UNIVERSITY OF KERALA ENGINEERING UNIT, KARIAVATTOM

TENDER SCHEDULE FOR WATER SUPPLY & SANITARY WORKS IN THE PURSE GRANT BUILDING AT KARIAVATTOM

SI No	Qty	Unit	Description of Item	unit	Rate	Rate in words	Amount
			PART I-TOILET FITTINGS & PLUMBING	ITEMS			
1	200	m	Supplying and fixing Poly vinyl Chloride (PVC)				
			pipes, including all PVC plain & brass threaded				
			fittingsincluding 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 nominal outer dia			Rs. One hundred & sixty eight & ps.	
			Pipes (12 kgf/cm2)	М	168.47	Forty seven only	33,694.00
2	100	m	Supplying and fixing Poly vinyl Chloride (PVC)				
			pipes, including all PVC plain & brass threaded				
			fittingsincluding trenching to a minimum depth				
			of 0.50 m refilling etc 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 nominal			Rs. One hundred & forty one & ps.	
			outer dia Pipes (12 kgf/cm2)	М	141.11	eleven only	14,111.00
3	100	m	Supplying and fixing Poly vinyl Chloride (PVC)				
			pipes, including all PVC plain & brass threaded				
			fittingsincluding 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. 32 mm nominal outer dia			Rs. One hundred & eighty eight & ps.	
			Pipes (12 kgf/cm2)	m	188.70	seventy only	18,870.00

4	250	m	Supplying and fixing Poly vinyl Chloride (PVC) pipes, including all PVC plain & brass threaded fittings including trenching to a minimum depth of 0.50 m refilling etc This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer in Charge. 32 mm nominal			Rs. One hundred & forty nine & ps.	
			outer dia Pipes (12 kgf/cm2)	m	149.07	seven only	37,267.50
5	50	m	Supplying and fixing Poly vinyl Chloride (PVC) pipes, including all PVC plain & brass threaded fittings including trenching to a minimum depth of 0.50 m refilling etc This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer in Charge. 40 mm nominal outer dia Pipes (12 kgf/cm2)	m	163.38	Rs. One hundred & sixty three & ps. thirty eight only	8,169.00
6	1	No	Making connection with 90 mm PVC distribution line and 32 mm PVC line. This includes trenching and opening the 90 mm Main line without breakage, boring the pipe, providing 90X32 mm PVC saddle piece, 32 mm brass ferule, adapter etc and refilling trenches etc. as per the direction of the departmental authorities	E	530.04	Rs. Five hundred & thirty & ps. four only	530.04
7	4	Nos	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) : 25 mm nominal dia bore	each	590.36	Rs. Five hundred & ninety & ps. thirty six only	2,361.46
8	2	Nos.	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) : 32 mm nominal dia bore	E	690.48	Rs. Six hundred & ninety & ps. forty eight only	1,380.96

9	150	m	Providing and fixing 110 mm Poly vinyl Chloride	М	346.84		52,026.00
			(PVC) pipes (6 Kgf/cm2). This includes jointing				
			of pipes & fittings with one step PVC solvent				
			cement,trenching to a minimum depth of 0.80				
			m, refilling & testing of joints complete as per			Rs. Three hundred &forty six & ps.	
			direction of Engineer in Charge.			Eighty four only	
10	200	m	Providing and fixing 110 mm Poly vinyl Chloride	М	337.63		67,526.00
			(PVC) pipes (4 Kgf/cm2). This includes jointing				
			of pipes & fittings with one step PVC solvent				
			cement, fixing to wall with clamps at 0.60 m				
			interval & testing of joints complete as per			Rs.Three hundred & thirty seven & ps.	
			direction of Engineer in Charge.			Sixty three only	
11	24	nos	Supplying 110 mm PVC plain elbow	Е	282.24	Rs.Two hundred & eighty two & ps.	6,773.76
						twenty four	
12	6	nos	Supplying 110 mm PVC tee	Е	328.70	Rs. Three hundred & twenty eighty &	1,972.20
						ps. seventy only	
13	10	nos	Supplying 110 mm PVC plain bend	E	450.60	Rs. Four hundred & fifty & ps. sixty	4,506.00
						only	
14	8	nos	Supplying 110 mm PVCdoor tee	Е	381.29	Rs. Three hundred & eighty one & ps.	3,050.32
						twenty nine only	
15	16	nos	Supplying 110 mm PVC doorelbow	Е	316.48	Rs. Three hundred & sixteen & ps.	5,063.68
						forty eight only	
16	4	Nos	Supplying 110 mm PVC vent cowl	Е	145.27	Rs. One hundred & forty five & ps.	581.08
						twenty seven only	
17	5	Nos	Supplying 110 mm PVC "Y"	E	328.71	Rs. Three hundred & twenty eighty &	1,643.55
						ps. seventy one only	

