

**UNIVERSITY OF KERALA  
ENGINEERING UNIT, KARIAVATTOM**

**Tender schedule for Civil works in connection with the renovation of the room of The Joint Director in the Kerala University Audit office**

Sl.No.	Quantity	Specification	Unit	Rate	Rate in words	Amount
1	2.13	Demolishing brick work 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	m3	1214.51	Rs.One thousand two hundred & fourteen & ps. Fifty one only	<b>2,582.05</b>
2	0.491	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level:1:1:5:3 (1 cement 1.5 coarse sand :3 graded stone aggregate 20 mm nominal size	m3	8957.56	Rs.Eight thousand nine hundred & fifty seven & ps. Fifty six only	<b>4,398.16</b>
3	75.000	Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete upto plinth level Thermo - Mechanically Treated bars of grade Fe-500D or more	Kg	81.57	Rs.Eighty one & ps. Fifty seven only	<b>6,117.75</b>
4	3.45	Centering and shuttering including strutting, etc. and removal of form for: Lintels, beams, plinth beams, girders bressumers and cantilevers	m2	494.18	Rs.Four hundred & ninety four & ps. Eighteen only	<b>1,705.42</b>
5	1.80	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 1:4 ( 1 cement : 4 coarse sand)	m3	8361.12	Rs.Eight thousan three hundred & sixty one & ps. Twelve only	<b>15,066.74</b>

6	17.70	12 mm cement plaster of mix: 1:4 ( 1 cement : 4 fine sand)	m2	249.26	Rs.Two hundred & forty nine & ps. Twenty six only	<b>4,411.90</b>
7	0.325	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)	m3	1436.94	Rs.One thousand four hundred & thirty six & ps. Ninety four only	<b>467.01</b>
8	0.488	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:2:4 )1 cement : 2 coarse sand : 4 graded stone aggregate 40 mm nominal size)	m3	7768.71	Rs.Seven thousand seven hundred & sixty eight & ps. Seventy one only	<b>3,791.13</b>
9	3.25	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer), of Ist quality conforming to IS : 15622, of approved make, in all colours, shades, except White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick bed of cement mortar 1:4 ( 1 cement : 4 Coarse sand), including pointing the joints with white cement and matching pigments etc., complete.	m2	1077.87	Rs.One thousand & seventy seven & ps. Eighty seven only	<b>3,503.08</b>
10	14.04	Providing and fixing Ist quality ceramic glazed wall tiles conforming to IS : 15622 (thickness to be specified by the manufacturer), of 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 @ 3.3 kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	m2	1073.4	Rs.One thousand & seventy three & ps.four only	<b>15,071.61</b>
11	1.00	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:	E	4927.03	Rs.Four thousand nine hundred & twenty seven & ps. Three only	<b>4,927.03</b>

12	1.00	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require: White Vitreous China Wash basin size 630x450 mm with single 15 mm C.P. brass pillar taps	E	2912.09	Rs.Two thousand nine hundred & twelve & ps. Nine only	<b>2,912.09</b>
13	1.00	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms. 15 mm nominal bore	E	709.86	Rs.Seven hundred & nine & ps. Eighty six only	<b>709.86</b>
14	1.00	Supplying and fixing Floor Trap 110mm	E	191.57	Rs.One hundred & ninety one & ps. Fifty seven only	<b>191.57</b>
15	3.00	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS: 8931 15 mm nominal bore	E	685.59	Rs.Six hundred & eighty five & ps. Fifty nine only	<b>2,056.77</b>
16	1.00	Supplying and fixing CP Health faucet good quality including cost of materials and labour charges etc. complete as per the direction of site engineer-in-charge	E	757.89	Rs.Seven hundred & fifty seven & ps. Eighty nine only	<b>757.89</b>
17	15.00	Providing and fixing PVC pipes includes joints of pipes with one step PVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in CHarge. 110 mm dia 4 Kg/cm <sup>2</sup>	m	395.80	Rs.Three hundred & ninety five & ps. Eighty only	<b>5,937.00</b>
18	3.00	Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes with one step PVC Solvent cement and testing of joints complete as per direction of Engineer-in-Charge. Concealed work, including cutting chases and making good the wall etc. 110 mm pipe 4 kgf/cm <sup>2</sup>	m	555.91	Rs.Five hundred & fifty five & ps. Ninety one only	<b>1,667.73</b>
19	15.00	Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 25 mm dia 12 Kg/ cm <sup>2</sup> - External work- exposed on wall	m	232.27	Rs.Two hundred & thirty two & ps. Twenty seven only	<b>3,484.05</b>

