

SCHEDULE OF WORK

State Tamil Nadu

Branch NIT-T

Name of Work : Laying vitrified floor tiles in Nanotechnology Lab at Mechanical Engg. Dept.

Division Estate Maintenance
Sub-Division Institute

ITEM No	SUB-HEADS AND ITEM OF WORK	QUANTITY	UNIT	RATE (Rs)	RATE (In Words)	AMOUNT(Rs)
1	REINFORCED CEMENT CONCRETE					
1.1	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 :					
1.1.1	1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	0.50	cum			
1.2	Centering and shuttering including strutting, propping etc. and removal of form for :					
1.2.1	Suspended floors, roofs, landings, balconies and access platform	5.00	sqm			
1.3	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.					
1.3.1	Thermo-Mechanically Treated bars	45.00	kilogram			
	Sub-Total					
2	BRICK WORK					
2.1	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundations and plinth in :					
2.1.1	cement mortar 1:4 (1 cement : 4 coarse sand)	3.00	sqm			
	Sub-Total					
3	MARBLE WORK					

ITEM No	SUB-HEADS AND ITEM OF WORK	QUANTITY	UNIT	RATE (Rs)	RATE (In Words)	AMOUNT(Rs)
3.1	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.					
3.1.1	Granite of any colour and shade					
3.1.1.1	Area of slab upto 0.50 sqm	5.00	sqm			
3.2	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.					
3.2.1	Granite work	6.50	metre			
	Sub-Total					
4	WOOD AND P. V. C. WORK					
4.1	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).					
4.1.1	Second class teak wood	0.15	cum			
4.2	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.	1.00	each			

ITEM No	SUB-HEADS AND ITEM OF WORK	QUANTITY	UNIT	RATE (Rs)	RATE (In Words)	AMOUNT(Rs)
4.3	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 :					
4.3.1	100x10 mm	12.00	each			
4.4	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 :					
4.4.1	100 mm	12.00	each			
	Sub-Total					
5	FLOORING					
5.1	Providing and laying Vitrified 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 brand & manufacturer, in all colours and shade, in skirting, riser of steps, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS: 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately).					
5.1.1	Size of Tile 600x600 mm	9.00	sqm			
5.2	Providing and laying Vitrified tiles in floor with different sizes (thickness to be specified by the manufacturer), with water absorption less than 0.08% and conforming to IS:15622 , of approved brand & manufacturer, in all colours and shade, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS : 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately).					
5.2.1	Size of Tile 600x600 mm	150.00	sqm			

ITEM No	SUB-HEADS AND ITEM OF WORK	QUANTITY	UNIT	RATE (Rs)	RATE (In Words)	AMOUNT(Rs)
	Sub-Total					
6	FINISHING					
6.1	12 mm cement plaster of mix :					
6.1.1	1:6 (1 cement: 6 fine sand)	10.00	sqm			
6.2	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade :					
6.2.1	Two or more coats on new work	10.00	sqm			
	Sub-Total					
7	REPAIRS TO BUILDINGS					
7.1	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 :					
7.1.1	With cement mortar 1:4 (1 cement : 4 fine sand)	4.00	sqm			
7.2	White washing with lime to give an even shade :					
7.2.1	Old work (one or more coats)	150.00	sqm			
7.3	Wall painting with plastic emulsion paint of approved brand and manufacture to give an even shade :					
7.3.1	One or more coats on old work	280.00	sqm			
7.4	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :					

ITEM No	SUB-HEADS AND ITEM OF WORK	QUANTITY	UNIT	RATE (Rs)	RATE (In Words)	AMOUNT(Rs)
7.4.1	One or more coats on old work	75.00	sqm			
	Sub-Total					
8	DISMANTLING & DEMOLISHING					
8.1	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.					
8.1.1	In cement mortar	1.60	cum			
	Sub-Total					
9	SANITARY INSTALLATIONS					
9.1	Providing and fixing white vitreous china wash basin including making all connections but excluding the cost of fittings :					
9.1.1	Flat back wash basin of size 630x450 mm	1.00	each			
9.2	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.					
9.2.1	Flexible pipe					
9.2.1.1	32 mm dia	1.00	each			
9.3	Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing :					
9.3.1	Rectangular shape 453x357 mm	1.00	each			
	Sub-Total					
10	WATER SUPPLY					

