

BoQ / ABSTRACT OF COST

CONSTRUCTION OF FACULTY RESIDENT AT GIKI

Ser	Description	Total Cost
1	Civil Works	
2	Plumbing Work / Sewerage	
3	OHWT	
4	UGWT	
5	Septic Tank	
6	Paved Area	
7	Electrical System	
8	Water Supply	
9	Sui Gas	
<i>Total Cost</i>		

BILL OF QUANTITIES

CONSTRUCTION OF FACULTY RESIDENT AT GIKI

Main Building (Civil Work)

Ser	Description	Qty	Unit	Rate	Amount
Sub Structure From Footing to FFL					
1	Excavation as in Hard Soil upto 1.50 M depth, in foundation and pipe trenches upto 1.50 M wide , in shafts, wells and independent holes upto 30 sqm each and throw earth clear of edges of excavation within 10m complete all as specified.	239.72	Cum		
2	Termite proofing of New buildings with approved chemicals except joinery complete all as specified.	912.30	Sqm		
3	Bottoming /sub base of any thickness as specified Granular Sub Base material laid and compacted to 100% Modified AASHTO density by appropriate compaction equipment and roller incl 10% Lime by volume complete all as specified.	58.58	Cum		
4	Providing and laying of lean concrete using crushed or broken stone graded 1:3:6 complete all as specified.	16.58	Cum		
5	Providing and laying of PCC with 3000 psi compressive cylindrical strength in all non-structural elements including formwork complete all as specified. (For 4" Thick Walls)	0.24	Cum		
6	Providing and laying of RCC with 3000 psi compressive cylindrical strength in different structural elements i.e in foundation etc. including form work complete all as specified.	79.93	Cum		
7	Providing and laying of RCC with 3000 psi compressive cylindrical strength in different structural elements i.e. columns , beams, stairs, posts, struts, piers, lintels, and the like including form work, complete all as specified. (Columns Foundation ~FFL)	3.59	Cum		
8	Providing and laying of RCC with 3000 psi compressive cylindrical strength in different structural elements i.e. in roof slabs, landings, walls, plinth beams and bands etc and the like including form work, complete all as specified.	10.68	Cum		
9	Burnt brick work, in wall over 115 mm thick, laid and jointed in CM 1:3, straight or to curve with inner radius of 6m and over, upto 4.25 m depth complete all as specified. (Foundation To FFL)	10.00	Cum		
10	Vertical DPC:- 2 x coats of water proofing compound, using Bitumen 10/20, applied hot @ 4.90 Kg /10sqm par coat over 20 mm thick DPC of CM 1:3 mixed with approved water resistant material 3% by weight and complete all as specified.	87.10	Sqm		

CONSTRUCTION OF FACULTY RESIDENT AT GIKI

Main Building (Civil Work)

Ser	Description	Qty	Unit	Rate	Amount
11	Horizontal DPC:- 50mm thick P.C.C 1:2:4, using 3mm aggregate and finished smooth with steel float, covered with two coats, each of hot bitumen @ 0.75 kg per Sqm and blinded with 0.012 cum of sand per Sqm complete all as specified.	0.04	Sqm		
12	Earth filling as in Ordinary or hard soil ,filling in foundation , pipe trenches, shafts, wells, independent holes, under floors or around plinth etc, 1.5 M below or above Ground Level (GL), with spoil obtained from excavation in trenches/over areas within 10m including watering and compaction in 150mm layer and dressing to required profile and shape.	143.72	Cum		
13	Disposal of Surplus earth from Site i.e Load "materials" (like excavated soil / rock), by any means upto 1000 M, unload and stack or spread complete all as specified.	96.00	Cum		
(A) Total Value for Sub Structure From Footing to FFL (Rs)					
Super Structure (Ground Floor)					
1	Burnt brick work, in walls over 115 mm thick, laid and jointed in CM 1:3 , straight or to curve with inner radius of 6m and over, upto G.F roof level complete all as specified.	76.00	Cum		
2	Burnt brick work, in walls 115 mm thick, laid and jointed in CM 1:3 , straight or to curve with inner radius of 6m and over, upto G.F roof level complete all as specified.	5.50	Cum		
3	Supply and fix hold fast, guard bars, Straps for wooden trusses, holding down bolts with washers, ladders, railings, brackets, pipe supports, tie rods and balusters, chimney bars, chains, rings shackles, hinges and type, grating or gullies, etc. including forging, letting in to stone or brick work etc: complete, by welding in lieu of riveting/bolting etc. (Flat Iron Ties)	270.50	Kg		
4	Providing and laying of RCC with 3000 psi compressive cylindrical strength in different structural elements i.e. columns, beams, stairs , posts, struts, piers, lintels , and the like including form work, complete all as specified.	30.38	Cum		
5	Providing and laying of RCC with 3000 psi compressive cylindrical strength in different structural elements i.e. in roof slabs , landings, walls, plinth beams and bands etc and the like including form work, complete all as specified.	43.80	Cum		
6	13mm thick cement plaster 1:4 finished as specified. (For G.F Ceiling)	295.14	Sqm		
7	13mm thick cement plaster 1:6 finished as specified. (For G.F Internal)	519.00	Sqm		

CONSTRUCTION OF FACULTY RESIDENT AT GIKI

Main Building (Civil Work)

