



NATIONAL INSTITUTE OF TECHNOLOGY TIRUCHIRAPPALLI – 620 015
ESTATE MAINTENANCE DEPARTMENT

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

TENDER NOTIFICATION

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

Date.16.07.2015.

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 27.07.2015**. The tender will be opened at **3.30. P.M on 27.07.2015** at Registrar Office, in the presence of tenders who choose to present.

Enq No.	Est Id. No	Name of work	Estimate cost Rs.	Earnest Money Rs.	Last date for Submission of the tenders	Tender cost
4.1	45	Repairs and renovation works to Qts.No.14-E/3,14-/4, 16/10, 16/13, 16/15,16/21 (Total= 6 Qts)	739349/-	14800/-	27.07.2015	Rs.150/-
4.2	46	Repairs and renovation works to Qts.No.16/30,16/37,16/41,16/42, 16/44, 16/47 & 16/48 (Total=7 Qts)	807835/-	16200/-	27.07.2015	Rs.150/-
4.3	47	Repairs and painting works to Qts.No.1-10 in 18'N' Street (Total = 10 Qts)	620726/-	12450/-	27.07.2015	Rs.150/-
4.4	48	Repairs and painting works to Qts.No. 1-18 in 19th street (Total -18Qts)	943252/-	18900/-	27.07.2015	Rs.150/-
4.5	49	Providing and fixing of chain link fencing to Quarters area (Total- 19 Qts)	632078/-	12650/-	27.07.2015	Rs.150/-
4.6	50	Repairs and renovation works to Qts.13-A/1,13-A/2,13-A/3,13-A/6 & 13-B/3	950127/-	19100/-	27.07.2015	Rs.150/-
4.7	51	Repairs and renovation works to 5/6,7/7,7/8,7/10,7/14,8/3,9/5,9/6 & 12/2.	947473/-	19000/-	27.07.2015	Rs.150/-
4.8	52	Repairs and Painting works to Qts.No.1-18 at 18th street (Total - 18Qts)	929642/-	18600/-	27.07.2015	Rs.150/-

4.9	53	Providing and Fixing Mosquito net to windows in rooms at Sapphire & Topaz Hostels	616170/-	12350/-	27.07.2015	Rs.150/-
-----	----	---	----------	---------	------------	----------

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

The tender document can be downloaded from this institute web site www.nitt.edu/home/others/tenders/. 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---
Chief of Works

SCHEDULE OF WORK

Name of Work: Repairs and renovation works to Qts.No.14-E/3,14-/4,16/10,16/13,16/15,16/21(Total= 6 Qts)

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.	7	cum			
1.2	Supplying and filling in plinth with Jamuna sand under floors, including watering, ramming, consolidating and dressing complete.	6	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 fine sand : 10 graded stone aggregate 40 mm nominal size)	9	cum			
3	BRICK WORK					
3.1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:					
3.1.1	Cement mortar 1:6 (1 cement : 6 coarse sand)	4	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)	8	sqm			
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	0.1	cum			
4.2	Providing and fixing in wall lining flat pressed three layer (medium density) particle board or graded wood Pre-laminated one side decorative lamination and other side balancing lamination Grade I, Type II, IS : 12823 marked, including priming coat on unexposed surface, with necessary fixing arrangement and screws etc. complete :					
4.2.1	18 mm thick	8	sqm			
4.3	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete :					
4.3.1	150x10 mm	12	each			
4.4	Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete :					
4.4.1	100 mm	20	each			

4.5	Providing and fixing to existing door frames.					
4.5.1	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 (± 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 (± 0.1 mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100x30 mm and 2 mm (± 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 (± 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.	15	sqm			
4.6	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.	37	metre			
5	STEEL WORK					
5.1	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.	580	kg			
6	FLOORING					
6.1	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.					
6.1.1	40 mm thick with 20 mm nominal size stone aggregate	250	sqm			
6.2	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.	30	sqm			
6.3	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			
7	R O O F I N G					
7.1	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.	60	sqm			
8	FINISHING					
8.1	12 mm cement plaster of mix :					

8.1.1	1:4 (1 cement: 4 fine sand)	20	sqm			
8.2	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface :					
8.2.1	Water thinnable cement primer	1100	sqm			
9	REPAIRS TO BUILDINGS					
9.1	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 :					
9.1.1	With cement mortar 1:4 (1 cement : 4 fine sand)	25	sqm			
9.2	Renewing glass panes, with putty and nails wherever necessary including racking out the old putty:					
9.2.1	Float glass panes of thickness 4 mm	5	sqm			
9.3	White washing with lime to give an even shade :					
9.3.1	Old work (one or more coats)	150	sqm			
9.4	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	1100	sqm			
9.5	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :					
9.5.1	One or more coats on old work	300	sqm			
9.6	Distemping with 1st quality acrylic washable distemper (ready made) of approved manufacturer and of required shade and colour complete. as per manufacturer's specification.					