ITEM No	SUB-HEADS AND ITEM OF WORK	QUANTITY	UNIT	RATE (Rs)	RATE (In Words)	AMOUNT(Rs)
10.1	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge.					
10.1.1	20 mm nominal outer dia Pipes	7.00	metre			
10.1.2	32 mm nominal outer dia Pipes	6.00	metre			
10.2	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work) :					
10.2.1	20 mm nominal bore	1.00	each			
10.3	Providing and fixing C.P. brass long nose bib cock of approved quality conforming to IS standards and weighing not less than 810 gms.					
10.3.1	15 mm nominal bore	1.00	each			
	Sub-Total					
11	ALUMINIUM WORK					
11.1	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) :					

ITEM No	SUB-HEADS AND ITEM OF WORK	QUANTITY	UNIT	RATE (Rs)	RATE (In Words)	AMOUNT(Rs)
11.1.1	For fixed portion					
11.1.1.1	Powder coated aluminium (minimum thickness of powder coating 50 micron)	8.00	kg			
11.1.2	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)					
11.1.2.1	Powder coated aluminium (minimum thickness of powder coating 50 micron)	10.00	kg			
11.2	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.					
11.2.1	Pre-laminated particle board with decorative lamination on one side and balancing lamination on other side	5.50	sqm			
11.3	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):					
11.3.1	With float glass panes of 5.50 mm thickness	1.50	sqm			
	Sub-Total					
12	NIT-T Local Items					
12.1	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	1.25	Cum			

ITEM No	SUB-HEADS AND ITEM OF WORK	QUANTITY	UNIT	RATE (Rs)	RATE (In Words)	AMOUNT (Rs)
12.2	Providing and fixing the 38 mm thick cuddapa slab including the cost of all materials and labour charges, conveyance etc.	4.00	Sqm			
	Sub-Total					
	Total					

SIGNATURE OF CONTRACTOR

SCHEDULE OF WORK

State Tamil Nadu

Branch NIT-T

Name of Work : Renovation of HOD room & Faculty room in MME Department.

Division Estate Maintenance
Sub-Division Institute

ITEM No	SUB-HEADS AND ITEM OF WORK	QUANTITY	UNIT	RATE (Rs)	RATE (In Words)	AMOUNT(Rs)
1	REINFORCED CEMENT CONCRETE					
1.1	Providing and laying up to floor five level reinforced cement concrete in kerbs, steps and the like, 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).	0.75	cum			
1.2	Centering and shuttering including strutting, propping etc. and removal of form for :					
1.2.1	Suspended floors, roofs, landings, balconies and access platform	7.00	sqm			
1.3	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.					
1.3.1	Thermo-Mechanically Treated bars	40.00	kilogram			
	Sub-Total					
2	BRICK WORK					
2.1	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level.					
2.1.1	Cement mortar 1:4 (1 cement :4 coarse sand)	6.00	sqm			
	Sub-Total					
3	MARBLE WORK					

ITEM No	SUB-HEADS AND ITEM OF WORK	QUANTITY	UNIT	RATE (Rs)	RATE (In Words)	AMOUNT(Rs)
3.1	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.					
3.1.1	Granite of any colour and shade					
3.1.1.1	Area of slab upto 0.50 sqm	7.00	sqm			
	Sub-Total					
4	WOOD AND P. V. C. WORK					
4.1	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).					
4.1.1	Second class teak wood	0.30	cum			
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	100x10 mm	21.00	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	100 mm	10.00	each			

ITEM No	SUB-HEADS AND ITEM OF WORK	QUANTITY	UNIT	RATE (Rs)	RATE (In Words)	AMOUNT(Rs)
4.4	Providing and fixing cup board shutters with 25 mm thick veneered particle board IS : 3097 marked, exterior grade (Grade I), of approved make, including IInd class teak wood lipping of 25 mm wide x 12 mm thick with necessary screws and bright finished stainless steel piano hinges, complete as per direction of Engineer-in-Charge.					
4.4.1	With decorative veneering on one side and commercial veneering on other side	10.00	sqm			
	Sub-Total					
5	FLOORING					
5.1	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	15.00	sqm			
5.2	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), including pointing the joints with white cement and matching pigment etc., complete.	5.50	sqm			
5.3	Providing and laying Vitrified 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 brand & manufacturer, in all colours and shade, in skirting, riser of steps, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS: 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately).					

