



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

**TENDER NOTIFICATION**

Ref: NIT-T/EMD/ COW/Civil Works / 2015

Date.05.06.2015

The **Chief of works**, Estate Maintenance Department, NIT-Trichy - 620 015 invites on behalf of The Director, NIT,Trichy-620 015 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 15.06.2015**. The tender will be opened at 3.30. p.m of Registrar **office**.

<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>
2.1	22	Modification of faculty rooms in SJB Second Floor for ECE Department.	8,88,792/-	17,800/	15.06.2015	Rs.150/-
2.2	23	Providing Cement concrete flooring at entrance pathway of Agate, Coral, Diamond, Lapis, Pearl, Ruby, Sapphire and Topaz Hostels.	5,58,332/-	11,200/-	15.06.2015	Rs.150/-
2.3	24	Internal painting to Amber-A Hostel	7,74,625/-	15,500/-	15.06.2015	Rs.150/-
2.4	25	Repairs and renovation works to Qts.No.10/5,10/8 & 12/3 (Total-3 Qts).	6,39,948/-	12,800/-	15.06.2015	Rs.150/-
2.5	26	Repairs and renovation works to Qts.No.8/6,8/9,9/9,9/11,9/12,10/1 & 10/2 (Total-7 Qts).	9,21,705/-	18,500/-	15.06.2015	Rs.150/-
2.6	27	Providing car shed to staff Quarters No.1/5,4/1,6/2,7/5,7/6,7/18,8/8,8/9,9/6,9/12,10/1, 13/8,15/5,16/4 & 16/6. (Total-15 Nos).	7,72,143/-	15,500/	15.06.2015	Rs.150/-
2.7	28	Internal painting to Amber-B Hostel.	7,74,625/-	15,500/-	15.06.2015	Rs.150/-
2.8	29	Laying vitrified floor tiles for Corridor(FF), drawing hall & M Tech Class rooms in Civil Engineering Dept.	9,11,092/-	18,300/	15.06.2015	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/](http://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 Drawn in favour of **“The Director, NIT,Trichy – 15.**

**-Sd – Chief of Works**

## SCHEDULE OF WORK

Name of Work : Modification of faculty rooms in SJB Second Floor for ECE Dept.

ITEM No	SUB-HEADS AND ITEM OF WORK	QUANTITY	UNIT	RATE (Rs)	RATE (In Words)	AMOUNT(Rs)
1	REINFORCED CEMENT CONCRETE					
1.1	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).	3.30	cum			
1.2	Centering and shuttering including strutting, propping etc. and removal of form for :					
1.2.1	Lintels, beams, plinth beams, girders, bressumers and cantilevers	40.00	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	150.00	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)	100.00	sqm			
	Sub-Total					

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ITEM No	SUB-HEADS AND ITEM OF WORK	QUANTITY	UNIT	RATE (Rs)	RATE (In Words)	AMOUNT(Rs)
3	MARBLE WORK					
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	28.00	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	0.88	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	150x10 mm	38.00	each			

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ITEM No	SUB-HEADS AND ITEM OF WORK	QUANTITY	UNIT	RATE (Rs)	RATE (In Words)	AMOUNT(Rs)
4.3	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.					
4.3.1	With decorative veneering on one side and commercial veneering on other side	103.00	sqm			
	Sub-Total					
5	<b>FINISHING</b>					
5.1	12 mm cement plaster of mix :					
5.1.1	1:6 (1 cement: 6 fine sand)	165.00	sqm			
5.2	15 mm cement plaster on the rough side of single or half brick wall of mix :					
5.2.1	1:6 (1 cement: 6 fine sand)	164.00	sqm			
5.3	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade :					
5.3.1	Two or more coats on new work	710.00	sqm			
	Sub-Total					
6	<b>REPAIRS TO BUILDINGS</b>					
6.1	White washing with lime to give an even shade :					
6.1.1	Old work (one or more coats)	371.00	sqm			

