

**CONSTRUCTION OF HEAD QUARTERS BUILDING AT
KUDAPPANAKKUNNU, THIRUVANANTHAPURAM FOR KERALA STATE
YOUTH WELFARE BOARD - Phase I**

Part I - Civil Works					
Sl.No.	Description	Unit	Quantity	Rate Rs(in figures&words)	Amount in Rs
1	Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth upto 30 cm measured at a height of 1 m above ground level and removal of rubbish upto a distance of 50 m outside the periphery of the area cleared.	sqm	21.70		
2	Felling trees of the girth (measured at a height of 1 m above ground level) including cutting of trunks and branches, removing the roots and stacking of serviceable material and disposal of unserviceable material.				
2a	Beyond 30 cm girth upto and including 60 cm girth	Each	1		
2b	Beyond 60 cm girth upto and including 120 cm girth	Each	1		
2c	Beyond 120 cm girth upto and including 240 cm girth	Each	1		

3	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth. 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed:All kinds of soil	cum	2620.00		
4	Extra for every additional lift of 1.5 m or part thereof in excavation /banking excavated or stacked materials.:All kinds of soil	cum	550.00		
5	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations yard levelling etc., in layers not exceeding 20cm in depth: consolidating each deposited layer by ramming and watering etc complete, and form uniform level .	cum	3170.00		
6	Providing, driving and installing driven cast-in-situ reinforced cement concrete piles of grade M-25 of specified diameter and length below the pile cap, to carry safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of shoe and the length of pile to be embedded in the pile cap etc. all complete. (Length of pile for payment shall be measured from top of shoe to the bottom of pile cap) :				

6a	600 mm dia piles	Rm	270.00		
6b	800 mm dia piles	Rm	570.00		
7	Vertical load testing of piles in accordance with IS 2911 (Part IV) including installation of loading platform and preparation of pile head or construction of test cap and dismantling of test cap after test etc. complete as per specification & the direction of Engineer in-charge. Single pile above 50 tonne and upto 100 tonne capacity:				
7a	Initial test	each	2		
7b	Routine test.	each	2		

8	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All works up to plinth level. :1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size)	cum	103.00		
9	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size).	cum	115.00		
10	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size)	cum	54.00		
11	Providing and laying in position ready mixed M-25 grade concrete for reinforced cement concrete work, using fly ash and cement content as per approved design mix and manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work, including pumping of R.M.C. from transit mixer to site of laying, excluding the cost of centering, shuttering, finishing and reinforcement, including cost of admixtures in recommended proportions as per IS : 9103 to accelerate / retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer - in - charge.				

	<p>NOTE- 1) Cement content considered in this item is @ 330 kg/cum. Excess/less cement used as per design mix is payable/ recoverable separately.</p> <p>2) Fly ash conforming to grade I of IS 3812 (Part-1) only be used as part replacement of OPC as per IS 456. Uniform blending with cement to be ensured in accordance with clauses 5.2 and 5.2.1 of IS:456 -2000 in the items of BMC and RMC.</p> <p>3) The above item shall be used judiciously where specified quality of Fly Ash is available for mixing in concrete. Also, the guidelines issued by CDO, CPWD, vide circular no. CDO/SE(RR)/Fly Ash (Main)/102 dated 9th April 2009 shall be followed in such cases.</p>				
11.a	a) All work up to plinth level. (M25)	cum	250.00		
11.b	b) All work above plinth level up to floor V level	cum	760.00		
11.c	Add for using extra cement in the items of design mix over and above the specified cement content therein M25 concrete .	qtl	710.00		

12	1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) for dummy column and lift wall	cum	20.00		
13	Centering and shuttering including strutting, propping etc., and removal of form for,				
13.a	Foundations, Footings, bases of columns,etc for mass concrete.	sqm	350.00		
13.b	Walls any thickness including attached pilasters butteresses,Plinth and string courses etc.	sqm	1350.00		
13.c	Suspended floors,roofs,landings,Balconies and access platform	sqm	2500.00		
13.d	Lintel,beams,plinth beams,girders,bressumers and cantilevers	sqm	2100.00		

