



**SINDH HIGH COURT KARACHI**  
**BREAKUP OF COST SUMMARY**

S.NO.	BUILDINGS	AMOUNT	
	<b><u>5TH FLOOR</u></b>		
A	CIVIL WORKS (STRUCTURAL & ARCHITECTURAL WORKS)	RS.	
B	PLUMBING WORKS	RS.	
C	ELECTRICAL WORKS / AIR CONDITION WORKS	RS.	
	<b>TOTAL COST</b>	<b>RS.</b>	

S.NO.	BUILDINGS	AMOUNT	
	<b><u>6TH FLOOR</u></b>		
A	CIVIL WORKS (STRUCTURAL & ARCHITECTURAL WORKS)	RS.	
B	PLUMBING WORKS	RS.	
C	ELECTRICAL WORKS / AIR CONDITION WORKS	RS.	
D	ELECTRICAL COMMON ITEMS FOR 5TH & 6TH FLOOR	RS.	
	<b>TOTAL COST</b>	<b>RS.</b>	

**TOTAL COST (5TH & 6TH FLOOR)**

S.NO.	BUILDINGS	AMOUNT	
A	CIVIL WORKS	RS.	
B	PLUMBING WORKS	RS.	
C	ELECTRICAL WORKS / AIR CONDITION WORKS I/C COMMON ITEMS FOR 5TH & 6TH FLOOR	RS.	
	<b>TOTAL COST</b>	<b>RS.</b>	

BILL OF QUANTITIES

S.No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT RS.
1	<b><u>STEEL REINFORCEMENT (Super Structure)</u></b> Providing and laying, Cutting, bending, fabricating, binding, hoisting, and placing in position all level Deformed Grade 60 steel reinforcement with 60,000 psi yield strength ASTM A 615 including tying with binding wire of gauge, and fixing of chairs, pins, unspecified laps, included but not paid separately, concrete cover blocks etc. complete in all respects as per drawings, specification and to the approval of the Engineer.	Tone.	147		
2	<b><u>Reinforced Cement Concrete (R.C.C)</u></b> Providing & laying of R.C.C Concrete in columns with mentioned cylindrical strength 4000 psi at 28 days with O.P Cement, including Steel formwork, Ready mix batching plant pumped concrete, compacting through vibrator, curing for 14 days & removal of formwork after 21 days. complete in all respect, as per drawing, specification and to the approval of the Engineer.				
a)	Lift	Cft	951		
b)	Super Structure Columns	Cft	4,129		
3	<b><u>Reinforced Cement Concrete (R.C.C)</u></b> Providing & laying of R.C.C Concrete in Stair Case, Beams & slab with mentioned cylindrical strength 3200 psi at 28 days with O.P Cement, including Steel formwork, ready mix batching plant pumped concrete, compacting through vibrator, curing for 14 days & removal of formwork after 21 days. complete in all respect, as per drawing, specification and to the approval of the Engineer.				
a)	Roof Beams	Cft	7,228		
b)	Slab	Cft	14,607		
c)	Stair Case	Cft	1,380		
4	<b><u>BLOCK MASONRY IN SUPERSTRUCTURE</u></b> Providing and laying cement concrete Solid Block wall masonry (Size of block, 6" x 8" x 12") minimum 900 psi compressive strength up to any height set with 1:6 cement mortar, including scaffolding / Racking out joints block cutting etc. complete in all respects as per drawings, Technical Provisions and or as directed by the Engineer incharge.				
a)	6" Thick Wall	Sft	4,815		
b)	8" Thick Wall	Sft	12,755		
c)	12" Thick Wall	Sft	554		
d)	6" Thick Walls (Parapet Wall)	Sft	508		

BILL OF QUANTITIES

S.No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT RS.
5	<b><u>Internal Plaster</u></b> Providing and applying cement plaster 3/4" thick with ratio of 1:5 on ceiling sides and soffit of beams, on internal sides of walls, columns beams exposed concrete surfaces including nicking of concrete surface, making edges, corners, grooves 22 SWG expanded metal 9" wide over block masonry and concrete joints, with G.I Sheet Corner beads curing and scaffolding etc. complete in all respect as per drawings, Technical Provisions and or as directed by the Engineer Incharge.				
A)	Internal sides				
a)	Main Bldg. (Walls)	Sft	46,292		
b)	Main Bldg. (Ceiling)	Sft	23,104		
c)	Main Bldg. (Columns)	Sft	5,696		
6	<b><u>External Finish Plaster</u></b> Providing and applying 3/4" Finish cement plaster (1:5) on external sides of walls, concrete, parapet etc. including making edges, corners, grooves, 22 SWG expanded metal 9" wide over block masonry and concrete joints, curing and scaffolding etc. at any height complete in all respect as per drawings, Technical Provisions and or as directed by the Engineer Incharge.				
a)	Main Bldg. (Walls)	Sft	10,452		
b)	Parapet Wall	Sft	3,453		
7	<b><u>Grey Marble Tile Flooring</u></b> Providing and laying 3/4" thick Grey Marble Tiles for Flooring in cement with approved colour & shade size 12"X12" or 12"X24" or approved including a base of cement sand mortar (1:3), 1" thick, including compacting, curing, cutting, grouting with matching colour, Chemical Polish complete in all respect as per drawings Technical Provisions or as directed by the Engineer Incharge.				
		Sft	2,008		
8	<b><u>Verona Marble Flooring 1'X1' &amp; 2'X1'</u></b> Providing and Laying local 3/4" thick Verona marble tile flooring size (1'X1' & 2'X1') or approved size set in cement mortar (1:5), 1" thick, curing, compacting, Cutting, grouting with matching color grinding, polishing etc. complete in all respect as per drawings Technical Provisions or as directed by the Engineer Incharge .				
		Sft	4,855		