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ITEM No	SUB-HEADS AND ITEM OF WORK	QUANTITY	UNIT	RATE (Rs)	RATE (In Words)	AMOUNT(Rs)
6.2	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	710.00	sqm			
6.3	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :					
6.3.1	One or more coats on old work	210.00	sqm			
6.4	Finishing walls with water proofing cement paint of required shade :					
6.4.1	Old work (one or more coats @ 2.20 kg/10 sqm) complete.	190.00	sqm			
	Sub-Total					
7	DISMANTLING & DEMOLISHING					
7.1	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.					
7.1.1	In cement mortar	20.00	cum			
7.2	Taking out doors, windows and clerestory window shutters (steel or wood) including stacking within 50 metres lead :					
7.2.1	Of area beyond 3 sq. metres	18.00	each			
7.3	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.	20.00	cum			
	Sub-Total					
8	SANITARY INSTALLATIONS					

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ITEM No	SUB-HEADS AND ITEM OF WORK	QUANTITY	UNIT	RATE (Rs)	RATE (In Words)	AMOUNT(Rs)
8.1	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 :					
8.1.1	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	3.00	each			
8.2	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 :					
8.2.1	W.C. pan with ISI marked black solid plastic seat and lid	3.00	each			
8.3	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350 mm and 340x410x265 mm sizes respectively with automatic flushing cistern with standard flush pipe and C.P. brass spreaders with brass unions and G.I clamps complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required :					
8.3.1	One urinal basin with 5 litre white P.V.C. automatic flushing cistern	6.00	each			
8.4	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 :					
8.4.1	White Vitreous China Wash basin size 630x450 mm with a single 15 mm C.P. brass pillar tap	12.00	each			
8.5	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.					

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ITEM No	SUB-HEADS AND ITEM OF WORK	QUANTITY	UNIT	RATE (Rs)	RATE (In Words)	AMOUNT(Rs)
8.5.1	Flexible pipe					
8.5.1.1	32 mm dia	18.00	each			
8.6	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 :					
8.6.1	Rectangular shape 453x357 mm	6.00	each			
	Sub-Total					
9	WATER SUPPLY					
9.1	Providing and fixing uplasticised PVC connection pipe with brass unions :					
9.1.1	45 cm length					
9.1.1.1	15 mm nominal bore	18.00	each			
9.2	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work) :					
9.2.1	25 mm nominal bore	2.00	each			
9.3	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 :					
9.3.1	15 mm nominal bore	6.00	each			
9.4	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931.					
9.4.1	15 mm nominal bore	12.00	each			

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ITEM No	SUB-HEADS AND ITEM OF WORK	QUANTITY	UNIT	RATE (Rs)	RATE (In Words)	AMOUNT
9.5	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931 a) 15 mm nominal bore					
9.5.1	15mm nominal bore	18.00	each			
9.6	Providing and fixing PTMT grating of approved quality and colour.					
9.6.1	Circular type					
9.6.1.1	100 mm nominal dia	12.00	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	24.00	Cum			
10.2	Providing and fixing the 38 mm thick cuddapa slab including the cost of all materials and labour charges, conveyance etc.	27.00	Sqm			
	Sub-Total					
	Total					

Signature of Contractor

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## SCHEDULE OF WORK

**Name of Work: Providing Cement concrete flooring at entrance pathway of Agate, Coral, Diamond, Lapis, Pearl, Ruby, Sapphire and Topaz Hostels.**

ITEM No	SUB-HEADS AND ITEM OF WORK	QTY	UNIT	RATE (Rs)	RATE (In Words)	AMOUNT(Rs)
1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering	3.00	cum			
1.1	1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size)					
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).	600.00	metre			
3	Structural steel work in single section, fixed with or without connecting plate, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	150.00	Kg			
4	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.					
4.1	40 mm thick with 20 mm nominal size stone aggregate	1200.00	sqm			
5	Providing and fixing glass strips in joints of terrazo/ cement concrete floors.	500.00	metre			

6	12 mm cement plaster of mix :					
6.1	1:6 (1 cement: 6 fine sand)	100.00	sqm			
7	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge.					
7.1	Nominal concrete 1:4:8 or leaner mix (i/c equivalent design mix)	58.00	cum			
8	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.	58.00	cum			
9	Repairing the existing entrance MS gate of hostel and refixing the same in proper position with necessary civil works. Rate including removing the gate with hinges and repairing the gate and its parts wherever necessary and refixing the gate to pillar etc complete as per the direction of Engineer-in-charge.	9.00	job			
<b>TOTAL</b>						

