

**UNIVERSITY OF KERALA**  
**ENGINEERING UNIT, KARIAVATTOM**  
**TENDER SCHEDULE FOR PARTITIONING WORK, PROVIDING ADDITIONAL TOILET AND ALUMINIUM FABRICATION WORK, LEAK PROOFING AND**  
**FLOOR REPAIR WORKS IN THE DEPARTMENT OF COMMERCE AT KARIAVATTOM**  
**PART-I - PARTITIONING WORK AND PROVIDING TOILET FACILITIES TO THE HOD'S ROOM AND OFFICE ROOM**

Sl.No.	Quantity	Specification	Unit	Rate	Rate in words	Amount
1	1 No.	Labour engaged for floor chipping and removing the existing plastering and removal of debris. (mason)	E	520.00	Rs.Five hundred & twenty only	520.00
2	0.6m <sup>3</sup>	Cement concrete blocks work in cement mortar 1:6 with solid cement concrete bricks of size 40x20x15cm for superstructure including all charges for cost and conveyances, watering, curing labour, scaffolding etc. complete.	m <sup>3</sup>	5941.00	Rs. Five thousand nine hundred & forty one only	3,564.60
3	20m <sup>2</sup>	Plastering with cement mortar 1:4 12mm thick one coat (fine sand) including all charges for cost and conveyances, watering, curing etc. complete. (13.7.2)	m <sup>2</sup>	249.23	Rs. Two hundred & forty nine & ps. twenty three only	4,984.60
4	0.50m <sup>3</sup>	Providing and laying cement concrete in retaining walls, return wall, 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 grill, fillets, sunken floor etc. upto floor five level excluding the cost of centering, shuttering and finishing 1:4:8 ( 1 cement 4 course sand 8 graded stone aggregate 40mm nominal size).(4.1.8)	m <sup>3</sup>	5410.50	Rs. Five thousand four hundred & ten & ps. fifty only	2,705.25
5	4m <sup>2</sup>	Providing and laying ceramic glazed floor tiles of size 300x300mm (thickness to be specified by the manufacturer), of 1st quality conforming to IS:15622, of approved make, in all colours, shades, except white, Ivory, Grey, fume Red Brown, laid on 20mm thick bed of cement mortar 1:4 (1 cement 4 coarse sand), including pointing the joints with white cement and matching pigments etc. complete.(11.38)	m <sup>2</sup>	1150.99	Rs. One thousand one hundred & fifty & ps. ninety nine only	4,603.96

6	8m <sup>2</sup>	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 columns, shades except burgundy, bottle, green, black of any size as approved by Engineer-in-charge in skirting, risers of steps and dados, over 12mm thick bed of cement mortar 1:3 (1 cement 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sq.m, including pointing in white cement mixed with pigment of matching shade complete.(11.36)	m <sup>2</sup>	1095.17	Rs. One thousand & ninety five & ps. seventeen	8,761.36
7		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 ie. 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/paneting CP brass/stainless steel screws all complete as per architectural drawings and the direction of Engineer-in-charge.				
(a)	98kg	Partition Powder coated aluminium (minimum thickness of powder coating 50 micron.(21.1.1.2)	Kg	514.74	Rs. Five hundred & fourteen & ps. seventy four only	50,444.52
(b)	36Kg	For shutters of doors, windows and ventilators including providing and fixing hinges/pivot and making provision for fixing of fittings wherever required including the cost of EPDM rubber/neoprene gasket required (fittings shall be paid for seperately)	Kg	590.09	Rs. Five hundred & ninety & ps. nine	21,243.24

