

**Summary Of MEP Works**

**CONSTRUCTION OF G I K GYM**

<b><u>Ser</u></b>	<b><u>Description</u></b>	<b><u>Amount (Rs)</u></b>
1	Electrical	-
2	WATER SUPPLY	-
3	SEWERAGE	-
4	CIVIL WORKS	-
<b>Total Amount: (Rs)</b>		-

**BILL OF QUANTITIES FOR  
CONSTRUCTION OF G I K GYM**

Ser	Description	Qty	Unit	Rate (Rs)	Amount
<b>Sub Structure / Footing Upto FFL</b>					
1	<b>Excavation over areas</b> as in Ordinary / Hard Soil <b>upto 1.50 M depth</b> , in foundation / excavations, throw earth clear of edges of excavation within 50 M complete all as specified.	195.30	Cum		
2	<b>Excavation over areas</b> as in Ordinary / Hard Soil <b>upto 3.00 M depth</b> , in foundation / excavations, throw earth clear of edges of excavation within 50 M complete all as specified.	122.26	Cum		
3	<b>Termite proofing</b> of New buildings with approved chemicals except joinery complete all as specified.	261.71	Sqm		
4	Bottoming /sub base of any thickness as specified using Granular Sub Base material, laid and compacted to 100% Modified AASHTO density by appropriate compaction equipment and roller complete all as specified.	160.00	Cum		
5	Providing and laying of <b>lean concrete</b> using crushed or broken stone graded <b>1:3:6</b> complete all as specified.	9.52	Cum		
6	Providing and laying of <b>PCC with 3000 psi</b> compressive cylindrical strength in all non- structural elements including formwork complete all as specified.	0.81	Cum		
7	Providing and laying of <b>RCC with 3000 psi</b> compressive cylindrical strength in <b>foundations</b> , independent column footings, and rigid floors etc. including form work complete all as specified.	35.00	Cum		
8	Providing and laying of <b>RCC with 3000 psi</b> compressive cylindrical strength in different structural elements i.e. <b>columns</b> beams, stairs, posts, struts, piers, lintels, and the like including form work, complete all as specified. Reinforcement measured and paid separately. <b>(Columns Upto FFL)</b>	1.53	Cum		
9	<b>Burnt brick work, in wall over 115 mm thick</b> , laid and jointed in <b>CM 1:3</b> , straight or to curve with inner radius of 6m and over, <b>upto 4.25 m depth</b> complete all as specified. <b>(Upto R.L)</b>	19.10	Cum		
10	<b>Burnt brick work, in wall over 115 mm thick</b> , laid and jointed in <b>CM 1:3</b> , straight or to curve with inner radius of 6m and over, <b>upto G.F roof level</b> complete all as specified. <b>(R.L to FFL)</b>	11.88	Cum		

**BILL OF QUANTITIES FOR  
CONSTRUCTION OF G I K GYM**

Ser	Description	Qty	Unit	Rate (Rs)	Amount
11	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. <b>(Flat Iron Ties)</b>	41.62	Kg		
12	Providing and laying of <b>RCC with 3000 psi</b> compressive cylindrical strength in different structural elements i.e in roof slabs, landings, walls, <b>plinth beams</b> and bands etc. including form work complete all as specified. Reinforcement measured and paid separately. <b>(Plinth Beams)</b>	4.57	Cum		
13	<b>Vertical DPC</b> consisting of 2 x coats of water proofing compound, using Bitumen 10/20, applied hot @ 4.90 Kg /10sqm over 13mm thick DPC of CM 1:3 mixed with approved water resistant material 3% by weight complete all as specified.	346.32	Sqm		
14	<b>Earth filling</b> as in Ordinary or hard soil, filling in <b>foundation</b> , pipe trenches, shafts, wells, independent holes, <b>under floors or around plinths</b> etc., 1.50 M below or above Ground Level (GL), with spoil obtained from excavation in trenches/over areas within 50M including watering and compaction in 150 mm layer and dressing to required profile and shape complete all as specified.	181.81	Cum		
15	<b>Dispose off Surplus material</b> like earth etc from site, Load "materials" (like excavated soil / rock, demolished brick bats, bricks, sand and bitumen etc.), by any means upto 1000 M, unload and stack or spread complete all as specified.	135.75	Cum		
16	Providing and laying of sand cushion under floor complete all as specified.	22.26	Cum		
17	Providing and laying <b>PCC 1:3:6</b> , laid under floor using crushed or broken stones complete all as specified.	22.45	Cum		
<b>Total Amount For Footing Upto FFL / Sub Structure</b>				<b>Rs</b>	
<b>Super Structure</b>					
1	<b>Burnt brick work, in wall over 115 mm thick</b> , laid and jointed in <b>CM 1:3</b> , straight or to curve with inner radius of 6m and over, <b>upto G.F roof level</b> complete all as specified.	56.41	Cum		

