

**UNIVERSITY OF KERALA
ENGINEERING UNIT, KARIAVATTOM**

Tender schedule for urgent repair of toilet block-water leakage through wall and floor of bathrooms in the Additional Men's Hostel at Kariavattom campus.

Sl.No.	Quantity	Specification	Unit	Rate	Rate in words	Amount
1.00	2.00	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)	m ³	1505.34	Rs.One thousand Five hundred & Five & ps. Thirty Four only	3,010.68
2.00	1.00	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 mud mortar	m ³	435.51	Rs.Four hundred & Thirty Five & ps. Fifty One only	435.51
3.00	8.00	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	E	238.33	Rs.Two hundred & Thirty Eight & ps. Thirty Three only	1,906.64
4.00	120.00	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead. For thickness of tiles 10 mm to 25 mm	m ²	47.63	Rs.Forty Seven & ps. Sixty Three only	5,715.60
5.00	30.00	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead	m ²	33.82	Rs.Thirty Three & ps. Eighty Two only	1,014.60

6.00	110.00	Providing and laying four courses water proofing treatment with bitumen felt over roofs consisting of first and third courses of blown bitumen 85/25 or 90/15 conforming to IS : 702 applied hot @ 1.45 Kg per square metre of area for each course, second course of roofing felt type 3 grade-I (hessian based self finished bitumen felt) and fourth and final course of stone grit 6 mm and down size or peasized gravel spread at 6 cubic decimeter per square metre, including preparation of surface but excluding grading complete with : Bitumen felt (hessian base) type 3 grade I conforming to IS : 1322	m ²	471.07	Rs.Four hundred & Seventy One & ps.Seven only	51,817.70
7.00	50.00	Providing and laying water proofing treatment in sunken portion of WCs, bathroom etc., by applying cement slurry mixed with water proofing cement compound consisting of applying :(a) First layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm. This layer will be allowed to air cure for 4 hours.(b) Second layer of slurry of cement @ 0.242 kg/sqm mixed with water proofing cement compound @ 0.126 kg/sqm. This layer will be allowed to air cure for 4 hours followed with water curing for 48 hours.The rate includes preparation of surface, treatment and sealing of all joints, corners, junctions of pipes and masonry with polymer mixed slurry.	m ²	450.37	Rs.Four hundred & Fifty & ps.Thirty Seven only	22,518.50
8.00	75.00	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq. meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground, all complete as per direction of Engineer-in-Charge.	m ²	399.79	Rs.Three hundred & Ninety Nine & ps. Seventy Nine only	29,984.25

9.00	6.00	Cleaning and desilting of gully trap chamber, including removal of rubbish mixed with earth etc. and disposal of same, all as per the direction of Engineer-in-charge.	E	71.79	Rs.Seventy One & ps. Seventy Nine only	430.74
10.00	3.00	Providing and fixing brass bib cock of approved quality : 15 mm nominal bore	E	392.70	Rs.Three hundred & Ninety two & ps. Seventy only	1,178.10
11.00	2.00	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 (zone-III) : 4 graded stone aggregate 20 mm nominal size)	m ³	8276.66	Rs.Eight thousand Two hundred & Seventy Six & ps. Sixty Six only	16,553.32
12.00	2.00	Providing and laying up to floor five level reinforced cement concrete in kerbs, steps and the like excluding the cost of centering, shuttering, finishing and reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) : 3 graded stone aggregate 20 mm nominal size).	m ³	10459.68	Rs.Ten thousand Four hundred & Fifty Nine & ps. Sixty Eight only	20,919.36
13.00	10.00	Centering and shuttering including strutting, propping etc. and removal of form for all heights :Lintels, beams, plinth beams, girders, bressumers and cantilevers	m ²	517.70	Rs.Five hundred & Seventeen & ps. Seventy only	5,177.00
14.00	50.00	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	85.45	Rs.Eighty Five & ps. Forty five only	4,272.50
15.00	4.00	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) : 25 mm nominal bore	E	646.50	Rs.Six hundred & Forty Six & ps. Fifty only	2,586.00
16.00	2.00	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete : 15 mm nominal bore	E	433.70	Rs.Four hundred & Thirty Three & ps. Seventy only	867.40