8	19m <sup>2</sup>	Providing and fixing 12mm thick PVC sheet in panelling fixed in aluminium doors, windows shutters and partition frames with CP brass/stainless steel screws etc. complete as per architectural drawings and directions of Engineer-in-charge. PVC sheet with decorative lamination on one side and balancing lamination other other side.	m <sup>2</sup>	933.49	Rs. Nine hundred & thirty three & ps. forty nine only	17,736.31
9	16m <sup>2</sup>	Providing and fixing 12mm 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 aluminium doors, windows shutters and partition frames with CP brass/stainless steel screws etc. complete as per architectural drawings and directions of engineer-in-charge. Prelaminated particle board with decorative lamination on both sides.(31.2.2)	m <sup>2</sup>	1471.08	Rs. One thousand four hundred & seventy one & ps. eight only	23,537.28
10 (21.3.)	3m <sup>2</sup>	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 items) with float glass panes of 5.50mm thickness.	m <sup>2</sup>	1392.42	Rs. One thousand three hundred & ninety two & ps. forty two	4,177.26

11	36m <sup>2</sup>	Providing and fixing 8mm PVC sheet false ceiling of approved materials, suspended on inter locking metal grid of hot dipped galvanized steel sections(galvanized @ 120 grams, sqm, both side inclusive)consisting of main 'T' runner with suitably spaced joints to get required length and of size 24x38mm made from 0.30mm thick(minimum) sheet, spaced at 1200mm center to center and cross 'T' of size 24x25mm made of 0.30mm thick(minimum)sheet, 1200mm long spaced between main 'T' at 600mm center to center to form a grid of 1200x600mm and secondary cross 'T' of length 600mm and size 24x25mm made of 0.30mm thick(minimum) sheet to be interlocked at middle of the 1200x600mm panel to from gross of 600x600mm and wall angle of size 24x24x0.30mm and laying false ceiling tiles of approved taxture in the grid including required cutting/making, opening for services like diffusen, grills, light fittings, fixtures, smoke detectors etc. Main 'T' runners to be suspended from ceiling using GI slotted cleats of size 27x37x25x1.6mm fixed to ceiling with 12.5mm dia and 50mm long dark fasteners, 4mm GI adjustable rods with galvanized butterfly level clips of size 85x30x0.8mm spaced at 1200mm center to center along main 'T', bottom exposed width of 24mm of all T-Sections shall be pre-painted with polyester paint, all complete for all heights as per specifications, drawings and as directed by Engineer-in-charge.	m <sup>2</sup>	1042.16	Rs. One thousand & forty two & ps. sixteen	37,518.00
12	3m <sup>2</sup>	Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade. New work(two or morecoats) over and including water thinnable priming coat with cement primer.(13.41.1)	m <sup>2</sup>	109.92	Rs. One thousand & nine & ps. ninety two	329.75
13	2 Nos.	Providing and fixing white vitreous china pedestal type water closet (European type W.C. Pan) with seat and 1:d, 10 litre low level white PVC 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 require. WC pan with ISI mark white solid plastic seat and lid . (17.2)	E	4401.86	Rs. Four thousand four hundred & one & ps. eighty six	8,803.72

14	2 Nos.	Providing and fixing wash basin with CI brackets, 15mm C.P. brass pillar taps, 32mm CP brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require. White vireous china wash basin size 630x450mm with a single 15mm CP brass pillar tap. (17.72)	E	2626.49	Rs. Two thousand six hundred & twenty six & ps. forty nine only	5,252.98
15		Providing and fixing poly vinyl chloride (PVC) pipes, having water supply, including all PVC fittings including fixing the pipe with clamps at 1.00m spacing. This includes jointing of pipes and fittings with one step PVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Eingieer in charge. Concealed work, including cutting chases and making good the walls etc.(18.8.)				
a	10 mtr.	25mm nominal outer dia pipes (12kgf/cm2) (18.8.3)	M	254.47	Rs. Two hundred & fifty four & ps. forty seven only	2,545.00
b	15 mtr.	32mm nominal outer dia pipes (12kg/cm2) (18.8.4)	M	282.92	Rs. Two hundred & eighty two & ps. ninety two	4,244.00
16		Providing and fixing pollyvinyl choride (PVC pipes, having water supply including all PVC fittings. This includes jointing of pipes and fittings with one coat step PVC solvent cement, trenching, refilling and testing of joints complete as per direction of Engineer-incharge. (16 (18.9)				
a	20 mtr	110mm nominalouter dia PVC 4kg/cm2 (18.9.9.)	M	402.34	Rs. Four hundred & two & ps. thirty four only	8,047.00
b	20 mtr	63mm nominal outer dia PVC pipes 6kg/cm2 18.9.7	M	218.72	Rs. Two hundred & eighteen & ps. seventy two only	4,374.00
c	25 mtr	32mm nominal outer dia pipes (10kg/cm2) (18.9.4)	M	126.09	Rs. One hundred & twenty six & ps. nine only	3,152.00
d	10 mtr.	25mm nominal outer dia pipes (10kg/cm2)( 18.9.3)	M	110.99	Rs. One hundred & ten & ps. ninety nine only only	1,110.00

