

UNIVERSITY OF KERALA							
ENGINEERING UNIT, KARIAVATTOM							
TENDER SCHEDULE FOR SETTING UP OF CLEAN ROOM FACILITY IN THE DEPARTMENT OPTO-ELECTRONICS AT KARIAVATTOM FOR IMPLEMENTATION OF THE PROJECT SPONSORED BY THE SCIENCE & ENGINEERING RESEARCH BOARD (SERB)							
Sl No	Qty	Unit	Description of Item	unit	Rate	Rate in words	Amount
1	67	kg	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/ free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, 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). (21.1.1.2)	kg	514.74	Rupees Five hundred and fourteen and Paise seventy four only	34,487.58

2	66	kg	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/ free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, 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). 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) (21.1.2.2)	kg	590.09	Rupees Five hundred and ninety and paise nine only	38,945.94
3	26.5	m ²	Providing and fixing 12 mm thick prelaminated pressed three layer or graded wood particle board particle board flat 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. (21.2.2)	m ²	1,471.08	Rupees One thousand Four hundred and seventy one and Paise eight only	38,983.62
4	12	m ²	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. (21.3)	m ²	1,392.42	Rupees One thousand three hundred and ninety two and paise forty two only	16,709.04
5	5	Nos.	Providing and fixing 100mm brass locks (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete. (21.13)	Each	533.78	Rupees Five hundred and thirty three and Paise seventy eight only	2,668.90

6	3	Nos.	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm), with double speed adjustment with necessary accessories and screws etc. complete. (9.84)	Each	1,417.54	Rupees One thousand four hundred seventeen and paise fifty four only	4,252.62
7	7	Nos.	Providing and fixing aluminium round shape handle of outer dia 100mm with SS screws etc. complete as per direction of Engineer-in-charge. (21.16.2)	Each	93.15	Rupees Ninety three and Paise fifteen only	652.05
8	0.4	m ³	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)(6.4.2)	m ³	7,348.64	Rupees Seven thousand Three hundred and forty eight and paise sixty four only	2,939.46
9	0.38	m ³	Providing and laying cement concrete in retaining walls, return walls, 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, sunken floor, etc., up to floor five level, excluding the cost of centering, shuttering and finishing : 1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) (4.2.3)	m ³	8,034.57	Rupees Eight thousand and Thirty four and paise fifty seven only	3,053.14
10	32	kg	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level Thermo-Mechanically Treated bars (5.22A.6)	kg	91.77	Rupees Ninety one and paise seventy seven only	2,936.64
11	5	m ²	Centering and shuttering including strutting, propping etc. and removal of form for : Suspended floors, roofs, landings, balconies and access platform. (5.9.3)	m ²	513.08	Rupees Five hundred and thirteen and paise eight only	2,565.40

12	4.5	m ²	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.Rajnagar plain white marble/udaipur green marble/Zebrablack marble Area of slab over 0.50 sqm (m ²	3,204.71	Rupees Three thousand two hundred and four and paise seventy one only	14,421.20
13	150	m ²	Wall painting with plastic emulsion paint of approved brand and manufacture to give an even shade : One or more coats on old work. (14.53.1)	m ²	64.65	Rupees Sixty four and paise sixty five only	9,697.50
14	15	m ²	12 mm cement plaster of mix : 1:4 (1 cement: 4 coarse sand) (13.4.1)	m ²	212.31	Rupees Two hundred and Twelve and paise thirty one only	3,184.65
15	1.5	m ³	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.	m ³	939.78	Rupees Nine hundred and thirty nine and paise seventy eight only	1,409.67
16	11	m ²	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead.15.23.1 For thickness of tiles 10 mm to 25 mm. (15.23)	m ²	35.26	Rupees Thirty five and paise twenty six only	387.86
17	0.5	m ³	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge. Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix) (15.2.1)	m ³	1112.76	Rupees One thousand one hundred and twelve and paise seventy six only	556.38
18	3	Nos.	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead : Of area 3 sq. metres and below (15.12.1)	Each	176.36	Rupees One hundred and seventy six and paise thirty six only	529.08
19	1	No.	Dismantling of white china wash basin with CI brackets, 15 mm CP brass pillar taps 32 mm CP brass waste of standard pattern materials including stacking of useful near the site and disposal of unservicable materials within 50 m lead	Each	257.80	Rupees Two hundred and fifty seven and paise eighty only	257.80

20	1	No.	Dismantling white vitreous china pedestal type wc (european type WC pan)with seat and lid including stacking of useful near the site and disposal of unserviceable materials within 50 m lead.	Each	289.86	Rupees Two hundred and eighty nine and paise eighty six only	289.86
21	1	No.	Dismantling of flushing cistern of all types (C.I./PVC/Vitrious China) including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead.	Each	444.36	Rupees Four hundred and forty four and paise thirty six only	444.36
22	1	No.	labour engaged for dismantling and refixing the doors. Carpenter 1st class	Each	578.63	Rupees Five hundred and seventy eight and paise sixty three only	578.63
TOTAL							₹ 1,79,951.37

PAC Rs.1,79,951/- (Rs.One Lakh Seventy nine thousand nine hundred and fifty one only)

I/We agree to execute the work. 1.% below the estimate rate.

2. % above the estimamte rate. 3. At the estimate rate.

UNIVERSITY ENGINEER

CONTRACTOR