**BILL OF QUANTITIES FOR  
CONSTRUCTION OF G I K GYM**

Ser	Description	Qty	Unit	Rate (Rs)	Amount
2	<b>Burnt brick work, in walls 115 mm thick</b> , laid and jointed in <b>CM 1:3</b> , straight or to curve with inner radius of 6m and over, upto <b>G.F roof level</b> complete all as specified.	4.06	Cum		
3	<b>Burnt brick work, in wall over 115 mm thick</b> , laid and jointed in <b>CM 1:3</b> , straight or to curve with inner radius of 6m and over, upto <b>F.F roof level</b> complete all as specified.	12.54	Cum		
4	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. ( <b>Flat Iron Ties</b> )	110.98	Kg		
5	Providing and laying of <b>RCC with 3000 psi</b> compressive cylindrical strength in different structural elements i.e. <b>columns beams</b> , stairs, posts, struts, piers, <b>lintels</b> , and the like including form work, complete all as specified.	18.76	Cum		
6	Providing and laying of <b>RCC with 3000 psi</b> compressive cylindrical strength in different structural elements i.e in <b>roof slabs</b> , landings, <b>walls</b> , plinth beams and bands etc. including form work complete all as specified. Reinforcement measured and paid separately.	49.78	Cum		
7	13mm thick cement plaster 1:4 finished as specified. ( <b>Ceiling</b> )	334.18	Sqm		
8	13mm thick cement plaster 1:4 finished as specified. ( <b>Internal Walls</b> )	435.54	Sqm		
9	13mm thick cement plaster 1:4 finished as specified. ( <b>External</b> )	722.41	Sqm		
10	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.	8.00	Cum		
11	19 mm thick Cement Plaster 1:3, for under tiles as rendering finished as specified (Basement, GF, FF and 2nd floor) complete all as specified.	262.43	Sqm	0	-
12	Providing and laying, Mosaic tiles, 300 mm x 300 mm x 25 mm of white cement, on walls and floors laid, set in CM (1:2) and joints grouted with white / coloured cement, chemical polished, complete all as specified.	275.17	Sqm	0	-

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Ser	Description	Qty	Unit	Rate (Rs)	Amount
13	Providing and laying Standard quality tiles of any make not exceeding 1600 Sq cm, including setting, jointing and bonding, over 13 mm thick cement plaster (1:4) as rendering complete all as specified.	45.33	Sqm		
14	Providing and laying 20 mm thick Standard quality granite tiles (Indus gold, Tropical), of any size, including setting, jointing, pointing and chemical polishing over 13mm thick cement plaster (1:4) as rendering complete all as specified.	43.86	Sqm		
15	Supply and fix, 12mm thick Plate Glass partition/door in any size including all necessary accessories i.e. pivot machine, handle lock etc complete all as specified.	53.84	Sqm		
16	Supply and fix, Stainless steel Hand railing using 3/4" to 2" dia, 16 to 18 Gauge pipe with all fittings etc. as per specifications.	14.02	Metre		
17	3 x Coats of painting on new work such as walls including all detached attachment with <b>Plastic Emulsion paint</b> incl urface preparation by using putty on plastered wall or ceiling to form smooth base for plastic emulsion paint etc complete all as specified.	769.73	Sqm		
18	3 x coats of <b>weather shield paint</b> on exterior wall on new surface.	722.41	Sqm		
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 as DG Section complete all as specified.	52.58	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.	36.88	Sqm		
21	Supply and fix, <b>Steel Chowkat press-moulded 16 SWG, for 115 mm walls</b> , 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) complete all as specified.	21.79	Metre		