17	2 Nos.	Providing and fixing P.V.C waste pipe for sink or wash basin including P.V.C waste fittings complete.Flexible pipe 32mm dia (17.28.2.2)	E	100.12	Rs. One hundred & ps. twelve only	200.24
18	1 No.	Constructing brick masonry road gully chamber 50x45x60 cm with bricks in cement mortar 1:4 (1 cement, 4 coursesand) including 500x450 mm pre-cast R.C.C horizontal grating with frame complete as per standard design with common burnt clay F.P.S(non modular) bricks of class designation 7.5 (19.27.1)	E	5209.43	Rs. Five thousand two hundred & nine & ps. forty three only	5,209.43
19	2 Nos.	Providing and fixing C.P brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms. 15mm nominal bore.(18.51.1)	E	840.97	Rs. Eight hundred & forty & ps. ninety seven only	1,681.94
20	6 Nos.	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931a) 15mm nominal bore(18.53.1)	E	699.25	Rs. Six hundred & ninety nine & ps. twenty five only	4,195.50
21	2 Nos.	Providing and fixing gun metal gate valve with C.I.Weel of approved quality(Screwed end) 32mm nominal size. (18.17.2)	E	690.48	Rs. Six hundred & ninety & ps. forty eight only	1,380.96
22	3 Nos.	Providing and fixing uplasticised PVC connection pipe with brass unions. 15mm nominal bore. (18.21.1.1)	E	81.35	Rs. Eighty one & ps. thirty five	244.05
23	500 litre	Providing and placing on terrace(at all floor levels) Polyethylene water storage tank, ISI:12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.(18.48)	Ltr.	8.69	Rs. Eight & ps. sixty nine	4,345.00
24	1 No.	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete. 15mm nominal bore. (18.18.1)	E	395.44	Rs. Three hundred & ninety five & ps. forty four	395.44
25	1 No.	Providing and fixing gun metal gate valve with C.I.Weel of approved quality(Screwed end) 25mm nominal bore. (18.17.1)	E	590.36	Rs. Five hundred & ninety & ps. thirty six only	590.36

