

NATIONAL INSTITUTE OF TECHNOLOGY TIRUCHIRAPPALLI – 620 015

ESTATE MAINTENANCE DEPARTMENT

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

TENDER NOTIFICATION

Ref: NITT/EMD/ CoW/Civil works / 14-15

Date.27.02.2015

The **Chief of woks**, 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 17.03.2015**. The tender will be **opened at 3.30. P.M** on 17.03.2015 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
25.1	178	Repairs and renovation works to Qts.No.8/2,8/3,8/4,8/8,8/11 & 9/7 (Total – 6 Qts).	9,04,179/-	18,100/-	17.03.2015	Rs.150/-
25.2	179	Repairs and renovation works to Qts.No.7/4,7/7,7/8,7/9,7/15,7/18 & 7/26 (Total -7 qts).	9,42,579/-	18,900/-	17.03.2015	Rs.150/-
25.3	180	Repairs and renovation works to 1/1,1/4,1/5,1/6,1/7,2/4,4/1,4/3,4/5,5/3, 5/6,6/1 & 6/2 (Total – 13 qts).	9,51,194/-	19,100/-	17.03.2015	Rs.150/-
25.4	181	Additional cycle parking shed for Emerald Hostel.	6,58,089/-	13,200/-	17.03.2015	Rs.150/-
25.5	182	Providing & fixing Mosquito net to windows in rooms @ Lapis & Pearl Hostels.	5,30,955/-	10,700/-	17.03.2015	Rs.150/-
25.6	183	Replacing the existing bathrooms and toilet pipes to Amber-A&B, Aquamarine-A&B and Jasper Hostels.	9,43,454/-	18,900/-	17.03.2015	Rs.150/-
25.7	184	Development of Children's play space with play equipments at the Quarters ground at NITT.	7,77,430/-	15,600/-	17.03.2015	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 of Rs 150/-and the Earnest money should be enclosed along with tender schedule in the form of separate demand draft from any Nationalized bank drawn in favor of “The Director, NIT, Trichy-15”

-Sd- /Chief of Works

SCHEDULE OF WORK

Name of Work: Repairs and renovation works to Qts.No.8/2,8/3,8/4,8/8,8/11 & 9/7 (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	Supplying and filling in plinth with Jamuna sand under floors, including watering, ramming, consolidating and dressing complete.	1	cum			
	Sub-Total					
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	Providing, hoisting and fixing up to floor five level precast reinforced cement concrete in vertical & horizontal fins, individually or forming box louvers, setting in cement mortar 1:2 (1 cement : 2 coarse sand), including the cost of required centering, shuttering but excluding the cost of reinforcement, with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).	0.6	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 superstructure above plinth level up to floor V level in all shapes and sizes in :					
4.1.1	Cement mortar 1:4 (1 cement : 4 coarse sand)	1.5	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)	17	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	12	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	20	metre			
6	WOOD AND P. V. C. WORK					
6.1	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).					
6.1.1	Second class teak wood	0.1	cum			
6.2	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.					
6.2.1	Second class teak wood					
6.2.1.1	30 mm thick	2	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	250x10 mm	10	each			
6.3.2	150x10 mm	10	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 (\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	sqm			
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	16	metre			

	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.					
7	STEEL WORK					
7.1	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.					
7.1.1	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	370	kg			
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.	45	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	32	sqm			

	cement and matching pigment etc., complete.					
9	ROOFING					
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.	240	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	18	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	6	each			
9.3.2	Shoe (Plain)					
9.3.2.1	110 mm Shoe	6	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	9	each			
10	FINISHING					
10.1	12 mm cement plaster of mix :					

10.1.1	1:4 (1 cement: 4 fine sand)	40	sqm			
10.2	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface :					
10.2.1	Water thinnable cement primer	1140	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)	30	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)	450	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	1140	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	375	sqm			
11.6	French spirit polishing :					
11.6.1	One or more coats on old work	45	sqm			
11.7	Distemping with 1st quality acrylic washable distemper (ready made) of approved manufacturer and of required shade and colour complete. as per manufacturer's specification.					
11.7.1	One or more coats on old work	1140	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)	10	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	5	cum			
12.3	Demolishing brick tile covering in terracing including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.	240	sqm			
12.4	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.	25	cum			
13	ROAD WORK					
13.1	Supplying at site :					
13.1.1	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	0.15	cum			

	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).					
14	SANITARY INSTALLATIONS					
14.1	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 :					
14.1.1	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	3	each			
14.2	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 :					
14.2.1	W.C. pan with ISI marked black solid plastic seat and lid	3	each			
14.3	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.					
14.3.1	10 litre capacity - White	3	each			
14.4	Providing and fixing solid plastic seat with lid for pedestal type W.C. pan complete :					
14.4.1	White solid plastic seat with lid	2	each			
14.5	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings					

	complete.					
14.5.1	Flexible pipe					
14.5.1.1	32 mm dia	2	each			
14.5.1.2	40 mm dia	3	each			
14.6	Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing :					
14.6.1	Rectangular shape 453x357 mm	3	each			
14.7	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.					
14.7.1	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	3	each			
15	WATER SUPPLY					
15.1	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 :					
15.1.1	25 to 40 mm nominal bore	5	each			
15.2	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work) :					
15.2.1	25 mm nominal bore	4	each			
15.3	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms.					
15.3.1	15 mm nominal bore	9	each			
15.4	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931.					
15.4.1	15 mm nominal bore	3	each			
15.5	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality					

	conforming to IS:8931 a) 15 mm nominal bore					
15.5.1	15mm nominal bore	3	each			
15.6	Providing and fixing PTMT grating of approved quality and colour.					
15.6.1	Circular type					
15.6.1.1	100 mm nominal dia	3	each			
15.7	Providing and fixing unplasticised P.V.C. connection pipe with PTMT Nuts, collar and bush of approved quality and colour.					
15.7.1	15 mm nominal bore with 45 cm length	6	each			
16	NIT MARKET RATE					
16.1	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	7	Sq.Mtr			
16.2	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			
16.3	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			
16.4	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			
16.5	Providing and fixing on wall face Unplasticised - PVC moulded fittings/ accessories for	4	Each			

	Unplasticised Rigid PVC pipes conforming to IS : 13592 Type A including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion a) 75 mm dia PVC Door elbow (Finolex or equivalent make)					
16.6	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			
16.7	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)	15	Each			
16.8	Providing and fixing of 32mm diaUnplasticised 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			
16.9	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	110	Sqm			
16.10	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.	220	Sq.M			