18	100	m	Supplying and fixing Poly vinyl Chloride (PVC)				
			pipes, 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.63 mm nominal outer dia			Rs. One hundred & eighty seven & ps.	
			Pipes (6 kgf/cm2)	М	187.47	Forty seven only	18,747.00
19	100	m	Providing and fixing 63 mm Poly vinyl Chloride	М			
			(PVC) pipes (6 Kgf/cm2). This includes jointing				
			of pipes & fittings with one step PVC solvent				
			cement, trenching to a minimum depth of 0.80				
			m, refilling & testing of joints complete as per			Rs. One hundred &seventy three & ps.	
			direction of Engineer in Charge.		173.67	Sixty seven only	17,367.00
20	20	nos	Supplying and fixing 63 mm PVC elbow	E	105.40	Rs. One hundred & five & ps. forty	2,108.00
						only	
21	12	nos	Supplying and fixing 63 mm PVC door elbow	E	144.53	Rs. One hundred & forty four & ps.	1,734.36
						fifty three only	
22	8	nos	Supplying and fixing 63 mm PVC tee	Е	120.07	Rs. One hundred & twenty & ps. seven	960.56
						only	
23	8	nos	Supplying and fixing 63 mm PVC door tee	Е	159.20	Rs. One hundred & fifty nine & ps.	1,273.60
						twenty only	
24	6	Nos	Supplying and fixing 110X63 mm 3way PVC	E	196.20	Rs. One hundred & ninety six & ps.	1,177.20
			floor trap			Twenty only	

25	8	nos	Providing and fixing white Vitreous china Orissa pattern W.C. pan of size 580x440mm with integral type foot rests(water closet squatting pan -Indian type W.C.pan)with 100mm sand cast iron P or S trap 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	E	4,506.05	Rs. Four thousand five hundred & six & ps. five only	36,048.36
26	8	nos	required. Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid,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 required :W.C. pan with ISI marked white solid plastic seat and lid.			Rs. Four thousand four hundred & one & ps. eighty six only	35,214.88
27	12	nos	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 Flat back wash basin size 550x 400 mm with single 15 mm C.P. brass pillar tap	Е	2,720.46	Rs. Two thousand seven hundred & twenty & ps. forty six only	32,645.52
28	2	nos	Providing and fixing C.P. brass bib cock of				
			approved quality conformingto IS:8931 : 15 mm nominal bore.	E		Rs. Six hundred & thirty five & ps. fifty nine only	1,271.18

