

# NATIONAL INSTITUTE OF TECHNOLOGY TIRUCHIRAPPALLI – 620 015

## ESTATE MAINTENANCE DEPARTMENT

### NOTICE INVITING TENDERS NO: NITT/EMD//Civi works / 2015

### TENDER NOTIFICATION

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

Date.28.04.2015

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 08.05.2015**. The tender will be **opened at 3.30. P.M on 08.05.2015** at Registrar Office, in the presence of tenders who choose to present.0

<b>Enq No.</b>	<b>Est Id. No</b>	<b>Name of work</b>	<b>Estimate cost Rs.</b>	<b>Earnest Money Rs</b>	<b>Last date for Submission of the tenders</b>	<b>Tender cost</b>
03	08	Creation of Common toilet facilities and washing platform to laundry shop in 'H' Mess.	2,78,931/-	5,600/-	08.05.2015	Rs.150/-
04	09	Providing Bath & Toilet fittings to Agate, Coral, Diamond, Emerald, Lapis, Pearl, Ruby, Sapphire & Topaz Hostels.	2,01,182/-	4,100/-	08.05.2015	Rs.150/-
05	10	Providing Bath, Toilet and window fittings to Amber A&B Hostels.	2,84,779/-	5,700/-	08.05.2015	Rs.150/-
06	11	C/o masonry Dustbin for Hostel zone (Total 13 No's).	3,00,088/-	6,100/-	08.05.2015	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 of Rs 150/-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"

**-Sd- /Chief of Works**

## SCHEDULE OF WORK

Name of Work: Creation of Common toilet facilities and washing platform to laundry shop in 'H' mess.

Sl.No	Sub-Heads and Item of Work	Quantity	Unit	Rate (Rs)	Rate (In words)	Amount (Rs)
1.	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.	10.00	cum			
1.1	All kinds of soil.					
2.	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	7.00	cum			
3	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :					
3.1	1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size)	8.00	cum			

4.	Providing, hoisting and fixing up to floor five level precast reinforced cement concrete in shelves, including setting in cement mortar 1:3 (1 cement : 3 coarse sand), cost of required centering, shuttering and finishing with neat cement punning on exposed surfaces but excluding the cost of reinforcement, with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size).	0.20	cum			
5.	Providing precast cement concrete Jali 1:2:4 (1 cement : 2 coarse sand: 4 graded stone aggregate 6 mm nominal size), reinforced with 1.6 mm dia mild steel wire, including centering and shuttering, roughening cleaning, fixing and finishing in cement mortar 1:3 (1 cement: 3 fine sand) etc. complete, excluding plastering of the jambs, sills and soffits.	2.00	sqm			
5.1	50 mm thick					
6.	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:	10.50	cum			
6.1	Cement mortar 1:6 (1 cement : 6 coarse sand)					
7.	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.	14.00	sqm			
7.1	Cement mortar 1:4 (1 cement :4 coarse sand)					

8.	Providing and fixing stone slab with table rubbed, edges rounded and polished, of size 75x50 cm deep and 1.8 cm thick, fixed in urinal partitions by cutting a chase of appropriate width with chase cutter and embedding the stone in the chase with epoxy grout or with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 6 mm nominal size) as per direction of Engineer-in-charge and finished smooth.	1.00	sqm			
8.1	Granite Stone of approved shade					
9.	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.	15.00	metre			
10	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 & bottom rails. M.S. frame shall have a coat of steel primers of approved make and manufacture . M.S. frame covered	5.00	sqm			

	<p>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 PVC solvent adhesive etc. complete as per direction of Engineer-in-charge, manufacturer's specification &amp; drawing.</p>					
10.1	30 mm thick plain PVC door shutters					
11	<p>Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete.</p> <p>40 mm thick with 20 mm nominal size stone aggregate</p>	30.00	sqm			

12	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.	45.00	sqm			
13.	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.	10.00	sqm			
14.	12 mm cement plaster of mix :	40.00	sqm			
14.1	1:6 (1 cement: 6 fine sand)					
15	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 :	90.00	sqm			

15.1	With cement mortar 1:4 (1 cement : 4 fine sand)					
16	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :	22.00	sqm			
16.1	One or more coats on old work					
17	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge.	1.00	cum			
17.1	Nominal concrete 1:4:8 or leaner mix (i/c equivalent design mix)					
18	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.	2.00	cum			
18.1	In cement mortar					