16.11	Providing and fixing of Granite sink of size 60x60x20cm,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 etc., complete	3	Each			
	TOTAL					

Signature of the contractor

SCHEDULE OF WORK

Name of Work: Repairs and renovation works to Qts.No.7/4,7/7,7/8,7/9,7/15,7/18 & 7/26 (Total- 7Qts)

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.	0.4	cum			
1.2	Supplying and filling in plinth with Jamuna sand under floors, including watering, ramming, consolidating and dressing complete.	4	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)	9.5	cum			
2.2	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.	75	sqm			
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	2	cum			

	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).					
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	100	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)	1.1	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)	5.5	sqm			
4.3	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).	130	metre			
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	9	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	15	metre			
6	WOOD AND P. V. C. WORK					
6.1	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete :					
6.1.1	250x10 mm	10	each			
6.1.2	150x10 mm	10	each			
7	STEEL WORK					
7.1	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.					
7.1.1	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	570	kg			
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	190	sqm			
8.2	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-	42	sqm			

	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.					
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.	15	sqm			
9	ROOFING					
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.	110	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	9	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	3	each			
9.3.2	Shoe (Plain)					
9.3.2.1	110 mm Shoe	3	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	6	each			
10	FINISHING					
10.1	12 mm cement plaster of mix :					
10.1.1	1:4 (1 cement: 4 fine sand)	10	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)	15	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	1830	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)	20	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	1830	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	415	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	1035	sqm			
11.7	Finishing walls with Acrylic Smooth exterior paint of required shade :					
11.7.1	Old work (Two or more coat applied @ 1.67 ltr/ 10 sqm) on existing cement paint surface	795	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)	10	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	5	cum			
12.3	Demolishing brick tile covering in terracing including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.	110	sqm			
12.4	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.	35	cum			
13	ROAD WORK					
13.1	Supplying at site :					
13.1.1	R.C.C. Standards post/ struts/rails/ pales of mix 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 12.5 mm nominal size) with wooden plugs or 6mm bar nibs wherever required as per direction of Engineer-in- charge (cost of earth works in excavation, concrete works in foundation to be paid separately).	0.3	cum			
14	SANITARY INSTALLATIONS					
14.1	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 :					
14.1.1	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	2	each			
14.2	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 :					
14.2.1	W.C. pan with ISI marked black solid plastic seat and lid	1	each			
14.3	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 :					
14.3.1	Kitchen sink with drain board					
14.3.1.1	510x1040 mm bowl depth 250 mm	2	each			
14.4	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.					
14.4.1	10 litre capacity - White	2	each			
14.5	Providing and fixing solid plastic seat with lid for pedestal type W.C. pan complete :					
14.5.1	White solid plastic seat with lid	2	each			
14.6	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.					
14.6.1	Flexible pipe					
14.6.1.1	32 mm dia	2	each			
14.6.1.2	40 mm dia	1	each			

14.7	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 :					
14.7.1	Rectangular shape 453x357 mm	2	each			
14.8	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.					
14.8.1	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			
15	WATER SUPPLY					
15.1	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 :					
15.1.1	25 to 40 mm nominal bore	2	each			
15.2	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work) :					
15.2.1	25 mm nominal bore	4	each			
15.3	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms.					
15.3.1	15 mm nominal bore	10	each			
15.4	Providing and fixing PTMT grating of approved quality and colour.					
15.4.1	Circular type					
15.4.1.1	100 mm nominal dia	5	each			

15.5	Providing and fixing unplasticised P.V.C. connection pipe with PTMT Nuts, collar and bush of approved quality and colour.					
15.5.1	15 mm nominal bore with 45 cm length	5	each			
16	NIT MARKET RATE					
16.1	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	3	Sq.Mtr			
16.2	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	6	Mtr			
16.3	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			
16.4	Removing and refixing door shutters up to 0.90mx2.10m size including planing the top and bottom face up to 10mm including fixing with stainless steel screws etc., complete as directed by the Engineer -in -charge.(Cost of new hinges shall be paid separately wherever required)	15	Each			
16.5	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	10	Mtr			
16.6	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	302	Sqm			

	nuts, bolts and washers as required complete as per the direction of Engineer-in-charge./ Made of G.I. wire of dia 2 mm					
16.7	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, 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.	210	Sq.M			
	TOTAL					

Signature of the contractor

SCHEDULE OF WORK

Name of Work: Repairs and renovation works to Qts.No.1/1,1/4,1/5,1/6,1/7,2/4,4/1,4/3,4/5,5/3,5/6,6/1 & 6/2 (Total- 13 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.	1.1	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)	3.5	cum			
2.2	Making plinth protection 50 mm thick of cement concrete 1:3:6 (1 cement: 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including finishing the top smooth.	30	sqm			
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)	1	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)	42	sqm			

3.3	Brick edging 7cm wide 11.4 cm deep to plinth protection with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 including grouting with cement mortar 1:4 (1 cement : 4 fine sand).	100	metre			
4	MARBLE WORK					
4.1	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills , facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels.					
4.1.1	Granite of any colour and shade					
4.1.1.1	Area of slab over 0.50 sqm	9	sqm			
4.2	Providing edge moulding to 18 mm thick marble stone counters, Vanities etc., including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge.					
4.2.1	Granite work	20	metre			
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 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.					
5.2.1	Second class teak wood					
5.2.1.1	30 mm thick	1.1	sqm			
5.3	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.					
5.3.1	30 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	4.5	sqm			
5.4	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 :					
5.4.1	250x10 mm	10	each			
5.4.2	150x10 mm	10	each			
5.5	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 :					
5.5.1	100 mm	30	each			
5.6	Providing and fixing to existing door frames.					
5.6.1	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	10	sqm			

	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.					
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	240	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.	10	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,	30	sqm			

	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	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.	240	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	18	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	6	each			
7.3.2	Shoe (Plain)					
7.3.2.1	110 mm Shoe	6	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	9	each			
8	FINISHING					
8.1	12 mm cement plaster of mix :					
8.1.1	1:4 (1 cement: 4 fine sand)	15	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)	20	sqm			
8.3	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface :					
8.3.1	Water thinnable cement primer	2130	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	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	8	sqm			
9.3	White washing with lime to give an even shade :					