29	12	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.			Rs. Eight hundred & forty & ps. ninety	
			15 mm nominal bore	E	840.97	seven only	10,091.64
30	1	No	Supplying 15 mm water meter with ISI mark			Rs. One thousand & eight hundred	
			approved make with test certificate	E	1,800.00	only	1,800.00
31	1	No	Fixing water meter and stop cock in G.I. pipe				
			line including cutting and threading the pipe				
			and making long screws etc. complete (cost of				
			water meter and stop cock to be paid			Rs. Three hundred & ninety five & ps.	
			separately).	Е	395.50	fifty only	395.50
32	2000	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.	litre	8.69	Rs. Eight & ps. sixty nine only	17,388.00
33	2	Nos	Supplying and fixing 15 mm brass ball valve with				
						Rs. Three hundred & ninety five & ps.	
			polythene float of approved make and quality	Е	395.44	forty four only	790.88
34	2	Nos	Supplying and fixing 32 mm CPVC tank			Rs. Three hundred & forty six & ps.	
			connector suitable for PVC water tanks	Е	346.88	eighty eight only	693.76
			TOTAL				4,39,233.99
		PA	RT II MANHOLE CONSTRUCTION				
1	4	m ³	Earth work in excavation by mechanical means	m ³	202.17		808.68
			(Hydraulic excavator)/manual means over areas				
			(exceeding 30cm in depth. 1.5 m in width as				
			well as 10 sqm on plan) including disposal of				
			excavated earth, lead upto 50m and lift upto				
			1.5m, disposed earth to be levelled and			Rs. Two hundred & two & ps.	
			neatlydressed. All kinds of soil			seventeen only	

2	0.75	m ³	Providing and laying in position cement	m ³	5,410.49		4,057.87
			concrete of specified grade excluding the cost		,		
			of centering and shuttering. All work up to				
			plinth level 1:4:8 (1 Cement : 4 coarse sand : 8			Rs. Five thousand four hundred & ten	
			graded stone aggregate 40 mm nominal size)			& ps. forty nine only	
3	4	m³	Providing and fixing up to floor five level				
			precast cement concrete solid block, including				
			hoisting and setting in position with cement				
			mortar 1:3 1:3:6 (1 cement : 3 coarse sand : 6				
			graded stone aggregate			Rs. Ten thousand eight hundred &	
			20 mm nominal size)	m³	10,892.89	ninety two & ps. eighty nine only	43,571.56
4	1	m ³	Providing and laying in position cement	m ³			
			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			Rs. Six thousand seven hundred &	
			graded stone aggregate 20 mm nominal size)		6,791.95	ninety one & ps. ninety five only	6,791.95
5	50	kg	Steel reinforcement for R.C.C. work including	kg			
			straightening, cutting, bending, placing in				
			position and binding all complete upto plinth				
			level. Mild steel and Medium Tensile steel bars		88.39	Rs. Eighty eight & ps. thirty nine only	4,419.50
6	5	m²	Centering and shuttering including	m²			
			strutting, propping etc. and removal of form for				
			:Suspended floors, roofs, landings, balconies			Rs. Two hundred & fifty seven & ps.	
			and access platform		257.23	twenty three only	1,286.15
7	3	m ³	Brick work with common burnt clay F.P.S. (non	m ³			
			modular) bricks of class designation 7.5 in				
			modulary bricks of class designation 7.5 in			Rs. Six thousand four hundred &	
			foundation and plinth ,cement mortar using 1:6.		6,412.17	twelve & ps. seventeen only	19,236.51
8	15	m²	Plastering with cement mortar 1:4, 12 mm thick	m ²			
			one coat using fine sand		200.65	Rs. Six hundred & ps. sixty five	3,009.75
9	5	m²	Cement plaster 1:3 (1 cement: 3 coarse sand)				
			finished with a floating coat of neat cement.	2		Rs. Two hundred & seventy six & ps.	
			12 mm cement plaster	m²	276.83	eighty three only	1,384.15

