

**UNIVERSITY OF KERALA
ENGINEERING UNIT, KARIAVATTOM**

**TENDER SCHEDULE FOR THE CONSTRUCTION OF NEW BLOCK TO THE DEPARTMENT OF
ENVIRONMENTAL SCIENCE AT KARIVATTOM.**

Date of Tender: 29.10.2013

Time of completion: 10 Months

No	Quantity	Description	Unit	Rate	Rate in words	Amount
1.	1100m ²	Clearing grass and over growth vegetations of small trees unto girth 30cm including rooting out and removal of rubbish 150cm outside the periphery of the area cleared etc. complete as per the depl. Direction	100m ²	217.00	Rs. Two hundred and Seventeen	2,387.00
2.	165m ³	Earth work excavation in all classes of soil other than hard rock and depositing the soil on the bank with initial lead upto 50m and lift up to 1.50m including neat banking breaking clods, watering, ramming etc. complete	10m ³	2710.00	Rs. Two thousand seven hundred and ten	44,715.00
3.	35m ³	-Do- -do- with additional lift of 1.50m over initial lift	10m ³	2883.00	Rs. Two thousand eight hundred and eighty three	10,091.00
4.	20m ³	Plane cement concrete 1:4:8 using 40mm broken stone for foundation.(using manufactured sand)	m ³	5088.00	Rs. Five thousand and Eighty eight	1,01,760.00
5.		Reinforced cement concrete 1:1½:3 using 20mm broken stone including required form work, watering curing etc. complete but excluding cost of reinforcement .(using manufactured sand)				
a)	32500dm ³	For column footing	10dm ³	111.00	Rs. One hundred and Eleven	3,60,750.00
b)	50000dm ³	For beam lintel, sunshade, slope sunshade, stair slab etc. in Ground floor	10dm ³	148.64	Rs. One hundred and Forty eight & Ps. Sixty four	7,43,200.00
c)	15000dm ³	For column in Ground Floor	10dm ³	157.95	Rs. One hundred and fifty seven & Ps. Ninety five	2,36,925.00

d)	50000dm ³	For roof slab in Ground floor	10dm ³	142.46	Rs. One hundred and forty two & Ps. Forty six	7,12,300.00
6.	5000dm ³	Reinforced cement concrete 1:2:4 using 20mm broken stone for work benches in Laboratory including all form work etc. complete	10dm ³	135.12	Rs. One hundred and Thirty five & Ps. Twelve	67,560.00
7.	175Qtl	Reinforcement for RCC work bend tied and placed in position (Tor steel)	Qtl	7290.00	Rs. Seven thousand two hundred and Ninety	12,75,750.00
8.	35m ³	Random rubble masonry in cement mortar 1:6 for foundation and basement including watering curing etc. complete	m ³	3582.00	Rs. Three thousand Five hundred and Eighty two	1,25,370.00
9.	130m ³	Cement concrete blocks work in cement mortar 1:6 using solid cement concrete bricks of size 40x20x20cm for superstructure in ground floor.	m ³	4683.00	Rs. Four thousand six hundred and Eighty three	6,08,790.00
10.	300dm ³	Pincoda wood planed and framed work for frames of doors	10dm ³	1123.86	Rs. One thousand one hundred and twenty three & Ps .Eighty six	33,716.00
11.	1400 dm ²	Supplying and fixing Pincoda wood fully paneled door shutters in one/ two leaves to suit the door frames already fixed with al round outer frame 100x35mm and 5Nos. intermediate horizontals of the same size and 16mm thick panels including fixing all fittings but excluding cost of fittings	10dm ²	524.83	Rs. Five hundred twenty four & Ps. Eighty three only	73,476.00
12.	0.25Qtl	Supplying and fixing 32x6mm flat iron hold fast 40cm length bent to suitable shape fixing to door frames with necessary screws, embedded with cement concrete etc. complete	Qtl	8359.00	Rs. Eight thousand three hundred & Fifty nine	2,090.00
13.		Supplying the following accessories for fixing in the doors				
a)	50Nos	100mm iron butt hinges with screws	10Nos	122.40	Rs. One hundred and twenty two & Ps. Forty	612.00
b)	6Nos	200mm iron barrel tower bolt with screws	10Nos	186.00	Rs. One hundred and eighty six	112.00
c)	10Nos	250mm iron barrel tower bolt	10 Nos	229.00	Rs. Two hundred and twenty nine	229.00