13.e	Columns and Pillars, Piers, Abutments, Posts and Struts.	sqm	1050.00		
13.f	Stairs(excluding landings) except spiral-staircases.	sqm	300.00		
13.g	Weather shade, chajjas, corbels etc. including edges	sqm	400.00		
14	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto Plinth level.Termo – Mechanically Treated Bars	kg	73200.00		
15	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above Plinth level. Termo – Mechanically Treated Bars	kg	122000.00		
16	Brick work with F.P.S bricks of class designation 7.5 in superstructure above plinth level up to floor v level in all shapes an sizes in: Cement mortar 1: 6 (1 cement :6 coarse sand)	cum	20.00		

17	Providing and fixing up to floor five level precast cement concrete solid block including hoisting and setting in position with cement mortar 1:3 (1 cement : 3 coarse sand), cost of required centering, shuttering complete : 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size).	cum	205.00		
18	Half brick masonry with F.P.S brick of class designation 7.5 in superstructure above plinth level up to floor V level : CM 1:3 (1 cement : 3 coarse sand)	sqm	190.00		
19	Extra for providing and placing in position 2 Nos. 6mm dia M.S bars at every third course of half brick masonry (with FPS brick)	sqm	190.00		
20	Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20mm nominal size) upto plinth level with : Cement mortar 1:6 (1 cement : 6 coarse sand).	cum	205.00		

21	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) : For fixed portion: Powder coated aluminium (minimum thickness of powder coating 50 micron)	kg	6000.00		
22	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately). Powder coated aluminium (minimum thickness of powder coating 50 micron)	kg	2350.00		
23	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item):				

23a	With float glass panes of 5.50 mm thickness	sqm	270.00		
-----	---	-----	--------	--	--

23b	With float glass panes of 8 mm thickness	sqm	70.00		
24	Providing and fixing double action hydraulic floor spring of approved brand and manufacture conforming to IS : 6315, having brand logo embossed on the body / plate with double spring mechanism and door weight upto 125 kg., for doors, including cost of cutting floors , embedding in floors as required and making good the same matching to the existing floor finishing and cover plates with brass pivot and single piece M.S. sheet outer box with slide plate etc. complete as per the direction of Engineer-in-charge. With brass cover plate minimum 1.25 mm thickness	each	22.00		
25	Filling the gap in between aluminium frame & adjacent RCC/ Brick/ Stone work by providing weather silicon sealant over backer rod of approved quality as per architectural drawings and direction of Engineer-in-charge complete. Upto 5mm depth and 5 mm width	Rm	860.00		
26	Providing and fixing stainless steel (SS 304 grade) adjustable friction windows stays of approved quality with necessary stainless steel screws etc. to the side hung windows as per direction of Engineer-in-charge complete.				

26.a	205 X 19 mm size	Each	100.00		
26.b	255 X 19 mm size	Each	185.00		
27	Providing and fixing aluminium tubular handle bar 32 mm outer dia, 3.0 mm thick & 2100 mm long with SS screws etc .complete as per direction of Engineer-in-Charge. Powder coated minimum thickness 50 micron aluminium tubular handle bar.	Each	25.00		
28	Providing and fixing 100mm brass locks (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete.	Each	25.00		
29	Providing and fixing aluminium casement windows fastener of required length for aluminium windows with necessary screws etc. complete. Powder coated minimum thickness 50 micron aluminium.	Each	280.00		

30	Providing 40 x 5mm flat iron hold fast 40 cm long including fixing to frame with 10mm diameter bolts, nuts and wooden plugs and embeddings in cement concrete block 30 x 10 x 15 cm 1:3:6 mix (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size)	Each	50.00		
31	Providing and fixing bright finished brass tower bolts (barrel type) with necessary screws etc. complete : 250x10 mm	Each	45.00		
32	Providing and fixing bright finished brass hanging type floor door stopper with necessary screws, etc. complete.	Each	25.00		
33	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm) with double speed adjustment with necessary accessories and screws etc. complete.	Each	22.00		