9.6.1	One or more coats on old work	1100	sqm			
10	DISMANTLING & DEMOLISHING					
10.1	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge.					
10.1.1	Nominal concrete 1:4:8 or leaner mix (i/c equivalent design mix)	5	cum			
10.2	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.					
10.2.1	In cement mortar	5	cum			
10.3	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.	30	cum			
11	SANITARY INSTALLATIONS					
11.1	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 :					
11.1.1	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	1	each			
11.2	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.					
11.2.1	Flexible pipe					
11.2.1.1	32 mm dia	5	each			
11.2.1.2	40 mm dia	5	each			

11.3	Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing :					
11.3.1	Rectangular shape 453x357 mm	4	each			
11.4	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.					
11.4.1	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	4	each			
12	WATER SUPPLY					
12.1	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 :					
12.1.1	25 to 40 mm nominal bore	1	each			
12.2	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work) :					
12.2.1	25 mm nominal bore	3	each			
12.3	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms.					
12.3.1	15 mm nominal bore	10	each			
12.4	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					
12.4.1	15mm nominal bore	4	each			
12.5	Providing and fixing PTMT grating of approved quality and colour.					

12.5.1	Circular type					
12.5.1.1	100 mm nominal dia	4	each			
13	NIT MARKET RATE					
13.1	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	25	Sq.Mtr			
13.2	Providing and fixing of 75mm dia (Finolex or Avonplast-6kg/cm ²) 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			
13.3	Providing and fixing of 110mm dia (Finolex or Avonplast- 6kg/cm ²)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			
13.4	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)	4	Each			
13.5	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 Door elbow (Finolex or equivalent make)	4	Each			
13.6	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) 110 mm dia PVC plain elbow (Finolex or equivalent make)	4	Each			
13.7	Removing and refixing door shutters up to 0.90mx2.10m	15	Each			

	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)					
13.8	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	20	Mtr			
13.9	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.	200	Sq.M			
13.10	Providing and fixing of Caddapah sink of size 60x45x20cm,32 mm C.P. brass waste of standard pattern including 32 mm dia semi rigid PVC waste pipe etc and making good the walls wherever require	2	each			
						TOTAL

Signature of Contractor

SCHEDULE OF WORK

Name of Work: Repairs and renovation works to Qts.No.16/30,16/37,16/41,16/42, 16/44,16/47 & 16/48 (Total=7 Qts)

ITEM No	SUB-HEADS AND ITEM OF WORK	QTY	UNIT	RATE (Rs)	RATE (In Words)	AMOUNT(Rs)
1	EARTH WORK					
1.1	Supplying and filling in plinth with Jamuna sand under floors, including watering, ramming, consolidating and dressing complete.	1	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 fine sand : 10 graded stone aggregate 40 mm nominal size)	6	cum			
3	REINFORCED CEMENT CONCRETE					
3.1	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).	0.25	cum			
3.2	Centering and shuttering including strutting, propping etc. and removal of form for :					
3.2.1	Lintels, beams, plinth beams, girders, bressumers and cantilevers	2	sqm			
3.3	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).	1.5	cum			

3.4	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.					
3.4.1	Thermo-Mechanically Treated bars	65	kilogram			
4	BRICK WORK					
4.1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:					
4.1.1	Cement mortar 1:6 (1 cement : 6 coarse sand)	4	cum			
4.2	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundations and plinth in :					
4.2.1	cement mortar 1:4 (1 cement : 4 coarse sand)	20	sqm			
5	MARBLE WORK					
5.1	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.					
5.1.1	Granite of any colour and shade					
5.1.1.1	Area of slab over 0.50 sqm	13	sqm			
5.2	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.					
5.2.1	Granite work	25	metre			

6	WOOD AND P. V. C. WORK					
6.1	Providing and fixing glazed shutters for doors, windows and clerestory windows using 4 mm thick float glass panes, including ISI marked M.S. pressed butt hinges bright finished of required size with necessary screws.					
6.1.1	Second class teak wood					
6.1.1.1	30 mm thick	2	sqm			
6.2	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.					
6.2.1	30 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	4.5	sqm			
6.3	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete :					
6.3.1	150x10 mm	21	each			
6.4	Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete :					
6.4.1	100 mm	30	each			
6.5	Providing and fixing to existing door frames.					
6.5.1	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 (± 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	20	sqm			

	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.					
6.6	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.	40	metre			
	Sub-Total					
7	STEEL WORK					
7.1	Providing & fixing fly proof wire gauze to windows, clerestory windows & doors with M.S. Flat 15x3 mm and nuts & bolts complete.					
7.1.1	Galvanised M.S. Wire gauze with 0.63 mm dia wire and 1.4 mm aperture on both sides	5	sqm			
8	FLOORING					
8.1	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.					
8.1.1	40 mm thick with 20 mm nominal size stone aggregate	65	sqm			