26	1 No.	Providing and fixing brass ferrule with C.I. mouth cover including boring and tapping the main. (18.20.1)	E	334.24	Rs. Three hundred & thirty four & ps. twenty four only	334.24
27	1 No.	Providing and fixing 32mm ASTM Tank connector	E	114.88	Rs. One hundred & fourteen & ps. eighty eight only	115.00
28	2 Nos.	Providing and fixing 110mm PVC Floor trap	E	196.19	Rs. One hundred & ninety six & ps. nineteen only	392.00
29	2 Nos.	Providing and fixing PTMT grating of approved quality and colour 150mm nominal size square 100mm diameter of the inner hinged round grating (18.58.21)	E	206.86	Rs. Two hundred & six & ps. eighty six only	413.72
30	2 Nos.	Providing and fixing health facet	E	639.88	Rs. Six hundred & thirty nine & ps. eighty eight only	1,280.00
31	3 Nos.	Constructing soakpit 1.20x1.20x1.20m filled with brick bats including SW drain pipe 100mm diameter and 1.20m long complete as per standard design (19.33)	E	2828.24	Rs. Two thousand eight hundred & twenty eight & ps. twenty four only	8,484.72
32	2m <sup>3</sup>	Earth work in excavation by mechanical means (Hydraulic excavator)/ manual means over areas (exceeding 30cm in depth. 1.5 min width as well as 10sqm on plan) including disposal of excavated earth, lead up to 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed. All kinds of soil. (2.6)	m <sup>3</sup>	202.17	Rs. Two hundred & two & ps. seventeen only	404.34
33	0.50m <sup>3</sup>	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering all work upto plinth level. 1:5:10 (1 cement, 5 coarse sand, 10 graded stone aggregate 40mm nominal size)(for soakpit) (4.1.10)	m <sup>3</sup>	5068.46	Rs. Five thousand & sixty eight & ps. forty six only	2,534.23
34	1.50m <sup>3</sup>	Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement, 6 coarse sand, 12 graded stone aggregate 20mm nominal size) upto plinth level with(for soakpit) cement mortar 1:6(1 cement, 6 coarse sand) (7.1.1)	m <sup>3</sup>	4706.49	Rs. Four thousand seven hundred & six & ps. forty nine only	7,059.74

35	1m <sup>3</sup>	Providing, hoisting and fixing upto floor five level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window grills and the like, including the cost of required centering, shuttering but excluding cost of reinforcement, with 1:2:4(1 cement, 2 coarse sand, 4 graded stone aggregate 20mm nominal size.) (5.12)	m <sup>3</sup>	8044.92	Rs. Eight thousand & forty four & ps. ninety two only	8,044.92
36	75kg	Steel reinforcement for R.C.C work including straightening, cutting, bending, placing, in position and binding all complete upto plinth level.(for soakpit). Thermo-Mechanically Treated bars. (5.22.6)	kg	91.77	Rs. Ninety one & ps. seventy seven	6,882.75
		<b>TOTAL</b>				<b>271,843.41</b>

**PART - II Providing toilet and aluminium fabrication work  
Teachers partitioning rooms class rooms, and providing additional facility**

Item No.	quantity	Description	unit	Rate		Amount
1	124m <sup>2</sup>	Dismantling wooden boarsding in lining of walls and partitions, excluding supporting members but including stacking in the department store etc. complete. (15.39)	m <sup>2</sup>	43.82	Rs. Forty three & ps. eighty two	5,433.68
2		Providing and fixing aluminium work for doors, windows, ventilators and partions 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 fastners of required dia and size, including necessary filling up the gaps at junctions ie. at top, bottom and sides with redquired EPDM rubber/neoprene gasket etc. Aluminium section shall be smooth, restfree, straight, mitred and jointed mechanically wherever required including cleat angle , aluminium snap beading for glazing / panelling c.p brass/ stainless steel screws all complete as per architectural drawings and the directions of Engineer- in -charge ( Glazing , panelling and dash fastners to be paid for seperately). (21.1)				
a	650 kg	Powder coated aluminium (minimum thickness of powder coating 50 micron) (21.1.1.2)	kg	514.74	Rs. Five hundred & fourteen & ps. seventy four	334,581.00