Ser	Description	Qty	Unit	Rate	Amount
8	13mm thick cement plaster 1:4 finished as specified. (External Upto G.F)	325.26	Sqm		
9	Providing and laying of sand cushion under floor complete all as specified. (Under Floor)	28.90	Cum		
10	Providing and laying PCC 1:4:8 , laid under floor using crushed or broken stones complete all as specified. (Under Floor)	30.62	Cum		
11	Supply and fix, Steel Chowkat press-moulded 16 SWG, for 115 mm walls, single leaf, complete, including hold fast, ties for lateral movement, PCC 1:2:4 cavity filling etc, including one coat of anti-Creosote paint (internal surface) and Red oxide paint (external surface).	30.64	Mtr		
12	Supply and fix, Steel Chowkat press-moulded 16 SWG, for 230 mm walls, single leaf, complete, including hold fast, ties for lateral movement, PCC 1:2:4 cavity filling etc, including one coat of anti-Creosote paint (internal surface) and Red oxide paint (external surface).	64.00	Mtr		
13	Providing and laying, PCC 1:2:4 laid in floor, slabs as under layer for Terrazzo / tiles top finished, using crushed or broken stone complete all as specified.	12.90	Cum		
14	19 mm thick Cement Plaster 1:4, for under tiles as rendering finished complete all as specified.	287.36	Sqm		
15	Providing and laying Premium quality tiles of any make exceeding 3700 Sq cm, including setting, jointing and bonding, complete all as specified.	416.00	Sqm		
16	Providing and laying Deluxe quality marble tiles (Fancy Royal boticina, Parlino crystal boticina, Ziarat water shade, Parlino plane boticina, Parlino micro boticina, Ziarat white), of any size, 20 mm thick including setting, jointing, bonding and chemical polishing, complete all as specified. (For Stairs)	39.94	Sqm		
17	Plinth Protection consisting of 150mm thick sand filling, 100mm thick 1:4:8 and 75mm thick 1:2:4 complete all as specified.	76.88	Sqm		
18	Supply and fix 38mm thick 1st Class Soft Wood (Deodar) Framed and Panelled doors, gates etc., panels filled with MDF 16 mm sheet, including hold fast and mongery and Wax polishing on Both Sides complete all as specified except chowkats.	40.32	Sqm		
19	Supply and fix Rim / Alpha lock Premium Quality, all as specified complete all as specified.	18.00	Each		

CONSTRUCTION OF FACULTY RESIDENT AT GIKI

Main Building (Civil Work)

Ser	Description	Qty	Unit	Rate	Amount
20	Supply and fix, fillets not exceeding 12.90 sqcm sectional area of 1st Class softwood (Deodar) wrought and fixed with screws incl 3 x coats of Syenthic Enamel Paint complete all as specified.	188.36	Mtr		
21	Supply of Aluminium Sliding window, Premium Quality, of Anodized Aluminium extruded section in any size, colour and texture as specified, including fixing on concrete, wood or steel frames, complete with all necessary fittings incl 5mm thick tinted glass complete all as specified.	33.76	Sqm		
22	Supply of Aluminium fly/ insects screening with mesh (Deluxe and premium model), of Anodized extruded section including fixing on concrete, wood or steel frames with all necessary fittings, complete all as specified.	17.50	Sqm		
23	Supply and fix, Kitchen Floor / Sink Floor Cabinet, 600 mm wide and 862 mm high with First Class Soft wood (Deodar) frame, 19 mm thick Teak Veneered board shutter, drawers including all necessary Chromium plated (CP) mongery, RCC slab, 25 mm thick white / coloured marble slab, complete as per IS Arch 17,18 and 19.	6.48	Mtr		
24	Supply and fix, Kitchen Wall Cabinet 381mm wide and 610 mm high, 19 mm thick Teak Veneered board shutter complete as per IS Arch 17, 18 and 19, including all necessary CP monger, fixture and deodar wood edging provided to door cabinets.	4.64	Mtr		
25	Supply and fix, Kitchen Exhaust Hood made of Teak Veneered board with 22BG, PGI sheet fixed on inner side complete as per Information Sheet IS Arch No 17, 18 and 19, including all fitting / fixture as specified.	1.80	Mtr		
26	Supply and fixing of ward robes complete all as per interwood design using laminated sheets and first class soft wood frame incl china polishing complete all as specified.	34.40	Sqm		
27	Supply and fix, Stainless steel Hand railing using ¾" to 2" dia,16 to 18 Gauge pipe with all fittings etc. as per specifications. (For Stair)	16.36	Mtr		
28	3 x coats of Distempering with POLYVINYL distemper on new surface.	1022.66	Sqm		
29	3 x coats of weather shield paint on exterior wall on new surface.	375.26	Sqm		
(B) Total Value for Ground Floor				(Rs)	
Super Structure (First Floor)					
1	Burnt brick work, in wall over 115 mm thick, laid and jointed in CM 1:3, straight or to curve with inner radius of 6m and over, upto 1st floor roof level complete all as specified.	75.60	Cum		

CONSTRUCTION OF FACULTY RESIDENT AT GIKI

Main Building (Civil Work)

Ser	Description	Qty	Unit	Rate	Amount
2	Burnt brick work, in wall 115 mm thick , laid and jointed in CM 1:3 , straight or to curve with inner radius of 6m and over, upto 1st floor roof level complete all as specified.	5.72	Cum		
3	Supply and fix hold fast, guard bars, Straps for wooden trusses, holding down bolts with washers, ladders, railings, brackets, pipe supports, tie rods and balusters, chimney bars, chains, rings shackles, hinges and type, grating or gullies, etc. including forging, letting in to stone or brick work etc: complete, by welding in lieu of riveting/bolting etc. (Flat Iron Ties)	270.50	Kg		
4	Providing and laying of RCC with 3000 psi compressive cylindrical strength in different structural elements i.e. columns, beams, stairs , posts, struts, piers, lintels , and the like including form work, complete all as specified.	30.38	Cum		
5	Providing and laying of RCC with 3000 psi compressive cylindrical strength in different structural elements i.e. in roof slabs , landings, walls, plinth beams and bands etc and the like including form work, complete all as specified.	43.80	Cum		
6	13mm thick cement plaster 1:4 finished as specified. (For F.F Ceiling)	611.42	Sqm		
7	13mm thick cement plaster 1:6 finished as specified. (For F.F Internal)	295.71	Sqm		
8	13mm thick cement plaster 1:4 finished as specified. (External Upto F.F)	331.14	Sqm		
9	Providing and laying PCC 1:4:8 , laid under floor using crushed or broken stones complete all as specified. (Wardrobes Tharri)	2.70	Cum		
10	Supply and fix, Steel Chowkat press-moulded 16 SWG, for 115 mm walls, single leaf, complete, including hold fast, ties for lateral movement, PCC 1:2:4 cavity filling etc, including one coat of anti-Creosote paint (internal surface) and Red oxide paint (external surface).	30.64	Mtr		
11	Supply and fix, Steel Chowkat press-moulded 16 SWG, for 230 mm walls, single leaf, complete, including hold fast, ties for lateral movement, PCC 1:2:4 cavity filling etc, including one coat of anti-Creosote paint (internal surface) and Red oxide paint (external surface).	64.00	Mtr		
12	Providing and laying, PCC 1:2:4 laid in floor, slabs as under layer for Terrazzo / tiles top finished, using crushed or broken stone complete all as specified.	14.90	Cum		
13	19 mm thick Cement Plaster 1:4, for under tiles as rendering finished complete all as specified.	287.68	Sqm		