9.3.1	Old work (one or more coats)	475	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	2130	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	390	sqm			
9.6	French spirit polishing :					
9.6.1	One or more coats on old work	45	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	1280	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	850	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	Demolishing brick tile covering in terracing including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.	240	sqm			
10.4	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.	25	cum			
11	ROAD WORK					
11.1	Supplying at site :					
11.1.1	R.C.C. Standards post/ struts/rails/ pales of mix 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 12.5 mm nominal size) with wooden plugs or 6mm bar nibs wherever required as per direction of Engineer-in- charge (cost of earth works in excavation, concrete works in foundation to be paid separately).	0.4	cum			
12	SANITARY INSTALLATIONS					
12.1	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 :					
12.1.1	W.C. pan with ISI marked black solid plastic seat and lid	3	each			
12.2	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 :					
12.2.1	Kitchen sink with drain board					
12.2.1.1	510x1040 mm bowl depth 250 mm	1	each			
12.3	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.					
12.3.1	10 litre capacity - White	4	each			
12.4	Providing and fixing solid plastic seat with lid for pedestal type W.C. pan complete :					
12.4.1	White solid plastic seat with lid	2	each			
12.5	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.					
12.5.1	Flexible pipe					
12.5.1.1	32 mm dia	2	each			
12.5.1.2	40 mm dia	1	each			
12.6	Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing :					
12.6.1	Rectangular shape 453x357 mm	2	each			

12.7	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.					
12.7.1	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			
13	WATER SUPPLY					
13.1	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 :					
13.1.1	25 to 40 mm nominal bore	5	each			
13.2	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :					
13.2.1	25 mm nominal bore	4	each			
13.3	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work) :					
13.3.1	25 mm nominal bore	4	each			
13.4	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, ISI : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	8000	per litre			
13.5	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms.					
13.5.1	15 mm nominal bore	10	each			

13.6	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931 a) 15 mm nominal bore					
13.6.1	15mm nominal bore	6	each			
13.7	Providing and fixing PTMT grating of approved quality and colour.					
13.7.1	Circular type					
13.7.1.1	100 mm nominal dia	2	each			
13.8	Providing and fixing PTMT Ball cock of approved quality, colour and make complete with Epoxy coated aluminium rod with L.P./ H.P.H.D. plastic ball.					
13.8.1	25 mm nominal bore, 152mm long, weighing not less than 440 gms	4	each			
13.9	Providing and fixing unplasticised P.V.C. connection pipe with PTMT Nuts, collar and bush of approved quality and colour.					
13.9.1	15 mm nominal bore with 45 cm length	10	each			
14	D R A I N A G E					
14.1	Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design :					
14.1.1	100x100 mm size P type					
14.1.1.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	2	each			

14.2	Supplying and fixing C.I. cover 300x300 mm without frame for gully trap (standard pattern) the weight of cover to be not less than 4.5 kg	2	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	30	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	24	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	4	Each			

	thermal expansion a) 110 mm dia PVC plain elbow (Finolex or equivalent make)					
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)	5	Each			
15.8	Providing and fixing of 32mm diaUnplasticised 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	50	Mtr			
15.9	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	280	Sqm			
15.10	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.	1	Job			
15.11	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.	68	Sq.M			
						TOTAL

Signature of the contractor

SCHEDULE OF WORK

Name of Work: Additional cycle parking shed for Emerald Hostel.

ITEM No	SUB-HEADS AND ITEM OF WORK	QTY	UNIT	RATE (Rs)	RATE (In Words)	AMOUNT(Rs)
1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.	23.00	Cum			
1.1	All kinds of soil.					
2	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	75.00	Cum			
3	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	1.00	Cum			

4	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :					
4.1	1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size)	1.00	Cum			
5	Providing and laying cement concrete in kerbs, steps and the like at or near ground level excluding the cost of centering, shuttering and finishing.					
5.1	1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	6.00	Cum			
6	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 :	8.00	Cum			
6.1	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)					
7	Centering and shuttering including strutting, propping etc. and removal of form for :					
7.1	Foundations, footings, bases of columns, etc. for mass concrete	32.00	Sqm			

8	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level					
8.1	Cold twisted bars	200.00	Kg			
9	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete.	1500.00	Kg			
9.1	Hot finished welded type tubes					
10	Providing and fixing mild steel round holding down bolts with nuts and washer plates complete.	60.00	Kg			
11	Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %) total coated thickness with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be 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	160.00	Sqm			

	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.					
12	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :	80.00	Sqm			
12.1	Two or more coats on new work					
13	Providing and laying 60mm thick factory made cement concrete interlocking paver block of M - 30 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over and including 50mm thick compacted bed of coarse sand, filling the joints with fine sand etc. all complete as per the direction of Engineer-in-charge.	380.00	Sqm			
14	Supplying and stacking of good earth at site including royalty and carriage up to 1 km (earth measured in stacks will be reduced by 20% for payment).	75.00	Cum			
		TOTAL				

Signature of Contractor

SCHEDULE OF WORK

Name of Work: Providing & fixing Mosquito net to windows in rooms @ Lapis & Pearl Hostels.

Sl.No	Sub-Heads and Item of Work	Quantity	Unit	Rate (Rs)	Rate (In words)	Amount (Rs)
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.	405.00	Sqm			

Signature of Contractor

. SCHEDULE OF WORK

Name of Work: Replacing the existing bathrooms and toilet pipes to Amber-A&B, Aquamarine-A&B and Jasper Hostels.

Sl.No	Sub-Heads and Item of Work	Quantity	Unit	Rate (Rs)	Rate (In words)	Amount (Rs)
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.	1880.00	Metre			
1.1	75 mm diameter					
1.2	110 mm diameter	1116.00	Metre			
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.					