Signature of Contractor

## SCHEDULE OF WORK

**Name of Work:** Internal painting to Amber-A Hostel.

ITEM No	SUB-HEADS AND ITEM OF WORK	QTY	UNIT	RATE (Rs)	RATE (In Words)	AMOUNT(Rs)
1	White washing with lime to give an even shade :					
1.1	Old work (one or more coats)	5100.00	sqm			
2	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :					
2.1	One or more coats on old work	5500.00	sqm			
3	Distemping with 1st quality acrylic washable distemper (ready made) of approved manufacturer and of required shade and colour complete. as per manufacturer's specification.					
3.1	One or more coats on old work	17500.00	sqm			
	<b>TOTAL</b>					

**Signature of Contractor**

### SCHEDULE OF WORK

**Name of Work: Repairs and renovation works to Qts. No.10/5,10/8 & 12/3 (Total-3 Qts)**

ITEM No	SUB-HEADS AND ITEM OF WORK	QTY	UNIT	RATE (Rs)	RATE (In Words)	AMOUNT(Rs)
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	1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size)	2	cum			
2	STEEL WORK					
2.1	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.					
2.1.1	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	260	kg			
3	FLOORING					
3.1	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.					
3.1.1	40 mm thick with 20 mm nominal size stone aggregate	100	sqm			

4	ROOFING					
4.1	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.	250	sqm			
4.2	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes.					
4.2.1	110 mm diameter	12	metre			
4.3	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion.					
4.3.1	Bend 87.5°					
4.3.1.1	110 mm bend	6	each			
4.3.2	Shoe (Plain)					
4.3.2.1	110 mm Shoe	6	each			

4.4	Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length, including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete.					
4.4.1	110 mm	9	each			
5	FINISHING					
5.1	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface :					
5.1.1	Water thinnable cement primer	680	sqm			
6	REPAIRS TO BUILDINGS					
6.1	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 :					
6.1.1	With cement mortar 1:4 (1 cement : 4 fine sand)	20	sqm			
6.2	White washing with lime to give an even shade :					
6.2.1	Old work (one or more coats)	300	sqm			

6.3	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	680	sqm			
6.4	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :					
6.4.1	One or more coats on old work	280	sqm			
6.5	French spirit polishing :					
6.5.1	One or more coats on old work	45	sqm			
6.6	Distemping with 1st quality acrylic washable distemper (ready made) of approved manufacturer and of required shade and colour complete. as per manufacturer's specification.					
6.6.1	One or more coats on old work	680	sqm			
7	<b>DISMANTLING &amp; DEMOLISHING</b>					
7.1	Demolishing brick tile covering in terracing including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.	250	sqm			
7.2	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.	25	cum			



8	ROAD WORK				
8.1	Supplying at site :				
8.1.1	R.C.C. Standards post/ struts/rails/ pales of mix 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 12.5 mm nominal size) with wooden plugs or 6mm bar nibs wherever required as per direction of Engineer-in- charge (cost of earth works in excavation, concrete works in foundation to be paid separately).	0.1	cum		
9	SANITARY INSTALLATIONS				
9.1	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.				
9.1.1	Flexible pipe				
9.1.1.1	32 mm dia	2	each		
10	NIT MARKET RATE				
10.1	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	12	Mtr		
10.2	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 IS : 5382 leaving 10 mm gap for thermal expansion a) 75 mm dia PVC plain elbow (Finolex or equivalent make)	2	Each		
10.3	Providing and fixing on wall face Unplasticised - PVC moulded fittings/ accessories for	2	Each		

	Unplasticised Rigid PVC pipes conforming to IS : 13592 Type A including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion a) 75 mm dia PVC Door elbow (Finolex or equivalent make)					
10.4	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)	15	Each			
10.5	Providing and fixing G.I. chain link fabric fencing of required width in mesh size 50x50 mm including strengthening with 2 mm dia wire or nuts, bolts and washers as required complete as per the direction of Engineer-in-charge./ Made of G.I. wire of dia 2 mm	235	Sqm			
10.6	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.	270	Sq.M			
	<b>TOTAL</b>					

**Signature of Contractor**

## SCHEDULE OF WORK

**Name of Work: Repairs and renovation works to Qts.8/6,8/9,9/9,9/11,9/12,10/1 & 10/2 (Total- 7 Qts)**

ITEM No	SUB-HEADS AND ITEM OF WORK	QTY	UNIT	RATE (Rs)	RATE (In Words)	AMOUNT(Rs)
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	1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size)	1	cum			
1.2	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.	30	sqm			
2	REINFORCED CEMENT CONCRETE					
2.1	Providing, hoisting and fixing up to floor five level precast reinforced cement concrete in vertical & horizontal fins, individually or forming box louvers, setting in cement mortar 1:2 (1 cement : 2 coarse sand), including the cost of required centering, shuttering but excluding the cost of reinforcement, with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).	0.08	cum			
2.2	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.					