20	3.00	Providing and fixing PVC pipes including fixing the pipe with clamps/clips at 1.00 m spacing. This includes jointing of pipes with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 63 mm dia 4 Kgf/cm <sup>2</sup> - External work - exposed on wall	m	192.84	Rs.One hundred & ninety two & ps. Eighty four only	<b>578.52</b>
21	1.00	Providing and fixing PVC pipes includings of pipes with one step PVC solvent cement, trenching refilling & testing of joints complete as per direction of Engineer in Charge. 63 mm dia 6Kgf/cm <sup>2</sup>	m	286.28	Rs.Two hundred & eighty six & ps. Twenty eight only	<b>286.28</b>
22	1.00	Constructing brick masonry manhole in cement mortar 1:4 ( 1 cement : 4 coarse sand) with R.C.C. top with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix ( 1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size,) inside plastering 12 mm thick with cement mortar 1:3 ( 1 cement : 3 coarse 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 20 mm nominal size ) finished with a floating coat of neat cement complete as per standard design: Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover and frame to be not less than 38 kg (weigh of cover 23 kg and weight of frame 15 kg): With common burnt clay F.P.S. (non modular) bricks of class designation 7.5 □	E	12443.56	Rs.Twelve thousand four hundred & forty three & ps.Fifty Six only	<b>12,443.56</b>
23	5.00	Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge. Concealed work, including cutting chases and making good the wall etc. 50 mm pipe 6 kgf/cm <sup>2</sup>	m <sup>2</sup>	339.32	Rs.Three hundred & thirty nine & ps. Thirty two only	<b>1,696.60</b>
24	2.00	Providing and fixing PVC moulded fittings/ accessories for Rigid PVC pipes, including jointing with PVC solvent cement - 63 mm dia Elbow	E	69.87	Rs.Sixty nine & ps. Eighty seven only	<b>139.74</b>

25	2.00	Providing and fixing PVC moulded fittings/ accessories for Rigid PVC pipes, including jointing with PVC solvent cement -63 dia 45 degree Elbow	E	61.17	Rs.Sixty one & ps. Seventeen only	<b>122.34</b>
26	1.00	Providing and fixing PVC moulded fittings /accessories for Rigid PVC pipes, including jointing with PVC solvent cement - 63 mm dia Door Elbow	E	77.42	Rs.Seventyseven & ps. Forty two only	<b>77.42</b>
27	2.00	Providing and fixing PVC moulded fittings/ accessories for Rigid PVC pipes, including jointing with PVC solvent cement - 63 mm dia Bend	E	76.27	Rs.Seventy six & ps. Twenty seven only	<b>152.54</b>
28	1.00	Providing and fixing PVC moulded fittings/accessories for Rigid PVC pipes including jointing with PVC solvent cement - 63x63x63 mm dia Tee	E	82.87	Rs.Eighty two & ps. Eighty seven only	<b>82.87</b>
29	2.00	Providing and fixing PVC moulded fittings/ accessories for Rigid PVC pipes, including jointing with PVC solvent cement - 110 mm dia Elbow	E	104.18	Rs.One hundred & four & ps. Eighteen only	<b>208.36</b>
30	2.00	Providing and fixing PVC moulded fittings / accessories for Rigid PVC pipes, including jointing with PVC solvent cement - 110 mm dia 45 degree Elbow	E	101.88	Rs.One hundred one & ps. Eighty eight only	<b>203.76</b>
31	1.00	Providing and fixing PVC moulded fittings/ accessories for Rigid PVC pipes, including jointing with PVC solvent cement-110 mm dia Door Elbow	E	128.58	Rs.One hundred & twenty eight & ps. Fifty eight only	<b>128.58</b>
32	1.00	Providing and fixing PVC moulded fittings/ accessories for Rigid PVC pipes, including jointing with PVC solvent cement- 110 mm dia Bend	E	157.63	Rs.One hundred & fifty seven & ps. Sixty three only	<b>157.63</b>
33	1.00	Providing and fixing PVC moulded fittings/ accessories for Rigid PVC pipes including jointing with PVC solvent cement 110x110x110 mm dia Tee	E	171.25	Rs.One hundred & seventy one & ps. Twenty five only	<b>171.25</b>
34	1.00	Providing and fixing PVC moulded fittings/accessories for Rigid PVC pipes, including jointing with PVC solvent cement - 110x110x110 mm dia Door tee	E	183.99	Rs.One hundred & eighty three & ps. Ninety nine only	<b>183.99</b>
35	1.00	Providing and fixing PVC moulded fittings /accessories for Rigid PVC pipes, including jointing with PVC solvent cement -110 mm dia Vent cowl	E	120.43	Rs.One hundred & twenty & ps. Forty three only	<b>120.43</b>