2.1	Coupler					
2.1.1	75 mm	60.00	Each			
2.1.2	110 mm	60.00	Each			
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.					
3.1	75 mm	50.00	Each			

3.2	110 mm	50.00	Each			
4	<p>Providing and fixing double scaffolding system (cup lock type) on the exterior side, up to seven story height made with 40 mm dia M.S. tube 1.5 m centre to centre, horizontal & vertical tubes joining with cup & lock system with M.S. tubes, M.S. tube challies, M.S. clamps and M.S. staircase system in the scaffolding for working platform etc. and maintaining it in a serviceable condition for the required duration as approved and removing it there after .The scaffolding system shall be stiffened with bracings, runners, connection with the building etc wherever required for inspection of work at required locations with essential safety features for the workmen etc. complete as per directions and approval of Engineer- in-charge .The elevational area of the scaffolding shall be measured for payment purpose .The payment will be made once irrespective of duration of scaffolding. Note: - This item to be used for maintenance work judiciously, necessary deduction for scaffolding in the existing item to be done.</p>	500.00	Sqm			
5	Dismantling C.I. or asbestos rain water pipe with fittings and clamps including stacking the material within 50 metres lead :					

5.1	75 to 80 mm dia pipe	1880.00	Metre			
5.2	100 mm dia pipe	1116.00	Metre			
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 S :5382 leaving 10mm gap for thermal expansion. (i) 75 mm dia PVC Door elbow (Finolex or equivalent make)	264.00	Each			
7	Providing and fixing PVC cowl to the PVC pipes etc complete as per the direction of Engineer-in-charge.					
7.1	75 mm Cowl	90.00	Each			

7.2	110 mm Cowl	42.00	Each			
8	Cutting holes upto 30x30 cm in walls including making good the same : with F.P.S. bricks.	200.00	Each			
9	Providing and fixing on wall face unplasticised-PVC moulded fittings/accessories for unplasticised Rigid PVC pipes conforming to IS :13592 Type A including jointing with seal ring conforming to S :5382 leaving 10mm gap for thermal expansion. (i) 75 mm dia PVC single door 'Y' (Finolex or equivalent make)	144.00	Each			
10.	Providing and fixing on wall face unplasticised-PVC moulded fittings/accessories for unplasticised Rigid PVC pipes conforming to IS :13592 Type A including jointing with seal ring conforming to S :5382 leaving 10mm gap for thermal expansion. (i) 75 mm dia PVC double door 'Y' (Finolex or equivalent make)	60.00	Each			

11	Providing and fixing on wall face unplasticised-PVC moulded fittings/accessories for unplasticised Rigid PVC pipes conforming to IS :13592 Type A including jointing with seal ring conforming to S :5382 leaving 10mm gap for thermal expansion. (i) 110 mm dia PVC single door 'Y' (Finolex or equivalent make)	55.00	Each			
12	Providing and fixing on wall face unplasticised-PVC moulded fittings/accessories for unplasticised Rigid PVC pipes conforming to IS :13592 Type A including jointing with seal ring conforming to S :5382 leaving 10mm gap for thermal expansion. (i) 110 mm dia PVC double door 'Y' (Finolex or equivalent make)	48.00	Each			
13	Providing and fixing on wall face unplasticised-PVC moulded fittings/accessories for unplasticised Rigid PVC pipes conforming to IS :13592 Type A including jointing with seal ring conforming to S :5382 leaving 10mm gap for thermal expansion. (i) 90 mm to 75mm dia PVC reducer (Finolex or equivalent make)	200.00	Each			
14	Providing and fixing on wall face unplasticised-PVC moulded fittings/accessories for unplasticised Rigid PVC pipes conforming to IS :13592 Type A including jointing with seal ring conforming to S :5382 leaving 10mm gap for thermal expansion. (i) 125 mm to 100 mm dia PVC reducer (Finolex or equivalent make)	200.00	Each			

15	Providing and fixing on wall face unplasticised-PVC moulded fittings/accessories for unplasticised Rigid PVC pipes conforming to IS :13592 Type A including jointing with seal ring conforming to S :5382 leaving 10mm gap for thermal expansion. (i) 110 mm door 'L' (Finolex or equivalent make)	168.00	Each			
TOTAL						

Signature of Contractor

NATIONAL INSTITUTE OF TECHNOLOGY TIRUCHIRAPPALLI
ESTATE MAINTENANCE DEPARTMENT
TIRUCHIRAPPALLI – 620 015

Tender No: NITT/EMD/...../2015

Name of Work : Development of Children's play space with play equipments at the
Quarter's ground at NITT.

Cost of Tender Schedule : Rs. 150/-

Earnest Money Deposit : Rs. 15600/-

Last Date and Time of Receipt : **Date: 17-03 - 2015**
Time: 3.00 P.M

Date and Time of Opening : **Date: 17-03 - 2015**
Time: 3.30 P.M

Certified that the tender document contains 17 (Seventeen) pages only and no alterations and additions have been made by me / us in the tender document.

Signature of the Contractor

NATIONAL INSTITUTE OF TECHNOLOGY TIRUCHIRAPPALLI

TIRUCHIRAPPALLI-620 015

Tender No: NITT/EMD/...../2015

On behalf of the Director, National Institute of Technology Tiruchirappalli, tenders are invited for **Development of Children' s play space with play equipments at the Quarter's ground at NIT, Tiruchirappalli** conforming to the specifications and scope of work given in Annexure-1 of this schedule.

1. The tender document can be downloaded from the Institute website (<http://www.nitt.edu/home/other/tenders/>). The tender document shall be submitted along with two demand drafts, one demand draft for **Rs.150/- drawn infavour of The Director, NITTiruchirappalli towards cost of tender schedule and the other demand draft for Rs.15600/- drawn in favour of The Director NIT Tiruchirappalli, Tiruchirappalli-15 towards Earnest Money Deposit (EMD)**. If you are in a position to quote in accordance with the requirements stated in the attached schedule, please submit your tender by specifying your rates in the space provided in the prescribed tender form itself along with demand drafts (obtained on or after the date of issue of tender).

2. Preparation of Tender:

- 2a. In the event of space on the schedule form being insufficient for the required purpose, you have to submit the rates in the letter head of your company clearly mentioning S.No. and other relevant particulars. Each such additional page must be numbered consecutively, bearing the Tender Number and be fully signed by you. In such cases reference to the additional pages must be made in the tender form.
- 2b. You should quote your rate only for our scope / specification requirements in the format issued.

3. Signing of Tender:

The Tender is liable to be rejected if complete information is not given therein or if the particulars and the date (if any) asked for in the schedule to the Tender are not fully filled in or not duly signed/authenticated. Specific attention is drawn to the delivery dates and important conditions referred to in Annexure enclosed herewith. Each page of the tender documents required to be signed and bears the official seal of the tenderers.

4. Delivery of Tender:

- 4a. The Original copy of the Tender is to be submitted in a single cover.
- 4b. The cover should be sealed and addressed to the Director, NITT

The tender cover should be sent to:	THE DIRECTOR NATIONAL INSTITUTE OF TECHNOLOGY TIRUCHIRAPPALLI TIRUCHIRAPPALLI-600 015
LAST DATE for receipt of Tender	17-03-2015 before 3.00 PM.