8.2	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.	30	sqm			
8.3	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	sqm			
9	R O O F I N G					
9.1	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.	100	sqm			
9.2	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.					
9.2.1	110 mm diameter	12	metre			
9.3	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.					
9.3.1	Bend 87.5°					
9.3.1.1	110 mm bend	4	each			

9.3.2	Shoe (Plain)					
9.3.2.1	110 mm Shoe	4	each			
9.4	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.					
9.4.1	110 mm	4	each			
10	FINISHING					
10.1	12 mm cement plaster of mix :					
10.1.1	1:4 (1 cement: 4 fine sand)	25	sqm			
10.2	15 mm cement plaster on the rough side of single or half brick wall of mix :					
10.2.1	1:4 (1 cement: 4 fine sand)	35	sqm			
10.3	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface :					
10.3.1	Water thinnable cement primer	1750	sqm			
11	REPAIRS TO BUILDINGS					
11.1	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 :					
11.1.1	With cement mortar 1:4 (1 cement : 4 fine sand)	25	sqm			
11.2	Renewing glass panes, with putty and nails wherever necessary including racking out the old putty:					
11.2.1	Float glass panes of thickness 4 mm	5	sqm			

11.3	White washing with lime to give an even shade :					
11.3.1	Old work (one or more coats)	350	sqm			
11.4	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	1750	sqm			
11.5	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :					
11.5.1	One or more coats on old work	420	sqm			
11.6	Distemping with 1st quality acrylic washable distemper (ready made) of approved manufacturer and of required shade and colour complete. as per manufacturer's specification.					
11.6.1	One or more coats on old work	1750	sqm			
12	DISMANTLING & DEMOLISHING					
12.1	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge.					
12.1.1	Nominal concrete 1:4:8 or leaner mix (i/c equivalent design mix)	5	cum			
12.2	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.					
12.2.1	In cement mortar	10	cum			
12.3	Demolishing brick tile covering in terracing including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.	100	sqm			
12.4	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting,	30	cum			

	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.					
	Sub-Total					
13	SANITARY INSTALLATIONS					
13.1	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 :					
13.1.1	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	2	each			
13.2	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS : 13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required :					
13.2.1	Kitchen sink with drain board					
13.2.1.1	510x1040 mm bowl depth 250 mm	5	each			
13.3	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.					
13.3.1	Flexible pipe					
13.3.1.1	32 mm dia	5	each			
13.3.1.2	40 mm dia	5	each			
13.4	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 :					
13.4.1	Rectangular shape 453x357 mm	6	each			

13.5	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.					
13.5.1	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	6	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	3	each			
14.2	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work) :					
14.2.1	25 mm nominal bore	6	each			
14.3	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms.					
14.3.1	15 mm nominal bore	18	each			
14.4	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					
14.4.1	15mm nominal bore	6	each			
14.5	Providing and fixing PTMT grating of approved quality and colour.					
14.5.1	Circular type					
14.5.1.1	100 mm nominal dia	6	each			

14.6	Providing and fixing PTMT soap Dish Holder having length of 138mm, breadth 102mm, height of 75mm with concealed fitting arrangements, weighing not less than 106 gms.	4	each			
14.7	Providing and fixing unplasticised P.V.C. connection pipe with PTMT Nuts, collar and bush of approved quality and colour.					
14.7.1	15 mm nominal bore with 45 cm length	5	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	25	Sq.Mtr			
15.2	Providing and fixing of 75mm dia (Finolex or Avonplast-6kg/cm ²) 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	18	Mtr			
15.3	Providing and fixing of 110mm dia (Finolex or Avonplast- 6kg/cm ²)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	18	Mtr			
15.4	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)	4	Each			
15.5	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 Door elbow (Finolex or equivalent make)	4	Each			

15.6	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) 110 mm dia PVC plain elbow (Finolex or equivalent make)	4	Each			
15.7	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)	14	Each			
15.8	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	30	Mtr			
15.9	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 complete as directed by the Engineer incharge:	180	Sqm			
15.10	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.	180	Sq.M			
						TOTAL

Signature of Contractor

SCHEDULE OF WORK

Name of Work: Repairs and painting works to Qts.No.1-10 in 18'N' Street (Total = 10 Qts)

ITEM No	SUB-HEADS AND ITEM OF WORK	QTY	UNIT	RATE (Rs)	RATE (In Words)	AMOUNT(Rs)
1	BRICK WORK					
1.1	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundations and plinth in :					
1.1.1	cement mortar 1:4 (1 cement : 4 coarse sand)	6	sqm			
2	WOOD AND P. V. C. WORK					
2.1	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).					
2.1.1	Second class teak wood	0.1	cum			
2.2	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.					
2.2.1	30 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	40	sqm			
2.3	Providing and fixing aluminium sliding door 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 nuts and screws etc. complete :					
2.3.1	250x16 mm	20	each			