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Ser	Description	Qty	Unit	Rate (Rs)	Amount
22	Supply and fix, <b>Steel Chowkat press-moulded 16 SWG, for 200 mm walls</b> , 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) complete all as specified.	11.89	Metre	0	-
23	Supply and fix <b>38mm thick 1st Class Soft Wood (Deodar) Framed and Panelled doors</b> , 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).	14.28	Sqm	0	-
24	Supply and fix <b>Rim / Alpha lock</b> Premium Quality, all as specified complete all as specified.	6.00	Each	0	-
25	Supply and fix, <b>fillets</b> 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.	67.36	Metre	0	-
26	<b>Termite proofing of wooden joinery</b> , with approved chemical complete all as specified.	42.87	Sqm	0	-
27	Supply and fix, Wooden Lockers made of MDF Lassani sheet complete as per user requirements.	14.31	Mtr	0	-
28	Roof insulation consisting of 2 x coats of hot bitumen applied hot @ 0.75 Kg/Sqm 1st coat and 1.11 Kg/sqm @ 2nd coat, double layer of polythene sheet, 63 mm thick PCC 1:2:4 screeding over 38mm x 44mm wire mesh complete all as specified.	212.21	Sqm		-
<b>Internal Sewerage Work</b>					
1	Supply and fix, u-PVC, Soil and waste pipe 75 mm dia, complete, with plain end and solvent cement joint complete all a specified.	7.92	Metre		
2	Supply and fix Socket 75 mm dia complete with solvent cement joint complete all a specified.	2.00	Each		
3	Supply and fix, uPVC Elbow/bend, 90° 75 mm dia, complete with solvent cement joint complete all a specified.	3.00	Each		
4	Supply and fix, uPVC, Access/ door T 75 mm dia, complete with solvent cement joint, all as specified.	1.00	Each		
5	Supply and fix, uPVC Equal T, 75 mm dia, complete with solvent cement joint complete all as specified.	1.00	Each		
6	Supply and fix, uPVC Y- T, 75 mm dia, complete with solvent cement joint complete all as specified.	1.00	Each		
7	Supply and fix, u-PVC, Soil and waste pipe 110 mm dia, complete, with plain end and solvent cement joint complete all a specified.	7.62	Metre		

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Ser	Description	Qty	Unit	Rate (Rs)	Amount
8	Supply and fix Socket 110 mm dia complete with solvent cement joint complete all a specified.	1.00	Each		
9	Supply and fix, uPVC Elbow/bend, 90° 110 mm dia, complete with solvent cement joint complete all a specified.	2.00	Each		
10	Supply and fix, uPVC, Access/ door T 110 mm dia, complete with solvent cement joint, all as specified.	2.00	Each		
11	Supply and fix, uPVC Equal T, 110 mm dia, complete with solvent cement joint complete all as specified.	2.00	Each		
12	Supply and fix, uPVC Y- T, 110 mm dia, complete with solvent cement joint complete all as specified.	2.00	Each		
13	Supply and fix Eccentric Reducer 50mm x 110mm dia complete with solvent cement joint complete all a specified.	2.00	Each		
14	Supply and fix uPVC Vent pipe 50mm bore (outside dia) complete with plain end and solvent cement joint complete all as specified.	4.57	Metre		
15	Supply and fix uPVC Vent Cowl 50mm dia on top of ventilating pipes complete all as specified.	2.00	Each		
16	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.	3.00	Each		
17	Supply and fix bottle trap complete all as specified.	2.00	Each		
18	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	2.00	Each		
19	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	2.00	Each		
20	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.	2.00	Each		
21	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.	2.00	Each		

