



# NATIONAL INSTITUTE OF TECHNOLOGY TIRUCHIRAPPALLI – 620 015

## ESTATE MAINTENANCE DEPARTMENT

**NOTICE INVITING TENDERS NO: NITT/EMD//Civil works / 2015-2016**

### TENDER NOTIFICATION

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

**Date.15.12.2015.**

The **Estate Officer** of NIT on behalf of The Director, NIT invites sealed item rate tenders from the appropriate list of Tamil Nadu state PWD, Railways, CPWD, 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 04.01.2016**. The tender will be **opened at 3.30. P.M on 04.01.2016** at Registrar Office, in the presence of tenderers 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
8.1	91	Creation of additional kitchen at Opal Mess.	9,95,238/-	20000/-	04.01.2016	Rs.150/-
8.2	92	Special repair & Renovation works in 'F' mess.	9,47,120/-	19000/-	04.01.2016	Rs.150/-
8.3	93	Extension of cycle shed in Zircon A&B Hostels.	7,46,776/-	15000/-	04.01.2016	Rs.150/-
8.4	94	Providing and Laying of STP waste water distribution.	9,40,691/-	18900/-	04.01.2016	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**

**-Sd-  
Estate Officer**

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

**TENDER DOCUMENT**

**N/W:** Creation of additional kitchen at Opal Mess.

**Ref :** NITT/EMD/EO/Civil Works/Enq.No.8.1/15-16,dated 15.12.2015

**Due On – 04.01.2016**

**Name of the Agency :**

<b>ITEM No</b>	<b>SUB-HEADS AND ITEM OF WORK</b>	<b>QTY</b>	<b>UNIT</b>	<b>RATE (Rs)</b>	<b>RATE (In Words)</b>	<b>AMOUNT(Rs)</b>
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.	30	Cum			
1.1	All kinds of soil.					

2	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	10	Cum			
3	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	8	Cum			
4	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :					
4.1	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	1	Cum			
4.2	1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size)	16	Cum			

5	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).	0.5	Cum			
6	Centering and shuttering including strutting, propping etc. and removal of form for :	6	Sqm			
6.1	Lintels, beams, plinth beams, girders, bressumers and cantilevers					
7	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.	160	Kilogram			
7.1	Cold twisted bars					
8	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:	13	Cum			
8.1	Cement mortar 1:6 (1 cement : 6 coarse sand)					

9	Brick work 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 in all shapes and sizes in :	16	Cum			
9.1	Cement mortar 1:6 (1 cement : 6 coarse sand)					
10	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.	70	Sqm			
10.1	Cement mortar 1:4 (1 cement :4 coarse sand)					
11	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	Each			
11.1	200x10 mm					
12	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	Each			
12.1	100 mm					

13	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.	2	Each			
13.1	Single rubber stopper					
14	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	1030	Kg			
15	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.	50	Kg			
15.1	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works					
16	Providing and fixing stainless steel ( Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side	175	Kg			

	of waist slab with suitable arrangement as per approval of Engineer-in-charge, ( for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.).					
17	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.	18	Sqm			
17.1	40 mm thick with 20 mm nominal size stone aggregate					
18	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) :	55	Sqm			
18.1	25 mm thick					
19	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	125	Sqm			

	with pigment of matching shade complete.					
20	Providing and fixing pre-coated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %) total coated thickness with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineer- in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.	147	Sqm			
21	12 mm cement plaster of mix :	195	Sqm			
21.1	1:6 (1 cement: 6 fine sand)					
22	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade :	250	Sqm			
22.1	Two or more coats on new work					

23	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :	170	Sqm			
23.1	Two or more coats on new work					
24	White washing with lime to give an even shade :	170	Sqm			
24.1	Old work (one or more coats)					
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.	3	Cum			
25.1	In cement mortar					
26	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead :	6	Each			
26.1	Of area 3 sq. metres and below					