2.4	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 :					
2.4.1	250x10 mm	10	each			
2.4.2	150x10 mm	10	each			
2.5	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 :					
2.5.1	100 mm	40	each			
2.6	Providing and fixing to existing door frames.					
2.6.1	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 (± 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 (± 0.1 mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100x30 mm and 2 mm (± 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 (± 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.	20	sqm			
3	STEEL WORK					
3.1	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.					
3.1.1	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	200	kg			
4	FLOORING					
4.1	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.					
4.1.1	40 mm thick with 20 mm nominal size stone aggregate	100	sqm			
5	ROOFING					
5.1	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.					
5.1.1	110 mm diameter	36	metre			
5.2	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.					
5.2.1	Bend 87.5°					
5.2.1.1	110 mm bend	6	each			
5.2.2	Shoe (Plain)					
5.2.2.1	110 mm Shoe	6	each			

5.3	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.					
5.3.1	110 mm	6	each			
6	FINISHING					
6.1	12 mm cement plaster of mix :					
6.1.1	1:4 (1 cement: 4 fine sand)	20	sqm			
6.2	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface :					
6.2.1	Water thinnable cement primer	3300	sqm			
7	REPAIRS TO BUILDINGS					
7.1	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq. meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground within 50 metres lead :					
7.1.1	With cement mortar 1:4 (1 cement : 4 fine sand)	50	sqm			
7.2	Renewal of old putty of glass panes (length)	225	metre			
7.3	White washing with lime to give an even shade :					
7.3.1	Old work (one or more coats)	400	sqm			

7.4	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	3300	sqm			
7.5	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :					
7.5.1	One or more coats on old work	200	sqm			
7.6	Distempering with 1st quality acrylic washable distemper (ready made) of approved manufacturer and of required shade and colour complete. as per manufacturer's specification.					
7.6.1	One or more coats on old work	1900	sqm			
7.7	Finishing walls with Acrylic Smooth exterior paint of required shade :					
7.7.1	Old work (One or more coat applied @ 0.90 ltr/10 sqm).	1400	sqm			
8	DISMANTLING & DEMOLISHING					
8.1	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			
9	WATER SUPPLY					
9.1	Providing and fixing brass bib cock of approved quality :					
9.1.1	15 mm nominal bore	30	each			
9.2	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.					

9.2.1	25 mm nominal bore, 152mm long, weighing not less than 440 gms	6	each			
10	NIT MARKET RATE					
10.1	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	20	Sq.Mtr			
10.2	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 complete as directed by the Engineer incharge:	400	Sqm			
10.3	Providing and fixing of Caddapah sink of size 60x45x20cm,32 mm C.P. brass waste of standard pattern including 32 mm dia semi rigid PVC waste pipe etc and making good the walls wherever require	5	each			
	TOTAL					

Signature of Contractor

SCHEDULE OF WORK

Name of Work: Repairs and painting works to Qts.No. 1-18 in 19th street (Total -18Qts)

ITEM No	SUB-HEADS AND ITEM OF WORK	QTY	UNIT	RATE (Rs)	RATE (In Words)	AMOUNT(Rs)
1	EARTH WORK					
1.1	Supplying and filling in plinth with Jamuna sand under floors, including watering, ramming, consolidating and dressing complete.	1	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 fine sand : 10 graded stone aggregate 40 mm nominal size)	2	cum			
3	REINFORCED CEMENT CONCRETE					
3.1	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 :					
3.1.1	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	0.3	cum			
3.2	Centering and shuttering including strutting, propping etc. and removal of form for :					
3.2.1	Lintels, beams, plinth beams, girders, bressumers and cantilevers	4	sqm			
3.3	Providing, hoisting and fixing up to floor five level precast reinforced cement concrete in vertical & horizontal fins, individually or forming box louvers,	2	cum			

	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).					
3.4	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.					
3.4.1	Thermo-Mechanically Treated bars	65	kilogram			
4	BRICK WORK					
4.1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:					
4.1.1	Cement mortar 1:6 (1 cement : 6 coarse sand)	2	cum			
4.2	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 :					
4.2.1	Cement mortar 1:4 (1 cement : 4 coarse sand)	3	cum			
4.3	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundations and plinth in :					
4.3.1	cement mortar 1:4 (1 cement : 4 coarse sand)	32	sqm			
5	WOOD AND P. V. C. WORK					
5.1	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 :					
5.1.1	100 mm	40	each			

5.2	Providing and fixing to existing door frames.					
5.2.1	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 (± 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 (± 0.1 mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100x30 mm and 2 mm (± 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 (± 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.	39	sqm			
6	FLOORING					
6.1	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.					
6.1.1	40 mm thick with 20 mm nominal size stone aggregate	195	sqm			
6.2	Providing and fixing Ist 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.	20	sqm			