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CONSTRUCTION OF G I K GYM**

Ser	Description	Qty	Unit	Rate (Rs)	Amount
22	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.	1.77	Sqm		
23	Supply and fix, Mirror, (any shape and pattern), 5 mm thick, edges ground, complete all as specified.	2.83	Sqm		
<b>External Sewerage Work</b>					
1	Excavation & Back filling as in Hard Soil upto 1.5m 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 10 m. Timbering to be paid extra (Trench over 1.5 m width will be treated as areas) complete all a specified.	7.08	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.	15.24	Metre		
3	Supply and fix 160mm dia socket complete with solvent cement joint all as specified.	2.00	Each		
4	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.	1.00	Each		
5	Manholes complete rectangular or circular as described n.exceeding 600mm deep form inverted to surface of cover, including main channel set in CM 1:1, 230mm thick brick walls complete all a specified.	1.08	Cum		
6	Supply and fix manhole cast iron cover with frame 450mm circular or rectangular, exceeding 7.50 kg / each set in cement mortar and haunching in concrete complete all a specified.	2.00	Each		
<b>Total Amount For Super Structure</b>				<b>Rs</b>	
<b>Steel Gd-60 &amp; 40</b>					
1	Supply and fix bars round, using deformed bars grade - 40 including cutting, bending, binding and placing reinforcement in position.	7177.08	Kg		
2	Supply and fix bars round, using deformed bars grade - 60 including cutting, bending, binding and placing reinforcement in position.	3442.83	Kg		
<b>Total Amount for Steel</b>				<b>Rs</b>	
<b>Grand Total Amount for Civil Works (A~C)</b>				<b>Rs</b>	



**BILL OF QUANTITIES****CONSTRUCTION OF G I K GYM****UNDER GRIUND WATER TANK (8' x 5' x 6')**

Ser	Description	Qty	Unit	Rate	Amount
1	<b>Excavation over areas</b> as in Ordinary / Hard Soil upto <b>0.00~1.50 M depth</b> , in foundation / excavations, throw earth clear of edges of excavation within 50 M complete all as specified.	8.60	Cum		
2	<b>Excavation over areas</b> as in Ordinary / Hard Soil upto <b>1.50~3.00 M depth</b> , 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 <b>lean concrete</b> using crushed or broken stone graded <b>1:3:6</b> 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		
<b>Total Cost For UGWT Tank (Rs)</b>					

**BILL OF QUANTITIES****CONSTRUCTION OF G I K GYM****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.	0.38	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.	2.83	Cum		
3	Providing and fixing of PVC water stopper 250mm wide and 12 mm thick complete all as specified.	8.53	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.	1.00	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.	3.25	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.	8.92	Sqm		
7	13mm thick cement plaster 1:4 finished smooth complete all as specified.	20.81	Sqm		
8	3 x Coat of weather shield paint on exterior wall on new surface complete all as Specified.	20.81	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.	353.52	Kg		
<b>Total Cost For OHWT Tank (Rs)</b>					<b>-</b>

## BILL OF QUANTITIES

### CONSTRUCTION OF G I K GYM

#### Job Rate For 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 <b>lean concrete</b> using crushed or broken stone graded <b>1:3:6</b> 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 <b>complete all as specified.</b>	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 <b>specified</b>	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 <b>specified</b>	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		

**Job Rate For Septic Tank (8' x 4' x 4')**

<b>Ser</b>	<b>Description</b>	<b>Qty</b>	<b>Unit</b>	<b>Rate</b>	<b>Amount</b>
9	Providing and laying water proofing textile Geomembrane 0.25 mm thick over 13 mm thick Plaster (1:4) complete all as specified.	14.10	Sqm		
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		
<b>Total Cost For OHWT &amp; Fire Fighting Tank (Rs)</b>					<b>-</b>