CONSTRUCTION OF FACULTY RESIDENT AT GIKI

Main Building (Civil Work)

Ser	Description	Qty	Unit	Rate	Amount
14	Providing and laying Premium quality tiles of any make exceeding 3700 Sq cm, including setting, jointing and bonding, complete all as specified.	416.00	Sqm		
15	Providing and laying Deluxe quality marble tiles (Fancy Royal boticina, Parlino crystal boticina, Ziarat water shade, Parlino plane boticina, Parlino micro boticina, Ziarat white), of any size, 20 mm thick including setting, jointing, bonding and chemical polishing, complete all as specified.(For Stairs)	39.94	Sqm		
16	Supply and fix 38mm thick 1st Class Soft Wood (Deodar) Framed and Panelled doors, gates etc., panels filled with MDF 16 mm sheet, including hold fast and mongery and Wax polishing on Both Sides complete all as specified except chowkats.	40.32	Sqm		
17	Supply and fix Rim / Alpha lock Premium Quality, all as specified complete all as specified.	18.00	Each		
18	Supply and fix, fillets not exceeding 12.90 sqcm sectional area of 1st Class softwood (Deodar) wrought and fixed with screws incl 3 x coats of Syenthic Enamel Paint complete all as specified.	188.36	Mtr		
19	Supply of Aluminium Sliding window, Premium Quality, of Anodized Aluminium extruded section in any size, colour and texture as specified, including fixing on concrete, wood or steel frames, complete with all necessary fittings incl 5mm thick tinted glass complete all as specified.	41.14	Sqm		
20	Supply of Aluminium fly/ insects screening with mesh (Deluxe and premium model), of Anodized extruded section including fixing on concrete, wood or steel frames with all necessary fittings, complete all as specified.	20.56	Sqm		
21	Supply and fix, Kitchen Floor / Sink Floor Cabinet, 600 mm wide and 862 mm high with First Class Soft wood (Deodar) frame, 19 mm thick Teak Veneered board shutter, drawers including all necessary Chromium plated (CP) mongery, RCC slab, 25 mm thick white / coloured marble slab, complete as per IS Arch 17,18 and 19.	6.48	Mtr		
22	Supply and fix, Kitchen Wall Cabinet 381mm wide and 610 mm high, 19 mm thick Teak Veneered board shutter complete as per IS Arch 17, 18 and 19, including all necessary CP monger, fixture and deodar wood edging provided to door cabinets.	2.32	Mtr		

CONSTRUCTION OF FACULTY RESIDENT AT GIKI

Main Building (Civil Work)

Ser	Description	Qty	Unit	Rate	Amount
23	Supply and fix, Kitchen Exhaust Hood made of Teak Veneered board with 22BG, PGI sheet fixed on inner side complete as per Information Sheet IS Arch No 17, 18 and 19, including all fitting / fixture as specified.	1.82	Mtr		
24	Supply and fixing of ward robes complete all as per interwood design using laminated sheets and first class soft wood frame incl china polishing complete all as specified.	34.40	Sqm		
25	Supply and fix, Stainless steel Hand railing using ¾" to 2" dia, 16 to 18 Gauge pipe with all fittings etc. as per specifications. (For Stair)	16.36	Mtr		
26	3 x coats of Distemping with POLYVINYL distemper on new surface.	1019.56	Sqm		
27	3 x coats of weather shield paint on exterior wall on new surface.	381.14	Sqm		
(C) Total Value for First Floor				(Rs)	
Super Structure (Second Floor)					
1	Burnt brick work, in wall over 115 mm thick , laid and jointed in CM 1:3 , straight or to curve with inner radius of 6m and over, upto 2nd floor roof level complete all as specified.	75.60	Cum		
2	Burnt brick work, in wall 115 mm thick , laid and jointed in CM 1:3 , straight or to curve with inner radius of 6m and over, upto 2nd floor roof level complete all as specified.	5.72	Cum		
3	Supply and fix hold fast, guard bars, Straps for wooden trusses, holding down bolts with washers, ladders, railings, brackets, pipe supports, tie rods and balusters, chimney bars, chains, rings shackles, hinges and type, grating or gullies, etc. including forging, letting in to stone or brick work etc: complete, by welding in lieu of riveting/bolting etc. (Flat Iron Ties)	270.25	Kg		
4	Providing and laying of RCC with 3000 psi compressive cylindrical strength in different structural elements i.e. columns, beams, stairs , posts, struts, piers, lintels , and the like including form work, complete all as specified.	30.38	Cum		
5	Providing and laying of RCC with 3000 psi compressive cylindrical strength in different structural elements i.e. in roof slabs , landings, walls, plinth beams and bands etc and the like including form work, complete all as specified.	51.54	Cum		
6	13mm thick cement plaster 1:4 finished as specified. (For 2nd.F Ceiling)	324.90	Sqm		
7	13mm thick cement plaster 1:6 finished as specified. (For 2nd.F Internal)	596.41	Sqm		

CONSTRUCTION OF FACULTY RESIDENT AT GIKI

Main Building (Civil Work)