6.3	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	sqm			
7	R O O F I N G					
7.1	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.	450	sqm			
7.2	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.					
7.2.1	110 mm diameter	36	metre			
7.3	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.					
7.3.1	Shoe (Plain)					
7.3.1.1	110 mm Shoe	2	each			
7.4	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.					
7.4.1	110 mm	4	each			

8	FINISHING					
8.1	12 mm cement plaster of mix :					
8.1.1	1:4 (1 cement: 4 fine sand)	30	sqm			
8.2	15 mm cement plaster on the rough side of single or half brick wall of mix :					
8.2.1	1:4 (1 cement: 4 fine sand)	12	sqm			
8.3	20 mm cement plaster of mix :					
8.3.1	1:4 (1 cement: 4 coarse sand)	10	sqm			
8.4	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface :					
8.4.1	Water thinnable cement primer	3420	sqm			
9	REPAIRS TO BUILDINGS					
9.1	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 :					
9.1.1	With cement mortar 1:4 (1 cement : 4 fine sand)	60	sqm			
9.2	White washing with lime to give an even shade :					
9.2.1	Old work (one or more coats)	630	sqm			
9.3	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	3420	sqm			
9.4	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :					

9.4.1	One or more coats on old work	270	sqm			
9.5	Distemping with 1st quality acrylic washable distemper (ready made) of approved manufacturer and of required shade and colour complete. as per manufacturer's specification.					
9.5.1	One or more coats on old work	3420	sqm			
9.6	Finishing walls with Acrylic Smooth exterior paint of required shade :					
9.6.1	Old work (One or more coat applied @ 0.90 ltr/10 sqm).	1320	sqm			
10	DISMANTLING & DEMOLISHING					
10.1	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.					
10.1.1	In cement mortar	12	cum			
10.2	Demolishing brick tile covering in terracing including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.	75	sqm			
10.3	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.	50	cum			
11	NIT MARKET RATE					
11.1	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.	35	Sq.Mtr			

	For 25mm to 40mm thick					
11.2	Dismantling the existing Kitchen chimney including disposal of rubbish to the dumping ground within 50 metres lead etc complete as directed by the Engineer -in - charge.	14	Job			
11.3	Providing and fixing of Caddapah sink of size 60x45x20cm,32 mm C.P. brass waste of standard pattern including 32 mm dia semi rigid PVC waste pipe etc and making good the walls wherever require	14	each			
	TOTAL					

Signature of Contractor

SCHEDULE OF WORK

Name of Work: Providing and Fixing of chain link fencing to Quarters area (Total- 19 Qts)

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.	8	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)	8	cum			
3	ROAD WORK					
3.1	Supplying at site :					
3.1.1	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).	4.5	cum			

4	NIT MARKET RATE					
4.1	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	2100	Sqm			
	TOTAL					

Signature of Contractor

SCHEDULE OF WORK

Name of Work: Repairs and renovation works to Qts.13-A/1,13-A/2,13-A/3,13-A/6 & 13-B/3

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)	5	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.	50	sqm			
2	BRICK WORK					
2.1	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 :					
2.1.1	Cement mortar 1:4 (1 cement : 4 coarse sand)	1	cum			
2.2	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundations and plinth in :					
2.2.1	cement mortar 1:4 (1 cement : 4 coarse sand)	20	sqm			
2.3	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	100	metre			

	mortar 1:4 (1 cement : 4 fine sand).					
3	WOOD AND P. V. C. WORK					
3.1	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).					
3.1.1	Second class teak wood	0.2	cum			
3.2	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.					
3.2.1	30 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	4	sqm			
3.3	Providing and fixing in wall lining flat pressed three layer (medium density) particle board or graded wood Pre-laminated one side decorative lamination and other side balancing lamination Grade I, Type II, IS : 12823 marked, including priming coat on unexposed surface, with necessary fixing arrangement and screws etc. complete :					
3.3.1	25 mm thick	15	sqm			
3.4	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 :					
3.4.1	250x10 mm	10	each			
3.4.2	150x10 mm	10	each			

3.5	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 :					
3.5.1	100 mm	20	each			
3.6	Providing and fixing to existing door frames.					
3.6.1	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 (± 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 (± 0.1 mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100x30 mm and 2 mm (± 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 (± 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.	14	sqm			
4	STEEL WORK					
4.1	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.					
4.1.1	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	1250	kg			
4.2	Providing & fixing fly proof wire gauze to windows, clerestory windows & doors with M.S. Flat 15x3 mm and nuts & bolts complete.					