19	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead.	10.00	sqm			
19.1	For thickness of tiles 10 mm to 25 mm					
20	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 :	2.00	each			
20.1	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests					
21	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require :	1.00	each			
21.1	White Vitreous China Flat back wash basin size 550x 400 mm with single 15 mm C.P. brass pillar tap					

22	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350 mm or 340x410x265 mm sizes respectively.	2.00	each			
23	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.	3.00	each			
23.1	Semi rigid pipe					
23.1.1	40 mm dia					
24	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.	1.00	each			
25	Making connection of G.I. distribution branch with G.I. main of following sizes by providing and fixing tee, including cutting and threading the pipe etc. complete :	1.00	each			
25.1	25 to 40 mm nominal bore					

26	Providing and fixing unplasticised PVC connection pipe with brass unions	2.00	each			
26.1	45 cm length					
26.1.1	15 mm nominal bore					
27	Providing and fixing PTMT bib cock of approved quality and colour.	3.00	each			
27.1	15 mm nominal bore, 165 mm long, weighing not less than 110 gms					
28	Providing and fixing PTMT stop cock of approved quality and colour.	3.00	each			
28.1	20 mm nominal bore, 89 mm long, weighing not less than 88 gms					
29	Providing and fixing PTMT grating of approved quality and colour.	1.00	each			
29.1	Circular type					
29.1.1	100 mm nominal dia					

30	Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design :	1.00	each			
30.1	100x100 mm size P type					
30.1.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5					
31	Constructing brick masonry manhole in cement mortar 1:4 ( 1 cement : 4 coarse sand ) with R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design :	1.00	Each			
31.1	Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) :					
31.1.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5					

32	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 S :5382 leaving 10mm gap for thermal expansion. (i) Single socketed pipes	10.00	Metre			
33	Providing and fixing on wall face unplasticised-PVC moulded fittings/accessories for unplasticised Rigid PVC pipes conforming to IS :13592 Type A including jointing with seal ring conforming to S :5382 leaving 10mm gap for thermal expansion. (i) 75 mm dia PVC Door elbow (Finolex or equivalent make)	2.00	each			
34	Providing and fixing of 110 mm 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 S :5382 leaving 10mm gap for thermal expansion. (i) Single socketed pipes	30.00	Metre			
35	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.	115.00	Metre			
						TOTAL

Signature of Contractor

## SCHEDULE OF WORK

Name of Work: Providing Bath & Toilet fittings to Agate, Coral, Diamond, Emerald, Lapis, Pearl, Ruby, Sapphire & Topaz Hostels.

Sl.No	Sub-Heads and Item of Work	Quantity	Unit	Rate (Rs)	Rate (In words)	Amount (Rs)
1.	Providing and fixing stone slab with table rubbed, edges rounded and polished, of size 75x50 cm deep and 1.8 cm thick, fixed in urinal partitions by cutting a chase of appropriate width with chase cutter and embedding the stone in the chase with epoxy grout or with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 6 mm nominal size) as per direction of Engineer-in-charge and finished smooth.	7.00	sqm			
1.1	Granite Stone of approved shade					
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 :	109.00	each			
2.1	150x10 mm					
3	Providing and fixing to existing door frames.					
3.1	24 mm thick factory made PVC door shutters made of styles and rails of a uPVC hollow section of size 59x24 mm and wall thickness 2 mm ( $\pm$ 0.2 mm) with inbuilt edging on both sides. The styles and rails mitred and joint at the corners by means of M.S. galvanised/plastic brackets of size 75x220 mm having wall thickness 1.0 mm	14.00	sqm			

	<p>and stainless steel screws. The styles of the shutter reinforced by inserting galvanised M.S. tube of size 20x20 mm and 1 mm (<math>\pm</math> 0.1 mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100x24 mm and 2 mm (<math>\pm</math> 0.2 mm) wall thickness, fixed to the shutter styles by means of plastic/galvanised M.S. 'U' cleats. The shutter frame filled with a uPVC multi-chambered single panel of size not less than 620 mm, having over all thickness of 20 mm and 1 mm (<math>\pm</math> 0.1 mm) wall thickness. The panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised M.S. rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineer-in-charge. (For W.C. and bathroom door shutter).</p>					
4	<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			