27	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead.	55	Sqm			
27.1	For thickness of tiles 10 mm to 25 mm					
28	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.	40	Metre			
28.1	32 mm nominal outer dia Pipes					
29	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :	1	Each			
29.1	25 mm nominal bore					
30	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work) :	1	Each			
30.1	20 mm nominal bore					

31	Providing and fixing PTMT bib cock of approved quality and colour.	8	Each			
31.1	15 mm nominal bore, 165 mm long, weighing not less than 110 gms					
32	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) :	6	Kg			
32.1	For fixed portion					
32.1.1	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)					

32.2	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)	31	Kg			
32.2.1	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)					
33	Providing and fixing 12 mm thick pre-laminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling fixed in aluminium 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.	2	Sqm			
33.1	Pre-laminated particle board with decorative lamination on both sides					
34	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):	2.5	Sqm			
34.1	With float glass panes of 5.50 mm thickness					
35	Providing and fixing 100mm brass locks (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete.	1	Each			

36	<p>providing and fixing of single side polished cuddapah slabs for kitchen platforms over 20mm thick base in CM1:4 (1 cement : 4 sand) with joints treated walls cement mortar mixing with pigment as per the direction of Engineer-in-charge.</p> <p>For 25mm to 40mm thick</p>	6	Sqm			
37	<p>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</p>	15	Metre			
38	<p>Providing and fixing weldmesh shutter with MS angle frame of size 25mm x 25mm x 6mm and MS weld mesh size 2" x 1" with necessary bolts and nuts etc complete.</p>	33	Sqm			
39	<p>Labour charges for re erecting the grill to window opening in position as per site condition etc.Rate including cutting, welding, resizing and fixing as per the direction of Engineer-in-charge.</p>	10	Job			

40	Providing and laying 18mm thick anti-skid factory made button type coloured cement concrete tiles UNICON/EUROCON/DAZZLE/ULTRA or equivalent flooring jointed with cement slurry mixed with pigments to match the shades of the tiles over a bed of 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand)	45	Sqm			
<b>TOTAL</b>						

**Signature of Contractor**

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

**TENDER DOCUMENT**

**N/W:** Special repair & Renovation works in 'F' mess.

**Ref :** NITT/EMD/EO/Civil Works/Enq.No.8.2/15-16,dated 15.12.2015

**Due On – 04.01.2016**

**Name of the Agency :**

<b>ITEM No</b>	<b>SUB-HEADS AND ITEM OF WORK</b>	<b>QTY</b>	<b>UNIT</b>	<b>RATE (Rs)</b>	<b>RATE (In Words)</b>	<b>AMOUNT(Rs)</b>
1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :	1	Cum			
1.1	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)					
2	Brick work 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 in all shapes and sizes in :	2	Cum			
2.1	Cement mortar 1:6 (1 cement : 6 coarse sand)					

3	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters :	5	Sqm			
3.1	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws					
4	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	Each			
4.1	200x10 mm					
5	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	Each			
5.1	125 mm					
6	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.	10	Metre			

7	<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 PVC solvent adhesive etc. complete as per direction of Engineer-in-charge, manufacturer's specification &amp; drawing.</p>	7	Sqm			
7.1	30 mm thick plain PVC door shutters					

8	Steel work in built up tubular ( round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete.	850	Kg			
8.1	Hot finished welded type tubes					
9	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.	220	Kg			
9.1	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works					
10	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.	25	Sqm			
10.1	40 mm thick with 20 mm nominal size stone aggregate					
11	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) :	95	Sqm			
11.1	25 mm thick					

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.	100	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.	7	Sqm			
14	Providing and laying pressed clay tiles (as per approved pattern 20 mm nominal thickness of approved size) on roofs jointed with cement mortar 1:4 (1 cement : 4 coarse sand) mixed with 2% integral water proofing compound, laid over a bed of 20 mm thick cement mortar 1:4 (1 cement : 4 coarse sand) and finished neat complete.	350	Sqm			
15	Providing and fixing pre-coated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %) total coated thickness with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be	85	Sqm			

	supplied in single length upto 12 metre or as desired by Engineer- in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.					
16	15 mm cement plaster on the rough side of single or half brick wall of mix :	10	Sqm			
16.1	1:6 (1 cement: 6 fine sand)					
17	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade :	1050	Sqm			
17.1	Two or more coats on new work					
18	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :	230	Sqm			
18.1	Two or more coats on new work					