2.2.1	Thermo-Mechanically Treated bars	25	kilogram			
3	<b>BRICK WORK</b>					
3.1	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 :					
3.1.1	Cement mortar 1:4 (1 cement : 4 coarse sand)	0.3	cum			
3.2	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundations and plinth in :					
3.2.1	cement mortar 1:4 (1 cement : 4 coarse sand)	11.5	sqm			
3.3	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).	60	metre			
4	<b>MARBLE WORK</b>					
4.1	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.					
4.1.1	Granite of any colour and shade					
4.1.1.1	Area of slab over 0.50 sqm	1.5	sqm			
4.2	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.					
4.2.1	Granite work	3	metre			
5	WOOD AND P. V. C. WORK					
5.1	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 :					
5.1.1	250x10 mm	6	each			
5.2	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 :					
5.2.1	100 mm	10	each			

5.3	Providing and fixing to existing door frames.					
5.3.1	30 mm thick factory made Polyvinyl Chloride (PVC) door shutter made of styles and rails of a uPVC hollow section of size 60x30 mm and wall thickness 2 mm ( $\pm 0.2$ mm), with inbuilt decorative moulding edging on one side. 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 and stainless steel screws. The styles of the shutter reinforced by inserting galvanised M.S. tube of size 25x20 mm and 1 mm ( $\pm 0.1$ mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100x30 mm and 2 mm ( $\pm 0.2$ 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 ( $\pm 0.1$ 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.	4	sqm			
6	STEEL WORK					
6.1	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.					
6.1.1	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	1160	kg			

7	FLOORING					
7.1	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.					
7.1.1	40 mm thick with 20 mm nominal size stone aggregate	100	sqm			
8	ROOFING					
8.1	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.	390	sqm			
8.2	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes.					
8.2.1	110 mm diameter	12	metre			
8.3	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion.					
8.3.1	Bend 87.5°					
8.3.1.1	110 mm bend	6	each			
8.3.2	Shoe (Plain)					

8.3.2.1	110 mm Shoe	6	each			
8.4	Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length, including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete.					
8.4.1	110 mm	9	each			
9	FINISHING					
9.1	12 mm cement plaster of mix :					
9.1.1	1:4 (1 cement: 4 fine sand)	11	sqm			
9.2	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface :					
9.2.1	Water thinnable cement primer	1980	sqm			
10	REPAIRS TO BUILDINGS					
10.1	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 :					



10.1.1	With cement mortar 1:4 (1 cement : 4 fine sand)	20	sqm			
10.2	White washing with lime to give an even shade :					
10.2.1	Old work (one or more coats)	300	sqm			
10.3	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	1980	sqm			
10.4	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :					
10.4.1	One or more coats on old work	450	sqm			
10.5	French spirit polishing :					
10.5.1	One or more coats on old work	45	sqm			
10.6	Distempering with 1st quality acrylic washable distemper (ready made) of approved manufacturer and of required shade and colour complete. as per manufacturer's specification.					
10.6.1	One or more coats on old work	900	sqm			
10.7	Finishing walls with Acrylic Smooth exterior paint of required shade :					

10.7.1	Old work (Two or more coat applied @ 1.67 ltr/ 10 sqm) on existing cement paint surface	1080	sqm			
11	<b>DISMANTLING &amp; DEMOLISHING</b>					
11.1	Demolishing brick tile covering in terracing including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.	390	sqm			
11.2	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.	50	cum			
12	<b>R O A D W O R K</b>					
12.1	Supplying at site :					
12.1.1	R.C.C. Standards post/ struts/rails/ pales of mix 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 12.5 mm nominal size) with wooden plugs or 6mm bar nibs wherever required as per direction of Engineer-in- charge (cost of earth works in excavation, concrete works in foundation to be paid separately).	0.1	cum			
13	<b>SANITARY INSTALLATIONS</b>					
13.1	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 :					
13.1.1	W.C. pan with ISI marked black solid plastic seat and lid	1	each			
13.2	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.					
13.2.1	Flexible pipe					
13.2.1.1	32 mm dia	2	each			
14	WATER SUPPLY					
14.1	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 :					
14.1.1	25 to 40 mm nominal bore	1	each			
14.2	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :					
14.2.1	25 mm nominal bore	1	each			
14.3	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work) :					
14.3.1	25 mm nominal bore	1	each			