36	5.00	Providing and fixing factory made P.V.C. door frame of size 50x47 mm with a wall thickness of 5 mm, made out of extruded 5 mm rigid PVC foam sheet, mitred at corners and joined with 2 Nos. of 150 mm long brackets of 15x15 mm M.S. square tube, the vertical door frame profiles to be reinforced with 19x19 mm M.S. square tube of 19 gauge, EPDM rubber gasket weather seal to be provided through out the frame. The door frame to be fixed to the wall using M.S. screws of 65/100 mm size, complete as per manufacturer's specification and direction of Engineer-in Charge.	m	632.33	Rs.Six hundred & thirty two & ps. Thirty three only	<b>3,161.65</b>
37	1.58	Providing and fixing factory made panel PVC door shutter consisting of frame made out of M.S. tubes of 19 gauge thickness and sized of 19 mm x 19 mm for styles and 15x15 mm for top & bottom rails. M.S. frame shall have a coat of steel primers of approved make and manufacture. M.S. frame covered with 5 mm thick heat moulded PVC 'C' channel of size 30 mm thickness, 70 mm width out of which 50 mm shall be flat and 20 mm shall be tapered in 45 degree angle on both side forming styles and 5mm thick, 95 mm wide PVC sheet out of which 75 mm shall be tapered in 45 degree on the inner side to form top and bottom rail and 115 mm wide PVC sheet out of which 75 mm shall be flat and 20 mm shall be tapered on both sides to form lock rail. Top, bottom and lock rails shall be provided both side of the panel. 10 mm (5 mmx2) thick, 20 mm wide cross PVC sheet be provided as gap insert for top rail & bottom rail. paneling of 5 mm thick both side PVC sheet to be fitted in the M.S. frame welded /sealed to the styles & rails with 7 mm (5 mm + 2 mm ) thick x 15 mm wide PVC sheet beading on inner side, and joined together with solvent cement adhesive. An additional 5 mm thick PVC strip of 20 mm width is to be stuck on the interior side of the 'C' Channel using PVC solvent adhesive etc. complete as per direction of Engineer -in-charge, manufacture's specification & drawing.30 mm thick plain PVC door shutter	m2	3989.38	Rs.Three thousand nine hundred & eighty nine & ps. Thirty eight only	<b>6,287.26</b>

38	1.00	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	E	1178.84	Rs.One thousand one hundred & seventy eight & ps. Eighty four	<b>1,178.84</b>
39	1.00	Providing and fixing PTMT liquid soap container 109 mm wide, 125 mm high and 112 mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour, weighing not less than 105 gms	E	198.67	Rs. One hundred & ninety eight & ps. Sixty seven only	<b>198.67</b>
40	1.00	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fitting arrangement of approved quality and colour 450 mm long towel rail with total length of 495 mm, 78 mm wide and effective height of 88 mm. weighing not less than 170 gm	E	562.37	Rs.Five hundred & sixty two & ps. Thirty seven only	<b>562.37</b>
41	4.73	Dismantling wooden boardings in lining of walls and partitions, excluding supporting members but including stacking with in 50 metres lead: Upto 10 mm thick	m2	37.41	Rs.Thirty seven & ps. Forty one only	<b>176.80</b>
42	5.00	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, Aluminnium 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)	Kg	554.14	Rs.Five hundred & fifty four & ps. Fourteen only	<b>2,770.70</b>