5	Providing and fixing solid plastic seat with lid for pedestal type W.C. pan complete :	1.00	each			
5.1	White solid plastic seat with lid					
6	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350 mm or 340x410x265 mm sizes respectively.	2.00	each			
7	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.	12.00	each			
7.1	Semi rigid pipe					
7.1.1	40 mm dia					
7.2	Flexible pipe	12.00	each			
7.2.1	40 mm dia					

8	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.	45.00	each			
9	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.	165.00	each			
9.1	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					
10	Providing and fixing PTMT bib cock of approved quality and colour.	1.00	each			
10.1	15 mm nominal bore, 165 mm long, weighing not less than 110 gms					
11	Providing and fixing PTMT stop cock of approved quality and colour.	6.00	each			
11.1	20 mm nominal bore, 89 mm long, weighing not less than 88 gms					

12	Providing and fixing PTMT grating of approved quality and colour.	10.00	each			
12.1	Circular type					
12.1.1	100 mm nominal dia					
						TOTAL

Signature of Contractor

## SCHEDULE OF WORK

Name of Work: Providing Bath, Toilet and window fittings to Amber A&B Hostels.

Sl.No	Sub-Heads and Item of Work	Quantity	Unit	Rate (Rs)	Rate (In words)	Amount (Rs)
1	Renewing glass panes, with wooden fillets wherever necessary:	50.00	sqm			
1.1	Float glass panes of thickness 4 mm					
2	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.	38.00	each			
2.1	10 litre capacity - White					
3	Providing and fixing solid plastic seat with lid for pedestal type W.C. pan complete :	2.00	each			
3.1	White solid plastic seat with lid					

4	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350 mm or 340x410x265 mm sizes respectively.	6.00	each			
5	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.	30.00	each			
5.1	Semi rigid pipe					
5.1.1	40 mm dia					
5.2	Flexible pipe	40.00	each			
5.2.1	40 mm dia					
6	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.	30.00	each			

7	Providing and fixing PTMT stop cock of approved quality and colour.	170.00	each			
7.1	15 mm nominal bore, 86 mm long, weighing not less than 88 gms					
8	Providing and fixing PTMT pillar cock of approved quality and colour .	45.00	each			
8.1	15 mm nominal bore, 107 mm long, weighing not less than 110 gms					
9	Providing and fixing PTMT grating of approved quality and colour.	30.00	each			
9.1	Circular type					
9.1.1	100 mm nominal dia					
10	Providing and fixing of PVC coated with GI wire in between RCC column for cloth drying etc. rate including cost of all materials and labour charges etc complete.	2200.00	meter			

11	Providing and fixing of MS Handle of 150mm size with necessary bolts,nuts and welding charges etc as per the direction of Engineer-in-charge.	550.00	each			
12	Providing and fixing of MS Stay rod for window with necessary bolts,nuts and welding etc as per the direction of Engineer-in-charge.	550.00	each			
13	Providing & Fixing of Cp brass waste coupling to urinal or wash basin stc complete. (a).40mm dia.	100.00	each			
					TOTAL	

Signature of Contractor

## SCHEDULE OF WORK

Name of Work: C/o masonry Dustbin for Hostel zone (Total 13 No's).

Sl.No	Sub-Heads and Item of Work	Quantity	Unit	Rate (Rs)	Rate (In words)	Amount (Rs)
1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.	25.00	cum			
1.1	All kinds of soil.					
2	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	8.00	cum			
3	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :	8.00	cum			
3.1	1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size)					

4	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:	30.00	cum			
4.1	Cement mortar 1:6 (1 cement : 6 coarse sand)					
5	Providing and fixing 1mm thick M.S. sheet door with frame of 40x40x6 mm angle iron and 3 mm M.S. gusset plates at the junctions and corners, all necessary fittings complete, including applying a priming coat of approved steel primer.	9.00	sqm			
5.1	Using M.S. angels 40x40x6 mm for diagonal braces					
6	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete.	45.00	sqm			
6.1	40 mm thick with 20 mm nominal size stone aggregate					
7	15 mm cement plaster on the rough side of single or half brick wall of mix :	250.00	sqm			
7.1	1:6 (1 cement: 6 fine sand)					

8	Finishing walls with water proofing cement paint of required shade :	250.00	sqm			
8.1	New work (Two or more coats applied @ 3.84 kg/10 sqm)					
9	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :	9.00	sqm			
9.1	Two or more coats on new work					
					TOTAL	

Signature of Contractor