**BILL OF QUANTITIES FOR  
ELECTRICAL WORKS**

S.No	DESCRIPTION OF ITEMS	QTY.	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	<b>Wiring &amp; Accessories ( Cable Make: Fast, Pakistan Cable , AGE)</b>				
1.1	Supply, installation & testing of following items, clipped to the surface or concealed in the building fabric, including all conduit & wiring accessories, as per drawings & instructions. Complete in all respect.				
	<b>Lights and Fans Points ( Cable Make: Fast, Pakistan Cable , AGE)</b>				
a)	Wiring of light and fan point with 3x1.5 sq.mm or 3/0.029" single core PVC insulated 450/750 V grade copper wire in 25mm dia. PVC conduit surface/ concealed, Tray or duct where required, mounted including all accessories, etc; 1.0 sq.mm 3-core PVC/PVC cable in flexible PVC conduit for final connection, complete in all respects.	145	Points		0
b)	Wiring of light/ Power circuits from DB to switch board(s) with 3x1C-2.5 sq.mm or 7/0.029" PVC cables drawn in 20 mm dia PVC conduits, cable tray/duct where required, including termination & labelling at both ends.	18	Points		0
	<b>Power Points ( Cable Make: Fast, Pakistan Cable , AGE)</b>				
c)	Wiring for power socket 15Amp circuits from DB with 3x1C-2.5 sqmm or 7/0.029" PVC cables in 25 mm dia PVC conduit, cable tray/duct where required including termination & labelling at both ends.	40	Points		0
d)	Wiring of Light socket 5 Amp with 3x1C-2.5 sq.mm PVC cables drawn in 20 mm dia PVC conduits, cable tray/duct where required, including termination & labelling at both ends.	80	Points		0
<b>Sub Total of Wiring &amp; Accessories Rs.</b>					<b>0</b>
2	Supply and installation of following 10A one way gang type switches / sockets ( <b>Clipsal, Orange or equivalent</b> ) as per design drawings, complete in all respect. Incl Back Box: Supply and installation of 16 SWG sheet steel powder coated or Galvanized back box with brass earth terminal, complete in all respect. ( for switch socket and switch sheet)				
a)	Two gang switch unit	2	Nos.		0
b)	Three gang switch unit	6	Nos.		0
c)	Four gang switch unit	2	Nos.		0
d)	Three gang switch unit	1	Nos.		0
e)	Five gang switch unit	10	Nos.		0
f)	Seven gang switch unit	9	Nos.		0
g)	5/10A Multi-Pin switch socket unit.	20	Nos.		0
h)	15A Power socket unit.	20	Nos.		0
<b>Sub Total of &amp; Accessories Rs.</b>					<b>0</b>
3	<b>Light (Make Philips or OSAKA) &amp; Fan Fixtures (Make Pak Fan , Lahore, Asia)</b>				
3.1	Installation of following fixtures including hangers, supports & all mounting / fixing accessories, complete in all respect.				
a)	Ceiling type Downlight fixture 17/18 W LED	50	Nos.		0
c)	Wall Bracket Light 20 watt LED	40	Nos.		0
d)	Exhaust Fan 10" dia plastic body. Make: Pak fan deluxe with ceiling louver and flexible duct	3	Nos.		0
e)	Wall bracket fan , Make: Pak Fan (Energy Efficient)	12	Nos.		0
	<b>Exhaust Fan</b>				
4.1	Providing & installing metal body exhaust fans 12" with Louvres	6	Nos.		0
<b>Sub Total of &amp; Accessories Rs.</b>					<b>0</b>
a)	MAIN PANEL	1	Nos.		0
b)	ATS PANEL	1	Nos.		0
<b>Sub Total of L.V. Switchgear Rs.</b>					<b>0</b>
6	<b>Earthing System</b>				
6.1	Providing and Installing of <b>S&amp;S Engineering</b> , comprising of : 38 mm x 3 m, straight shaft Tin Electroplated copper 2 x electrode, filled with soil conditioning chemical compound. Boring 4" dia x 11 feet. Earth Conductivity Enhancement Compound – Primary Earth Conductivity Enhancement Compound – Secondary One set of brass nut / bolt size 3/8" x 1.5", washer etc.	1	Nos.		0
6.2	Providing, fixing & connecting 450 mm x 100 mm x 6 mm Earth test terminal with brass nuts/bolts & washer as per drawing	1	Nos		0
<b>Sub Total of Earthing System Rs.</b>					<b>0</b>
<b>Sub Total</b>					<b>-</b>

