

**UNIVERSITY OF KERALA
ENGINEERING UNIT, KARIAVATTOM**

Tender schedule for alteration works to the SEM Lab allotted for XRF in SICC building under Department of Geology at Kariavattom Campus.

Sl.No.	Quantity	Specification	Unit	Rate	Rate in words	Amount
1	10.00	Dismantling aluminium / Gypsum partitions, doors, windows, fixed glazing and false ceiling including disposal of unserviceable surplus material and stacking of serviceable material with in 50 metres lead as directed by Engineer - in-Charge	m2	33.52	Rupees thirty three and fifty two paise only	335.20
2	65.00	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	530.34	Rupees five hundred thirty and thirty four paise only	34,472.10
3	30.00	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 paise only	18,411.60

4	13.00	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	1195.30	Rupees one thousand one hundred ninety five and thirty paise only	15,538.90
5	7.00	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 5.50 mm thickness	m2	1384.75	Rupees one thousand three hundred eighty four and seventy five paise only	9,693.25

6	1.00	labour engaged for aluminium door fixing (Department Aluminium door)	D	780.20	Rupees seven hundred eighty and twenty paise only	780.20
7	2.00	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	236.82
8	2.00	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	1,143.30
9	2.00	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	990.34
10	4.00	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	376.84
11	1.00	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead. For thickness of tiles above 25 mm and up to 40 mm	m2	67.86	Rupees sixty seven and eighty six paise only	67.86
12	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/cm2 - Internal work - Exposed on wall	m	217.23	Rupees two hundred seventeen and twenty three paise only	2,172.30
13	5.00	Providing and fixing PVC pipes, fittings including fixing the pipe with clamps 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. Concealed work including cutting chases and making good the wall etc. 63 mm pipe 6 Kgf/cm2	m	477.54	Rupees four hundred seventy seven and fifty four paise only	2,387.70
14	2.50	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level: 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	m3	7962.22	Rupees seven thousand nine hundred sixty two and twenty two paise only	19,905.55

15	200.00	Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete above plinth level. Thermo - Mechanically Treated bars of grade Fe-500D or more	Kg	78.07	Rupees seventy eight and seven paisa only	15,614.00
16	15.00	Centering and shuttering including strutting, etc. and removal of form for: Suspended floors, roofs, landings, balconies and access platform	m2	582.48	Rupees five hundred eighty two and forty eight paisa only	8,737.20
17	10.00	12 mm cement plaster of mix: 1:4 (1 cement : 4 fine sand)	m2	238.55	Rupees two hundred thirty eight and fifty five paisa only	2,385.50
18	6.00	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS : 15622, of approved make, in all colours and shades, laid on 20 mm thick cement mortar 1:4(1 cement : 4 coarse sand), including grouting the joints with white cement and matching pigments etc.,	m2	1543.99	Rupees one thousand five hundred forty three and ninety nine paisa only	9,263.94
19	100.00	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete. Hot finished welded type tubes	Kg	124.48	Rupees one hundred twenty four and forty eight paisa only	12,448.00

20	8.00	Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+0.05%), total coated thickness with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling/self tapping screws of size (5.5x55mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.	m2	759.17	Rupees seven hundred fifty nine and seventeen paise only	6,073.36
21	70.00	Providing and fixing M.S. Grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete. Fixed to steel windows by welding	Kg	144.34	Rupees one hundred forty four and thirty four paise only	10,103.80
22	9.00	Painting with synthetic enamel paint of approved brand and manufacture of required colour to an give even shade: One or more coats on old work	m2	70.76	Rupees seventy and seventy six paise only	636.84
23	96.00	Wall painting with plastic emulsion paint of approved brand and manufacture to give an even shade: One or more coats on old work	m2	76.21	Rupees seventy six and twenty one paise only	7,316.16
		Total				179,090.76

PAC Rs.1,79,091/- (Rs. One lakhs Seventy Nine Thousand and Ninety One only)

1. I/We agreed to execute the work.

2.% above the estimate rate.

2.% below the estimate rate.

3. At the estimate rate.

CONTRACTOR

**sd/-
UNIVERSITY ENGINEER**