- 4c. The Tender Cover should be super scribed on the left hand side **"TENDERNo. NITT/EMD/...../2015"**.

4d. Tender which fails to comply with the above instructions is liable to be rejected.

4e. Tender should be sent either by REGISTERED POST WITH ACKNOWLEDGEMENT DUE OR THROUGH A MESSENGER. If the Tender is sent through a messenger, the same has to be dropped in the DISPATCH SECTION in the office of the Registrar (Administrative Building, NITTiruchirappalli) before 3.00 PM on the due date.

5. Opening of Tenders: You are at liberty to be present or authorize a representative to be present at the opening of the tender at the time and the date specified in the Schedule. Tenders will be opened on 17.03.2015 at 3.30pm in the administrative building of NITT

6. Validity: The tender rate should be kept valid for **Ninety (90) days** from the due date of submission thereof and not to make any modifications in terms and conditions.

7. Prices:

- 7a.** The prices quoted must be net per unit shown in the schedule and must include delivery charges and other statutory levies.
- 7b.** **The prices quoted by the Tenderer should be inclusive of Sales Tax / Service Tax /VAT and other statutory levies.**
- 7c.** **No price revision, changes in the scope / specification already given or changes in the terms and conditions etc during the contract period is acceptable.**

8. Terms of Delivery: **The complete scope of work defined in this tender document shall be completed by 90 days from the date of Work Order for inspection and verification by Institute authorities.**

9. Right of Acceptance: The National Institute of Technology, Tiruchirappalli-620 015 does not bind itself to accepting the whole or any part of the Tender or portion of the quantity offered.

10. Communication of Acceptance: Acceptance by the Institute will be communicated by Post, if required, and the Company's acceptance to be communicated to us formally in writing. The Institute shall not be responsible for the late receipt of tender documents due to postal and or any other delay.

In the event of the date of opening of tender being declared a closed holiday for the National Institute of Technology Tiruchirappalli the due date for opening will be in the following working day.

Annexure - 1

NATIONAL INSTITUTE OF TECHNOLOGY TIRUCHIRAPPALLI 620 015

ESTATE MAINTENANCE DEPARTMENT

Item No	Description of item	Unit	Quantity	Rate per unit in Rs (Figures & words)	Amount in Rs
1.	<p>Supply, fabrication transportation, erection and commissioning including concreting , fixing etc. with labour charges, for the following out door children's play equipment using</p> <p>a) pigments of UV resistance,</p> <p>b) ISO Naphthalene resins</p> <p>c) Chopped stranded fiber mat of BIS Standard</p> <p>d) painting all metal structures with high quality Poly Urethane (PU) coating so as to withstand extreme weather conditions</p> <p>e) GI pipes confirming to IS1239</p> <p>f) Steel components with BIS Standard</p> <p>g) Stainless steel components with 304 Grade,</p> <p>complying with relevant standard specifications all complete as directed by the NITT authorities including all taxes , Central all excise, VAT, any other discount if applicable, etc., with one full year Guarantee and five</p>				

	year warranty against any manufacturing defect and paid services shall be up to a minimum period of seven years after guarantee period.				
1.1	Circular Swing (FRP Seat) made of minimum 1½" Dia Galvanized 'B' Class pipe frame and 2" Dia Galvanized 'C' class pipe reinforced with 1½" Dia 'B' class GI pipe and FRP seat (Glass) within a place area of 15'x10' and product area of 10'x5' (Figure -1)	Each	1 No		
1.2	Duck Rider made of minimum 2" Dia Galvanized "C" class pipe leg with MS Spring within a play area of 5'x5' and product area of 3'x3' (Figure -2)	Each	1 No		
1.3	FRP Slide (Chute 8' Sliding Length) made of minimum 1-1/4" Dia Galvanized "B" Class pipe, ladder and FRP slide in 1 -1/4" Dia MS pipe bonding with height 6 1/2' within a play area of 5'x18' and product area of 2'x11' (Figure -3)	Each	1 No		
1.4	Flat Rotor made of minimum 16 Gauge GI sheet and MS angle platform within a product are of 7' Dia and product area of 5' x5' (Figure -4)	Each	1 No		
1.5	FRP Spiral Slide Senior made of minimum 1 1/4" Dia Galvanized "B" Class pipe ladder and FRP slide in 3" Dia GI pipe with bed	Each	1 No		

	leg of 2" Galvanized "C" class pipe and height of 6 1/2' within a play area of 8'x15' and product area of 6'x10' (Figure -5)				
1.6	Horse Rider made of minimum leg 2" Dia Galvanized "C" Class pipe and MS spring within a play area of 5"x5" and product area of 3'x3' (Figure -6)	Each	1 No		
1.7	Jungle Gym (7 ' High) made of minimum 1" and 1/2" Dia Galvanized 'B' class pipe within a play area of 7'x7' and product area of 5'x5' (Figure -7)	Each	1 No		
1.8	Kiddies Safe Rotor with FRP seat within a play area of 7' Dia and product area of 7' Dia (Figure -8)	Each	1 No		
1.9	Kids Fun station with components Roller slide 8'- 1No., Swing 2seater FRP - 1No., Spiral climber -1No., Hexagonal roof & bed -1No., spiral slide junior - 1No., Rope climber tent - 1No., Arch frame -1No., and leg 3" or 2-1/2" dia Galvanized "B'Class pipe, with Fibre roof (Glass Fibre) & Fibre bed (6 Layers) and 8mm Stainless Steel chain (Grade 304), Play bed height of 5' and total height of 14' within a play area of 30'x 26' and product area of 25' x 20'(Figure -9)	Each	1 No		

1.10	Merry Go Round 6 Seater (FRP Seat), 2-1/4' height made of minimum 3" Galvanised 'B' class pipe leg and FRP seat with 1 1/4"x1/4" MS Angle support within a play area of 9' Dia and product area of 6' Dia (Figure - 10)	Each	1 No		
1.11	Rope Climber Tent made of minimum 1- 1/2" Galvanized 'B' Class pipe within play area of 9' x 9' and product area 7' x7'(Figure -11)	Each	1 No		
1.12	See Saw 2 Seater (FRP Seat), 1-1/2' height & width 2' made of minimum 1-1/2" Galvanized 'B' Class pipe frame , 2" Dia Galvanized 'C' class pipe See-saw rail and FRP seat (Glass fibre) within a play area of 5' x 12' and product area of 2'x 10 (Figure -12)	Each	1 No		
1.13	Swing 4 Seater (FRP Seat), made of minimum 1-1/2" Galvanized B' Class pipe A-Frame, 2" Dia Galvanized 'C' Class pipe as top rail with FRP seats (6 Layer) and 8mmStainless Steel Chain (Grade 304) within a play area of 24' x15' and product area of 20'x 9' (Figure -13)	Each	1 No		
1.14	Twister, made of minimum 3" Dia Galvanized 'B' Class pipe within a play area of 5'x5' and product area of 5'x5' (Figure -14)	Each	1 No		
Total amount in Rs					