b	490kg	For shutters of doors, windows of ventilators including providing and fixing hinges/ pivot and making provision for fixing of fitting wherever required including the cost of EPDM rubber / neoprene gasket required ( fittings shall be paid seperately) Powder coated aluminium (minimum thickness of powder coating 50 micron) (21.1.2.2)	kg	590.09	Rs. Five hundred & ninety & ps. nine	289,144.10
3	180m <sup>2</sup>	Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Gradel Type II, panelling fixed in aluminium doors windows, shutters and partition frames with c.p brass/ stainless steel screws etc complete as per the architectural drawings and directions of engineer- in -charge. Prelaminated particle board with decorative lamination on both sides. (21.2.2)	m <sup>2</sup>	1,471.08	Rs. One thousand four hundred & seventy one & ps. eight only	264,794.40
4	70m <sup>2</sup>	Providing and fixing glazing in aluminium door, window ventilator shutteres and partitions etc with EPDM rubber/ neoprene gasket etc complete as per the architectural drawings and the direction of engineer-in- charge ( cost of aluminium snap beading shall be paid in basic item) with float glass pane of 5.50mm thickness. (21.3)	m <sup>2</sup>	1,392.42	Rs. One thousand three hundred & ninety two & ps. forty two only	97,469.40
5	4m <sup>2</sup>	Providing and fixing 12 mm thick PVC steel, in panelling fixed in aluminium doors, windows shutters and partition frame with c.p brass/ stainless steel screws etc complete as per architectural drawings and directions of engineer-in- charge PVC sheet with decorative lamination on outside and balancing lamination on other side. (21.2)	m <sup>2</sup>	933.49	Rs. Nine hundred & thirty three & ps. forty nine only	3,733.96
6	82 nos	Taking out doors, windows and clerestery window shutters ( steel or wood )including staking with in 50 metres lead., (5.13)	Nos	68.45	Rs. Sixty eight & ps. forty five only	5,612.90
7	5m <sup>3</sup>	Demolishing brick work manuually by mechanical means including stacking of serviceable material and disposal of unserviceable material with 50 metres lead asper the direction of engineer-in-charge. (15.7)	m <sup>3</sup>	939.78	Rs. Nine hundred & thirty nine & ps. seventy eight only	4,698.90

8	4m <sup>3</sup>	Cement concrete blocks work in cement mortar 1:6 with solid cement concrete brick of size 40x20x15cm for super structure including all charges for cost and conveyance, watering curing , labour scaffolding etc complete.	m <sup>3</sup>	5,941.00	Rs. Five thousand nine hundred & forty one only	23,764.00
9		Centering and shuttering including strutting propping etc and removal of form for work				
a	0.5m <sup>2</sup>	Lintels beams plinth beams girders bressumers and cantilevers. (5.9.5)	m <sup>2</sup>	427.52	Rs. Four hundred & twenty seven & ps. fifty two only	213.76
b	8m <sup>2</sup>	Suspended floors, roofs, landings, balconies and access platform. (5.9.3)	m <sup>2</sup>	513.08	Rs. Five hundred & thirteen & ps. eight only	4,104.64
10	75kg	Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete above plinth level (5.22A)	kg	91.77	Rs. Ninety one & ps. seventy seven only	6,882.75
11	1m <sup>3</sup>	Reinforced cement concrete work in beams suspended floors, roofs having slope up to 15 landings balconies, shelves chajjas, lintels, bands, plain window grills staircases and spiral stair cases up to floor five level excluding the cost of centering shuttering finishing and reinforcement with 1:2:4 (1 cement, coarse sand, 4 graded stone aggregate 20mm nominal size). (5.3)	m <sup>3</sup>	8,427.87	Rs. Eight thousand four hundred & twenty seven & ps. eighty seven only	8,427.87
12	50m <sup>2</sup>	Cement plaster 1: 4 (12mm thick one coat including all charges for cost and conveyances, watering, curing etc. complete). (43.4.1	m <sup>2</sup>	212.31	Rs. Two hundred & twelve & ps. thirty one	10,615.50
13	8m <sup>2</sup>	12mm cement plaster finished with a floating coat of neat cement 1:4 over roof. (13.9.1)	m <sup>2</sup>	276.83	Rs. Two hundred & seventy six & ps. eighty three only	2,214.64
14	7m <sup>2</sup>	6mm cement plastering finished with a floating coat of neat cement of mix 1:3 under roof. (3.16.1)	m <sup>2</sup>	166.08	Rs. One hundred & sixty six & ps. eight only	1,162.56
15	1m <sup>3</sup>	Providing and laying brick jelly concrete in 1:5:10 (1 cement 5 coarse sand 10 graded stone aggregate 40mm nominal size). (4.2.8)	m <sup>3</sup>	5,557.37	Rs. Five thousand five hundred & fifty seven & ps. thirty seven only	5,557.37