Ser	Description	Qty	Unit	Rate	Amount
8	13mm thick cement plaster 1:4 finished as specified. (External Upto 2nd.F)	482.08	Sqm		
9	Providing and laying PCC 1:4:8 , laid under floor using crushed or broken stones complete all as specified. (Wardrobes Tharri)	2.70	Cum		
10	Supply and fix, Steel Chowkat press-moulded 16 SWG, for 115 mm walls, single leaf, complete, including hold fast, ties for lateral movement, PCC 1:2:4 cavity filling etc, including one coat of anti-Creosote paint (internal surface) and Red oxide paint (external surface).	30.65	Mtr		
11	Supply and fix, Steel Chowkat press-moulded 16 SWG, for 230 mm walls, single leaf, complete, including hold fast, ties for lateral movement, PCC 1:2:4 cavity filling etc, including one coat of anti-Creosote paint (internal surface) and Red oxide paint (external surface).	64.00	Mtr		
12	Providing and laying, PCC 1:2:4 laid in floor, slabs as under layer for Terrazzo / tiles top finished, using crushed or broken stone complete all as specified.	14.90	Cum		
13	19 mm thick Cement Plaster 1:4, for under tiles as rendering finished complete all as specified.	287.36	Sqm		
14	Providing and laying Premium quality tiles of any make exceeding 3700 Sq cm, including setting, jointing and bonding, complete all as specified.	416.00	Sqm		
15	Providing and laying Deluxe quality marble tiles (Fancy Royal boticina, Parlino crystal boticina, Ziarat water shade, Parlino plane boticina, Parlino micro boticina, Ziarat white), of any size, 20 mm thick including setting, jointing, bonding and chemical polishing, complete all as specified.(For Stairs)	39.94	Sqm		
16	Supply and fix 38mm thick 1st Class Soft Wood (Deodar) Framed and Panelled doors, gates etc., panels filled with MDF 16 mm sheet, including hold fast and mongery and Wax polishing on Both Sides complete all as specified except chowkats.	40.16	Sqm		
17	Supply and fix Rim / Alpha lock Premium Quality, all as specified complete all as specified.	18.00	Each		
18	Supply and fix, fillets not exceeding 12.90 sqcm sectional area of 1st Class softwood (Deodar) wrought and fixed with screws incl 3 x coats of Syenthic Enamel Paint complete all as specified.	1836.00	Mtr		

CONSTRUCTION OF FACULTY RESIDENT AT GIKI

Main Building (Civil Work)

Ser	Description	Qty	Unit	Rate	Amount
19	Supply of Aluminium Sliding window, Premium Quality, of Anodized Aluminium extruded section in any size, colour and texture as specified, including fixing on concrete, wood or steel frames, complete with all necessary fittings incl 5mm thick tinted glass complete all as specified.	41.14	Sqm		
20	Supply of Aluminium fly/ insects screening with mesh (Deluxe and premium model), of Anodized extruded section including fixing on concrete, wood or steel frames with all necessary fittings, complete all as specified.	20.56	Sqm		
21	Supply and fix, Kitchen Floor / Sink Floor Cabinet, 600 mm wide and 862 mm high with First Class Soft wood (Deodar) frame, 19 mm thick Teak Veneered board shutter, drawers including all necessary Chromium plated (CP) mongery, RCC slab, 25 mm thick white / coloured marble slab, complete as per IS Arch 17,18 and 19.	6.48	Mtr		
22	Supply and fix, Kitchen Wall Cabinet 381mm wide and 610 mm high, 19 mm thick Teak Veneered board shutter complete as per IS Arch 17, 18 and 19, including all necessary CP monger, fixture and deodar wood edging provided to door cabinets.	4.64	Mtr		
23	Supply and fix, Kitchen Exhaust Hood made of Teak Veneered board with 22BG, PGI sheet fixed on inner side complete as per Information Sheet IS Arch No 17, 18 and 19, including all fitting / fixture as specified.	1.82	Mtr		
24	Supply and fixing of ward robes complete all as per interwood design using laminated sheets and first class soft wood frame incl china polishing complete all as specified.	34.40	Sqm		
25	Supply and fix, Stainless steel Hand railing using ¾" to 2" dia,16 to 18 Gauge pipe with all fittings etc. as per specifications. (For Stair)	16.36	Mtr		
26	3 x coats of Distempering with POLYVINYL distemper on new surface.	1019.60	Sqm		
27	3 x coats of weather shield paint on exterior wall on new surface.	557.08	Sqm		
(D)	Total Value for Second Floor			(Rs)	
Super Structure (Mumty)					
1	Burnt brick work, in wall over 115 mm thick , laid and jointed in CM 1:3 , straight or to curve with inner radius of 6m and over, upto 2nd floor roof level complete all as specified.	10.41	Cum		

CONSTRUCTION OF FACULTY RESIDENT AT GIKI

Main Building (Civil Work)

Ser	Description	Qty	Unit	Rate	Amount
2	Providing and laying of RCC with 3000 psi compressive cylindrical strength in different structural elements i.e. columns, beams, stairs , posts, struts, piers, lintels , and the like including form work, complete all as specified.	0.29	Cum		
3	Providing and laying of RCC with 3000 psi compressive cylindrical strength in different structural elements i.e. in roof slabs , landings, walls, plinth beams and bands etc and the like including form work, complete all as specified.	0.96	Cum		
4	13mm thick cement plaster 1:4 finished as specified. (For Mumty Ceiling)	25.11	Sqm		
5	13mm thick cement plaster 1:6 finished as specified. (For Mumty Internal)	43.15	Sqm		
6	13mm thick cement plaster 1:4 finished as specified. (External Mumty)	66.78	Sqm		
7	Roof insulation consisting of 2 x coats of bitumen, applied hot on roof @ 0.75 Kg/sqm 1st coat and 1.11 Kg/Sqm @ 2nd coat, double layer of polythene sheet 100 mm mud incl 25mm thick mud leaping completed with single layer of 300 mm x 150 mm x 50 mm Flat brick tiles in roof, jointed and pointed in CM 1:3 complete all as specified.	151.51	Sqm		
8	Providing and laying, PCC 1:2:4 laid in floor, slabs as under layer for Terrazzo / tiles top finished, using crushed or broken stone complete all as specified.	1.06	Cum		
9	19 mm thick Cement Plaster 1:4, for under tiles as rendering finished complete all as specified.	35.00	Sqm		
10	Providing and laying Premium quality tiles of any make exceeding 3700 Sq cm, including setting, jointing and bonding, complete all as specified.	3.00	Sqm		
11	Supply and fix Steel Door for Mumty complete all as specified.	2.28	Sqm		
12	Supply of Aluminium Sliding window, Premium Quality, of Anodized Aluminium extruded section in any size, colour and texture as specified, including fixing on concrete, wood or steel frames, complete with all necessary fittings incl 5mm thick tinted glass complete all as specified.	5.11	Sqm		
13	Supply of Aluminium fly/ insects screening with mesh (Deluxe and premium model), of Anodized extruded section including fixing on concrete, wood or steel frames with all necessary fittings, complete all as specified.	2.55	Sqm		