Total amount in words (Rs).....only

IMPORTANT NOTE:

1. All pages of tender documents should be filled in and returned duly signed.
2. All the above works should be completed within the time frame as given in S.No.8.
3. **Fax & E-mail quotations will not be accepted.**
4. Total inclusive price should be quoted in nearest Rupee.
5. After completion of the work, the place shall be neatly cleaned by the contractor. No debris / foreign materials will be allowed to be left inside the campus.
6. The contractor should familiarize himself with specification in the tender schedule and CPWD specifications as applicable to this work and Addenda and Corrigenda issued thereafter (verified and downloaded from Institute website only). In case there are no specifications for any item of work recommendations of the IS Code shall be applicable.

Signature of the Contractor

IMPORTANT CONDITIONS

The following instructions are to be followed meticulously FAILING WHICH YOUR OFFER WILL NOT BE CONSIDERED:

1. Please mention the TNGST/CST/VAT No and Area Code. All of your future correspondences including Invoices should bear the TNGST/CST/VAT No. and Area Code.
2. Quotations should be submitted in Wax Sealed Cover. The quotation should be duly filled in the space provided in the issued format only. Quotes given by the tenderers in their own format/letter heads will not be considered at all.

3. **Delivery Period:**

The delivery of item should be made only on receipt of purchase order from the Institute. The work should be completed within **the time schedule given in the S.No:8 of this document.** No extension of time will be allowed. Any delay beyond the time indicated above will be viewed seriously and EMD amount will be forfeited and further action will be taken for removing them from our future enquiry.

4. No Advance Payment will be made for the purchase/ work.

ANNEXURE -2

INSTRUCTIONS & SPECIAL CONDITIONS

(To be returned by Tenderer along with the Tender duly signed)

1. GENERAL:

Tenderer should furnish clear declaration as follows: We declare that I am/we are (tick appropriate sl. no.)

- i) An individual;
- ii) A proprietary;
- iii) A Firm in partnership;
- iv) A Limited Company or Corporation.

2. CONDITIONS OF CONTRACT:

Printed or cyclostyled of such terms and conditions of the tenderer, not appearing in the body of the tender will not be considered as forming part of the tender. Tenderer should quote on the basis of the conditions referred to in Para No.1 of the invitation to tender and tender papers.

3. PRICE:

- i) Prices must be in Rupees and Paisa.
 - ii) The unit prices should be for the same unit as indicated in the Schedule to tender enquiry and not for any other unit.
 - iii) Discount has to be indicated prominently in terms of percentage only.
- iv) **No price revision, changes in the specification will be entertained after the opening of the tender.**

4. TRANSIT AND ANY OTHER INSURANCE:

The Purchaser will not pay separately for transit and any other Insurance.

5. PAYMENT:

- i) Payment will be made only after completion of all works including erection of works and cleaning of venue to the entire satisfaction of the Institute authorities.
- ii) No Advance Payment will be made.

6. TENDERER SHALL SUBMIT ALONG WITH HIS TENDER:

- i) PAN No. of the company along with proof of PAN card.

- ii) Name and full address of the Banker and their swift code and other bank details.
- iii) Proof of having ISO or other equivalent certification, OEM (Original Equipment Manufacturers') Certificate or dealership Certificate given by appropriate authorities.
- iv) Proof of registration with sales tax /VAT authorities like registration/ TIN number, range etc., in clear terms.

7. SECURITY DEPOSIT:

Earnest Money Deposit (EMD)	Rs.15600/-(Rupees Fifteen thousand Six hundred only) in the form of demand draft drawn in favour of The Director, National Institute of Technology, Tiruchirappalli.
Security Deposit (With Held Amount)	2.50% will be deducted at the time of payment of Bills and refunded after one year after the completion of all works to the entire satisfaction of the Institute authorities.

EMD has to be paid along with the tender in the form of Demand Draft drawn in favour of The Director, National Institute of Technology Tiruchirappalli 620 015 payable at the State Bank of India, NIT Branch, Tiruchirappalli620 015. This Earnest Money will be returned to the unsuccessful tenderer after the final disposal of the tenders. EMD will not carry any interest. **The EMD will be retained in the case of successful tenderer. The EMD paid will be refunded only after the completion of all works to the entire satisfaction of the Institute authorities.** EMD will not be waived under any circumstances. EMD will be forfeited in the case of non-execution of the order within the due date. Non submission of EMD will lead to rejection of tender at the opening stage itself.

8. JURISDICTION:

All questions, disputes, or differences arising under, out of or in connection with the contract, if concluded, shall be subject to the Tiruchirappalli jurisdiction only.

9. ACKNOWLEDMENT

It is hereby acknowledged that we have gone through all the points listed in the main Pages No. **1 to 3**, those in the accompanying note on "Important Conditions" in Page No. **7**, and under "Instructions & Special Conditions" in Page No. **8 & 9** outlined above, and we agree to abide by them under the penalty of permanent disqualification for Tender participation and for related penal actions for non-compliance of the conditions.

Signature of the Contractor

FIGURE NOT TO SCALE

FIGURE 1

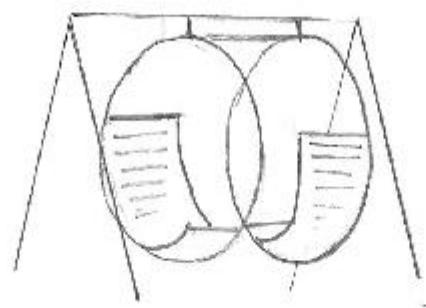


FIGURE 2

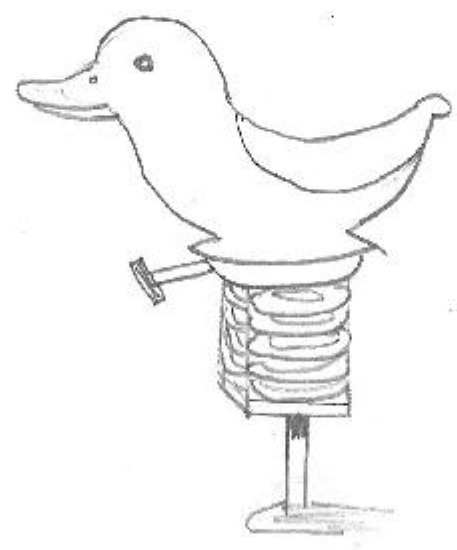


FIG. 3.