d)	6Nos	200mm or nearest available size best quality aluminum aldorp with 16m dia rods, with screws, but, bolt etc.	10Nos	1573.00	Rs. One thousand five hundred and seventy three	9,44.00
e)	6Nos	65mm 6 lever pad lock	E	265.00	Rs. Two hundred and sixty five	1,590.00
14.	750 dm ²	Supplying and fixing in position collapsible steel shutters using MS section of standard size and thickness as specified by the deptl. Authorities and paintng with one coat of zinc rich primer etc. complete	10dm ²	315.00	Rs. Three hundred and fifteen	23,625.00
15.	50m ²	Supplying and fixing in position fully glazed steel windows made with rolled steel sections coat of zinc rich primer	m ²	3898.00	Rs. Three thousand Eight hundred and Ninety eight	1,94,900.00
16.	10m	Fabricating and fixing stainless steel hand rails using stainless steel tubes 32mm dia standard thickness and approved make top rail welded with 2nos. 15mm dia verticals spaced in each step 2nos. intermediate horizontal runners with 15mm dia tubes, welded firmly grinding, buffing, polishing etc. complete	RM	4454.00	Rs. Four thousand four hundred and fifty four	44,540.00
17.	7m ²	Supplying and fixing in position PVC door of suitable size made with PVC modular sections for frames and shutters, approved make	m ²	2875.00	Rs. Two thousand eight hundred and seventy five	20,125.00
18.	1000m ²	Plastering with cement mortar 1:4 12mm thick one coat including curing. (using river sand)	10m ²	2191.00	Rs. Two thousand one hundred and ninety one	2,19,100.00
19.	500m ²	Plastering with cement mortar 1:3, 9mm thick one coat under side of RCC slab, sunshade etc. including curing.(using river sand)	10m ²	1872.00	Rs. One thousand eight hundred and seventy two	93,600.00
20.	500m ²	Plastering with cement mortar 1:3, 12mm thick two coat to the roof top by providing necessary slope to drain the rain water etc. complete. Including adding with water proof paint compound @ 200ml/50kg of cement.	10m ²	2744.00	Rs. Two thousand seven hundred and forty four	1,37,200.00

21.	25m	Supplying and fixing 110mm dia PVC pipe (4kg/cm ²) for down water pipes fixed with clamps etc. complete	M	224.00	Rs. Two hundred and twenty four	5,600.00
22.	12Nos	Supplying and fixing 110mm & PVC door elbow	E	193.00	Rs. One hundred and ninety three	2,316.00
23.	27m ³	Flooring with cement concrete 1:4:8 75mm thick using 40mm broken stone after leveling and consolidating the floor etc. complete	M ³	5088.00	Rs. Five thousand and eighty eight	1,37,376.00
23(a)	350m ²	Floor finishing with cement plastering 1:3 12 mm thick with a neat flushing coat.	10m ²	2553.00	Rs. Two thousand five hundred and fifty three	89355.00
24.	4Nos	Supplying and fixing glazed earthen ware Indian water closet Orissa pattern, light colour (approved make) embedded in cement concrete with PVC high level flush tank 1No. 15mm angle valve 32x6mm PVC connection etc. complete	E	4156.00	Rs. Four thousand one hundred and fifty six	16,624.00
25.	4Nos	Supplying and fixing white glazed earthenware wash hand basin 550x400mm or nearest size with 1No.CP pillar tap, angle valve, PVC connection 32mm CP waste with PVC waste connection fixing the basin with necessary bolt embedded in cement concrete etc. complete	E	2984.00	Rs. Two thousand nine hundred and eighty four	11,936.00
26.	2000Lr.	Supplying and fixing PVC storage water tank (over the roof) approved make and quality	Lr	6.78	Rs. Six & Ps. Seventy eight	13,560.00
27.	2Nos	Supplying and fixing 32mm & PVC tank connector	E	81.00	Rs. Eighty one	162.00
28.	30m	Supplying, clamping and jointing 25mm PVC pipe (10kgf/cm ²) with specials cutting and making good the wall etc. complete	M	95.00	Rs. Ninety five	2,850.00
29.	30m	Supplying laying and jointing 32mm PVC pipe with specials (10kgf/cm ²) trenching to a minimum depth of 0.50m, refilling etc. complete	M	108.00	Rs. One hundred and Eight	3,240.00
30.	2Nos	Supplying and fixing 32mm GM full way wheel	E	1001.00	Rs. One thousand and one	2002.00