34	Providing and fixing factory made UPVC door frame made of UPVC extruded section having an overall dimensions as below (tolerance $\pm 1\text{mm}$), with wall thickness 2.0mm ($\pm 0.2\text{mm}$), corners of the door frame to be joined with galvanized brackets and stainless steel screws, joints mitered and plastic welded. The hinged side vertical of the frames reinforced by galvanized M.S. tube of size 19x19 mm and 1mm ($\pm 0.1\text{mm}$) wall thickness and 3 nos. Stainless steel hinged fixed to the frame complete as per manufacturers Specification and direction of engineering -in-charge : Extruded section profile size 48x40 mm	Rm	125.00		
35	Providing and fixing existing door frames: 24 mm thick factory made PVC door shutters made of styles and rails of a UPVC hollow section of size 59x24 mm and wall thickness 2 mm ($\pm 0.2\text{mm}$) with in built edging on both sides. The styles and rails mitered and joint at the corners by means of M.S. galvanized / plastic brackets of size 75x220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserting galvanized M.S. tube of size 20x20 mm and 1mm ($\pm 0.1\text{mm}$) wall thickness. The lock rail made up of " H" section, a UPVC hollow section of size 100x24 mm and 2mm ($\pm 0.2\text{mm}$) wall thickness, fixed to the shutters styles by means of plastic/ galvanized M.S.'U' cleats. The shutter frame filled with a UPVC multi chambered single panel of size not less than 620mm, having over all thickness of 20mm and 1mm ($\pm 0.1\text{mm}$) wall thickness. The panes filled vertically and tie bar at two places by inserting horizontally 6mm galvanized M.S. rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineer- in - charge. (for W,C and bath room door shutter).	sqm	40.00		

36	Providing and fixing stainless steel (Grade 304) railing made of hollow tubes, channels, plates etc. including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolt complete i/c fixing the railing with necessary accessories & Stainless steel dash fasteners, stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineering-in-charge .(for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.)	kg	2300.00		
37	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats square or round bars etc . Including priming coat with approved steel primer all complete: Fixed to openings with rawl plugs screws etc.	kg	4600.00		
38	Providing and fixing Pre-laminated flat pressed 3 layer (medium density) particle board or graded wood particle board IS : 3087 marked, with one side decorative and other side balancing lamination Grade I, Type II exterior grade IS : 12823 marked, in shelves with screws and fittings wherever required, edges to be painted with polyurethane primer (fittings to be paid separately).18mm thick	sqm	500.00		
39	Providing and fixing bright finished brass butt hinges with necessary screws etc. complete : 125x85x5.5 mm (heavy type)	Each	400.00		

40	Providing and fixing 18mm 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 of approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1 cement : 4 coarse sand) with 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. Granite of any colour and shade: Area of slab over 0.50 sqm.: Basic rate not less than Rs. 2000.00/m2	sqm	1400.00		
41	Extra for pre finished nosing to treads of steps of granite stone.	Rm	200.00		
42	Extra for Granite stone flooring in treads of steps and risers using single length up to 2.00 metre	sqm	70.00		
43	Stone cladding work for wall lining upto 10m height with special adhesive over 12mm thick bed of cement mortar 1:3 (1cement : 3coarse sand) including pointing in white cement with an admixture of pigment to match the stone shade. Granite stone 18mm thick of any colour and shade	sqm	90.00		

44	Mirror polishing on marble work/Granite stone work where ever required to give high gloss finish complete.	sqm	90.00		
45	Extra for prviding opening of required size and shape for wash basins/kitchen sink in kitchen platform, vanity counters and similar location in granite stone work including necessary holes for pillar taps etc.including rubbing and polishing of cut edges etc.complete.	Each	2.00		
46	Providing and fixing stone slab table rubbed, edges rounded and polished of size 75x50 cm deep and 1.8 cm thick fixed in urinal partitions by cutting a chase of appropriate width with chase cutter and embedding the stone in the chase with epoxy grout or with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 6 mm nominal size) as per direction of Engineer-in-charge and finished smooth. Granite Stone of approved shade	sqm	3.00		
47	Chequered precast cement concrete tiles 22mm thick in footpath ,Ramp & courtyard jointed with neat cement slurry mixed with pigment to match the shade of tiles including rubbing and cleaning etc. complete on 20mm thick bed of cement mortor 1:4 (1 cement : 4 coarse sand) Light shade using white cement	sqm	420.00		