17.00	30.00	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 25mm dia 10Kgf/cm ² - Internal work - Exposed on wall	m	212.72	Rs.Two hundred & Twelve & ps. Seventy Two only	6,381.60
18.00	10.00	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 32mm dia 10Kgf/cm ² - Internal work - Exposed on wall	m	256.60	Rs.Two hundred & Fifty Six & ps. Sixty only	2,566.00
19.00	10.00	Providing and fixing PVC pipes includings jointing of pipes with one step PVC solvent cement ,trenching, refilling & testing of joints complete as per direction of Engineer in Charge. 25 mm dia 10Kgf/cm ²	m	175.67	Rs.One hundred & Seventy Five & ps. Sixty Seven only	1,756.70
20.00	10.00	Providing and fixing PVC pipes includings jointing of pipes with one step PVC solvent cement ,trenching, refilling & testing of joints complete as per direction of Engineer in Charge. 32 mm dia10 Kgf/cm ²	m	183.70	Rs.One hundred & Eighty Three & ps. Seventy only	1,837.00
21.00	8.00	Providing and fixing PVC pipes includings jointing 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 ²	m	293.05	Rs.Two hundred & Ninety Three & ps. Five only	2,344.40
22.00	15.00	Providing and fixing PVC pipes includings jointing of pipes with one step PVC solvent cement ,trenching, refilling & testing of joints complete as per direction of Engineer in Charge. 110 mm dia 6Kgf/cm ²	m	454.77	Rs.Four hundred & Fifty Four & ps. Seventy Seven only	6,821.55

23.00	20.00	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 63mm dia 6Kgf/cm2 External work - Exposed on wall	m	239.85	Rs.Two hundred & Thirty Nine & ps. Eighty Five only	4,797.00
24.00	20.00	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 110mm dia 6Kgf/cm2 -External work - Exposed on wall	m	353.30	Rs.Three hundred & Fifty Three & ps. Thirty only	7,066.00
25.00	9.00	Providing and fixing PVC moulded fittings / accessories for Rigid PVC pipes, including jointing with PVC solvent cement - 63 mm dia Elbow	E	71.53	Rs.Seventy One & ps. Fifty Three only	643.77
26.00	3.00	Providing and fixing PVC moulded fittings / accessories for Rigid PVC pipes, including jointing with PVC solvent cement - 63 mm dia 45° Elbow	E	62.77	Rs.Sixty Two & ps.Seventy Seven only	188.31
27.00	4.00	Providing and fixing PVC moulded fittings / accessories for Rigid PVC pipes, including jointing with PVC solvent cement - 63 mm dia Door Elbow	E	79.08	Rs.Seventy Nine & ps. Eight only	316.32
28.00	3.00	Providing and fixing PVC moulded fittings / accessories for Rigid PVC pipes, including jointing with PVC solvent cement - 63 mm dia Bend	E	77.87	Rs.Seventy Seven & ps. Eighty Seven only	233.61
29.00	6.00	Providing and fixing PVC moulded fittings / accessories for Rigid PVC pipes, including jointing with PVC solvent cement - 63 x 63 x 63 mm dia Tee	E	84.63	Rs.Eighty Four & ps.Sixty Three only	507.78
30.00	3.00	Providing and fixing PVC moulded fittings / accessories for Rigid PVC pipes, including jointing with PVC solvent cement - 63 mm dia Vent cowl	E	75.03	Rs.Seventy Five & ps. Three only	225.09
31.00	3.00	Providing and fixing PVC moulded fittings / accessories for Rigid PVC pipes, including jointing with PVC solvent cement - 63 mm dia Socket/ coupling	E	65.13	Rs.Sixty Five & ps. Thirteen only	195.39