		valve				
31.	1No	Making connection with GI 40mm/32mm PVC distribution branch by tracing line, trenching, cutting and jointing with required fittings etc. complete	E	423.00	Rs. Four hundred and twenty three	423.00
32.	25m	Supplying clamping and jointing 25mm PVC pipe wit specials (10kgf/cm ²) cutting and making good the wall etc. complete	M	98.00	Rs. Ninety eight	2,450.00
33.	12Nos.	Supplying and fixing 20x15mm GI reducer socket	E	26.00	Rs. Twenty six	312.00
34.	4Nos.	Supplying and fixing CP short body tap (good quality) approved make.	E	544.00	Rs. Five hundred and forty four	2,176.00
35.	1No	Supplying and fixing 25mm GM full way wheel valve	E	581.00	Rs. Five hundred and eighty one	581.00
36.	1No	Supplying and fixing 20mm GM ball valve with polythene float for 15mm connection including all charges	E	328.00	Rs. Three hundred and twenty eight	328.00
37.	50m	Supplying, laying and jointing 110mm PVC pipe (4kgf/cm ²) trenching to a minimum depth of 1m etc. complete	M	273.00	Rs. Two hundred and seventy three	13,650.00
38.	4Nos	Supplying and fixing 110mm PVC tee	E	213.00	Rs. Two hundred and thirteen	852.00
39.	1No	Constructing septic tank	LS	50000.00	Rs. Fifty thousand	50,000.00
40.	20m	Supplying laying and jointing 63mm PVC pipe (4kgf/cm ²) including trenching to a minimum depth of 0.50m etc. complete	M	132.00	Rs. One hundred and thirty two	2,640.00
41.	10m	Supplying, clamping and jointing 63mm PVC pipe (4kgf/cm ²) including cutting and making good the wall etc. complete	M	126.00	Rs. One hundred and twenty six	1260.00
42.	6Nos	Supplying and fixing 63mm PVC elbow	E	62.00	Rs. Sixty two	372.00
43.	4Nos	-do- 63mm PVC door elbow	E	92.00	Rs. Ninety two	368.00
44.	4Nos	-do- 63mm PVC tee	E	74.00	Rs. Seventy four	296.00
45.	500m ²	White washing two coat to the under side of RCC slab	10m ²	110.00	Rs. One hundred and ten	5,500.00
46.	400m ²	Painting the exterior walls with 2 coat of antifungal	10m ²	1402.00	Rs. One thousand four hundred	56,080.00

		paint after cleaning the surface including priming coat.			and two	
47.	600m ²	Painting with ready mixed plastic emulsion paint two coats to the interior walls including priming coat	10m ²	838.00	Rs. Eight hundred and thirty eight	50,280.00
48.	35m ²	Painting with synthetic enamel paint two coats over a priming coat to the new wood work after cleaning the surface	10m ²	1078.00	One thousand and seventy eight	3,773.00
49.	75m ²	Painting the steel windows with two coat of synthetic enamel paint	10m ²	635.00	Rs. Six hundred and thirty five	4,763.00
50.	20m ²	Flooring with ceramic floor tiles (for bathroom floors) over a cement mortar 1:3, 12mm thick and filling the joints with suitable joint fillers	m ²	870.00	Rs. Eight hundred and seventy	17,400.00
51.	35m ²	Dadoing walls with glazed ceramic tiles over a plastering of cement mortar 1:3, 12mm thick painting with coloured cement etc. complete	m ²	1441.00	Rs. One thousand four hundred and forty one	50,435.00
52.	1250 dm ³	Reinforced cement concrete 1:1/2:3 using 20 mm broken stone for coloum including required form work including watering curing etc complete in first floor.	10 dm ³	164.48	Rs. One hundred and sixty four & Ps. Forty eight	20,560.00
53.	12 m ³	Cement solid block work in cement motor 1:6 using 40x20x20cm for super structure in first floor.	M ³	4801.00	Rs. Four thousand eight hundred and one	57,612.00
54.	50 m	Supplying and fixing 50 mm B class GI pipe with washers for top rafters fitting to the existing column and welding the same to the reinforcement as directed by dept: authority including all charges and cost of materials and painting two coat S E paint over a coat of iron primer	M	346.00	Rs. Three hundred and forty six	17,300.00
54.a)	50m	Supplying fabricating and fixing 32mm GI pipe purling –do- -do-	M	206.00	Rs. Two hundred and six	10,300.00
55.	30M ²	Roofing with pre painted galvanized steel raffered 32 mm GI pipe purline roofing sheet 0.80mm or nearest thick with over lap of 150mm ends with	10m ²	4651.00	Rs. Four thousand six hundred and fifty one	13,953.00

		self threaded nut and necessary washers using drilling machine etc complete.				
56.	20m ²	Supplying and fixing false ceiling using with aluminium powder coated L angle of size 25.4x25.4x1.10mm(1767) all-round frame and 25x25x1.27mm (3135) T section for intermediate frame on both direction at 60mm C/C hanging with GI wire L angle in correct line and level providing 610x610x4mm E board classic tile to the frame including all cost of materials labour charges etc and hire with scaffolding etc complete	M ²	999.00	Rs. Nine hundred and ninety nine	19,980.00
57.	3000 dm ³	Cement concrete 1:4:8 using 20mm broken stone for dummy coloum in first floor including all form work watering curing etc complete.	10dm ³	125.66	Rs. One hundred and twenty five & Ps. Sixty six	37,698.00
			Total			58,61,820.00

PAC Rs. 58,61,820/- (Rupees Fifty eight lakhs sixty one thousand and eight hundred and twenty only)

I We agreed to execute the work. 1.percentage above the estimate rate.
2.percentage below the estimate rate. 3. At the estimate rate.

UNIVERSITY ENGINEER

CONTRACTOR