16	1m <sup>3</sup>	Providing and laying cement concrete in retaining walls, return walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses string or lacing courses, parapets, coping, bedblocks anchor blocks, plain window grills, fillets, sunken floor etc. up to floor live level excluding the cost of centering, shuttering and finishing. (4.2.8)	m <sup>3</sup>	6,303.70	Rs. Six thousand three hundred & three & ps. seventy only	6,303.70
17	6m <sup>2</sup>	Providing and laying ceramic glazed floor tile of size 300x300mm (thickness to be specified by the manufacturer) of 1 <sup>st</sup> quality conforming to IS:15622, of approved make, in all colours, shades, except white, ivory, grey, fume red, brown, laid on 20mm thick bed of cement mortar 1:4 (1 cement, 4 course sand including pointing the joints with white cement and matching pigment etc. complete. (11.38)	m <sup>2</sup>	1,150.99	Rs. One thousand one hundred & fifty & ps. ninety nine only	6,905.94
18	20m <sup>2</sup>	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 12mm 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. (11.36)	m <sup>2</sup>	1,095.17	Rs. One thousand & ninety five & ps. seventeen only	21,903.40
19	16m <sup>2</sup>	Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade. New work (two or more coats) over and including water thinnable priming coat with cement primer. (13.41.1)	m <sup>2</sup>	109.92	Rs. One hundred & ninety & ps. ninety two	1,758.72
20	26m <sup>2</sup>	Finishing the walls with textured exterior paint of required shade. New work (two or more coats applied @ 3.28 H/r/10 sqr) over and including priming coat of exterior primer applied @ 2.20 kg /10sqm. (13.45.1)	m <sup>2</sup>	175.40	Rs. One hundred & sixty six & ps. forty only	4,560.40

21	2 Nos.	Providing and fixing white vitrious china pedestal type water closet (European type w.c pan) with ceat and lid, 10 ltr. low level white PVC 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. WC pan with ISI marked white solid plastic seat and lid. (17.2.1)	E	4,401.86	Rs. Four thousand four hundred & one & ps. eighty six only	8,803.72
22		Providing and fixing poly vinyl chloride (PVC) pipes, having water supply including all PVC fittings including fixing the pipe with clamps with 1.00m spacing. This includes jointing of pipes and fittings with one step PVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer-in-charge. Concealed work including cutting chases making good the walls etc. (18.8)				
a	10m	25mm nominal outer (18.8.3) (12kgf/cm <sup>2</sup> )	m	254.47	Rs. Two hundred & fifty four & ps. forty seven only	2,544.70
b	15m	32mm nominal outer (18.8.4) (12kgf/cm <sup>2</sup> )	m	282.92	Rs. Two hundred & eighty two & ps. ninety two only	4,243.80
23		Providing and fixing poly vinyl chloride (PVC) pipes having water supply including PVC fittings this includes jointing of pipe and fittings with one step PVC solvent cement, trenching, refilling and testing of joints complete as per direction of Engineer-in -charge.				
a	20m	110mm nominal outer dia 20mtr (18.9) (4kgf/cm <sup>2</sup> )	m	402.34	Rs. Four hundred & two & ps. thirty four	8,046.80
b	20m	63mm nominal outer (6kgf/cm <sup>2</sup> )	m	218.72	Rs. Two hundred & eightyteen & ps. seventy two only	4,374.40
c	5m <sup>3</sup>	32mm nominal outer (10kgf/cm <sup>2</sup> )	m	126.90	Rs. One hundred & twenty six & ps. ninety	634.50
d	10m	25mm nominal outer (10kgf/cm <sup>2</sup> )	m	110.99	Rs. One hundred & ten & ps. ninety nine only	1,109.90