48	Providing and laying polished vitrified floor tile in different sizes (thickness to be specified by the manufacturer) with Acid and / or Alkali resistant tiles with water absorptions less than 0.08% and confirming to IS:15622 of approved make in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement:4 Coard sand) including grouting the joints with white cement and matching pigments etc. complete. Basic Rate: Not less than Rs. 880/m2 : Size of Tiles 60 x 60 cm	sqm	850.00		
49	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer) with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make in all colours & shade in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), including grouting the joint with white cement & matching pigments etc. complete.Size of Tile 600x600 mm Basic Rate: Not less than Rs. 880/m2	sqm	80.00		
50	Providing and laying rectified Anti skid Glazed Ceramic floor tiles 300x300mm or more (thickness to be specified by the manufacturer) of 1 st quality conforming to IS : 15622 of approved make in colours white,Ivory, Grey, Fume, Red Brown, laid on 20mm thick cement mortar 1:4 (1 cement: 4 coarse sand)including grouting the joints with white cement and matching pigments etc.complete.	sqm	80.00		

51	Providing and fixing 1st quality joint free germs free ceramic glazed wall tiles 300x600mm size confirming to IS: 15622(thickness to be specified by the manufacture)of approved make in all coloures,shades except burgundy,Bottle green,Black of any size as approved by Engineer-In - Charge in skirting,risers of steps and dados over 12mm thick bed of cement Mortor 1:3 (1 cement :3Coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with pigment of matching shade complete. (Wet area)	sqm	460.00		
52	12mm cement plaster on the rough side of single or half brick wall of mix : 1 : 4 (1 cement : 4 fine sand)	sqm	3220.00		
53	15mm cement plaster on the rough side of single or half brick wall of mix : 1 : 4 (1 cement : 4 fine sand)	sqm	2000.00		
54	Cement plaster 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement :20 mm cement plaster to top of slab and sunshade	sqm	900.00		
55	6 mm cement plaster of mix : 1:3 (1 cement: 3 fine sand) for ceiling plastering	sqm	2800.00		

56	Cement plaster 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement. 12 mm cement plaster	sqm	95.00		
56	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	sqm	5600.00		
57	Applying one coat of cement primer of approved brand and manufacture on wall surface – Cement Primer	sqm	5600.00		
58	Wall painting with Plastic emulsion paint of approved brand and manufacture to give an even shade –Two or more coats on new work.	sqm	5600.00		
59	Painting wood work with Deluxe Multi Surface Paint of required shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @0.75 ltr/ 10 sqm of approved brand or manufacture	sqm	1130.00		
60	Painting Steel work with Delux Multi surface paint to give an even shade.Two or more coat applied @ 0.90 ltr/10sqm over an over an under coat of primer applied @ 0.80ltr/10aqm of approved brand or manufacture.	sqm	210.00		

61	Finishing walls with Acrylic Smooth exterior paint of required shade :	sqm	2000.00		
62	Providing and laying water proofing treatment in sunken portion of WCs, bathroom etc., by applying cement slurry mixed with water proofing cement compound consisting of applying : a) First layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm. This layer will be allowed to air cure for 4 hours. b) Second layer of slurry of cement @ 0.242 kg/sqm mixed with water proofing cement compound @ 0.126 kg/sqm. This layer will be allowed to air cure for 4 hours followed with water curing for 48 hours. The rate includes preparation of surface, treatment and sealing of all joints, corners, junctions of pipes and masonry with polymer mixed slurry.	sqm	80.00		
63	Providing and fixing tiled false ceiling of approved materials of size 595x595 mm in true horizontal level suspended on inter locking metal grid of hot dipped galvanized steel sections (galvanized @ 120 gsm/sqm, both side inclusive) consisting of main "T" runner with suitably spaced joints to get required length and of size 24x38mm made from 0.30mm thick (minimum) sheet, spaced at 1200mm center to center and cross "T" of size 24x25mm made of 0.30mm thick (minimum) sheet, 1200mm long spaced between main "T" at 600mm center to center to form a grid of 1200x600 mm and secondary cross "T" of length 600mm and size 24x25mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600mm panel to form grids of 600x600mm and wall angle of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the grid including,				

