



# NATIONAL INSTITUTE OF TECHNOLOGY TIRUCHIRAPPALLI – 620 015

## ESTATE MAINTENANCE DEPARTMENT

**NOTICE INVITING TENDERS NO: NITT/EMD//Civil works / 2015**

### TENDER NOTIFICATION

**Ref: NITT/EMD/ CoW/Civil works/15-16**

**Date.23.06.2015.**

The **Chief of works**, Estate Maintenance Department, NIT on behalf of The Director, NIT 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 02.07.2015**. The tender will be **opened at 3.30. P.M on 02.07.2015** 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
15	39	Modification of security & visitor's room in OPAL Hostel.	3,33,992/-	6700/-	02.07.2015	Rs.150/-
16	40	Repairs & painting works to Quarters No.PG-3, 11, 12, 16, 17,23,34 & QIP-3,6,30	3,17,821/-	6400/-	02.07.2015	Rs.150/-
17	41	Internal painting to Jade Hostel.	2,94,658/-	5900/-	02.07.2015	Rs.150/-

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

The tender document can be downloaded from this institute web site [www.nitt.edu/home/others/tenders/](http://www.nitt.edu/home/others/tenders/). The tender cost and the Earnest money should be enclosed along with tender schedule in the form of separate **Demand Draft** from any Nationalized Bank drawn in favor of **“The Director, NIT, Trichy-15”**

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**Chief of Works**

## TENDER DOCUMENT

**Name of Work:** Modification of Security & Visitors' room in OPAl Hostel.

ITEM No	SUB-HEADS AND ITEM OF WORK	QTY	UNIT	RATE (Rs)	RATE (In Words)	AMOUNT(Rs)
1	Making plinth protection 50 mm thick of cement concrete 1:3:6 (1 cement: 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including finishing the top smooth.	22.00	Sqm			
2	Brick edging 7cm wide 11.4 cm deep to plinth protection with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 including grouting with cement mortar 1:4 (1 cement : 4 fine sand).	15.00	Metre			
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 :	4.00	Each			
3.1	200x10 mm					
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 :	4.00	Each			
4.1	125 mm					

5.	<p>Providing and fixing factory made P.V.C. door frame of size 50x47 mm with a wall thickness of 5 mm, made out of extruded 5mm rigid PVC foam sheet, mitred at corners and joined with 2 Nos of 150 mm long brackets of 15x15 mm M.S. square tube, the vertical door frame profiles to be reinforced with 19x19 mm M.S. square tube of 19 gauge, EPDM rubber gasket weather seal to be provided through out the frame. The door frame to be fixed to the wall using M.S. screws of 65/100 mm size, complete as per manufacturer's specification and direction of Engineer- in-Charge.</p>	10.00	Metre			
6.	<p>Providing and fixing factory made panel PVC door shutter consisting of frame made out of M.S. tubes of 19 gauge thickness and size of 19 mm x 19 mm for styles and 15x15 mm for top &amp; bottom rails. M.S. frame shall have a coat of steel primers of approved make and manufacture . M.S. frame covered with 5 mm thick heat moulded PVC 'C' channel of size 30 mm thickness, 70 mm width out of which 50 mm shall be flat and 20 mm shall be tapered in 45 degree angle on both side forming styles and 5 mm thick, 95 mm wide PVC sheet out of which 75 mm shall be flat and 20 mm shall be tapered in 45 degree on the inner side to form top and bottom rail and 115 mm wide PVC sheet out of which 75 mm shall be flat and 20 mm shall be tapered on both sides to form lock rail. Top, bottom and lock rails shall be provided both side of the panel. 10 mm (5 mm x 2 ) thick, 20 mm wide cross PVC sheet be provided as gap insert for top rail &amp; bottom rail, paneling of 5 mm thick both side PVC sheet to be fitted in the M.S. frame welded/ sealed to the styles &amp; rails with 7 mm (5 mm+2 mm) thick x 15 mm wide PVC sheet beading on inner side, and joined together with solvent cement adhesive. An additional 5 mm thick PVC strip of 20 mm width is to be stuck on the interior side of the 'C' Channel using</p>	4.00	Sqm			

	PVC solvent adhesive etc. complete as per direction of Engineer-in-charge, manufacturer's specification & drawing.					
6.1	30 mm thick plain PVC door shutters					
7.	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.	25.00	Sqm			
8.	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.	35.00	Sqm			
9.	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.	30.00	Sqm			
9.1	Size of Tile 600x600 mm					