**Bill Of Quantities OF Plumbing Works ( Water supply)**

S.No	Item of Work	Qty	Unit	Rate	Amount
<b>PLUMBING WORKS (Water Supply)</b>					
1	Providing, installing and testing water supply piping outside/inside the building for washrooms//kitchen/abulution, etc., making connection to the respective cold and hot water supply piping as required for a complete job. The work shall include cutting of the chases in walls,etc, and patching them up after the job completion, preparation of the necessary sleeved openings as required. Piping material shall be "G.I, Medium " manufactured by <b>"(I.I.L)"or equivalent</b> as per approval, complete with all the necessary fittings (Tee, elbow, bend, connector, Reducer, union etc),clamps,special seismic hanger supports, flexible connection with insulation etc,as needed for a complete job. Isolation valves to the respective areas shall be provided as marked in drawings or mentioned in notes given there and are included in the cost. Piping are as under:				
	a) Internal dia: 50 mm	65	Rft		0
	b) Internal dia: 75 mm	10	Rft		0
	c) Internal dia: 25 mm	80	Rft		0
2	Providing, installing and testing water supply piping(both cold and hot) inside the building/toilet/wash areas, etc., making connection to the respective cold and hot water supply piping as required for a complete job. The work shall include cutting of the chases in walls,etc, and patching them up after the job completion, preparation of the necessary sleeved openings (Core Cutting) as required. Piping material shall be PPR, PN 20 as per Dwg, manufactured by <b>"Kalde Turkey, Dadex, Thermoplast Germany or equivalent</b> as per approval, complete with all the necessary fittings (Tee, elbow, bend, connector, Reducer (Threded / Plain), union etc), clamps, special seismic hanger supports, flexible connection etc,as needed for a complete job. Isolation valves to the respective areas shall be provided as marked in drawings or mentioned in notes given there and are included in the cost. Piping are as under:				
	a) Internal dia: 15mm dia	20	Rft		0
	b) Internal dia: 25mm dia	100	Rft		0
3	Providing, installing, and testing <b>"KITZ Japan"</b> make different size of Brass valves of approved make, quality as per Specifications and directions of the Engineer shown below and given in the drawing.				
	i.Gate valve				
	a.) 50 mm dia	2	No.		0
4	Providing, installing and testing of <b>"Faisal"</b> make or approved equivalent quality wash hand mixer, T-stop cocks, chrome plated copper pipe for each cold and hot water pipe connection, etc., complete as per specifications and directions of the Engineer.	2	No.		0
5	Providing, installing and testing of <b>"Faisal"</b> make or approved equivalent quality Sink Mixer, chrome plated copper pipe for each cold and hot water pipe connection, etc., complete as per specifications and directions of the Engineer.	1	No.		0
6	Providing and fixing <b>"Faisal"</b> make or approved equivalent double bib cock/taps 1/2" dia with matellic spendal and Toilet Shower, including all material for fixing complete in all respect and as per specifications and directions of the Engineer.	6	No.		0
7	Providing and fixing <b>"Faisal"</b> make or approved equivalent Wash hand Basin mixer,)including all material for fixing complete in all respect and as per specifications and directions of the Engineer.	2	No.		0