BILL OF QUANTITIES

S.No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT RS.
9	<b><u>Verona Marble Skirting</u></b> Providing and Laying 1/2" thick local Verona marble tile 4" high skirting, fine dressed in the surface including set in cement mortar (1:5), 1" thick, curing, compacting, grinding, polishing etc. complete in all respect as per drawings Technical Provisions or as directed by the Engineer Incharge .	Rft	5,139		
10	<b><u>Green Marble Tile Border</u></b> Providing and Laying Indian Green marble tiles finish Border (6" wide) 3/4" thick specified area over cement sand mortar (1:5), 1" thick, curing, compacting, grinding, polishing etc. complete in all respect as per drawings Technical Provisions or as directed by the Engineer Incharge.	Rft	2,234		
11	<b><u>Marble Motive on Flooring</u></b> 4'-0"X4'-0" or approved size Marble motive on flooring, comprising of with 6" wide Indian green marble outer side, with 6" wide Dark Brownish local marble on local Verona marble thickness of all marble in 3/4" thick set over 1" thick 1:5 cement sand mortar base, complete in all respect as per drawings Technical Provisions or as directed by the Engineer Incharge.	Nos.	7		
12	<b><u>Porcelain Tiles (Flooring)</u></b> Providing and laying Gloss finish Imported Porcelain Tiles Flooring (2' x 2') or approved size in white cement with approved colour & shade including a base of cement sand mortar (1:4) 1" thick, including 1-1/2" thick P.C.C (1:2:4) compacting, curing, cutting, grouting with matching color complete in all respect as per drawings Technical Provisions or as directed by the Engineer Incharge.	Sft	14,961		
13a	<b><u>Porcelain Tiles (Skirting)</u></b> Providing and laying Gloss finish local Porcelain Tiles Skirting 4" high in white cement with approved colour & shade including a base of cement sand mortar (1:4) 1" thick, including compacting, curing, cutting, grouting with matching color complete in all respect as per drawings Technical Provisions or as directed by the Engineer Incharge.	Rft	1,430		
13b	<b><u>Water Proofing for Bathroom</u></b> Providing and applying of water proofing on bath rooms floor and walls upto certain height as per drawings using CERESIT CR66 (Acrylic Cementitious Coating) or approved material including chipping, cleaning and two coats of finish materials complete in all respect.	Sft	2,633		



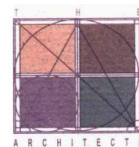
BILL OF QUANTITIES

S.No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT RS.
13c	<b><u>Bath Sunk Area Filling</u></b> Providing and laying 6" ~ 8" thick Sunk Slab Filling for Bath area includes 2"thick 1:2:4 screed over water proofing, with flower pots filled with coal and 1:2:4 concrete top, complete in all respect as per drawing and detail.	Sft	1,163		
14	<b><u>Ceramic Matt Tiles for Flooring</u></b> Providing and laying Imported Ceramic Matt Finish Tiles in bath for Flooring (6" x 12") or approved size in white cement with approved colour & shade including a base of cement sand mortar (1:3), 1" thick, including 1-1/2"thick P.C.C (1:2:4) compacting, curing, cutting, grouting with matching color complete in all respect as per drawings Technical Provisions or as directed by the Engineer Incharge.	Sft	1,163		
15	<b><u>Ceramic Matt Tiles on Walls</u></b> Providing and laying Imported ceramic matt finish tiles in Bath room upto Door height size (6" x 12") or approved in white cement with approved colour & shade including a base of cement sand mortar (1:3), 1" thick, including compacting, curing, cutting, grouting with matching color complete in all respect as per drawings Technical Provisions or as directed by the Engineer Incharge.	Sft	3,782		
16	<b><u>M.S. Grill</u></b> Preparing and fixing iron steel grill in staircase area using solid square bars of size 3/4"X 3/4" X 4'-6" = 9 nos placed at 6" C/C and frame of flat iron patti of 1-1/2"X1/4"X 6'-0"=12 nos i/c circle shape at 4 nos 4-1/2" dia a part equivalent fitted with weld are pins i/c painting 3 coats with Ist coat of red oxide paint etc. complete in all respect as per drawings Technical Provisions or as directed by the Engineer Incharge.	Sft	76		
17	<b><u>Distemper Paint</u></b> Providing and applying 3-coats of Distemper paint to internal plastered ceiling surfaces (ICI/Burger Pakistan or equivalent) of approved colour and shade including preparation of surface i.e. sand papering carborandam stone, filling, & primer etc. complete in all respect as per drawings, Technical Provisions and or as directed by the Engineer Incharge.	Sft	24,264		



