

NATIONAL INSTITUTE OF TECHNOLOGY, TIRUCHIRAPPLI- 620015

ESTATE MAINTENANCE DEPARTMENT

SCHEDULE OF WORK

Name of Work :Renovation of Geotechnical Lab and Environmental lab in Civil Engineering Department

Ref : NITT/ CoW/EMD/Civil Works/ En. No.23(5)/14-15 , Dt.19.12.2014

NAME OF THE CONTRACTOR / FIRM :

ITEM No	SUB-HEADS AND ITEM OF WORK	QTY	UNIT	RATE (Rs)	RATE (In Words)	AMOUNT(Rs)
1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :	0.60	cum			
1.1	1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 40 mm nominal size)					
2	Centering and shuttering including strutting, propping etc. and removal of form work for :	3.00	sqm			
2.1	Foundations, footings, bases for columns					
3	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, 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 : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).	4.10	cum			
4	Centering and shuttering including strutting, propping etc. and removal of form for :	48.00	sqm			
4.1	Suspended floors, roofs, landings, balconies and access platform					
5	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.	130.00	kg			
5.1	Thermo-Mechanically Treated bars					

ITEM No	SUB-HEADS AND ITEM OF WORK	QTY	UNIT	RATE (Rs)	RATE (In Words)	AMOUNT(Rs)
6	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 3.5 in foundations and plinth in :	18.00	sqm			
6.1	cement mortar 1:4 (1 cement : 4 coarse sand)					
7	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills , facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels.	30.00	sqm			
7.1	Granite of any colour and shade					
7.1.1	Area of slab over 0.50 sqm					
8	Providing edge moulding to 18 mm thick marble stone counters, Vanities etc., including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge.	50.00	metre			
8.1	Granite work					
9	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately).					
9.1	Second class teak wood	1.00	cum			
10	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.	9.00	each			

ITEM No	SUB-HEADS AND ITEM OF WORK	QTY	UNIT	RATE (Rs)	RATE (In Words)	AMOUNT(Rs)
11	Providing and fixing ISI marked aluminium butt hinges anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with necessary screws etc. complete:	160.00	each			
11.1	75x63x4 mm					
12	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete :	182.00	each			
12.1	100x10 mm					
13	Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete :	110.00	each			
13.1	100 mm					
14	Providing and fixing aluminium hanging floor door stopper, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade, with necessary screws etc. complete.	14.00	each			
14.1	Single rubber stopper					
15	Providing and fixing bright finished brass 100 mm mortice latch and lock, ISI marked, with six levers and a pair of anodised (anodic coating not less than grade AC 10 as per IS : 1868) aluminium lever handles of approved quality with necessary screws etc. complete.	8.00	each			
16	Providing and fixing cup board shutters 25 mm thick, with Pre-laminated flat pressed three layer particle board or graded wood particle board IS: 12823 marked, exterior grade (Grade 1 Type II), having one side decorative lamination and other side balancing lamination, including IInd class teak wood lipping of 25 mm wide x12 mm thick with necessary screws and bright finished stainless steel piano hinges, complete as per direction of the Engineer-in-Charge	30.00	sqm			

ITEM No	SUB-HEADS AND ITEM OF WORK	QTY	UNIT	RATE (Rs)	RATE (In Words)	AMOUNT(Rs)
17	15 mm cement plaster on the rough side of single or half brick wall of mix :	75.00	sqm			
17.1	1:6 (1 cement: 6 fine sand)					
18	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface :	105.00	sqm			
18.1	Water thinnable cement primer					
19	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade :	105.00	sqm			
19.1	Two or more coats on new work					
20	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 metres lead :	5.00	sqm			
20.1	With cement mortar 1:4 (1 cement : 4 fine sand)					
21	White washing with lime to give an even shade :	190.00	sqm			
21.1	Old work (two or more coats)					
22	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	260.00	sqm			
23	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :	80.00	sqm			
23.1	One or more coats on old work					
24	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in- charge.	3.00	cum			

ITEM No	SUB-HEADS AND ITEM OF WORK	QTY	UNIT	RATE (Rs)	RATE (In Words)	AMOUNT(Rs)
25	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.	4.00	cum			
25.1	In cement mortar					
26	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.	7.00	cum			
27	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) :	390.00	kg			
27.1	For fixed portion					
27.1.1	Powder coated aluminium (minimum thickness of powder coating 50 micron)					
27.2	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)	100.00	kg			
27.2.1	Powder coated aluminium (minimum thickness of powder coating 50 micron)					

ITEM No	SUB-HEADS AND ITEM OF WORK	QTY	UNIT	RATE (Rs)	RATE (In Words)	AMOUNT(Rs)
28	Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade 1 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.	90.00	sqm			
28.1	Pre-laminated particle board with decorative lamination on one side and balancing lamination on other side					
29	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):	30.00	sqm			
29.1	With float glass panes of 5.0 mm thickness					
30	Brick work with common burnt clay modular bricks of class designation 3.5 in superstructure above plinth level up to floor V level in all shapes and sizes in Cement Mortar 1:6	2.10	Cum			

SIGNATURE OF CONTRACTOR