4.2.1	Galvanised M.S. Wire gauze with 0.63 mm dia wire and 1.4 mm aperture on both sides	3	sqm			
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	100	sqm			
5.2	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	15	sqm			
5.3	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), including pointing the joints with white cement and matching pigment etc., complete.	5	sqm			
6	ROOFING					
6.1	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.					
6.1.1	110 mm diameter	12	metre			
6.2	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.					
6.2.1	Bend 87.5°					
6.2.1.1	110 mm bend	3	each			
6.2.2	Shoe (Plain)					
6.2.2.1	110 mm Shoe	3	each			
6.3	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.					
6.3.1	110 mm	6	each			
7	FINISHING					
7.1	12 mm cement plaster of mix :					
7.1.1	1:4 (1 cement: 4 fine sand)	20	sqm			
7.2	15 mm cement plaster on the rough side of single or half brick wall of mix :					
7.2.1	1:4 (1 cement: 4 fine sand)	30	sqm			
7.3	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface :					
7.3.1	Water thinnable cement primer	1625	sqm			
8	REPAIRS TO BUILDINGS					
8.1	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 :					
8.1.1	With cement mortar 1:4 (1 cement : 4 fine sand)	50	sqm			
8.2	Renewing glass panes, with putty and nails wherever necessary including racking out the old putty:					
8.2.1	Float glass panes of thickness 4 mm	4	sqm			
8.3	White washing with lime to give an even shade :					
8.3.1	Old work (one or more coats)	300	sqm			
8.4	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	1625	sqm			
8.5	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :					
8.5.1	One or more coats on old work	425	sqm			
8.6	Distemping with 1st quality acrylic washable distemper (ready made) of approved manufacturer and of required shade and colour complete. as per manufacturer's specification.					
8.6.1	One or more coats on old work	375	sqm			
8.7	Finishing walls with Acrylic Smooth exterior paint of required shade :					
8.7.1	Old work (Two or more coat applied @ 1.67 ltr/ 10 sqm) on existing cement paint surface	850	sqm			

9	DISMANTLING & DEMOLISHING					
9.1	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.	10	cum			
10	SANITARY INSTALLATIONS					
10.1	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 :					
10.1.1	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	1	each			
10.2	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 :					
10.2.1	W.C. pan with ISI marked black solid plastic seat and lid	3	each			
10.3	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 :					
10.3.1	White Vitreous China Wash basin size 550x400 mm with a pair of 15 mm C.P. brass pillar taps	2	each			
10.4	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.					

10.4.1	10 litre capacity - White	4	each			
10.5	Providing and fixing solid plastic seat with lid for pedestal type W.C. pan complete :					
10.5.1	White solid plastic seat with lid	2	each			
10.6	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.					
10.6.1	Flexible pipe					
10.6.1.1	32 mm dia	2	each			
10.7	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 :					
10.7.1	Rectangular shape 453x357 mm	2	each			
10.8	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.					
10.8.1	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	2	each			
11	WATER SUPPLY					
11.1	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 :					
11.1.1	25 to 40 mm nominal bore	1	each			
11.2	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work) :					

11.2.1	25 mm nominal bore	2	each			
11.3	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms.					
11.3.1	15 mm nominal bore	14	each			
11.4	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					
11.4.1	15mm nominal bore	5	each			
11.5	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.					
11.5.1	25 mm nominal bore, 152mm long, weighing not less than 440 gms	2	each			
11.6	Providing and fixing unplasticised P.V.C. connection pipe with PTMT Nuts, collar and bush of approved quality and colour.					
11.6.1	15 mm nominal bore with 45 cm length	6	each			
12	NIT MARKET RATE					
12.1	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	5	Sq.Mtr			
12.2	Providing and fixing of 75mm dia (Finolex or Avonplast-6kg/cm ²) Unplasticised Rigid PVC soil pipes conforming to IS : 13592 Type A including jointing with seal ring	12	Mtr			

	conforming to IS : 5382 leaving 10 mm gap for thermal expansion. (i) Single socketed pipes					
12.3	Providing and fixing of 110mm dia (Finolex or Avonplast- 6kg/cm2)Unplasticised Rigid PVC soil pipes conforming to IS : 13592 Type A including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion. (i) Single socketed pipes	6	Mtr			
12.4	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)	4	Each			
12.5	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 Door elbow (Finolex or equivalent make)	4	Each			
12.6	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) 110 mm dia PVC plain elbow (Finolex or equivalent make)	4	Each			
12.7	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)	18	Each			
12.8	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	30	Mtr			

12.9	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.	350	Sq.M			
	TOTAL					

Signature of Contractor

SCHEDULE OF WORK

Name of Work: Repairs and Renovation works to 5/6,7/7,7/8,7/10,7/14,8/3,9/5,9/6 & 12/2.

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)	2	cum			
2	BRICK WORK					
2.1	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 :					
2.1.1	Cement mortar 1:4 (1 cement : 4 coarse sand)	1	cum			
2.2	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundations and plinth in :					
2.2.1	cement mortar 1:4 (1 cement : 4 coarse sand)	6	sqm			
2.3	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).	50	metre			
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 over 0.50 sqm	4.5	sqm			
3.2	Providing edge moulding to 18 mm thick marble stone counters, Vanities etc., including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge.					
3.2.1	Granite work	7	metre			
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	0.1	cum			
4.2	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.					
4.2.1	30 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	2	sqm			
4.3	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete :					

4.3.1	250x10 mm	10	each			
4.3.2	150x10 mm	10	each			
4.4	Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete :					
4.4.1	100 mm	12	each			
4.5	Providing and fixing to existing door frames.					
4.5.1	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			
5	STEEL WORK					
5.1	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.					