BILL OF QUANTITIES

S.No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT RS.
18	<b><u>Plastic Emulsion Paint</u></b> Providing and applying 3-coats of plastic emulsion paint to internal plastered walls, columns etc. surfaces (ICI/Burger Pakistan or equivalent) of approved colour and shade including preparation of surface i.e. sand papering carborandum stone, filling, & primer etc. complete in all respect as per drawings, Technical Provisions and or as directed by the Engineer Incharge.	Sft	75,093		
19	<b><u>Marble for Staircase</u></b> Providing and laying Local Verona colour Marble 3/4" thick in white cement with approved colour & shade for Stair case including a base of cement sand mortar (1:3), 1" thick, including 1-1/2"thick P.C.C (1:2:4) compacting, curing, cutting, grouting with matching color, Chemical Polish, edge grinding complete in all respect as per drawings Technical Provisions or as directed by the Engineer Incharge.				
a)	Tread	Sft	933		
b)	Riser	Sft	467		
c)	Landing	Sft	497		
20	<b><u>Wood/ Metal Railing for Passage</u></b> Providing and Fixing in position vertical m.s. railing includes 1-1/4"X1-1/4" m. s. hollow square @ 6" c/c with 1-1/4"X1/8" thick m.s. strip on top and bottom, welded / fitted with pins, also Burma Teak Top Gola size 3"X2" or approved , placed horizontally over metal Railing includes primer coat and three coats of enamel Paint on metal surface and lacquer polish finish surface, complete in all respect as per drawing, Technical provisions and as directed by the Engineer Incharge.	Sft	908		
21	<b><u>Wood/ Metal Railing for Stair.</u></b> Providing and Fixing in position Berma teak wood and m.s. stair railing comprising of teak wood 3"X2" horizontally and 1"X 1" X 2" Top vertically square solid bar with lath works and horizontally m.s flat iron patti at 2 nos top and 2 nos bottom size 1-1/2"x1/4" of fitted with weld are pins i/c painting 3 coats enamel with Ist coat of red oxide paint etc. approved quality complete in all respect as per drawing, Technical provisions and as directed by the Engineer Incharge.	Sft	458		



BILL OF QUANTITIES

S.No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT RS.
22	<b>Wooden Paneled door(Single Leaf) Size=2.5'X7'</b> Providing and making & fixing in position single leaf best quality Burma teak wood Paneled door 1-3/4" thick shutter both sides beading 3"X1/2"thick specification i/c 7"X2" solid Burma Teak Wood Frames includes Termite proofing, Solignum coating lacquer polish on wood, with approved hardware, hold fast, brass tower bolts, brass handles, brass hinges, brass screws, with teak wood cords and cleats etc complete in all respect as per drawing, Technical provisions and as directed by the Engineer Incharge.	Sft	239		
23	<b>Wooden Paneled door (Single Leaf) Size=3' &amp; 3.25X9'</b> Providing and making & fixing in position single leaf wooden paneled door includes best quality Burma teak chowkat 9"X2"and both sides beading 3"X1/2" thick both sides with Paneled door 1-3/4" thick shutter (7'-0" high) with glazed 8mm thick safety frosted glass (4mm+0.76film+4mm) plain glass (2'-0" high ) specification i/c 7"X2" solid Burma Teak Wood Frames includes Termite proofing, Solignum coating lacquer polish on wood, with approved hardware, hold fast, brass tower bolts, brass handles, brass hinges, brass screws, with teak wood cords and cleats etc complete in all respect as per drawing, Technical provisions and as directed by the Engineer Incharge.	Sft	298		
24	<b>Wooden Paneled door(Double Leaf)size = 5'X9'</b> Providing and making & fixing in position double leaf door shutters with frame includes best quality Burma teak, beading 3"X1/2" thick both sides with Paneled door 1-3/4" thick shutter (3'-0" high) with 8mm safety frosted glass includes safety film glazed (6'-0" high) as per specification i/c 9"X2" solid Burma Teak Wood Frames includes Termite proofing, Solignum coating lacquer polish on wood, with approved hardware, hold fast, brass tower bolts, brass handles, brass hinges, brass screws, with teak wood cords and cleats etc complete in all respect as per drawing, Technical provisions and as directed by the Engineer.	Sft	614		





BILL OF QUANTITIES

S.No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT RS.
25	<b><u>Wooden Ventilator 10'X2'</u></b> Providing and fixing best quality Burma teak Ventilation, with frame size 9"X2"and beading 3"X1/2" thick both sides with ventilator fully glazed with 8mm thick clear glass 1-3/4" thick sliding shutter includes Termite proofing course or approved as per specification i/c hold fast, brass tower bolts, brass handles, eye hooks, s.s. hinges, brass screws, with teak wood cords and cleats etc with lacquer polishing complete in all respect as per drawing, Technical provisions and as directed by the Engineer Incharge.	Sft	84		
26	<b><u>Wooden Windows</u></b> Providing and fixing best quality Burma teak windows includes frames chowkat 9"X2"and beading 3"X1/2" thick both sides with windows fully glazed with 8.76 mm thick safety frosted glass with imported film 1-3/4" thick sliding shutter includes Termite proofing course or approved as per specification i/c lacquer polish on wood, with approved hardware hold fast, brass tower bolts, brass handles, eye hooks, s.s. hinges, brass screws, with teak wood cords and cleats etc complete in all respect as per drawing, Technical provisions and as directed by the Engineer Incharge.	Sft	1,562		
27	<b><u>Marble Counter Top</u></b> Providing and fixing 3/4"thick Verona or approved marble top in Bath (24" wide) fixed 1" thick cement mortar (1:3) or fixed with Rawal Bolts including cutting on both sides of walls for fixing curing and chemical polishing, rounding front edge, cutting for basin hole complete in all respect as per drawings technical provision as directed by the Engineer incharge.	Sft	76		
28	<b><u>Marble Urinal Partition</u></b> Providing and fixing 3/4"thick approved Local marble urinal partion including 1" thick cement mortar (1:3) for cutting on walls or fixed with clamp including curing and chemical polishing, rounding front edge complete in all respect as per drawings technical provision as directed by the Engineer incharge.	Sft	69		