10.	White washing with lime to give an even shade :	70.00	Sqm			
10.1	Old work (one or more coats)					
11	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	120.00	Sqm			
12.	Wall painting with plastic emulsion paint of approved brand and manufacture to give an even shade :	80.00	Sqm			
12.1	One or more coats on old work					
13.	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :	30.00	Sqm			
13.1	One or more coats on old work					

14.	Finishing walls with Acrylic Smooth exterior paint of required shade :	120.00	Sqm			
14.1	Old work (Two or more coat applied @ 1.67 ltr/ 10 sqm) on existing cement paint surface					
15.	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead.	80.00	Sqm			
15.1	For thickness of tiles 10 mm to 25 mm					
16.	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	6.00	Cum			
17	Providing and fixing water closet squatting pan (Indian type W.C. pan ) with 100 mm sand cast Iron P or S trap, 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 :	15.00	Each			
17.1	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests.					

18	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 :	1.00	Each			
18.1	W.C. pan with ISI marked white solid plastic seat and lid					
19	Providing and fixing P.V.C. low level flushing cistern with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete.	4.00	Each			
19.1	10 litre capacity – White					
20	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.	2.00	Each			
20.1	Semi rigid pipe					
20.1.1	40 mm dia					
21	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	31.00	Each			

22.	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement of approved quality and colour.	1.00	Each			
22.1	600 mm long towel rail with total length of 645 mm, width 78 mm and effective height of 88 mm, weighing not less than 190 gms					
23.	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :	1.00	Each			
23.1	25 mm nominal bore					
24.	Providing and fixing uplasticised PVC connection pipe with brass unions :	1.00	Each			
24.1	30 cm length					
24.1.1	15 mm nominal bore					
25.	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, ISI : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	1000.00	Per litre			



26.	Providing and fixing PTMT bib cock of approved quality and colour.	2.00	Each			
26.1	15 mm nominal bore, 165 mm long, weighing not less than 110 gms					
27.	Providing and fixing PTMT stop cock of approved quality and colour.	1.00	Each			
27.1	20 mm nominal bore, 89 mm long, weighing not less than 88 gms.					
28.	Providing and fixing PTMT grating of approved quality and colour.	1.00	Each			
28.1	Circular type					
28.1.1	100 mm nominal dia					
29.	Providing and fixing PTMT Ball cock of approved quality, colour and make complete with Epoxy coated aluminium rod with L.P./H.P.H.D. plastic ball.	1.00	Each			
29.1	25 mm nominal bore, 152mm long, weighing not less than 440 gms					

30.	Providing and fixing unplasticised P.V.C. connection pipe with PTMT Nuts, collar and bush of approved quality and colour.	1.00	Each			
30.1	15 mm nominal bore with 30cm length					
30.2	15 mm nominal bore with 45 cm length	1.00	Each			
31.	Providing and fixing open type cupboards with shelves of overall size 600x600x300mm including fixing to wall with rawl plugs and C.P brass screws using 6/19mm thick both side pre-laminated BWR grade ply wood as per the direction of the Engineer-in-charge and consisting of : a) 19mm thick both side pre-laminated BWR grade ply wood for bottom, sides, top and middle horizontal with necessary adhesive and screws. b) 6mm thick both side pre laminated BWR grade ply wood for backing with necessary adhesive and screws c) 2mm thick PVC edge moulding for the exposed face of the prelaminated BWR grade ply wood using necessary adhesive and machine pressing.	40.00	Each			
32.	Providing and fixing M.S.angle of size 25x25x5 mm and 30 cm long embedded in brick work with CC 1:3:6 (1 cement : 3 coarse sand " 6 graded stone aggregate of 20 mm nominal size) to support the open type cupboard including with one or more coat of approved Zinc chromate yellow primer and two or more coats of synthetic enamel paint etc complete as per the direction of the Engineer-in-charge.	80.00	Each			

33.	Earth work excavation & depositing on bank with initial lead of 10m and lift of 2 m in all clases by soil in narrow trenches for pipe laying work including cost & conveyance of PVC rigid pipes (True Bore/ Jain pipes) and specials and lowering in to trenches with excavated earth on completion of work.	10.00	Metre			
	<b>TOTAL</b>					

**Signature of Contractor**

## TENDER DOCUMENT

**Name of Work: Repairs & Painting works to Quarters No.PG-3,11,12,16,17,23,34 & QIP-3,6,30**

ITEM No	SUB-HEADS AND ITEM OF WORK	QTY	UNIT	RATE (Rs)	RATE (In Words)	AMOUNT(Rs)
1	BRICK WORK					
1.1	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundations and plinth in :					
1.1.1	cement mortar 1:4 (1 cement : 4 coarse sand)	3	sqm			
2	WOOD AND P. V. C. WORK					
2.1	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.					
2.1.1	30 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	6	sqm			
2.2	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 :					
2.2.1	250x10 mm	6	each			