5.1.1	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	1500	kg			
6	FLOORING					
6.1	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.					
6.1.1	40 mm thick with 20 mm nominal size stone aggregate	100	sqm			
6.2	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.	7	sqm			
6.3	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.	15	sqm			
7	ROOFING					
7.1	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.	35	sqm			
7.2	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.					
7.2.1	110 mm diameter	12	metre			
7.3	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.					
7.3.1	Bend 87.5°					
7.3.1.1	110 mm bend	2	each			
7.3.2	Shoe (Plain)					
7.3.2.1	110 mm Shoe	2	each			
7.4	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.					
7.4.1	110 mm	6	each			
8	FINISHING					
8.1	12 mm cement plaster of mix :					
8.1.1	1:4 (1 cement: 4 fine sand)	20	sqm			
8.2	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface :					
8.2.1	Water thinnable cement primer	1275	sqm			

9	REPAIRS TO BUILDINGS					
9.1	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 :					
9.1.1	With cement mortar 1:4 (1 cement : 4 fine sand)	30	sqm			
9.2	Raking out joints in lime or cement mortar and preparing the surface for re-pointing or replastering, including disposal of rubbish to the dumping ground within 50 metres lead.	265	sqm			
9.3	Flush pointing with cement mortar 1:3 (1 cement : 3 fine sand) mixed with 2% of integral water proofing compound by weight of cement for flat tile bricks on top of mud phaska :					
9.3.1	With F.P.S. brick tiles	265	sqm			
9.4	White washing with lime to give an even shade :					
9.4.1	Old work (one or more coats)	450	sqm			
9.5	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	1125	sqm			
9.6	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :					
9.6.1	One or more coats on old work	390	sqm			
9.7	Distempering with 1st quality acrylic washable distemper (ready made) of approved manufacturer and of required					

	shade and colour complete. as per manufacturer's specification.					
9.7.1	One or more coats on old work	1275	sqm			
9.8	Finishing walls with Acrylic Smooth exterior paint of required shade :					
9.8.1	Old work (Two or more coat applied @ 1.67 ltr/ 10 sqm) on existing cement paint surface	1125	sqm			
10	DISMANTLING & DEMOLISHING					
10.1	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.	30	cum			
11	SANITARY INSTALLATIONS					
11.1	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 :					
11.1.1	W.C. pan with ISI marked black solid plastic seat and lid	1	each			
11.2	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS : 13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required :					
11.2.1	Kitchen sink with drain board					
11.2.1.1	510x1040 mm bowl depth 250 mm	1	each			

11.3	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.					
11.3.1	10 litre capacity - White	2	each			
11.4	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.					
11.4.1	Flexible pipe					
11.4.1.1	32 mm dia	2	each			
11.4.1.2	40 mm dia	1	each			
11.5	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 :					
11.5.1	Rectangular shape 453x357 mm	2	each			
11.6	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.					
11.6.1	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	2	each			
12	WATER SUPPLY					
12.1	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			

12.2	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms.					
12.2.1	15 mm nominal bore	14	each			
12.3	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					
12.3.1	15mm nominal bore	2	each			
12.4	Providing and fixing unplasticised P.V.C. connection pipe with PTMT Nuts, collar and bush of approved quality and colour.					
12.4.1	15 mm nominal bore with 45 cm length	6	each			
13	NIT MARKET RATE					
13.1	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	5	Sq.Mtr			
13.2	Providing and fixing of 75mm dia (Finolex or Avonplast-6kg/cm ²) 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			
13.3	Providing and fixing of 110mm dia (Finolex or Avonplast- 6kg/cm ²)Unplasticised Rigid PVC soil pipes conforming to IS : 13592 Type A including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion. (i) Single socketed pipes	6	Mtr			

13.4	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)	4	Each			
13.5	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 Door elbow (Finolex or equivalent make)	4	Each			
13.6	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) 110 mm dia PVC plain elbow (Finolex or equivalent make)	4	Each			
13.7	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)	18	Each			
13.8	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			
13.9	Providing and fixing of CP Brass Health Faucet of approved quality and manufacture etc all complete as per the directions of Engineer-in-charge.	1	each			
13.10	Providing and fixing of CP brass Two in One tap of approved quality and manufacture etc all complete as per the directions of Engineer-in-charge.	1	each			