BILL OF QUANTITIES

S.No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT RS.
29	<b><u>MIRROR</u></b> Providing and Fixing in Position approved best quality imported 5mm thick looking mirror fixed on back ply, chemical treatment to prevent dampness, etc. complete in all respect as per drawings Technical Provision and or as directed by the Engineer Incharge.	Sft	141		
30	<b><u>Porcelain Tile on Lift Wall</u></b> Approved imported porcelain 1'X2' laid over 3/4" thick cement mortar base in 1:4 ratio, includes tiles cutting, matching grouting in lift wall including finishing etc, complete in all respect as per drawings Technical Provision and or as directed by the Engineer Incharge.	Sft	500		
31	<b><u>Acrylic Graffato</u></b> Providing and Applying 5mm or approved Acrylic Graffato Coating, to External surfaces of approved colour and shade including preparation of surface, complete in all respect as per drawings Technical Provision and or as directed by the Engineer Incharge.				
a)	Main Bldg. (Walls)	Sft	10,452		
b)	Parapet Wall	Sft	3,453		
32	<b><u>Dismantling/Demolition</u></b> Dismantling/Removing of existing construction at any height including tools and equipment, taking all necessary precautionary measures, cleaning away surplus from site.				
a)	Roof Screed 3" thick Avg. 1:2:4 cement concrete.	Sft	26,700		
b)	R.C.C Concrete includes Beams, Columns and slab.	Cft	3,045		
c)	Block Masonary/Plaster	Sft	7,190		
33	<b><u>2" Wide Expansion Joint Treatment on Floor</u></b> Providing, fixing and laying Expansion joint treatment in R.C.C Slab on <b>Floor</b> as per drawing, specification and as per direction of the Architects. The rate shall include the following, a) Indo Flex MS 5253 joint sealent (Schomberg Origin) b) 3" diameter Poly Ethylene Backer Rod c) Thermopore sheet in gap between beams under baker rod	Rft	180		



BILL OF QUANTITIES

S.No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT RS.
<b>34</b>	<b><u>FIXING DOWEL REINFORCEMENT WITH EPOXY</u></b>				
	Providing and fixing ASTM 615 A Grade 60 dowel reinforcement (48"+ embedded length) on existing slab top at column location complete in all respect as per drawings, specifications and as per directions of the Architects. The items shall include the following				
34.1	Drilling Holes, cleaning of column surface from top, Tools, plants and equipments for power drilling, cleaning the drilled holes of dust/dirt by blowing air etc.				
34.1.a	30mm dia hole 250mm long (for 25mm dia bar)	/ hole	1225		
34.1.b	25 mm dia hole 250mm long (for 20mm dia bar)	/ hole	750		
34.1.c	20mm dia hole 200 mm long for (16mm dia bar)	/ hole	600		
34.1.d	16mm dia hole 200 mm long for (12mm dia bar)	/ hole	250		
34.2	Providing and Inserting Fischer FIS EM 319 epoxy				
34.2.a	30mm dia hole 250mm long	/ hole	1225		
34.2.b	25 mm dia hole 250mm long	/ hole	750		
34.2.c	20mm dia hole 200 mm long	/ hole	600		
34.2.d	16mm dia hole 200 mm long	/ hole	250		
34.3	Providing & Fixing of Dowel Reinforcement				
34.3.a	25mm dia bar	/ dowel	1225		
34.3.b	20mm dia bar	/ dowel	750		
34.3.c	16mm dia bar	/ dowel	600		
34.3.d	12mm dia bar	/ dowel	250		
<b>35</b>	<b><u>Water Spout</u></b>				
	Providing and Fixing in position pre-cast concrete water spouts size 12" x 8" or as per drawing to be fixed with cement mortar for rain water complete in all respect as per drawing & details				
		Nos.	10		
	<b>TOTAL VALUE OF WORK</b>				



Summary Of Plumbing Works		
1	Water Supply Works	Rs.
2	Drainage Works	Rs.
3	Plumbing Fixtures	Rs.
		Total Amount:



S.No	DESCRIPTION OF ITEM	QTY.	UNIT	RATE	AMOUNT
	<b>DIVISION 15 A - PLUMBING WORKS</b>				
	All items under this head to be carried out as per specifications, Drawings and relevant BSI/ASTM Standards to the entire satisfaction of the Engineer.				
	<b>WATER SUPPLY:</b>				
	<b>ABOVE GROUND COLD/HOT WATER PIPING:</b>				
1	Supply, installation Testing and Commissioning of PPR PN - 20 Cold/Hot water pipes as per DIN 8077-8078 with molded fittings PN - 25 as per DIN 16962, including pipe supports as indicated on the drawing, as per specifications and Engineers approval. <b>Brands:- Cosmonlast Vesbo Rektherm</b>				
	(i) ¾" dia.	65	Rft.		
	(ii) 1" dia.	110	Rft.		
	(iii) 1½" dia.	40	Rft.		
	(iv) 2" dia.	100	Rft.		
	<b>ISOLATION/GATE VALVE:</b>				
2	Providing and fixing of brass (PPR coated) ball valves as indicated on the drawing and as specified in specifications <b>Brands:- Cosmoplast, Vesbo, Rektherm</b>				
	(i) ¾" dia.	3	Nos.		
	(ii) 1" dia.	2	Nos.		
	(iii) 1½" dia.	2	Nos.		
	(iv) 2" dia.	1	Nos.		
<b>Sub Total for Water Supply</b>					
	<b>DRAINAGE WORKS</b>				
	<b>SOIL, WASTE &amp; VENT SYSTEM:</b>				
1	Providing, fixing, Testing and commissioning of uPVC pipes Class 'B' Pipes and Solvent fittings as per BS 4660 for above ground installations for Soil, Waste, Vent & Rw pipes including cleanout plug, clamps, hanger collars, supports, specials (bend, tees, Y-tee etc.) as indicated on the drawing, as per specifications and Engineers approval. <b>Brands:- Marley, Terrain, Cosmoplast, Wavin</b>				
	(i) 2" dia	30	Rft.		
	(ii) 3" dia	175	Rft.		
	(iii) 4" dia	75	Rft.		

S.No	DESCRIPTION OF ITEM		QTY.	UNIT	RATE	AMOUNT
	<b>DRAINAGE SPECIALTIES</b>					
2	Providing and fixing of PVC floor Trap with multiple inlets and 3" dia outlet with S.S grating the approved design as per specifications <b>Brands:- Marley, Terrain, Cosmoplast, Wavin</b>		10	Nos		
3	Providing and fixing UPVC vent cowl for pipe of the following dia including all accessories complete in all respects. <b>Brands:- Marley, Wavin AS, Terrain, Polydex</b>					
	(i)	3" dia	7	Nos.		
	(ii)	4" dia	4	Nos.		
<b>Sub Total for Drainage</b>						
	<b>PLUMBING FIXTURES:</b>					
1	Providing and fixing first quality European type water closet by Porta/Master or Equivalent with 6 liters flush tank, build in S-Trap, Stop cock with flexible pipe as per drawings, specifications and Engineers Approval. <b>Brands:- Porta, Kholer, Zilver/Master</b>		6	Nos.		
2	Providing and fixing of counter type wash basin by Porta or Equivalent with mixer by Porta/Zilver/Master, two (2) nos. Stop cocks with Flexible Connection, flexible drain pipe to floor drain as per drawings, specifications and engineers approval.		12	Nos.		
3	Providing and fixing first quality Eastern water closet by Porta or Equivalent for Servants rooms with 6 liters flush tank, S-Trap, stop cock and flexible pipe as per as per drawings, specifications and Engineers Approval. <b>Brands:- Porta, Master, Sonex/Zilver</b>		7	Nos.		
4	Supply and Installation of urinal by porta with 6.0 Liters Flush Tank in false ceiling, waste trap, bib cock, Stop cocks, Flexible Connection as per drawings, specifications and engineers approval.		6	Nos.		
5	Providing and fixing bath toilet accessories as under by Sonex or Equivalent:					
	(i)	Toilet Paper Holder	-	Nos.		
	(ii)	Soap Dish / Glass shelf	-	Nos.		
	(iii)	Double Bib Cock with Hand Spray / Muslim shower	7	Nos.		
<b>Sub Total for Fixtures</b>						

### **Summary of Electrical Works**

1	Wiring & accessories	Rs.
2	Light & Fan Fixture	Rs.
3	Race Ways	Rs.
4	L.V Switch Gear	Rs.
5	Main/Sub-main Feeders	Rs.
6	Data & Voice System	Rs.
7	Fire Alarm System	Rs.
8	Close Circuit TV System	Rs.
9	Air-Conditioning	Rs.

**Total Amount:**

Date : \_\_\_\_\_

BILL OF QUANTITIES

S.No	DESCRIPTION OF ITEMS	QTY.	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	<b>Wiring &amp; Accessories</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.				
a)	Wiring of light / fan point controlled by one switch with 3x1C-1.5 sq. mm PVC cables drawn in 20/25mm dia PVC conduits, including 1.5 mm, powder coated MS back box and gang switches. Make: (1). Cables: Pakistan Cables Ltd / Pioneer Cables Ltd. (2). PVC Conduits & accessories: Jeddah / Galco. (3). Switches: Clipsal E-series / Legrand	170	Nos		
b)	Wiring of light point to light point with 3x1C-1.5 sq.mm PVC cables drawn in 20/25mm dia PVC conduits.	210	Nos		
c)	Wiring of two way light point controlled by two way switch with 4x1C-1.5 sq.mm PVC cables drawn in 20mm dia PVC conduits including 1.5 mm, powder coated MS back box and two way switches.	2	Nos		
d)	Wiring of light circuits from DB to switch board(s) or 1st SSO with 3x1C-2.5 sq.mm PVC cables drawn in 20 mm dia PVC conduits, including termination & labelling at both ends.	47	Nos		
e)	Wiring for power circuits from DB to 1st SSO or A/C with 3x1C-4 sqmm PVC cables in 20 mm dia PVC conduit, including termination & labelling at both ends.	25	Nos		
f)	Wiring for A/C circuit from DB to A/C or industrial socket unit with 3x1C-6.0 sqmm PVC cables drawn in 25 mm dia PVC conduit, including termination & labelling at both ends.	41	Nos		
g)	Wiring of SSO to SSO with 3x1C-2.5 sq.mm PVC cables drawn in 20 mm dia PVC conduits, including termination & labelling at both ends. (side by side or back to back will not be payable).	85	Nos		
h)	Wiring of SSO to SSO with 3x1C-4.0 sq.mm PVC cables drawn in 20 mm dia PVC conduits, including termination & labelling at both ends. (side by side or back to back will not be payable).	75	Nos		
i)	Wiring of CC TV Camera power from CC TV switch board to CC TV Camera with 3x1C-1.5 sq.mm PVC cables drawn in 20mm dia PVC conduits, including termination & labelling at both ends.	2	Nos		