			TOTAL				84,566.12
		PART	III -CONSTRUCTION OF SEPTIC TANK - 3.60x	2.20x1.40	m		
1	30	m ³	Earth work in excavation by mechanical means				
			(Hydraulic excavator)/manual means over areas				
			(exceeding 30cm in depth. 1.5 m in width as				
			well as 10 sqm on plan) including disposal of				
			excavated earth, lead upto 50m and lift upto				
			1.5m, disposed earth to be levelled and	2		Rs. Two hundred & two & ps.	
			neatlydressed. All kinds of soil	m ³	202.17	seventeen only	6,065.10
2	1	m ³	Providing and laying in position cement				
			concrete of specified grade excluding the cost				
			of centering and shuttering - All work up to				
			plinth level 1:4:8 (1 Cement : 4 coarse sand : 8	2		Rs. Five thousand four hundred & ten	
			graded stone aggregate 40mm nominal size)	m³	5,410.49	& ps. forty nine only	5,410.49
3	0.6	M ³	Brick work with common burnt clay F.P.S. (non				
			modular) bricks of class designation 7.5 in				
			foundation and plinth in all shapes and sizes in	3		Rs. Six thousand four hundred &	
			cement mortar 1:6.	M ³	6,412.17	twelve & ps. seventeen only	3,847.30
4	4	m ³	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	3		Rs. Six thousand seven hundred &	
			graded stone aggregate 20 mm nominal size)	m ³	6,791.95	ninety one & ps. ninety five only	27,167.80
5	50	m²	Centering and shuttering including				
			strutting, propping etc. for walls (any thickness)				
			including attached pillaster butteresses, plinth			Rs. Four hundred & sixty one & ps.	
			and string courses etc.	sqm	461.61	sixty one only	23,080.50
6	330	kg	Steel reinforcement for R.C.C. work including,				
			straightening, cutting, bending, placing in				
			position and binding all complete upto plinth				
			level. Mild steel and Medium Tensile steel bars	kg	88.39	Rs. Eighty eight & ps. thirty nine only	29,168.70

7	45	m ²	Cement plaster 1:3 (1 cement: 3 coarse sand)				
			finished with a floating coat of neat 12 mm			Rs. Two hundred & seventy six & ps.	
			cement plaster cement.	m ²	276.83	eighty three only	12,457.35
			TOTAL				1,07,197.24
	-	-	PART IV -CONSTRUCTION OF SOAK PIT-1.2	0x1.20x1.	.20 m		-
1	1	each	Constructing soak pit 1.20x1.20x1.20 m filled	each			
			with brickbats including earth work,complete as			Rs. Two thousand eight hundred &	
			per standard design.		2,828.24	twenty eight & ps. twenty four only	2,828.24
2	0.3	m ³	Providing and laying in position cement	m³			
			concrete of specified grade excluding the cost				
			of centering and shuttering - All work up to				
			plinth level 1:4:8 (1 Cement : 4 coarse sand : 8			Rs. Five thousand four hundred & ten	
			graded stone aggregate 40 mm nominal size)		5,410.50	& ps. fifty only	1,623.15
3	2.2	m ³	Brick work with common burnt clay F.P.S. (non	m ³			
			modular) bricks of class designation 7.5 in			Rs.Six thousand four hundred & twelve	
			foundation and plinth ,cement mortar using 1:6		6,412.17	& ps. seventeen only	14,106.77
4	0.5	m ³	Providing and laying in position cement	m³	6,791.95		3,395.98
			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 20 mm nominal size)			Rs. Six thousand seven hundred &	
			over the ramp work			ninety one & ps. ninety five only	
5	20	sqm	Centering and shuttering including	sqm	513.08		10,261.68
			strutting, propping etc. and removal of form for				
			:Suspended floors, roofs, landings, balconies			Rs. Five hundred & thirteen & ps. eight	
			and access platform			only	

	-	-	GRAND TOTAL				6,67,621.36
			Total				36,624.02
			Mild steel and Medium Tensile steel bars			Rs. Eighty eight & ps. thirty nine only	
			complete upto plinth level.				
			bending, placing in position and binding all				
			straightening, cutting,				
6	40	kg	Steel reinforcement for R.C.C. work including	kg	88.39		3,535.60
			complete as per direction of Engineer in Charge.			only	
			cement,trenching ,refilling & testing of joints			Rs. Four hundred & thirty six ps. thirty	
			pipes & fittings with one step PVC solvent				
			brass threaded fittings This includes jointing of				
			(PVC) pipes, having including all CPVC plain &				
5	2	m	Providing and fixing 110 mm Poly vinyl Chloride	М	436.30		872.60

PAC Rs.6,67,621/- (Rs. Six lakhs sixty seven thousland six hundred & twenty 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