2.3	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 :					
2.3.1	100 mm	6	each			
3	FINISHING					
3.1	12 mm cement plaster of mix :					
3.1.1	1:4 (1 cement: 4 fine sand)	10	sqm			
3.2	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface :					
3.2.1	Water thinnable cement primer	1950	sqm			
4	REPAIRS TO BUILDINGS					
4.1	Renewing glass panes, with putty and nails wherever necessary including racking out the old putty:					
4.1.1	Float glass panes of thickness 4 mm	5	sqm			
4.2	White washing with lime to give an even shade :					
4.2.1	Old work (one or more coats)	400	sqm			

4.3	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :					
4.3.1	One or more coats on old work	175	sqm			
4.4	Distemping with 1st quality acrylic washable distemper (ready made) of approved manufacturer and of required shade and colour complete. as per manufacturer's specification.					
4.4.1	One or more coats on old work	1950	sqm			
5	SANITARY INSTALLATIONS					
5.1	Providing and fixing P.V.C. low level flushing cistern with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete.					
5.1.1	10 litre capacity - White	2	each			
5.2	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.					
5.2.1	Flexible pipe					
5.2.1.1	32 mm dia	5	each			

5.3	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 :					
5.3.1	Rectangular shape 453x357 mm	4	each			
6	WATER SUPPLY					
6.1	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms.					
6.1.1	15 mm nominal bore	10	each			
6.2	Providing and fixing PTMT grating of approved quality and colour.					
6.2.1	Circular type					
6.2.1.1	100 mm nominal dia	5	each			
6.3	Providing and fixing unplasticised P.V.C. connection pipe with PTMT Nuts, collar and bush of approved quality and colour.					
6.3.1	15 mm nominal bore with 45 cm length	6	each			
7	NIT MARKET RATE					
7.1	Providing and fixing of single side polished cuddapah slabs for kitchen platforms over 20mm thick base in cm 1:4 (1cement : 4sand) with joints treated walls cement mortar mixing with pigment as per the direction of Engineer-in-charge.	13	Sq.Mtr			

	For 25mm to 40mm thick					
7.2	Providing and fixing of 75mm dia (Finolex or Avonplast- 6kg/cm <sup>2</sup> ) Unplasticised Rigid PVC soil 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	Mtr			
7.3	Removing and refixing door shutters up to 0.90mx2.10m size including planing the top and bottom face up to 10mm including fixing with stainless steel screws etc., complete as directed by the Engineer -in -charge.(Cost of new hinges shall be paid separately wherever required)	12	Each			
7.4	Providing and fixing of 32mm dia Unplasticised PVC pipes (Avonplast Make) including all fittings i/c fixing the pipe with clamps at 1.00m spacing.This includes jointing of pipes & fittings with one step UPVC solvent cement and testing of joints complete as per the direction of Engineer - in- charge	10	Mtr			
7.5	Providing and laying rectified Glazed Ceramic floor tiles of size 380x380 mm or more (thickness to be specified by the manufacturer), of 1st quality conforming to IS : 15622, of approved make, in all colours, shades, except White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick bed of cement mortar 1:4 (1 Cement : 4 Coarse sand), including pointing the joints with white cement and matching pigments etc., complete.	120	Sq.M			
7.6	Providing and fixing of Caddapah sink of size 60x60x20cm,32 mm C.P. brass waste of standard	4	each			



	pattern and making good the walls wherever require as directed by the Engineer-in-charge						
						<b>TOTAL</b>	

**Signature of Contractor**

## TENDER DOCUMENT

**Name of Work: Internal painting to JADE Hostel**

ITEM No	SUB-HEADS AND ITEM OF WORK	QTY	UNIT	RATE (Rs)	RATE (In Words)	AMOUNT(Rs)
1	Providing and fixing bright finished brass hasp and staple (safety type) with necessary screws etc. complete :	50.00	Each			
1.1	150 mm					
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 :	10.00	Each			
2.1	150x10 mm					
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 :	10.00	Each			
3.1	100 mm					

4	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	4.00	sqm			
5	White washing with lime to give an even shade :	2700.00	Sqm			
5.1	Old work (one or more coats)					
6	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :	1600.00	sqm			

7	Distemping with 1st quality acrylic washable distemper (ready made) of approved manufacturer and of required shade and colour complete. as per manufacturer's specification.	6800.00	sqm			
7.1	One or more coats on old work					
	<b>TOTAL</b>					

**Signature of Contractor**