**BILL OF QUANTITIES**

S.No	DESCRIPTION OF ITEMS	QTY.	UNIT	RATE (Rs.)	AMOUNT (Rs.)
j)	Wiring of CC TV Camera power from CC TV to CC TV Camera with 3x1C-1.5 sq.mm PVC cables drawn in 20mm dia PVC conduits, including termination & labelling at both ends.	6	Nos		
1.2	Supply & Installation of following Switch Socket Outlets (SSO) on already installed boxes.				
a)	5 Amp 3 Pin SSO. Make: Legrand / Clipsal	100	Nos		
b)	13 Amp Flat Pin SSO. Make: Legrand / Clipsal	172	Nos		
c)	15 Amp 3Pin SSO. Make: Legrand / Clipsal	4	Nos		
d)	Industrial Plug / Socket Outlet 65A 3pin. Make: Garo / Clipsal	6	Nos		
e)	16 Amp Shoko socket Make: Legrand / Clipsal	8	Nos		
f)	52A DP safety breaker in metal enclosure. Make: Karamera	46	Nos		
	Fan dimmer Make: Legrand / Clipsal	53	Nos		
1.3	Providing & fixing of following technology / floor boxes made of 1.5 mm sheet steel, power coated with earth terminal.				
a)	Floor box 300 X 300 X 50 mm, with 4 nos. SSO fixture plate.	45	Nos		
b)	1.5 mm, powder coated 4 gang technology box with earthing terminal.	41	Nos		
c)	1.5 mm, powder coated ms back box with earthing terminal.	40	Nos		
	<b>Sub Total of Wiring &amp; Accessories Rs.</b>				
<b>2</b>	<b>Light &amp; Fan Fixtures</b>				
2.1	Supply & Installation of following light fixtures complete with lamps, starters, holders, electronic ballast etc including hangers, supports & all mounting / fixing accessories, complete in all respect & as per consultants approval.				
a)	Smart panel light fixture with 1 x 40 watts LED lamp. Make: Osaka	170	Nos		
b)	Smart panel light fixture with 1 x 18 watts LED lamp. Make: Osaka	102	Nos		
c)	Smart panel light fixture with 1 x 6 watts LED lamp. Make: Osaka	43	Nos		
d)	Exhaust fan 8" dia Plastic Body	1	Nos		
e)	Exhaust fan 12" dia Matel Body with GI ducting	3	Nos		
f)	Automatic hand dryer Make: Siemens	4	Nos		
g)	Ceiling fan 56" dia with fan box Make : Pak / Royal	53	Nos		
	<b>Sub Total of Light &amp; Fan Fixtures Rs.</b>				

BILL OF QUANTITIES

S.No	DESCRIPTION OF ITEMS	QTY.	UNIT	RATE (Rs.)	AMOUNT (Rs.)
<b>3</b>	<b>Race ways</b>				
3.1	Supply & Installation of following sizes of conduits with all accessories, clipped to the surface or concealed in building fabric or to be laid in floor including cutting /excavation & back filling, complete in all respect.				
a)	UPVC pipe 75 mm dia	50	Mtr		
b)	UPVC pipe 38 mm dia	100	Mtr		
c)	PVC pipe 25 mm dia	2000	Mtr		
d)	PVC pipe 20 mm dia	2000	Mtr		
3.2	Providing & fixing of cable tray with cover 300 x 75 mm made of 1.5 mm, G.I sheet steel,solid,with all fixing accessoiress (Fixing Brackets with rawal bolts) and as per site condition.	120	Mtr		
	<b>Sub Total of Race ways Rs.</b>				
<b>4</b>	<b>L.V. Switchgear</b>				
4.1	Supply, installation, testing & commissioning of following factory assembled, pre-wired panel / distribution boards, concealed in wall or surface mounted or floor standing, 1.5/2.0 mm MS sheet steel fabricated, 120 microns powder coated, suitable for 500 volts, 3phase, 4wires, 50Hz, incorporate following components and configration, complete with all mounting & connecting accessories as per drawings. Make: (1). Manufacturer: Uneeqe Engineering / Engineers & Engineering . (2). Circuit breakers: Terasaki / ABB. (3). Indication lamps: Camsco. (4). Control Fuse: Camsco.				
a)	MAIN DB-1	1	No		
b)	DISTRIBUTION BOARD "A"	1	No		
c)	DISTRIBUTION BOARD "B"	1	No		
d)	DISTRIBUTION BOARD "AC-A"	1	No		
e)	DISTRIBUTION BOARD "AC-B"	1	No		
f)	DISTRIBUTION BOARD "UPS-1"	1	No		
g)	DISTRIBUTION BOARD "UPS-2"	1	No		
h)	DISTRIBUTION BOARD "UPS-3"	1	No		
	<b>Sub Total of L.V. Switchgear Rs.</b>				
<b>5</b>	<b>Main / Sub-main Feeders</b>				
5.1	Supply, installation & termination at both ends of following main/sub-main cables in already installed Pipes complete as per site requirements				
a)	2x95 mm sq 4core PVC/PVC Cable +2x95 mm sq 1 core PVC Cable.	50	Mtr		
b)	1x70 mm sq 4core PVC/PVC Cable +2x35 mm sq 1 core PVC Cable.	65	Mtr		
c)	1x10 mm sq 4core PVC/PVC Cable+1x10 mm sq 1 core PVC Cable.	65	Mtr		
d)	1x16 mm sq 1core PVC/PVC Cable for cable tray ECC.	60	Mtr		
e)	3x16 mm sq 1core PVC/PVC Cable	20	Mtr		
	<b>Sub Total of Main / Sub-main Feeder Rs.</b>				

