

NAIONAL INSTITUTE OF TECHNOLOGY, TIRUCHIRAPPALLI - 620015
DEPARTMENT OF ESTATE MAINTRNANCE

SCHDULE OF WORKS

N/w :providing Aluminium partititon and vitrified floor tiles for Chemical Engineering Department

SLNo	Description	Qty	Unit	Rate	Rate (In Words)	Amount(RS)
1	EARTH WORK					
1.1	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 neatly dressed.					
1.1.1	All kinds of soil	2	cum			
2	CONCRETE WORK					
2.1	Providing and fixing up to floor five level precast cement concrete string or lacing courses, copings, bed plates, anchor blocks, plain window sills, shelves, louvers, steps, stair cases, etc., including hoisting and setting in position with cement mortar 1:3 (1 Cement : 3 coarse sand), cost of required centering complete.					
2.1.1	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	2.5	cum			
3	BRICK WORK					
3.1	Brick work with common burnt clay modular bricks of class designation 3.5 in foundation and plinth in:					
3.1.1	Cement Mortar 1:6 (1 cement : 6 coarse sand).	0.2	cum			

SLNo	Description	Qty	Unit	Rate	Rate (In Words)	Amount(RS)
4	WOOD AND P.V.C. WORK					
4.1	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.	2	each			
4.2	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 :					
4.2.1	150x10 mm	6	each			
4.3	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 :					
4.3.1	125 mm	4	each			
5	FLOORING					
5.1	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 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), including grouting the joints with white cement and matching pigments etc., complete.					
5.1.1	Size of Tile 600x600 mm	300	sqm			
5.2	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), including grouting the joint with white cement & matching pigments etc. complete.					
5.2.1	Size of Tile 600x600 mm	2	sqm			

SLNo	Description	Qty	Unit	Rate	Rate (In Words)	Amount(RS)
6 ROOFING						
6.1	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes.					
6.1.1	75 mm diameter	18	metre			
6.2	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion.					
6.2.1	Bend 87.5°					
6.2.1.1	75 mm bend	2	each			
7 FINISHING						
7.1	12 mm cement plaster of mix :					
7.1.1	1:4 (1 cement: 4 fine sand)	0.7	sqm			
8 DISMANTLING & DEMOLISHING						
8.1	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge.					
8.1.1	Nominal concrete 1:4:8 or leaner mix (i/c equivalent design mix)	300	cum			

SLNo	Description	Qty	Unit	Rate	Rate (In Words)	Amount(RS)
9	ALUMINIUM WORK					
9.1	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) :					
9.1.1	For fixed portion					
9.1.1.1	Powder coated aluminium (minimum thickness of powder coating 50 micron)	235	kg			
9.1.2	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)					
9.1.2.1	Powder coated aluminium (minimum thickness of powder coating 50 micron)	30	kg			
9.2	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.					
9.2.1	Pre-laminated particle board with decorative lamination on one side and balancing lamination on other side	31	sqm			

SLNo	Description	Qty	Unit	Rate	Rate (In Words)	Amount(RS)
9.3	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):					
9.3.1	With float glass panes of 5.0 mm thickness	20	sqm			

10 **NIT-T LOCAL ITEMS**

10.1	Providing and fixing in position of boards / sheets/ tiles of approve quality for false ceiling. Rate includes coat of all materials, conbeyance, cutting to rrquited sizes to suit the falce ceiiing frame work grids, wastages supply and fixing wth necessary nails/screws, all labour etc. complete.(Frame work will be paid separately) - 20 mm thick thermocole boards (22kg/cum)	50	Sqm			
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Signature of Contractor

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Chief of Works