43	13.23	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)	Kg	641.25	Rs.Six hundred & forty one & ps. Twenty five only	<b>8,483.74</b>
44	1.891	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 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 one side and balancing lamination on other side	m2	1190.93	Rs.One thousand one hundred & ninety & ps. Ninety three only	<b>2,252.05</b>
45	1.00	Providing and fixing aluminium die cast body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 35 kg and door width upto 700 mm), with necessary accessories and screws etc. complete.	E	597.31	Rs.Five hundred & ninety seven & ps. Thirty one only	<b>597.31</b>
46	1.00	Providing and fixing aluminium handles, 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: 125 mm	E	73.65	Rs.Seventy three & ps. Sixty five only	<b>73.65</b>
47	1.00	Providing and fixing bright finished brass 100 mm mortice latch and lock, ISI marked, with six levers and a pair of anodised (anodic coating not less than grade AC 10 as per IS: 1868) aluminium lever handles of approved quality with necessary screws etc . complete.	E	896.65	Rs.Elight hundred & ninety six & ps. Sixty five only	<b>896.65</b>
48	13.90	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface: Water thinnable cement primer	m2	53.26	Rs.Fifty three & ps. Twenty six only	<b>740.31</b>

49	67.06	Wall painting with plastic emulsion paint of approved brand and manufacture to give an even shade: One or more coats on old work	m2	79.62	Rs.Seventy nine & ps. Sixty two only	<b>5,339.56</b>
50	32.53	Painting with synthetic enamel paint of approved brand and manufacture of required colour to an give even shade: One or more coats on old work	m2	73.93	Rs.Seventy three & ps. Ninety three only	<b>2,404.65</b>
51	47.434	Providing and fixing powder coated aluminium work ( minimum thickness of powder coating 50 micron) consisting of tee /angle sections, of approved make conforming to IS : 733 in frames of false ceiling including aluminium angle cleats with necessary C.P brass/ stainless steel sunk screws, aluminium perimeter angles fixed to wall with stainless steel rawl plugs @ 450 mm centre to centre and fixing the frame work to G.I level adjusting hangers 6 mm dia. with necessary cadmium plated machine screws all complete as per approved architectural drawings and direction of the Engineer-in-Charge ( level adjusting hangers, ceiling cleats and expansion hold fasteners to be paid for separately ).	kg	690.12	Rs.Six hundred & ninety & ps. Twelve only	<b>32,735.15</b>
52	35.00	Providing and fixing 6 mm dia. G I level adjusting hangers ( upto 1200 mm length), fixed to roof slabs by means of ceiling cleats made out of G.I flat 40x3 mm size 60 mm long and stainless steel expandable dash fastener of 12.5 mm dia and 50 mm long, complete as per direction of Engineer -in-Charge	E	79.56	Rs.Seventy nine & ps. Fifty six only	<b>2,784.60</b>

53	23.717	Providing and fixing false ceiling with e board classic tile or equivalent make of size 610x610x4 mm ceiling of approved quality in aluminium frame work with necessary screws etc complete ( aluminium frame work shall be paid separately)	m2	666.91	Rs.Six hundred & sixty six & ps. Ninety one only	<b>15,817.10</b>
54	1.00	Constructing brick masonry road gully chamber 45x45x77.5 cm with bricks in cement mortar 1:4 (1 cement:4 coarse sand) with pre -cast R.C.C vertical grating complete as per standard design: With common burnt clay F.P.S (non modular) bricks of class designation 7.5	E	6318.98	Rs.Six thousand three hundred & eighteen & ps. Ninety eight only	<b>6,318.98</b>
		Total				<b>189,292.74</b>

PAC Rs 1,89,293 /- (Rs. One lakh Eighty Nine thousand Two Hundred & Ninety Three only)

1. I/We agreed to execute the work.

2. ....% above the estimate rate.

2. ....% below the estimate rate.

3. At the estimate rate.

**CONTRACTOR**

**UNIVERSITY ENGINEER**

**sd/-**