**BILL OF QUANTITIES**

S.No	DESCRIPTION OF ITEMS	QTY.	UNIT	RATE (Rs.)	AMOUNT (Rs.)
<b>6</b>	<b>Data &amp; Voice System</b>				
6.1	Supply, pulling & fluke testing of Data or Voice cables in PVC Pipe, including labeling at both ends as per drawings. Make: Clipsal / Systimax.				
a)	20 Pair jelly filled telephone Cable	75	Mtrs		
b)	Cat-5e UTP Cable in already laid PVC Pipe or cable tray	3000	Nos		
c)	Cat-6 UTP Cable in already laid PVC Pipe or cable tray	3000	Nos		
6.2	Supply, installation and connecting of telephone Junction box 1.5 mm MS sheet steal fabricated, 120 micron powder coated, surface mounted or concealed in wall with locking arrangements and comprising with 10x10 pairs tag blocks. Make: Korne / Clipsal.	1	Nos		
6.3	Supply, installation & termination of face plates comprising as follows. Make: Clipsal / Systimax.				
a)	1No RJ-45, CAT-6 I/O	86	Nos		
b)	1No RJ-11 socket outlet	86	Nos		
6.4	Supply, Installation & termination of 24 port RJ-45 Cat-6 UTP Patch Panel complete with all accessories. Make: Clipsal / Systimax.	4	Nos		
6.5	Supply, Installation & termination of 24 port RJ-45 Cat-6, GIGA Speed Switch, complete with all accessories. Make: 3 COM.	4	Nos		
6.6	Supply & installation of 48 U rack, made of 1.5mm sheet steel, powder coated, complete with cable management, troughs, labels, cable holder, cable guide and two exhaust fans. A cable extention lead with 4x13A sockets is to be provided & installed. The job	1	Nos		
6.7	Supply & installation of following sizes of Cat-6 UTP (RJ-45 to RJ-45)certified patch cords. Make: Clipsal / Systimax.				
a)	1 meter long	86	Nos		
b)	3 meter long	86	Nos		
	<b>Sub Total of Data &amp; Voice System Rs.</b>				

**BILL OF QUANTITIES**

S.No	DESCRIPTION OF ITEMS	QTY.	UNIT	RATE (Rs.)	AMOUNT (Rs.)
<b>7</b>	<b>Conventional Fire Alarm System</b>				
7.1	Wiring of conventional F/A system in 20mm dia PVC conduit clipped to be surface or concealed in building fabric, complete as per drawing.				
a)	2 X 1.5 sqmm FR cables.	42	Nos		
7.2	Supply, installation & testing of Fire Alarm system .Devices with MS back boxes.				
a)	Smoke Detector. Make : Horinglih	32	Nos		
b)	Heat Detector. Make : Horinglih	1	No		
c)	Manual Call Point. Make : Horinglih	7	Nos		
d)	Fire Alarm Bell. Make : Horinglih	2	Nos		
e)	End of line resistance. Make : Horinglih	2	Nos		
	<b>Sub Total of Conventional Fire Alarm System Rs.</b>				
<b>8</b>	<b>Close Circuit TV System.</b>				
8.1	Supply, pulling & testing of following CCTV wiring in 20mm dia PVC Pipe including labelling at both ends. Make: WISI / Saxton.				
a)	Co-axial cable double shielded RG-59 B/U	8	Nos		
b)	RG-6 Socket outlet on 1.5 mm powder coated MS back box.	8	Nos		
c)	Cable Junction Box 300x250x100 mm made of 1.5 mm sheet steel, powder coated with locking arrangement.	3	Nos		
8.2	Supply, Installation, Testing, Commissioning, Training & Programming of following CCTV System. Make : Samsung				
a)	Indoor Cameras: 2.8mm Fixed Lens, Compact, light weight & stylish Design, DC12V (fixed type.)	8	Nos		
	<b>Sub Total of Close Circuit TV System Rs.</b>				