CONSTRUCTION OF FACULTY RESIDENT AT GIKI

Main Building (Civil Work)

Ser	Description	Qty	Unit	Rate	Amount
14	Supply and fix, Stainless steel Hand railing using ¾" to 2" dia, 16 to 18 Gauge pipe with all fittings etc. as per specifications. (For Stair)	4.57	Mtr		
15	3 x coats of Distemping with POLYVINYL distemper on new surface.	68.26	Sqm		
16	3 x coats of weather shield paint on exterior wall on new surface.	66.78	Sqm		
(E) Total Value For Mumty				(Rs)	
Steel Work					
1	Supply and fix bars round, using deformed bars Grade - 40 including cutting, bending, binding and placing reinforcement in position.	1670.34	Kg		
2	Supply and fix bars round, using deformed bars Grade - 60 including cutting, bending, binding and placing reinforcement in position.	23615.30	Kg		
(F) Total Value For Steel Work				(Rs)	
Grand Total Amount (A + B + C + D + E + F)					

PAVED AREA

Ser	Description	Qty	Unit	Rate	Amount
1	Cut or fill in Granular Soil not exceeding 150 mm, specified.	455.22	Sqm	-	-
2	Providing and laying PCC 1:4:8 , laid under floor using crushed or broken stones complete all as specified.	34.69	Cum	-	-
3	Providing and laying, PCC 1:2:4 laid in floor, slabs as under layer for Terrazzo / tiles top finished, using crushed or broken stone complete all as specified.	34.69	Cum	-	-
4	Providing and laying, PCC Paving stone, 50 mm thick in natural colour, as in floors, drive- way, walk-way etc., any pattern and any shape, (Hydraulically compressed), laid and jointed in sand, including 50mm thick sand bed as laying course complete all as specified.	455.22	Sqm	-	-
Total Value For Paved Work				(Rs)	-

BILL OF QUANTITIES

OVER HEAD WATER TANK (7' x 5' x 4')

Ser	Description	Qty	Unit	Rate	Amount
1	Providing and laying of PCC 1:3:6 all as specified in walls, partitions, slabs, sills, copings, channels, steps, string courses, corbels, pier caps, hinge stones, mantel pieces, louvers, chimney tops etc., including setting, jointing and pointing complete all as specified.	0.76	Cum		
2	Providing and laying of RCC with 3000 psi compressive cylindrical strength all as specified in roof slabs, landings, walls, plinth beams and bands, etc., including form work complete all as specified.. Reinforcement measured and paid separately.	5.66	Cum		
3	Providing and fixing of PVC water stopper 250mm wide and 12 mm thick complete all as specified.	17.06	Metre		
4	Supply and fix, Manhole CI cover with frame, 450 mm, circular or rectangular exceeding 7.50kg each, but not exceeding 10kg/each, set in CM and haunching in Concrete, complete all as specified.	2.00	Each		
5	Providing and laying 13 mm thick terrazo floor using marble chips (1:2) with ordinary cement including cutting, rubbing except polishing complete all as specified.	6.50	Sqm		
6	Providing and laying 13 mm thick terrazo in dado skirting etc using marble chips (1:2) with ordinary cement including cutting, rubbing and polishing. including 10mm thick cement plaster 1:3 rendering complete all as specified.	17.84	Sqm		
7	13mm thick cement plaster 1:4 finished smooth complete all as specified.	41.62	Sqm		
8	3 x Coat of weather shield paint on exterior wall on new surface complete all as Specified.	41.62	Sqm		
9	Supply and fix bars round, using deformed bars grade - 40 including cutting, bending, binding and placing reinforcement in position incl 5% wastage of steel complete all as specified.	707.04	Kg		
Total Cost For OHWT Tank (Rs)					

BILL OF QUANTITIES

UNDER GRIUND WATER TANK (8' x 5' x 6')

Ser	Description	Qty	Unit	Rate	Amount
1	Excavation over areas as in Ordinary / Hard Soil upto 0.00~1.50 M depth , in foundation / excavations, throw earth clear of edges of excavation within 50 M complete all as specified.	8.60	Cum		
2	Excavation over areas as in Ordinary / Hard Soil upto 1.50~3.00 M depth , in foundation / excavations, throw earth clear of edges of excavation within 50 M complete all as specified.	6.26	Cum		
3	Providing and laying of lean concrete using crushed or broken stone graded 1:3:6 complete all as specified.	0.44	Cum		
4	Providing and laying of RCC with 3000 psi compressive cylindrical strength all as specified in roof slabs, landings, walls, plinth beams and bands, etc., including form work complete all as specified.. Reinforcement measured and paid separately.	4.43	Cum		
5	Providing and fixing of PVC water stopper 250mm wide and 12 mm thick complete all as specified.	9.14	Metre		
6	Supply and fix, Manhole CI cover with frame, 450 mm, circular or rectangular exceeding 7.50kg each, but not exceeding 10kg/each, set in CM and haunching in Concrete, complete all as specified.	1.00	Each		
7	Providing and laying 13 mm thick terrazo floor using marble chips (1:2) with ordinary cement including cutting, rubbing except polishing complete all as specified.	3.72	Sqm		
8	Providing and laying 13 mm thick terrazo in dado skirting etc using marble chips (1:2) with ordinary cement including cutting, rubbing and polishing. including 10mm thick cement plaster 1:3 rendering complete all as specified.	14.49	Sqm		
9	13mm thick cement plaster 1:4 finished smooth complete all as specified.	27.08	Sqm		
10	Providing and laying water proofing textile Geomembrane 0.25 mm thick complete all as specified.	21.55	Sqm		
11	Supply and fix bars round, using deformed bars grade - 40 including cutting, bending, binding and placing reinforcement in position incl 5% wastage of steel complete all as specified.	428.01	Kg		
Total Cost For UGWT Tank (Rs)					

