

**NATIONAL INSTITUTE OF TECHNOLOGY, TIRUCHIRAPPLI- 620015**

**ESTATE MAINTENANCE DEPARTMENT**

**SCHEDULE OF WORK**

**Name of Work :** Renovation works to Qts.No.15/4,15/5,15/6,16/5,16/7,16/12,16/31 & 17/2 (Total-8 Nos)

**Ref :** NITT/ CoW/EMD/Civil Works/ En. No.23(6)/14-15 , Dt.19.12.2014

**NAME OF THE CONTRACTOR / FIRM :**

ITEM No	SUB-HEADS AND ITEM OF WORK	QTY	UNIT	RATE (Rs)	RATE (In Words)	AMOUNT(Rs)
1	<b>REINFORCED CEMENT CONCRETE</b>					
1.1	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).	1.00	cum			
1.2	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.	80.00	Kg			
1.2.1	Thermo-Mechanically Treated bars					
2	<b>BRICK WORK</b>					
2.1	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundations and plinth in :	20.00	sqm			
2.1.1	cement mortar 1:4 (1 cement : 4 coarse sand)					
3	<b>MARBLE WORK</b>					
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.	12.00	sqm			
3.1.1	Granite of any colour and shade					
3.1.1.1	Area of slab over 0.50 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.	40.00	metre			
3.2.1	Granite work					

ITEM No	SUB-HEADS AND ITEM OF WORK	QTY	UNIT	RATE (Rs)	RATE (In Words)	AMOUNT(Rs)
4	<b>WOOD AND P. V. C. WORK</b>					
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).	0.10	cum			
4.1.1	Second class teak wood					
4.2	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters :	4.00	sqm			
4.2.1	30 mm thick including ISI marked Stainless Steel butt hinges with necessary screws					
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	15.00	each			
4.3.2	150x10 mm	15.00	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 :	75.00	each			
4.4.1	100 mm					
4.5	Providing and fixing to existing door frames.					

ITEM No	SUB-HEADS AND ITEM OF WORK	QTY	UNIT	RATE (Rs)	RATE (In Words)	AMOUNT(Rs)
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.	15.00	sqm			
5	<b>FLOORING</b>					
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.	120.00	sqm			
5.1.1	40 mm thick with 20 mm nominal size stone aggregate					
5.2	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.	25.00	sqm			
6	<b>FINISHING</b>					
6.1	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface :	1800.00	sqm			
6.1.1	Water thinnable cement primer					

7	<b>REPAIRS TO BUILDINGS</b>					
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 :	50.00	sqm			
7.1.1	With cement mortar 1:4 (1 cement : 4 fine sand)					
7.2	Renewing glass panes, with putty and nails wherever necessary including racking out the old putty:	5.00	sqm			
7.2.1	Float glass panes of thickness 4 mm					
7.3	White washing with lime to give an even shade :	340.00	sqm			
7.3.1	Old work (one or more coats)					
7.4	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :	450.00	each			
7.4.1	One or more coats on old work					
7.5	Distemping with 1st quality acrylic washable distemper (ready made) of approved manufacturer and of required shade and colour complete. as per manufacturer's specification.	1800.00	sqm			
7.5.1	One or more coats on old work					
8	<b>SANITARY INSTALLATIONS</b>					
8.1	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 :	2.00	each			
8.1.1	White Vitreous China Wash basin size 550x400 mm with a pair of 15 mm C.P. brass pillar taps					

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8.2	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 :	4.00	EAch			
8.2.1	Kitchen sink with drain board					
8.2.1.1	510x1040 mm bowl depth 178 mm					
8.3	Providing and fixing white vitreous china water closet squatting pan (Indian type) :	2.00	EAch			
8.3.1	Long pattern W.C. pan of size 580 mm					
9	<b>WATER SUPPLY</b>					
9.1	Providing and fixing brass bib cock of approved quality :	18.00	each			
9.1.1	15 mm nominal bore					
10	<b>NIT MARKET RATE</b>					
10.1	Providing and fixing of 75mm 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	20.00	Mtr			
10.2	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	20.00	Mtr			
10.3	Providing and fixing on wall face Unplasticised - PVC moulded fittings/ accessories for Unplasticised Rigid PVC pipes conforming to IS : 13592 Type A including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion a) 75 mm dia PVC plain elbow (Finolex or equivalent make)	2.00	Each			
10.4	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 Door elbow (Finolex or equivalent make)	2.00	Each			

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10.5	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) 110 mm dia PVC Door elow (Finolex or equivalent make)	2.00	Each			
10.6	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)	24.00	Each			
10.7	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,Kajaria /NITCO or equivalent make, in all colours and shade,in skirting,riser of steps,laid on cement based high polymer modified quick-set tile adhesive (water based) conforming to IS:15477,USING 10Kg. adhesive per Sqm of tile area,in average 6mm thickness instead of 12mm thick Cement Mortar 1:3 (1 Cement : 3 Coarse sand), bedding in laying of wall Tiles etc., complete.	420.00	Sq.m			

**SIGNATURE OF CONTRACTOR**