ITEM No	SUB-HEADS AND ITEM OF WORK	QUANTITY	UNIT	RATE (Rs)	RATE (In Words)	AMOUNT(Rs)
5.3.1	Size of Tile 600x600 mm	2.00	sqm			
5.4	Providing and laying Vitrified tiles in floor with different sizes (thickness to be specified by the manufacturer), with water absorption less than 0.08% and conforming to IS:15622 , of approved brand & manufacturer, in all colours and shade, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS : 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately).					
5.4.1	Size of Tile 600x600 mm	45.00	sqm			
	Sub-Total					
6	FINISHING					
6.1	12 mm cement plaster of mix :					
6.1.1	1:6 (1 cement: 6 fine sand)	7.00	sqm			
6.2	15 mm cement plaster on the rough side of single or half brick wall of mix :					
6.2.1	1:6 (1 cement: 6 fine sand)	12.00	sqm			
6.3	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade :					
6.3.1	Two or more coats on new work	165.00	sqm			
	Sub-Total					
7	REPAIRS TO BUILDINGS					

ITEM No	SUB-HEADS AND ITEM OF WORK	QUANTITY	UNIT	RATE (Rs)	RATE (In Words)	AMOUNT(Rs)
7.1	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 :					
7.1.1	With cement mortar 1:4 (1cement: 4 coarse sand)	15.00	sqm			
7.2	White washing with lime to give an even shade :					
7.2.1	Old work (one or more coats)	70.00	sqm			
7.3	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	165.00	sqm			
7.4	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :					
7.4.1	One or more coats on old work	35.00	sqm			
	Sub-Total					
8	DISMANTLING & DEMOLISHING					
8.1	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead.					
8.1.1	For thickness of tiles 10 mm to 25 mm	1.00	sqm			
8.2	Dismantling of flushing cistern of all types (C.I./PVC/Vitrious China) including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead.	1.00	each			
	Sub-Total					
9	SANITARY INSTALLATIONS					

ITEM No	SUB-HEADS AND ITEM OF WORK	QUANTITY	UNIT	RATE (Rs)	RATE (In Words)	AMOUNT(Rs)
9.1	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 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 required :					
9.1.1	W.C. pan with ISI marked white solid plastic seat and lid	1.00	each			
	Sub-Total					
10	NIT-T Local Items					
10.1	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	2.00	Cum			
10.2	Providing and fixing the 38 mm thick cuddapa slab including the cost of all materials and labour charges, conveyance etc.	7.00	Sqm			
	Sub-Total					
	Total					

SIGNATURE OF CONTRACTOR



NATIONAL INSTITUTE OF TECHNOLOGY TIRUCHIRAPPALLI – 620 015
ESTATE MAINTENANCE DEPARTMENT

Web: www.nitt.edu

NOTICE INVITING TENDERS NO: NITT/EMD//Civil / 2014

TENDER NOTIFICATION

Ref: NIT-T / EMD / CoW / Civil Works / 2015-16

Date.09.04.2015

The **Chief of works**, Estate Maintenance Department, NIT-T on behalf of The Director, NIT-T invites sealed item rate tenders from the approved and eligible contractors of NITT/CPWD and those in the appropriate list of Tamil Nadu state PWD, Railways, MES and BSNL for the following work. Sealed tenders will be received by the Registrar, National Institute of Technology, Tiruchirappalli-15 up to **3.00 P.M on 21.04.2015**. The tender will be **opened at 3.30 P.M on 21.04.2015** at Registrar office, in the presence of tenders who choose to present.

Enq No.	Est Id. No	Name of work	Estimate cost Rs.	Earnest Money Rs	Last date for Submission of the Tenders	Tender cost
1	01	Laying vitrified floor tiles in Nanotechnology Lab at Mechanical Engineering Department	3,77,423/-	7,600/-	21.04.2015	Rs.150/-
2	02	Renovation of HOD room and Faculty room in MME department	2,33,006/-	4,700/-	21.04.2015	Rs.150/-

Tender details in this regard may also be seen in the Notice board of office of the Estate office, Estate Maintenance Department, NIT, Trichy -15 during office hours on any working days.

The tender document can be downloaded from the Institute Web Site www.nitt.edu/home/others/tenders/. The tender cost and Earnest money should be enclosed along with tender schedule in the form of separate **Demand Draft** of any Nationalized bank / scheduled bank drawn in favor of **“The Director, NIT, Trichy-15”**.

-Sd –
Chief of Works