BILL OF QUANTITIES

Septic Tank (8' x 4' x 4')

Ser	Description	Qty	Unit	Rate	Amount
1	Excavation over areas as in Ordinary / Hard Soil upto 0.00~1.50 M depth, in foundation / excavations, throw earth clear of edges of excavation within 50 M complete all as specified.	7.28	Cum		
2	Excavation over areas as in Ordinary / Hard Soil upto 1.50~3.00 M depth, in foundation / excavations, throw earth clear of edges of excavation within 50 M complete all as specified.	0.62	Cum		
3	Providing and laying of lean concrete using crushed or broken stone graded 1:3:6 complete all as specified.	0.37	Cum		
4	Providing and laying of RCC with 3000 psi compressive cylindrical strength all as specified in roof slabs, landings, walls, plinth beams and bands, etc., including form work complete all as specified.. Reinforcement measured and paid separately.	2.86	Cum		
5	Providing and fixing of PVC water stopper 250mm wide and 12 mm thick complete all as specified.	8.53	Metre		
6	Supply and fix, Manhole CI cover with frame, 450 mm, circular or rectangular exceeding 7.50kg each, but not exceeding 10kg/each, set in CM and haunching in Concrete, complete all as specified.	1.00	Each		
7	Providing and laying 13 mm thick terrazo floor using marble chips (1:2) with ordinary cement including cutting, rubbing except polishing complete all as specified.	2.97	Sqm		
8	Providing and laying 13 mm thick terrazo in dado skirting etc using marble chips (1:2) with ordinary cement including cutting, rubbing and polishing. including 10mm thick cement plaster 1:3 rendering complete all as specified.	8.92	Sqm		
9	Providing and laying water proofing texture Geomembrane 0.25 mm thick over 13 mm thick Plaster (1:4) complete all as specified.	14.10	Sqm		

Septic Tank (8' x 4' x 4')

Ser	Description	Qty	Unit	Rate	Amount
10	Burnt brick work in wall 115 mm thick laid and jointed in cement mortar 1:4 straight or to curve with inner radius of 6 m and over upto 4.25 M depth complete all as specified.	0.34	Cum		
11	13mm thick cement plaster 1:4 finished smooth complete all as specified.	5.95	Sqm		
12	Supply and fix bars round, using deformed bars grade - 40 including cutting, bending, binding and placing reinforcement in position incl 5% wastage of steel complete all as specified.	336.30	Kg		
Total Cost For Septic Tank (Rs)					

BILL OF QUANTITIES

Ser	Description	Qty	Unit	Rate	Amount
Internal Sewerage Work					
1	Supply and fix, u-PVC, Soil and waste pipe 50 mm dia, complete, with plain end and solvent cement joint complete all a specified.	39.02	Metre		
2	Supply and fix, uPVC Elbow/bend, 90° 50 mm dia, complete with solvent cement joint complete all a specified.	24.00	Each		
3	Supply and fix, u-PVC, Soil and waste pipe 75 mm dia, complete, with plain end and solvent cement joint complete all a specified.	78.64	Metre		
4	Supply and fix Socket 75 mm dia complete with solvent cement joint complete all a specified.	14.00	Each		
5	Supply and fix, uPVC Elbow/bend, 90° 75 mm dia, complete with solvent cement joint complete all a specified.	20.00	Each		
6	Supply and fix, uPVC, Access/ door T 75 mm dia, complete with solvent cement joint, all as specified.	12.00	Each		
7	Supply and fix, uPVC Equal T, 75 mm dia, complete with solvent cement joint complete all as specified.	8.00	Each		
8	Supply and fix, uPVC Y- T, 75 mm dia, complete with solvent cement joint complete all as specified.	6.00	Each		
9	Supply and fix, u-PVC, Soil and waste pipe 110 mm dia, complete, with plain end and solvent cement joint complete all a specified.	148.44	Metre		
10	Supply and fix Socket 110 mm dia complete with solvent cement joint complete all a specified.	20.00	Each		
11	Supply and fix, uPVC Elbow/bend, 90° 110 mm dia, complete with solvent cement joint complete all a specified.	16.00	Each		
12	Supply and fix, uPVC, Access/ door T 110 mm dia, complete with solvent cement joint, all as specified.	16.00	Each		
13	Supply and fix, uPVC Equal T, 110 mm dia, complete with solvent cement joint complete all as specified.	12.00	Each		
14	Supply and fix, uPVC Y- T, 110 mm dia, complete with solvent cement joint complete all as specified.	12.00	Each		
15	Supply and fix Eccentric Reducer 50mm x 110mm dia complete with solvent cement joint complete all a specified.	28.00	Each		
16	Supply and fix uPVC Vent pipe 50mm bore (outside dia) complete with plain end and solvent cement joint complete all as specified.	27.44	Metre		