9	Providing and Fixing <b>"NAS GAS"</b> make or approved equivalent instant Electric Water Heaters/Geyser 11 gln capacity, complete with thermostat, safety valve, valves etc. as per specifications and directions of the Engineer.	1	No.		0
<b>Grand Total in Rs:</b>					<b>0</b>

**BILL OF QUANTITIES FOR**  
**CONSTRUCTION OF G I K GYM**

**SEWERAGE & SAINTARY WORK**

Ser	Description	Qty	Unit	Rate	Amount
<b>Internal Sewerage Work</b>					
1	Supply and fix uPVC Soil and waste pipe 75mm bore (outside dia) complete with plain end and solvent cement joint complete all a specified.	30.00	Metre	-	-
2	Supply and fix 75mm dia socket complete with solvent cement joint complete all a specified.	10.00	Each	-	-
3	Supply and fix 75mm dia uPVC Elbow/bend 90 <sup>0</sup> complete with solvent cement joint and rubber ring complete all as specified.	10.00	Each	-	-
4	Supply and fix uPVC Access/door tee 75mm dia complete with solvent cement joint all as specified	5.00	Each	-	-
5	Supply and fix uPVC Soil and waste pipe 110mm bore (outside dia) complete with plain end and solvent cement joint complete all a specified.	30.00	Metre	-	-
6	Supply and fix 110mm dia socket complete with solvent cement joint complete all a specified.	10.00	Each	-	-
7	Supply and fix 110mm dia uPVC Elbow/bend 90 <sup>0</sup> complete with solvent cement joint and rubber ring complete all as specified.	6.00	Each	-	-
8	Supply and fix uPVC Access/door tee 110mm dia complete with solvent cement joint all as specified	6.00	Each	-	-
9	Supply and fix, uPVC Equal T, 110 mm dia, complete with solvent cement joint, all as specified.	4.00	Each	-	-
10	Supply and fix uPVC Vent pipe 50mm bore (outside dia) complete with plain end and solvent cement joint complete all as specified.	21.94	Metre	-	-
11	Supply and fix uPVC Vent Cowl 50mm dia on top of ventilating pipes complete all as specified.	3.00	Each	-	-



## CONSTRUCTION OF G I K GYM

### SEWERAGE & SAINTARY WORK

Ser	Description	Qty	Unit	Rate	Amount
12	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.	3.00	Each	-	-
13	Supply and fix casted grating, chromium plated, 150mm x 150mm complete all as specified.	3.00	Each	-	-
14	Supply and fix bottle trap complete all as specified.	2.00	Each	-	-
15	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	2.00	Each	-	-
16	Supply and Fix, WC Asiatic pattern not less than 550 mm with flushing system complete all as specified.	2.00	Each	-	-
17	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	2.00	Each	-	-
18	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.	2.00	Each	-	-
20	Providing and laying, 20mm thick Granite marble in coloured/ Pattern, Imported, European Origin (Italy or Equivalent) polishing complete as in floors, steps, walls , & around vanities etc, laid & jointed in white / coloured cement (1: 2) completer all as specified.	1.60	Sqm	-	-
21	Supply and fix mirror, any shape and pattern, 5mm thick imported edges ground complete, fixed to concrete,brick, stone, or wood work complete all as specified.	1.50	Sqm	-	-

## CONSTRUCTION OF G I K GYM

### SEWERAGE & SAINTARY WORK

Ser	Description	Qty	Unit	Rate	Amount
<b>External Sewerage Work</b>					
40	Supply and fix uPVC Soil and waste pipe 160mm bore (outside dia) complete with plain end and solvent cement joint complete all a specified.	30.00	Metre		-
3	Supply and fix 160mm dia socket complete with solvent cement joint all as specified.	10.00	Each		-
<b>Total Amount (Rs)</b>					<b>-</b>