14.4	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.	2000	per litre			
14.5	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms.					
14.5.1	15 mm nominal bore	5	each			
14.6	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931 a) 15 mm nominal bore					
14.6.1	15mm nominal bore	3	each			
14.7	Providing and fixing PTMT grating of approved quality and colour.					
14.7.1	Circular type					
14.7.1.1	100 mm nominal dia	5	each			
14.8	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.					
14.8.1	25 mm nominal bore, 152mm long, weighing not less than 440 gms	1	each			

15	NIT MARKET RATE					
15.1	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. For 25mm to 40mm thick	1.1	Sq.Mtr			
15.2	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)	15	Each			
15.3	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	15	Mtr			
15.4	Providing and fixing G.I. chain link fabric fencing of required width in mesh size 50x50 mm including strengthening with 2 mm dia wire or nuts, bolts and washers as required complete as per the direction of Engineer-in-charge./ Made of G.I. wire of dia 2 mm	175	Sqm			
15.5	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	200	Sq.M			

	pointing the joints with white cement and matching pigments etc., complete.					
						<b>TOTAL</b>

**Signature of Contractor**

### SCHEDULE OF WORK

**Name of Work: Providing car shed to staff Qts.No.1/5,4/1,6/2,7/5,7/6,7/18,8/8,8/9, 9/6, 9/12, 10/1, 13/8,15/5,16/4 & 16/6**

**(Total = 15 Nos)**

ITEM No	SUB-HEADS AND ITEM OF WORK	QTY	UNIT	RATE (Rs)	RATE (In Words)	AMOUNT(Rs)
1	EARTH WORK					
1.1	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.					
1.1.1	All kinds of soil.	32	cum			
1.2	Supplying and filling in plinth with Jamuna sand under floors, including watering, ramming, consolidating and dressing complete.	29	cum			
2	CONCRETE WORK					
2.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :					
2.1.1	1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size)	34	cum			
3	BRICK WORK					

3.1	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 :					
3.1.1	Cement mortar 1:6 (1 cement : 6 coarse sand)	18	cum			
4	STEEL WORK					
4.1	Structural steel work in single section, fixed with or without connecting plate, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	2370	kg			
5	FLOORING					
5.1	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.					
5.1.1	40 mm thick with 20 mm nominal size stone aggregate	270	sqm			
6	ROOFING					
6.1	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	310	sqm			



	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.					
7	FINISHING					
7.1	12 mm cement plaster of mix :					
7.1.1	1:4 (1 cement: 4 fine sand)	82	sqm			
7.2	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :					
7.2.1	Two or more coats on new work	85	sqm			
	<b>TOTAL</b>					

**Signature of Contractor**

## SCHEDULE OF WORK

**Name of Work:** Internal painting to Amber-B Hostel.

ITEM No	SUB-HEADS AND ITEM OF WORK	QTY	UNIT	RATE (Rs)	RATE (In Words)	AMOUNT(Rs)
1	White washing with lime to give an even shade :	5100.00	sqm			
1.1	Old work (one or more coats)					
2	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :	5500.00	sqm			
2.1	One or more coats on old work					
3	Distempering with 1st quality acrylic washable distemper (ready made) of approved manufacturer and of required shade and colour complete. as per manufacturer's specification.	17500.00	sqm			
3.1	One or more coats on old work					
<b>TOTAL</b>						

**Signature of Contractor**

## SCHEDULE OF WORK

Name of Work : Laying vitrified floor tiles for Corridor(FF), drawing Hall & M Tech Class rooms.

ITEM	SUB-HEADS AND ITEM OF WORK	QUANTITY	UNIT	RATE (Rs)	RATE (In Words)	AMOUNT
1	FLOORING					
1.1	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS : 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), including grouting the joints with white cement and matching pigments etc., complete.					
1.1.1	Size of Tile 600x600 mm	550.00	sqm			
1.2	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), including grouting the joint with white cement & matching pigments etc. complete.					
1.2.1	Size of Tile 600x600 mm	35.00	sqm			
	Sub-Total					
	Total					

SIGNATURE OF CONTRACTOR