Ser	Description	Qty		Unit	Rate	Amount
17	Supply and fix uPVC Vent Cowl 50mm dia on top of ventilating pipes complete all as specified.	12.00		Each		
18	Providing, installing and fixing heavy duty approved quality and make uPVC AGM type or equivalent floor trap with "Faisal" make stainless steel grating including all material for fixing complete in all respect and as per specifications and directions of the Engineer.	42.00		Each		
19	Supply and fix bottle trap complete all as specified.	12.00		Each		
20	Supply and fix water closet apparatus European pattern,complete (like porta design or equivalent) complete (coupled set) comprising closet, 13 litres flushing cistern glazed in white/ivory colour complete imported (China) fixed to concrete brick stone or wood work best quality	12.00		Each		
21	Supply and fix vanity bowl glazed ware one hole complete with bottle trap waste coupling chian & plug etc (except mixer) best quality fixed to concrete, brick, stone and marble slab in any size shape white colour	12.00		Each		
22	Providing, installing and testing "faisal" make Muslim shower(hand spray) of approved quality and colour for water closet complete with Wall hook/bracket, flexible pipe,etc as per specifications and directions of the Engineer.	12.00		Each		
23	Supply and Fix Accessories bath set plastic consisting of shelf, towel rail, ring, brush holder, toilet paper holder, soap dish and mirror, complete all as specified.	12.00		Each		
24	Supply and fix, 25 mm thick, marble slab around vanity bowel, with brackets etc including cutting in any shape with machine, rubbing, polishing and making the joints water tight complete all as specified.	7.52		Sqm		
25	Supply and fix, Mirror, (any shape and pattern), 5 mm thick, edges ground, complete all as specified.	13.38		Sqm		
(A) Total For Internal Sewerage Work					(Rs)	
External Sewerage Work						
1	Excavation as in Hard Soil upto 1.5 M depth, in foundation and pipe trenches upto 1.5 M wide, in shafts, wells and independent holes upto 30 sqm each and throw earth clear of edges of excavation within 10m complete all a specified.	20.07		Cum		
2	Supply and fix uPVC Soil and waste pipe 160mm bore (outside dia) complete with plain end and solvent cement joint complete all a specified.	82.29		Metre		
3	Supply and fix 160mm dia socket complete with solvent cement joint all as specified.	21.00		Each		

Ser	Description	Qty	Unit	Rate	Amount
4	Manholes, complete, rectangular or circular as described, not exceeding 600 mm deep from invert to surface of cover, including main channel, set in CM 1:1, 230 mm thick brick walls (except manhole cover) complete all as specified.	3.39	Cum		
5	Supply and fix, Manhole CI cover with frame, 450 mm, circular or rectangular exceeding 7.50kg each, but not exceeding 10kg/each, set in CM and haunching in Concrete complete all as specified.	9.00	Each		
6	Cutting into existing manholes for connecting new drains, making goods to pipes and rendering cutting out existing benching and re-forming benching as required for new drains, making goods to existing walls etc., complete 150mm bore of pipe complete all as specified.	2.00	Each		
(B)	Total For External Sewerage Work			(Rs)	
				Total Value (A+B)	(Rs)

Summary Of MEP Works

<u>Ser</u>	<u>Description</u>	<u>Amount (Rs)</u>
1	Electrical System	
2	Water Supply	
3	Sui Gas	
Total Amount: (Rs)		

Bill of Quantities

Electrification

S.No	Description	Unit	Qty	Rate	Amount
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GENERAL NOTE

a	Scope (Application to all sections) Supply, installation, testing and commissioning of the following items of works, including all materials, labour, tools, accessories, etc required completion of each item as per specifications and approved by Engineer.				
1 Wiring					
a)	Supply, installation, testing & commissioning of electrical wiring , consisting One light point / Fan / bell Point with 3 x 1.5 mm ² copper pvc wires of Pakistan, Newage or Allied or Fast Cables as approved in PVC conduitsof appropriate size, of Popular/Dedex/Plasco recessed in walls/ coloumns/ roof slab/ Floor or fixed on surface with metal saddles, complete with accessories such as bends, sockets,circular boxes, junctionboxes etc.,cost to be included from Switch Board/DB to first point / first socket as per drawing of the circuit, complete in all respect including connections as required.	Points	248		
b)	As above but point to point (lights/fan)with 2 x 1.5 mm ² +1 x 1.5 copper PVC (ECC) wires.	Points	216		
c)	As above but from DB to switch box,5 Amp, 10/13 Amp and 15 Amp Switch Socket of 2 x4 mm ² C + 1 x 2.5 mm ² Copper	Points	66		
d)	As above but from But socket to Socket,5 Amp, 10/13 Amp and 15 Amp Switch Socket of 3 x2.5 mm ² Copper PVC wires	Points	168		
e)	Supply, installation, testing & commissioning of Coaxial cable incl pipe concealed PVC Conduit complete in all respect	Points	18		

S.No	Description	Unit	Qty	Rate	Amount
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2 Cables					
	Supply, installation, Testing & Commissioning of cables of given sizes of Pakistan cables or equivalent, approved in PVC conduits/ pipe with termination kits/ Thimbles including Cable gland and Tagging of appropriate size as approved in accordance with the situation and approval of consaltant.				
a)	2C x 16 mm ² Copper Pvc/Pvc cable to DB	RM	240		
b)	1C x 10mm ² Copper Pvc(Ecc) cable	RM	240		
c)	2C x 4mm ² Copper Pvc/Pvc cable, To Mumty DB	RM	120		
d)	1C x 1.5mm ² Copper Pvc(Ecc) cable	RM	120		
e)	1C x 6mm ² Copper Pvc (P+N) cable For ACs	RM	480		
f)	1C x 4mm ² Copper Pvc (Ecc) cable For ACs	RM	240		
3 WIRING ACCESSORIES & CABLE TRAYS					
	Supply & installation testing & commissioning of switch sheet & sockets including switches with back box of appropriate size (concealed in floor /wall or as per site requirement) of Legrand or equivalent as per maufacturer's list as approved of following discription.				

SWITCHES					
a)	1 or 2 gang one way	No	34		
b)	3 gang one way	No	6		
c)	4 gang one way	No	6		
d)	5 gang one way	No	20		
e)	2 gang Two way	No	14		
f)	Fan Dimmer	No	24		
g)	Bell	No	6		
SOCKETS					
h)	5 Amp switch Socket	No	194		
i)	15 A switch socket	No	40		
j)	TV Socket	No	18		
4 LIGHT FIXTURES					
	Supply & installation testing & commissioning Lighting fixture complete in all respect (LED Light Minimum 90 ~100 Lumens / Watt) or equivalent as per manufacturer's list as approved of following discription.				
a)	15/17W LED ceiling / recessed light fixture	No	246		
b)	12W LED Ceiling / recessed light fixture	No	16		
5 Fans					
	Supply & installation testing & commissioning Fan / Exhaust Fan with ceiling rose / sheet. as per manufacturer's list as approved of following discription.				
a)	Ceiling Fan 56/48" Energy efficient (Inverter Type) Ceiling Fan complete in all respect as manufacturer's list as approved .	No	48		
b)	Plastic Ceiling t fan as per manufacturer's list as approved .	No	6		