13.11	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.	360	Sq.M			
	TOTAL					

Signature of Contractor

SCHEDULE OF WORK

Name of Work: Repairs and Painting works to Qts.No.1-18 at 18th street

ITEM No	SUB-HEADS AND ITEM OF WORK	QTY	UNIT	RATE (Rs)	RATE (In Words)	AMOUNT(Rs)
1	EARTH WORK					
1.1	Supplying and filling in plinth with Jamuna sand under floors, including watering, ramming, consolidating and dressing complete.	1	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 fine sand : 10 graded stone aggregate 40 mm nominal size)	5	cum			
3	REINFORCED CEMENT CONCRETE					
3.1	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).	2	cum			
3.2	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.					
3.2.1	Thermo-Mechanically Treated bars	50	kilogram			
4	BRICK WORK					
4.1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:					

4.1.1	Cement mortar 1:6 (1 cement : 6 coarse sand)	2	cum			
4.2	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 :					
4.2.1	Cement mortar 1:4 (1 cement : 4 coarse sand)	2	cum			
4.3	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundations and plinth in :					
4.3.1	cement mortar 1:4 (1 cement : 4 coarse sand)	6	sqm			
5	WOOD AND P. V. C. WORK					
5.1	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).					
5.1.1	Second class teak wood	0.1	cum			
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	40	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	46	sqm			

	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 (± 0.1 mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100x30 mm and 2 mm (± 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 (± 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.					
6	FLOORING					
6.1	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.					
6.1.1	40 mm thick with 20 mm nominal size stone aggregate	150	sqm			
6.2	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.	20	sqm			
6.3	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	sqm			

7	ROOFING					
7.1	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.					
7.1.1	110 mm diameter	36	metre			
7.2	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.					
7.2.1	Shoe (Plain)					
7.2.1.1	110 mm Shoe	2	each			
7.3	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.					
7.3.1	110 mm	4	each			
8	FINISHING					
8.1	12 mm cement plaster of mix :					
8.1.1	1:4 (1 cement: 4 fine sand)	30	sqm			
8.2	15 mm cement plaster on the rough side of single or half brick wall of mix :					
8.2.1	1:4 (1 cement: 4 fine sand)	12	sqm			

8.3	20 mm cement plaster of mix :					
8.3.1	1:4 (1 cement: 4 coarse sand)	10	sqm			
8.4	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface :					
8.4.1	Water thinnable cement primer	4820	sqm			
9	REPAIRS TO BUILDINGS					
9.1	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 :					
9.1.1	With cement mortar 1:4 (1 cement : 4 fine sand)	50	sqm			
9.2	Raking out joints in lime or cement mortar and preparing the surface for re-pointing or replastering, including disposal of rubbish to the dumping ground within 50 metres lead.	500	sqm			
9.3	Flush pointing with cement mortar 1:3 (1 cement : 3 fine sand) mixed with 2% of integral water proofing compound by weight of cement for flat tile bricks on top of mud phaska :					
9.3.1	With F.P.S. brick tiles	500	sqm			
9.4	White washing with lime to give an even shade :					
9.4.1	Old work (one or more coats)	630	sqm			
9.5	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	4820	sqm			

9.6	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :					
9.6.1	One or more coats on old work	360	sqm			
9.7	Distempering with 1st quality acrylic washable distemper (ready made) of approved manufacturer and of required shade and colour complete. as per manufacturer's specification.					
9.7.1	One or more coats on old work	2880	sqm			
9.8	Finishing walls with Acrylic Smooth exterior paint of required shade :					
9.8.1	Old work (One or more coat applied @ 0.90 ltr/10 sqm).	4280	sqm			
10	DISMANTLING & DEMOLISHING					
10.1	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.					
10.1.1	In cement mortar	15	cum			
10.2	Demolishing brick tile covering in terracing including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.	75	sqm			
10.3	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.	50	cum			
11	WATER SUPPLY					
11.1	Providing and fixing brass bib cock of approved quality :					

11.1.1	15 mm nominal bore	40	each			
12	NIT MARKET RATE					
12.1	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	20	Sq.Mtr			
12.2	Dismantling the existing Kitchen chimney including disposal of rubbish to the dumping ground within 50 metres lead etc complete as directed by the Engineer -in - charge.	15	Job			
12.3	Providing and fixing of Caddapah sink of size 60x45x20cm,32 mm C.P. brass waste of standard pattern including 32 mm dia semi rigid PVC waste pipe etc and making good the walls wherever require	15	each			
						TOTAL

Signature of Contractor

SCHEDULE OF WORK

Name of Work: Providing and Fixing Mosquito net to windows in rooms at Sapphire & Topaz Hostels.

ITEM No	SUB-HEADS AND ITEM OF WORK	QTY	UNIT	RATE (Rs)	RATE (In Words)	AMOUNT(Rs)
1	EARTH WORK					
1.1	Providing and Fixing of Mosquito Net with 20mm width powder coated aluminum frame. The frame shall be two vertical and three horizontal. The shutter made of stainless steel materials and frame operated with mini fibre hinges and with fibre stopper for 3 sides etc complete. The rate including cost of all materials and labour charges etc complete.	470	sqm			
					TOTAL	

Signature of Contractor