FIG. 4.

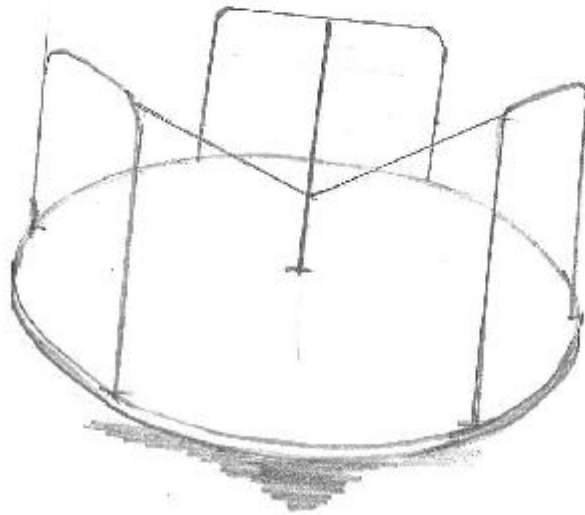


FIG. 5

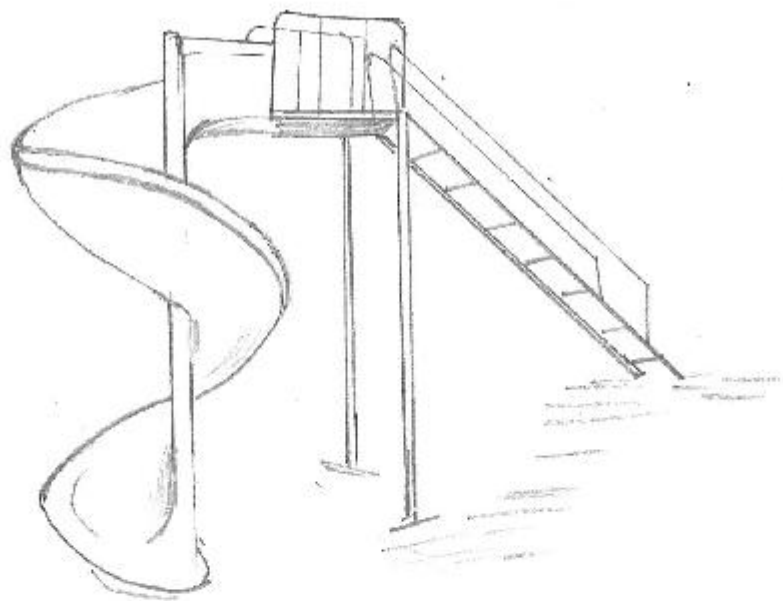
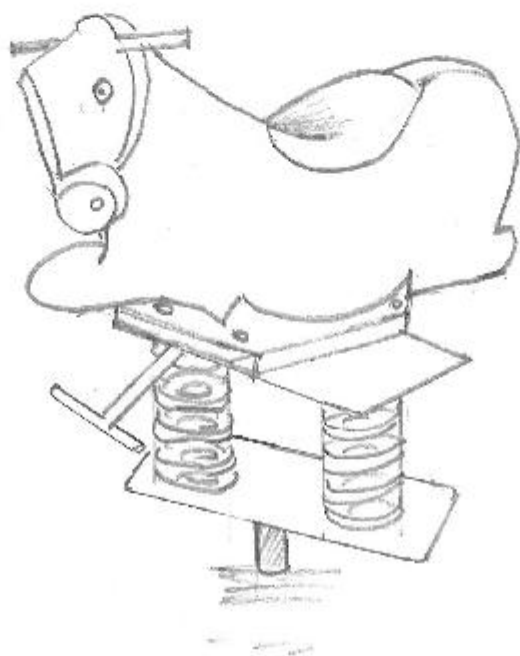