S.No	Description	Unit	Qty	Rate	Amount
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c)	Full Plastic 18" Dia Exhaust Fan complete in all respect as per manufacturer's list as approved .	No	12		
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S.No	Description	Unit	Qty	Rate	Amount
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6 LV PANEL, DISTRIBUTION BOARDS					
a)	Supply & Installation, testing & commissioning of Main LV panel as per Drawing, 16 SWG and angular frame, Fully powder coated in furnace of approved colour with voltmeter & ammeter, energy analyzer selector switches R.Y.B indicators, wires PVC duct, imported locks etc. complete in all respect, Make Craft Engineering . (DB Floors)	Job	6		
d)	Same as above item 6a but DB mumty as per Drawing	Job	2		
7 EARTHING SYSTEM					
a)	Earthing having earth value less then 1 ohm (One for Netural and one for Body of transformer) complete in all respect as per drawing or recommandation of Engineer in charge	Job	2		
8 Energy Meters					
a)	Supply, installation, testing & commissioning of Energy meter , as per IESCO Standerd complete in all respect.	Job	6		
TOTAL					

Sanitation Work

S.No	Description	Unit	Qty	Rate	Amount
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GENERAL NOTE

Scope (Application to all sections)					
	Supply, installation, testing and commissioning of the following items of works, including all materials, labour, tools, accessories, etc required completion of each item as per specifications and approved by Engineer.				

S.No	Description	Unit	Qty	Rate	Amount
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	<u>GI Pipes Water Tank to Bath Rooms</u>				
1	Providing, laying, cutting, jointing, testing and disinfecting G.I. pipeline in trenches, with socket joints, Elbow, Union using G.I. pipes of IIL-L Karachi complete in all respects.				
a	25 mm dia	Rft	60.00		
b	50 mm dia	Rft	570.00		
	<u>Gate Valve, Non Return / Strainer Valve</u>				
2	Providing and fixing gun metal Peet/gate valve (screwed):- (Kids / Econosto make)				
a	50 mm(2") dia	Each	8.00		
b	25 mm(1") dia	Each	6.00		
c	Non return valve with Strainer 50 mmdia	Each	2.00		
	<u>PPRC Pipe</u>				
3	Supply and Fixing of PPRC Pipe heavy duty for Cold/ Hot Water with all fitting Tee, Elbow union sockets etc fitting and testing with pressure pump concealed in walls & floor i/c hocks etc complete. RAK-THEARAM UAE or equivalent				
a	20 mm dia	Rft	120.00		
b	25 mm dia	Rft	390.00		
c	50 mm dia	Rft	300.00		
	<u>Double Bib Cock</u>				
4	Bib cock double chromium plated 1/2"Ø with muslim shower etc complete	Each	12.00		

S.No	Description	Unit	Qty	Rate	Amount
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	<u>CP Vanity Mixer</u>				
5	C.P. Vanity/ Basin mixer fancy head any pattern and shape screw down high pressure; lettered "HOT" and "COLD" with long screw shanks any fly nuts complete, supply and fixing	Each	12.00		
a	Same as above but Sink Mixer	Each	6.00		

b	Same as above but Shower Mixer	Each	12.00		
	<u>Stop/ Tee cock</u>				
6	Stopcock chromium plated screw down high pressure; fancy type; but tee stop cock	Each	36.00		
	<u>Water Cooler</u>				
7	Providing and Fixing Water Cooler General, Supreme imported comperssor copper condenser, copper motor, food grade storage tank one year warranty 35 Ltr (Orient / Heire or Equivalent)	Each	6.00		
	<u>Water Geyser</u>				
8	Providing and Fixing gas geyser(NASGAS, Singer or equivalent) 35 Gln all as spd. dual system electric & gas complete fitting etc in all respect	Each	6.00		
	<u>Water Pump</u>				
9	Providing and Fixing Water Pump Discharge 80 GPM , Head 60 meter including valve and non return valve, KSB make or equivalent with Complete Electric Fitting complete in all respect as directed by the Engineer in Charge	Job	2.00		
10	Providing and Fixing Pressure Water Pump including valve and non return valve WITH PRESSURE TANK AND SWITCH, KSB make or equivalent with Complete Electric Fitting complete in all respect as directed by the Engineer in Charge	Nos	2.00		
Total Amoun Rs =					

S.No	Description	Unit	Qty	Rate	Amount
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SUI GAS

GENERAL NOTE

	Scope (<i>Application to all sections</i>)				
	Supply, installation, testing and commissioning of the following items of works, including all materials, labour, tools, accessories, etc required completion of each item as per specifications and approved by Engineer.				

S.No	Description	Unit	Qty	Rate	Amount
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	<u>GI Pipes Water Tank to Bath Rooms</u>				
1	Providing, laying, cutting, jointing, testing and disinfecting G.I. pipeline in trenches, with socket joints, Elbow, Union using G.I. pipes of IIL-M Karachi complete in all respects.				
a	25 mm dia	Rft	560.00		
b	20 mm dia	Rft	210.00		
	<u>Gate Valve, Non Return / Strainer Valve</u>				

2	Providing and fixing gun metal Peet/gate valve (screwed):- (Kids / Econosto make)				
a	25 mm(1") dia	Each	6.00		
b	20 mm(1") dia	Each	30.00		
	<u>Gas Heater and Cooking Range</u>				
3	Providing and Fixing gas heater(NASGAS, Singer or equivalent) Two Plate type complete fitting etc in all respect	Each	24.00		
a	Providing and Fixing 3 burner cooking range (NASGAS, Singer or equivalent) Two Plate all as spd. dual system electric & gas complete fitting etc in all respect	Each	6.00		
	<u>Gas meter</u>				
4	Providing and Fixing Gas Meter including valve and regulator, mullar tee, as per SNGPL Standerd with Complete Fitting in all respect as directed by the Engineer in Charge	Job	6.00		
Total Amoun Rs =					