24	1nos	Constructing brick masonry road jelly chamber 50x45x60cm with bricks in cement mortar 1:4 ( 1 cement, 4 course sand) including 500x450mm pre cost R.C.C Horizontal grating with frame complete as per standard design with common burnt clay F.P.S (non modular) bricks of class designation.7.5. (19.27)	Nos	5,209.43	Rs. Five thousand two hundred & nine & ps. forty three only	5,209.43
25	2 Nos.	Providing and fixing C.P brass long body bib cock of approved quality conforming to IS standards and weighting not less than 690 gms. (15mm nominal bore) (18.510)	Nos	840.97	Rs. Eight hundred & forty & ps. ninety seven only	1,681.94
26	4 Nos	Providing and fixing C.P brass angle valve for barin mixer and geyser points of approved quality conforming to IS: 8931 a ) 15 mm nominal bore. (18.53)	Nos	699.25	Rs. Six hundred & ninety nine & ps. twenty five only	2,797.00
27	1Nos	Providing and fixing gun metal gate valve with C.I. weel of approved quality (screwed end) 32 mm nominal size. ( 18.17)	Nos	690.48	Rs. Six hundred & ninety & ps. forty eight only	690.48
28	2Nos	Providing and fixing 110mm PVC floor trap	E	196.19	Rs. One hundred & ninety six & ps. nineteen only	392.00
29	2Nos	Providing and fixing PTMT grating of approved quality and colour. 150mm diameter of the inner hinged round grating. (18.58.21)	Nos	206.86	Rs. Two hundred & six & ps. eighty six only	413.72
30	2Nos	Providing and fixing Health facet	E	639.88	Rs. Six hundred & thirty nine & ps. eighty eight only	1,280.00
		<b>Total</b>				<b>1,152,065.98</b>
<b>PART-III PREVENTING LEAKAGE IN ROOF, RECTIFICATION ON FLOORS IN CELLAR</b>						
1	370m <sup>2</sup>	Dismantling tile work in floors and roofs laid in cement mortar including stacking materials within 50 metres lead (15.23.1)	m <sup>2</sup>	35.26	Rs. Rs. Thirty five & ps. twenty six only	13,046.20
2	70m <sup>3</sup>	Demolishing lime concretmanually/mechanical means and disposal of material within 50 metres lead as per direction of Engineer-in-charge. (15.1)	m <sup>3</sup>	388.40	Rs. Three hundred & eight eight & ps. forty only	27,188.07
3	770m <sup>2</sup>	Dismantling old cement plaster or skirting racking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead. (15.56)	m <sup>2</sup>	25.32	Rs. Twenty five & ps. thirty two only	19,496.00

4	20m <sup>3</sup>	Providing and laying cement concrete in retaining walls, return walls, wall (any thickness) including attached pilasters columns, press abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping bed blocks, anchor blocks, plain window gills, fillets, sunken floor, etc. up to floor five level, excluding the cost of centering, shuttering and finishing. (42.3)	m <sup>3</sup>	8034.57	Rs. Eight thousand & thirty four & ps. fifty seven only	160,691.00
5	770m <sup>2</sup>	12mm current plaster finished with a floating coat of neat cement (13.72)	m <sup>2</sup>	249.23	Rs. Two hundred & forty nine & ps. twenty three only	191,907.00
6	770m <sup>2</sup>	Neat cement punny (13.18)	m <sup>2</sup>	50.16	Rs. Fifty & ps. sixteen only	38,623.00
		<b>TOTAL</b>				<b>450,951.27</b>
		<b>GRAND TOTAL OF PART I, II &amp; III</b>				<b>1,874,860.66</b>
<b>PAC Rs.18,74,861/- (Rupees Eighteen lakhs seventy four thousand eight hundred &amp; sixty one only)</b>						
		I/We agreed to execute the work.				
		1. ....% below the estimate rate.				
		2. ....% above the estimate				
		3. At the estimate rate.				

UNIVERSITY ENGINEER

CONTRACTOR