FIG. 6



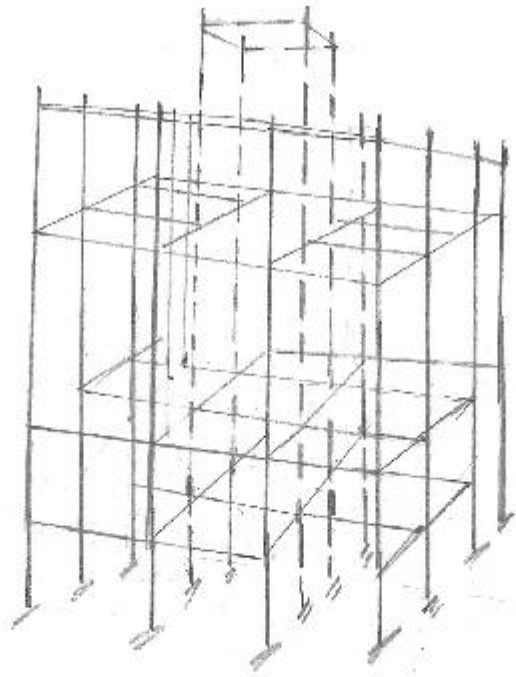


FIG. 7

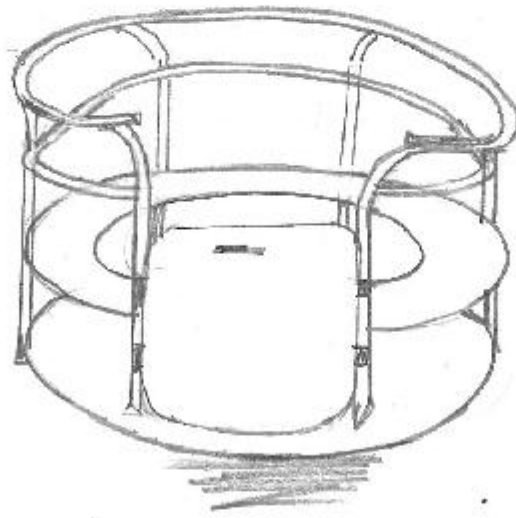


FIG. 8



FIG. 9

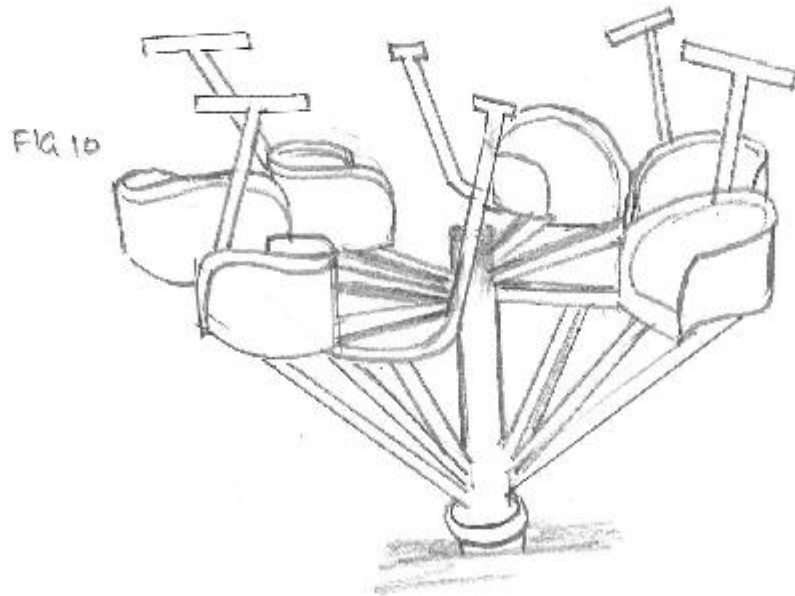


FIG. 10

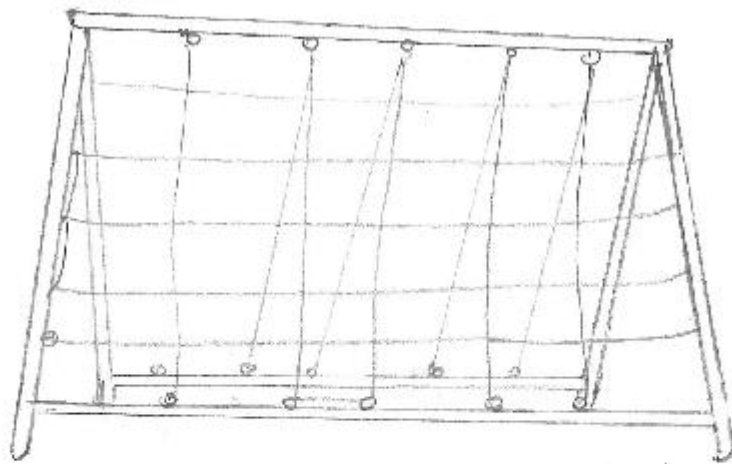


FIG. 11

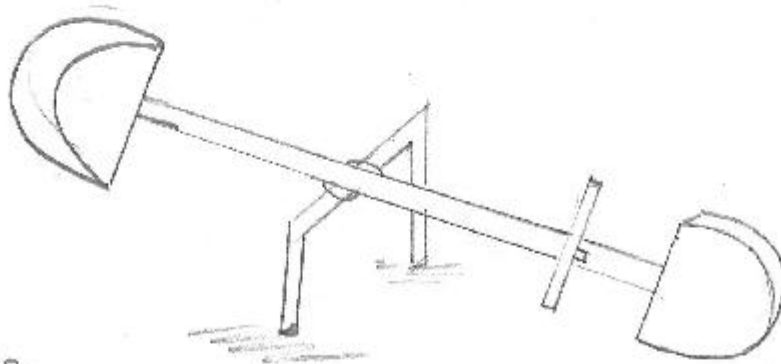


FIG. 12

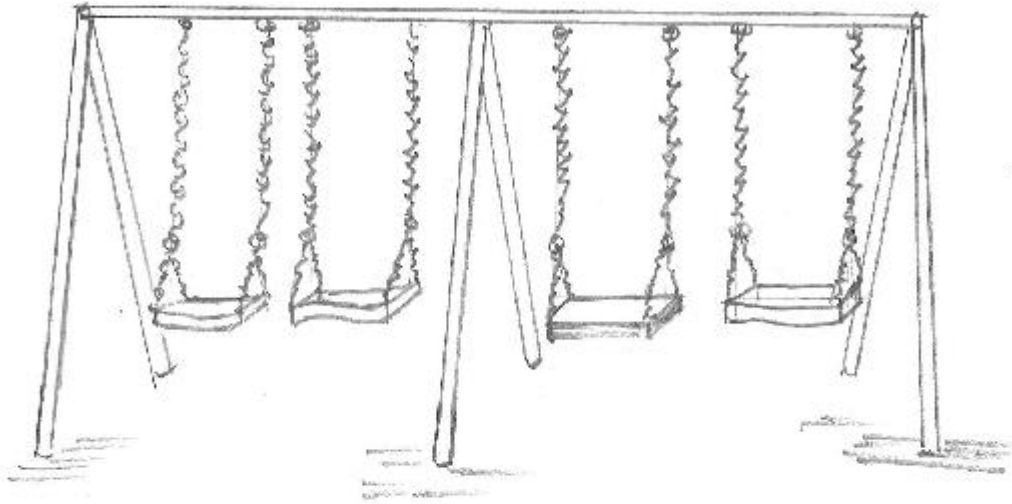


FIG-13

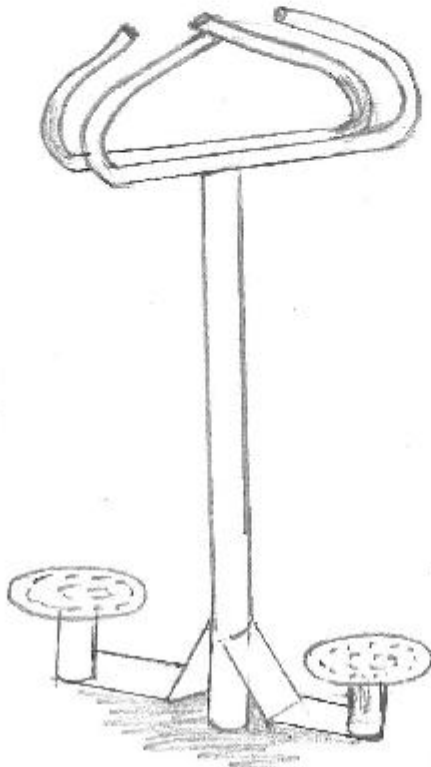


FIG 14