	<p>wherever, required, cutting/making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main "T" runners to be suspended from ceiling using GI slotted cleats of size 27 x 37 x 25 x 1.6 x mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4mm GI adjustable rods with galvanised butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200mm center to center along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete at all heights as per specifications drawings and as directed by Engineer-in-charge. 12.5mm thick square edge PVC Laminated Gypsum Tile of size 595x595mm, made of Gypsum plasterboard; manufactured from natural gypsum as per IS 2095 part I and laminated with white 0.16mm thick fire retardant PVC film on the face side and 12micron metalized polyester on the back side with all edges sealed with the face side PVC film which goes around and wraps the edges and is bonded to the edges and the bte as per manufacturer's specification and direction of Engineer- in - charge. (f</p>	sqm	120.00		
64	<p>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 fine sand, filling the joints with fine sand etc. all complete as per the direction of Engineer-in-charge.</p>	sqm	1200.00		

65	Providing and fixing white vitreous china Wall Mounted type water closet (European type W.C.pan) with seat and lid, 3/6 litre low level white vitreous Dual Flushing cistern and C.P flush bend with fitting and C.I brackets, 40mm flush bend, overflow arrangement with specials of standard make and mosquito proof coupling of approved municipal design complete including painting of fittings and brackets, cutting and making good the walls and floors wherever required. Make:Hindware,Cera,Jaquar etc., WC pan with ISI marked white solid plastic seat and lid	each	28.00		
66	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931. Make:Hindware,Cera,Jaquar etc., 15 mm nominal bore.	each	30.00		
67	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931: 15 mm nominal bore.	each	20.00		
68	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: 15mm nominal bore	each	42.00		

69	Providing and fixing wash basin (including counter type) with CI / MS brackets, 15mm CP brass Pillar taps , 32mm CP brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever required.: White Vitreous China Wash basin size 630 x 450mm with a single 15mm C.P brass pillar tap. Make:Hindware,Cera,Jaquar etc.,	each	9.00		
70	Bottle trap 38mm single piece moulded with height of 270mm, effective length of tail pipe 260mm from the centre of the waste coupling 77mm breadth with 25mm minimum water seal, weighing not less than 263gms.	each	10.00		
71	Providing and fixing CP Waste coupling for wash basin and sink of approved quality, colour and make. Waste coupling 31mm of 79mm length and 62mm breadth, weighing not less than 45 gms. Make:Hindware,Jaquar etc.,	each	10.00		
72	Providing and fixing PVC Waste pipe for sink or wash basin including PVC waste fittings complete.:Semi rigid pipe 32mm dia	each	10.00		
73	Providing and fixing SS soap Dish Holder having length of 138mm, breadth 102mm, height of 75mm with concealed fitting arrangements. Weighing not less than 106 gms.	each	20.00		

74	Providing and fixing Toilet paper holder . Make:Hindware,Cera,Jaquar etc...;C.P Brass	each	14.00		
75	Providing and fixing 600 x 450mm bevelled edge mirror of superior glass (of approved quality) complete with 6mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	each	10.00		
76	Providing and fixing SS towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fitting arrangement of approved quality and colour. 600mm long towel rail with total length of 645mm, width 78mm and effective height of 88mm, weighing not less than 190gms.	each	10.00		
77	Providing & fixing of CP Health faucet . Make:Hindware,Cera,Jaquar etc...;				
	CP angle stop cock with all flange.				
	PVC flexible tube				
	Hand operated spray unit (instand type).	Set	14.00		

78	Providing and fixing of over head shower set with shower flange 170 mm long, including shower head and shower arm conforming to I.S Specification of approved make as per directions including all lead and lift etc., complete.	each	14.00		
79	Providing and fixing of CP brass 15 mm dia, 2 in 1 exposed wall mixer cum spout for wall installation with lever control and necessary CP bend for shower connection, including cutting and making good the walls complete as per sample approved by the EIC.	each	14.00		
80	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for Hot and Cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamps at 1.00m spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in caharge. Make:Supreme,Finolex,Prince etc.,				
	Internal Work - Exposed on wall				
a)	20mm nominal outer dia.Pipes	Rm	100.00		

b)	25mm nominal outer dia.Pipes	Rm	100.00		
----	------------------------------	----	--------	--	--