32.00	6.00	Providing and fixing PVC moulded fittings / accessories for Rigid PVC pipes, including jointing with PVC solvent cement - 110 mm dia Elbow	E	106.05	Rs.One hundred & Six & ps. Five only	636.30
33.00	3.00	Providing and fixing PVC moulded fittings / accessories for Rigid PVC pipes, including jointing with PVC solvent cement - 110 mm dia 45° Elbow	E	103.75	Rs.One hundred & Three & ps. Seventy Five only	311.25
34.00	6.00	Providing and fixing PVC moulded fittings / accessories for Rigid PVC pipes, including jointing with PVC solvent cement - 110 mm dia Door Elbow	E	130.45	Rs.One hundred & Thirty & ps. Forty Five only	782.70
35.00	2.00	Providing and fixing PVC moulded fittings / accessories for Rigid PVC pipes, including jointing with PVC solvent cement - 110 mm dia Bend	E	159.50	Rs.One hundred & Fifty Nine & ps. Fifty only	319.00
36.00	3.00	Providing and fixing PVC moulded fittings / accessories for Rigid PVC pipes, including jointing with PVC solvent cement - 110 x 110 x 110 mm dia Door Tee	E	185.95	Rs.One hundred & Eighty Five & ps.Ninety Five only	557.85
37.00	9.00	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	743.65	Rs.Seven hundred & Forty Three & ps. Sixty Five only	6,692.85
38.00	9.00	Providing and fixing PTMT grating of approved quality and colour.Circular type 125 mm nominal dia with 25 mm waste hole	E	68.76	Rs.Sixty Eight & ps. Seventy Six only	618.84
39.00	15.00	Supplying and fixing best quality PVC door frame of size 46x40x2 mm hollow section of approved brand fixed to wall with necessary steel screws including all materials and labour charges for fixing etc complete.	m	309.81	Rs.Three hundred & Nine & ps.Eighty One only	4,647.15

40.00	7.00	Providing and fixing best quality factory made PVC door shutter of standard size and approved brand to the existing pvc door frames with wall thickness 2 mm for styles and rails mitred and joined at the corners by means of brackets and stainless steel screws. The shutter frame fitted with a pvc multi chambered single panel having overall thickness of 20 mm and 1 mm wall thickness including all charges etc. complete as per direction of Engineer-in-charge.	m2	2718.38	Rs. Two thousand Seven hundred & Eighteen & ps. Thirty Eight only	19,028.66
41.00	30.00	Providing and fixing 1st 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 @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	m2	1124.49	Rs. One thousand One hundred & twenty Four & ps. Forty Nine only	33,734.70
42.00	60.00	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), Jointing with grey cement slurry @ 3.3 kg/sqm including pointing the joints with white cement and matching pigment etc., complete.	m2	1039.28	Rs. One thousand and thirty Nine & ps. Twenty Eight only	62,356.80

43.00	50.00	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, 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)	Kg	580.52	Rs. Five hundred & Eighty & ps. Fifty Two only	29,026.00
44.00	4.00	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 4.0 mm thickness	m2	1119.51	Rs.One thousand One hundred & Nineteen & ps. Fifty one only	4,478.04
45.00	30.00	12 mm cement plaster of mix : 1:4 (1 cement: 4 fine sand)	m2	261.12	Rs.Two hundred & Sixty One & ps. Twelve only	7,833.60
46.00	20.00	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :One or more coats on old work	m2	77.45	Rs Seventy Seven & ps. Forty Five only	1,549.00

47.00	200.00	Wall painting with plastic emulsion paint of approved brand and manufacture to give an even shade:One or more coats on old work	m2	83.41	Rs.Eighty Three & ps. Forty One only	16,682.00	
		Total					393,523.16

PAC Rs.3,93,523/- (Rs. Three Lakh Ninety Three thousand Five hundred &Twenty Three only)

I/We agreed to execute the work.

1.% above the estimate rate.

2.% below the estimate rate.

3. At the estimate rate.

CONTRACTOR

**sd/-
UNIVERSITY ENGINEER**