19	White washing with lime to give an even shade :	300	Sqm			
19.1	Old work (one or more coats)					
20	Finishing walls with Acrylic Smooth exterior paint of required shade :	750	Sqm			
20.1	Old work (Two or more coat applied @ 1.67 ltr/ 10 sqm) on existing cement paint surface					
21	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.	4	Cum			
22	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead :	1	Each			
22.1	Of area beyond 3 sq. metres					

23	Dismantling wood work in frames, trusses, purlins and rafters up to 10 metres span and 5 metres height including stacking the material within 50 metres lead :	170	Metre			
23.1	Of sectional area below 40 square centimetres					
24	Dismantling roofing including ridges, hips, valleys and gutters etc., and stacking the material within 50 metres lead of :	85	Sqm			
24.1	Asbestos sheet					
25	Dismantling tiled roofing with battens, boarding etc. complete including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.	350	Sqm			
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.	20	Cum			

27	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	Each			
27.1	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests					
28	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.	2	Each			
29	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.	2	Each			
29.1	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					
30	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :	2	Each			
30.1	25 mm nominal bore					
31	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work) :	2	Each			
31.1	25 mm nominal bore					

32	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.	6000	per litre			
33	Providing and fixing PTMT bib cock of approved quality and colour.	20	Each			
33.1	15 mm nominal bore, 165 mm long, weighing not less than 110 gms					
34	Providing and fixing PTMT grating of approved quality and colour.	2	Each			
34.1	Circular type					
34.1.1	100 mm nominal dia					
35	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.	2	Each			
35.1	25 mm nominal bore, 152mm long, weighing not less than 440 gms					

36	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	Metre			
37	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	10	Metre			
38	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.	60	Metre			
39	Repolishing of old Mosaic floors,Dado,skirting etc., in grey and all colours and finishing the surfaces smooth including filling the joints and voids by matching pigments, chips etc complete all as per standard specifications. Rate including cost of materials, hire and running charges of materials,labours etc compete as directed by the Engineer incharge.	390	Sqm			

40	Providing and fixing STAR Flex Board with frames and fittings of size 8'0" x 3'3" including lettering transportation as per required font as per direction of Engineer-in-charge.	1	Each			
41	Cleaning the existing wall tiles with necessary acid and making the good look etc complete as per the direction of Engineer-in-charge.	160	Sqm			
<b>TOTAL</b>						

**Signature of Contractor**

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

**TENDER DOCUMENT**

**N/W** : Extension of cycle shed in Zircon A&B Hostels.

**Ref** : NITT/EMD/EO/Civil Works/Enq.No.8.3/15-16,dated 15.12.2015

**Due On – 04.01.2016**

**Name of the Agency :**

<b>ITEM No</b>	<b>SUB-HEADS AND ITEM OF WORK</b>	<b>QTY</b>	<b>UNIT</b>	<b>RATE (Rs)</b>	<b>RATE (In Words)</b>	<b>AMOUNT(Rs)</b>
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.	27	Cum			
1.1	All kinds of soil.					
2	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	80	Cum			

3	Supplying and filling in plinth with Jamuna sand under floors, including watering, ramming, consolidating and dressing complete.	2	Cum			
4	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :	2	Cum			
4.1	1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size)					
5	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement :	10	Cum			
5.1	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)					
6	Centering and shuttering including strutting, propping etc. and removal of form for :	50	Sqm			
6.1	Foundations, footings, bases of columns, etc. for mass concrete					