c)	32mm nominal outer dia.Pipes	Rm	50.00		
d)	40mm nominal outer dia.Pipes	Rm	30.00		
81	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for Hot and Cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamps at 1.00m spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in caharge. Make:Supreme,Finolex,Prince etc..,				
	Concealed work including cutting chases and making good the wall etc.				
a)	20mm nominal outer dia.Pipes	Rm	200.00		

b)	25mm nominal outer dia.Pipes	Rm	100.00		
c)	32mm nominal outer dia.Pipes	Rm	30.00		
82	Providing and fixing Ball Valve (brass) of approved quality, High or low pressure, with plastic floats complete. Make:Lehry,Supreme,Finolex,Prince etc.,				
	20mm dia nominal bore	each	10.00		
83	Providing and fixing Gun metal gate valve with C.I. wheel of approved quality (screwed end). Make: Lehry,Supreme,Finolex,Prince etc.,				

a)	25 mm dia nominal bore	each	10.00		
b)	32 mm dia nominal bore	each	5.00		
c)	40 mm dia nominal bore	each	2.00		
84	Cutting holes upto 15 x 15 cm in R.C.C. floors and roofs for passing drain pipe etc. and repairing the hole after insertion of drain pipe etc. with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) including finishing complete.	each	50		
85	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. 110 mm diameter	Rm	100		

86	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.				
a)	110 mm Coupler	each	25		
b)	110x110x110 mm Single tee with door	each	20		
c)	110 mm bend	each	20		
d)	110 mm Shoe	each	6		

87	Providing and fixing unplasticised - PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50mm 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: 110mm	each	100		
88	Providing and fixing PVC soil, waste and vent pipe to IS : 13592 of SWR quality 4kg / sq.cm pressure rated up to 110mm dia and 6 kg / sq.cm pressure rated agricultural series above 110mm, including all fittings, like EG : Bends, Tees, Elbows, Collars, junction, inspection doors, cowls, offsets, access pipes, jointing with rubber ring / solvent cement by application of leak proof adhesive like FRP paste including cutting holes in walls and floors and making good. Make:Supreme,Finolex,Prince etc..,				
a)	50mm dia (6kg / sq.cm)	Rm	100.00		
b)	110mm dia (6 kg / sq.cm)	Rm	150.00		

89	S.C.I. S&S, Slotted Cowl (Terminal Guard) 100 mm	each	4.00		
90	Providing and fixing to the Inlet mouth of rain water pipe S.S grating 110mm diameter and weighing not less than 440 grams.	each	5.00		
91	Providing and fixing PVC floor trap self cleansing design with or without vent arm complete including cutting and making good the walls and floors. Make:Supreme,Finolex,Prince etc.,				
a)	110mm dia inlet 110mm dia outlet	each	20.00		
b)	50mm dia inlet 75mm dia outlet	each	20.00		
92	Providing and fixing CP grating of 6mm thick with rim including setting in floor with white cement mortar and making good the floor (Chilli make)				

a)	125mm dia	each	15.00		
93	Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand) with R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size), inside plastering 12mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) finished with a floating coat of neat cement complete as per standard design :				
94.a	Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) : With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	6.00		
94.b	Inside size 120x90 cm and 90 cm deep including C.I. cover with frame (medium duty) 500 mm internal diameter, total weight of cover and frame to be not less than 116 kg (weight of cover 58 kg and weight of frame 58 kg) :				

	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	2.00		
94.c	Inside size 120x90 cm and 90 cm deep including C.I. cover with frame (heavy duty) 560 mm internal diameter, total weight of cover and frame to be not less than 208 kg (weight of cover 108 kg and weight of frame 100 kg) :				
	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	4.00		
95	Extra for depth for manholes				
a)	Size 90x80 cm: With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Rm	5.00		
b)	Size 120x90 cm: with common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Rm	10.00		

96	Providing and fixing square – mouth PVC. Gully trap grade “A” complete with CI grating brick masonry chamber with water tight tight CI cover with frame of 300 x 300mm 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				
a)	150 x 100mm size P type with common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	6.00		
97	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5 m including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m :				
	Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia.	Rm	100.00		
98	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete :				

	150 mm dia. R.C.C. pipe	Rm	100.00		
99	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	Ltrs	10000.00		
	TOTAL -PART I CIVIL WORKS				