEMENTATION OF THE SPECIFIC PROJECT-ADVAN	CED CEI	NTRE FOR TIS	SUE ENGINEERING IN THE DEP	ARTMENT OF		
			BIOCHEMISTRY AT KARIAVATTOM	CAMPL	JS.(RETENDE	R)			
Sl No	Otv	Unit	Description of Item	unit	Rate		Amount		
51140	QLY					Rate in words			
			Solid block masonry using pre cast solid blocks (Factory made) of size						
1			40x20x15cm or nearest available size confirming to IS 2185 part I of 1979			Rupees Five thousand three			
1			for foundation and plinth with thickness 15 cm in : CM 1:6 (1 cement : 6			hundred and seven Paise eighty			
	7.8	M³	coarse sand) etc complete	M ³	5307.88	eight only	41,401.46		
			12 mm cement plaster of mix 1:4 (1 cement : 4 coarse sand)						
2						Rupees Two hundred and fifty			
	20	M ²		M ²	252.71	two and Paise seventy one only	5,054.20		
			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						
2			wherever required including cleat angle, Aluminium snap beading for						
3			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						
			Anodised aluminium (anodised transparent or dyed to required shade						
			according to IS: 1868, Minimum anodic coating of gradeAC 15)						
						Rupees five hundred and eleven			
	35	kg		kg	511.14	Paise fourteen only	17,889.90		

			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				
4			shutters and partition frames with C.P. brass / stainless steel screws etc.				
			complete as per architectural drawings and directions of engineer-in-			Rupees One thousand five	
			charge.Pre-laminated particle board with decorative lamination on both			hundred and ninety eight and	
	15 [M2	sides	M²	1598.33	Paise thirty three only	23,974.95
			Providing and fixing glazing in aluminium door, window, ventilator				
			shutters and partitions etc. with EPDM rubber / neoprene gasket etc.				
5			complete as				
5			per the architectural drawings and the directions of engineer-in-charge.			Rupees One thousand five	
			(Cost of aluminium snap beading shall be paid in basic item): With float			hundred and forty six and Paise	
	3	M ²	glass panes of 5.50mm thickness	M ²	1546.19	nineteen only	4,638.57
			Providing and fixing aluminium extruded section body tubular type				
			universal hydraulic door closer (having brand logo with ISI, IS : 3564,				
6			embossed on the body, door weight upto 36 kg to 80 kg and door width				
0						Rupees One thousand five	
			from 701 mm to 1000 mm), with double speed adjustment with			hundred and thirty and Paise	
	2 8		necessary accessories and screws etc. complete.	E	1530.69	sixty nine only	3,061.38
			21.13 Providing and fixing 100mm brass locks (best make of approved				
7			quality) for aluminium doors including necessary cutting and making				
/			good etc.			Rupees Six hundred and fourteen	
	2 8		complete.	E	614.03	and Paise three only	1,228.06

			Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and				
			galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277				
			and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of				
			27 mm and 37mm, at 1200 mm centre to centre, one flange fixed to the ceiling				
			with dash fastener 12.5 mm dia x 50mm long with 6mm dia bolts, other flange of				
			cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts &				
			bolts of required size and other end of angle hanger fixed with intermediate G.I.				
			channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to				
			which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered				
			flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall				
			be fixed in a direction perpendicular to G.I. intermediate channel with connecting				
			clips made out of 2.64 mm dia x 230 mm long G.I. wire at every junction,				
			including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20				
8			mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help				
			of rawl plugs at 450 mm centre, with 25mm long dry wall screws @ 230 mm				
			interval, including fixing of gypsum board to ceiling section and perimeter channel with the help of dry wall screws of size 3.5 x 25 mm at 230 mm c/c,				
			including jointing and finishing to a flush finish of tapered and square edges of				
			the board with recomme-nded jointing compound , jointing tapes , finishing with				
			jointing compound in 3 layers covering upto 150 mm on both sides of joint and				
			two coats of primer suitable for board, all as per manufacturer's specification				
			and also including the cost of making openings for light fittings, grills, diffusers,				
			cutouts made with frame of perimeter channels suitably fixed, all complete as				
			per drawings, specification and direction of the Engineer in Charge but excluding				
			the cost of painting with 12.5 mm thick tapered edge gypsum plain board				
			conforming			Rupees One thousand three	
			to IS: 2095- Part I			hundred and thirty and Paise	
	17	м ²		M ²	1220.40	forty only	22,616.80
	1/		Painting with acid proof paint of approved brand and manufacture of		1330.40		22,010.80
0						Dungas Seventry three and Daise	
9		• • ²	required colour to give an even shade :	M ²		Rupees Seventy three and Paise	2 000 45
	53	IVI	One or more coats on old work		/3.55	fifty five only	3,898.15
			Providing and laying Vitrified tiles in different sizes (thickness to be				
			specified by manufacturer), with water absorption less than 0.08 % and				
10			conforming to I.S. 15622, of approved make, in all colours & shade, in				
10			skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1			Rupees Two thousand and	
			cement: 3 coarse sand), including grouting the joint with white cement &			sventy five and Paise Ninety	
	19.5	M ²	matching pigments etc. complete.Size of Tile 600x600 mm	M ²	2075.97	seven only	40,481.42

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		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				
17		mm thick base cement mortar 1:4 (1 cement : 4 coarse sand),				
1/		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			Rupees Five thousand seven	
		levels.Granite of any colour and shade Area of slab over 0.50 sqm			hundred and thirty and Paise	
	2.4 M ²		M ²	5730.98	ninety eight only	13,754.35

			Providing edge moulding to 18 mm thick marble stone counters,				
10			Vanities etc., including machine polishing to edge to give high				
18			gloss finish etc. complete as per design approved by Engineer-in-			Rupees Three hundred and thirty	
	4 1	m	Charge.Granite work	m		eight and Paise fifteen only	1,352.60
19			Labour engaged for refixing the cabins				
			Carpenter				
						Rupees Seven hundred and fourty	
	1	E		E	741.05	one and Paise five only	741.05
			Coolie			Rupees Five hundred and sixty	
	1	E		E	560.47	and Paise fourty seven only	560.47

	6 M² dia. 0.50 mm all complete.With 12 mm mild steel U beading M² 1932.50 fifty only TOTAL						
20	6 M ²	average width of aperture 1.4 mm in both directions with wire of	M ²		Rupees One thousand nine hundred and thirty two and Paise	11,595.00	
20		to windows and clerestory windows using wire gauge with					
		Providing and fixing fly proof stainless steel grade 304 wire gauge,					

PAC Rs.2,14,345/- (Rupees Two Lakh fourteen thousand three hundred and forty five only)

I/We agreed to execute the work.

1.% below the estimate rate.

2.% above the estimate rate.

3. At the estimate rate.

Sd/-

CONTRACTOR

UNIVERSITY ENGINEER