7	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.	260	Kilogram			
7.1	Cold twisted bars					
8	Steel work in built up tubular ( round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete.	1850	Kg			
8.1	Hot finished welded type tubes					
9	Providing and fixing mild steel round holding down bolts with nuts and washer plates complete.	70	Kg			
10	Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %) total coated thickness with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be	200	Sqm			

	supplied in single length upto 12 metre or as desired by Engineer- in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.					
11	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :	60	Sqm			
11.1	Two or more coats on new work					
12	Providing and laying 60mm thick factory made cement concrete interlocking paver block of M - 30 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over and including 50mm thick compacted bed of coarse sand, filling the joints with fine sand etc. all complete as per the direction of Engineer-in-charge.	380	Sqm			
13	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction	5	Cum			

	of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).					
14	Supplying and stacking of good earth at site including royalty and carriage up to 1 km (earth measured in stacks will be reduced by 20% for payment).	80	Cum			
<b>TOTAL</b>						

**Signature of Contractor**

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

**TENDER DOCUMENT**

**N/W** : Providing and Laying of STP waste water distribution.

**Ref** : NITT/EMD/EO/Civil Works/Enq.No.8.4/15-16,dated 15.12.2015

**Due On – 04.01.2016**

**Name of the Agency :**

<b>ITEM No</b>	<b>SUB-HEADS AND ITEM OF WORK</b>	<b>QTY</b>	<b>UNIT</b>	<b>RATE (Rs)</b>	<b>RATE (In Words)</b>	<b>AMOUNT(Rs)</b>
1	CONCRETE WORK					
1.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :					
1.1.1	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	1	cum			
2	WATER SUPPLY					
2.1	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc.					

2.1.1	25 mm dia nominal bore	70	metre			
2.2	Providing and fixing brass stop cock of approved quality :					
2.2.1	20 mm nominal bore	70	each			
2.3	Providing and fixing C.I. sluice valves (with cap) complete with bolts, nuts, rubber insertions etc. (the tail pieces if required will be paid separately) :					
2.3.1	100 mm diameter					
2.3.1.1	Class I	1	each			
2.4	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work) :					
2.4.1	20 mm nominal bore	65	each			
3	NIT MARKET RATE					
3.1	Earth work excavation & depositing on bank with initial lead of 10m and lift of 2min all classes by soil in narrow trenches for pipe laying work including cost & conveyance of	2100	Mtr			

	<p>PVC rigid pipes (True Bore / Jain pipes) and specials and lowering in to trenches and laying to proper grade and alignment &amp; jointing with PVC couplers with jointing materials and testing to the required pressure including conveyance of water for filling during testing and refilling the trenches with excavated earth on completion of work</p> <p>For depth up to 2m</p> <p>External work : 63mm OD PVC 6KSC Pipes</p>					
3.2	<p>Earth work excavation &amp; depositing on bank with initial lead of 10m and lift of 2m in all classes by soil in narrow trenches for pipe laying work including cost &amp; conveyance of PVC rigid pipes (True Bore / Jain pipes) and specials and lowering in to trenches and laying to proper grade and alignment &amp; jointing with PVC couplers with jointing materials and testing to the required pressure including conveyance of water for filling during testing and refilling the trenches with excavated earth on completion of work For depth up to 2m External work : 32mm OD PVC Pipes (15kg/cm<sup>2</sup>)</p>	210	Mtr			
3.3	<p>P/F of 50mm PVC ball valve ISI Make conforming to IS:1703 of approved quality (screwed end)</p>	10	Each			
3.4	<p>Earth work excavation &amp; depositing on bank with initial lead of 10m and lift of 2min all classes by soil in narrow trenches for pipe laying work including cost &amp; conveyance of</p>					

	PVC rigid pipes (True Bore / Jain pipes) and specials and lowering in to trenches and laying to proper grade and alignment & jointing with PVC couplers with jointing materials and testing to the required pressure including conveyance of water for filling during testing and refilling the trenches with excavated earth on completion of work For depth up to 2m External work : 110mm OD PVC 6KSC Pipes	400	Mtr			
<b>TOTAL</b>						

**Signature of Contractor**