

**UNIVERSITY OF KERALA
ENGINEERING UNIT, KARIAVATTOM**

Tender schedule for renovation work of of Portico and maintenance work of toilet in Department of ORI & Manuscripts Library at Kariavattom campus.

Sl.No.	Quantity	Specification	Unit	Rate	Rate in words	Amount
1	1.00	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)	m3	1,375.23	Rupees One thousand Three hundred Seventy five and Twenty Three paise only	1,375.23
2	20.40	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead. For thickness of tiles above 10 mm and up to 25 mm	m2	43.52	Rupees Forty Three and Fifty Two paise only	887.81
3	0.70	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	1,162.34	Rupees One thousand One hundred and sixty two and paise Thirty four only	813.64
4	2.00	Dismantling of flushing cistern of all types (C.I. / PVC/ Vitrous China) including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead	E	539.58	Rupees five hundred thirty nine and fifty eight paise only	1,079.16
5	2.00	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	4,715.41	Rupees four thousand seven hundred fifteen and forty one paise only	9,430.82

6	1.00	Providing and fixing white vitreous china laboratory sink with C.I brackets, C.P. brass chain with rubber plug 40 mm C.P brass waste and 40 mm C.P. brass trap with necessary C.P. brass unions complete, including painting of fittings and brackets, cutting and making good the wall wherever required: Size 450x300x150 mm	E	3,300.11	Rupees three thousand three hundred and eleven paise only	3,300.11
7	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 25 mm dia 12 Kgf/ cm ² - External work- exposed on wall	M	225.79	Rupees two hundred twenty five and seventy nine paise only	2,257.90
8	10.00	Providing and fixing PVC pipes including fixing the pipe with clamps/ clip 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 6 Kgf/cm ² - External work - Exposed on wall	M	231.56	Rupees two hundred thirty one and fifty six paise only	2,315.60
9	5.00	Providing and fixing PVC moulded fittings/ accessories for Rigid PVC pipes, including jointing with PVC solvent cement - 63 mm dia Elbow	E	68.36	Rupees sixty eight and thirty six paise only	341.80
10	3.00	Providing and fixing PVC moulded fittings/ accessories for Rigid PVC pipes, including jointing with PVC solvent cement - 63 mm dia Bend	E	74.76	Rupees seventy four and seventy six paise only	224.28
11	1.00	Providing and fixing PVC moulded fittings/ accessories for Rigid PVC pipes, including jointing with PVC solvent cement - 63 mm dia vent cowl	E	71.86	Rupees seventy one and eighty six paise only	71.86

12	20.40	Providing and fixing 1 st 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	1,027.30	Rupees one thousand twenty seven and thirty paise only	20,956.92
13	5.50	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), including pointing the joints with white cement and matching pigment etc., complete.	m2	949.44	Rupees nine hundred forty nine and forty four paise only	5,221.92
14	2.00	Labor engaged for easing and cutting doors	E	780.20	Rupees seven hundred eighty and twenty paise only	1,560.40

15	4.00	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 (cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size)	m3	7,418.12	Rupees seven thousand four hundred eighteen Rupees and twelve paisa only	29,672.48
16	10.00	Cleaning of reinforcement from rust from the reinforcing bars to give it a total rust free steel surface by using alkaline chemical rust remover of approved make with paint brush and removing loose particles after 24 hours of its application with wire brush and thoroughly washing with water and allowing it to dry, all complete as per direction of Engineer-In-Charge	M	11.45	Rupees eleven and forty five paisa only	114.50
17	15.00	Providing, mixing and applying bonding coat of approved adhesive on chipped portion of RCC as per specifications and direction of Engineer-In-charge complete in all respect.SBR Polymer (@10% of cement weight) modified cementitious bond coat @2.2 kg cement per sqm of surface area mixed with specified proportion of approved polymer	m2	120.76	Rupees one hundred twenty and seventy six paisa only	1,811.40
18	15.00	Cleaning of exposed concrete surface of sticking material including loose and foreign material by sand blasting with coarse sand followed by and including cleaning with oil free air blast as per direction of Engineer in charge.	m2	348.41	Rupees three hundred forty eight and forty one paisa only	5,226.15

19	45.00	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.	m2	411.45	Rupees four hundred eleven and forty five paisa only	18,515.25
20	36.30	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 within 50 meters lead: With cement mortar 1:4 (1 cement : fine sand)	m2	365.24	Rupees three hundred sixty five and twenty four paisa only	13,258.21
21	15.00	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	613.72	Rupees six hundred thirteen and seventy two paisa only	9,205.80
22	1.50	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.	m2	1,195.30	Rupees one thousand one hundred ninety five and thirty paisa only	1,792.95

23	1.50	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	m2	1,384.75	Rupees one thousand three hundred eighty four and seventy five paise only	2,077.13
24	1.00	Providing and fixing 100 mm brass locks (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete	E	495.17	Rupees four hundred ninety five and seventeen paise only	495.17
25	2.00	Providing and fixing aluminium round shape handle of outer dia 100 mm with SS screws etc. complete as per direction of Engineer-in-Charge. Powder coated minimum thickness 50 micron aluminium	E	94.21	Rupees ninety four and twenty one paise only	188.42
26	1.00	Providing and fixing bright finished brass hanging type floor door stopper with necessary screws, etc. complete.	E	118.41	Rupees one hundred eighteen and forty one paise only	118.41
27	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	571.65	Rupees five hundred seventy one and sixty five paise only	571.65
		TOTAL				132,885

PAC Rs.1,32,885/- (Rs. One Lakh Thirty tW thousand Five Hundred and Ten 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