**BILL OF QUANTITIES**

S.No	DESCRIPTION OF ITEMS	QTY.	UNIT	RATE (Rs.)	AMOUNT (Rs.)
<b>9</b>	<b>Air-Conditioning</b>				
9.1	Supply & Installation of following split A/C units. Make : Mitsubshi				
a)	2.0 tonne Wall mounted type.	40	Nos		
b)	1.5 tonne Wall mounted type.	6	Nos		
9.2	Supply, installation & testing of refrigerant piping (5/8" +3/8") with rubber foam instullation, protected with tape. Control wiring in 20mm dia PVC pipe, complete in all respect.Make: Muller USA	700	Mtr		
9.3	Supply, installation & testing of refrigerant piping (1/2" +1/4") with rubber foam instullation, protected with tape. Control wiring in 20mm dia PVC pipe, complete in all respect. Make: Muller USA	100	Mtr		
9.4	Supply & installation of UPVC pipe Class-D with all accessories including cutting of wall / floor etc.Make: JEDDAH / DADEX				
a)	20 mm dia.	800	Mtr		
9.5	Supply & installation of frame for A/C compressor made with 2"x1/4" MS angle iron including 2 coats of anti rust paint & finally black enamel paint. Anti vibration pads to be fixed on exterior wall, complete in all respect.	46	Nos		
	<b>Sub Total of Air-Conditioning Rs.</b>				

BILL OF QUANTITIES

S.No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT RS.
<b>1</b>	<b><u>STEEL REINFORCEMENT (Super Structure)</u></b> Providing and laying, Cutting, bending, fabricating, binding, hoisting, and placing in position all level Deformed Grade 60 steel reinforcement with 60,000 psi yield strength ASTM A 615 including tying with binding wire of gauge, and fixing of chairs, pins, unspecified laps, included but not paid separately, concrete cover blocks etc. complete in all respects as per drawings, specification and to the approval of the Engineer.	Tone.	157		
<b>2</b>	<b><u>Reinforced Cement Concrete (R.C.C)</u></b> Providing & laying of R.C.C Concrete in columns with mentioned cylindrical strength 4000 psi at 28 days with O.P Cement, including Steel formwork, Ready mix batching plant pumped concrete, compacting through vibrator, curing for 14 days & removal of formwork after 21 days. complete in all respect, as per drawing, specification and to the approval of the Engineer.				
a)	Lift	Cft	1,647		
b)	Super Structure Columns	Cft	4,616		
<b>3</b>	<b><u>Reinforced Cement Concrete (R.C.C)</u></b> Providing & laying of R.C.C Concrete in Stair Case, Beams & slab with mentioned cylindrical strength 3200 psi at 28 days with O.P Cement, including Steel formwork, ready mix batching plant pumped concrete, compacting through vibrator, curing for 14 days & removal of formwork after 21 days. complete in all respect, as per drawing, specification and to the approval of the Engineer.				
a)	Roof Beams	Cft	7,853		
b)	Slab	Cft	15,502		
c)	Stair Case	Cft	1,380		
<b>4</b>	<b><u>BLOCK MASONRY IN SUPERSTRUCTURE</u></b> Providing and laying cement concrete Solid Block wall masonry (Size of block, 6" x 8" x 12") minimum 900 psi compressive strength up to any height set with 1:6 cement mortar, including scaffolding / Racking out joints block cutting etc. complete in all respects as per drawings, Technical Provisions and or as directed by the Engineer incharge.				
a)	6" Thick Wall	Sft	6,882		
b)	8" Thick Wall	Sft	12,755		
c)	12" Thick Wall	Sft	554		
d)	6" Thick Walls (Parapet Wall)	Sft	2,531		

BILL OF QUANTITIES

S.No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT RS.
5	<b><u>Internal Plaster</u></b> Providing and applying cement plaster 3/4" thick with ratio of 1:5 on ceiling sides and soffit of beams, on internal sides of walls, columns beams exposed concrete surfaces including nicking of concrete surface, making edges, corners, grooves 22 SWG expanded metal 9" wide over block masonry and concrete joints, with G.I Sheet Corner beads curing and scaffolding etc. complete in all respect as per drawings, Technical Provisions and or as directed by the Engineer Incharge.				
A)	Internal sides				
a)	Main Bldg. (Walls)	Sft	50,813		
b)	Main Bldg. (Ceiling)	Sft	24,292		
c)	Main Bldg. (Columns)	Sft	5,696		
6	<b><u>External Finish Plaster</u></b> Providing and applying 3/4" Finish cement plaster (1:5) on external sides of walls, concrete, parapet etc. including making edges, corners, grooves, 22 SWG expanded metal 9" wide over block masonry and concrete joints, curing and scaffolding etc. at any height complete in all respect as per drawings, Technical Provisions and or as directed by the Engineer Incharge.				
a)	Main Bldg. (Walls)	Sft	14,351		
b)	Parapet Wall	Sft	5,758		
7	<b><u>Grey Marble Tile Flooring</u></b> Providing and laying 3/4" thick Grey Marble Tiles for Flooring in cement with approved colour & shade size 12"X12" or 12"X24" or approved including a base of cement sand mortar (1:3), 1" thick, including compacting, curing, cutting, grouting with matching colour, Chemical Polish complete in all respect as per drawings Technical Provisions or as directed by the Engineer Incharge.				
		Sft	2,008		
8	<b><u>Verona Marble Flooring 1'X1' &amp; 2'X1'</u></b> Providing and Laying local 3/4" thick Verona marble tile flooring size (1'X1' & 2'X1') or approved size set in cement mortar (1:5), 1" thick, curing, compacting, grinding, polishing etc. complete in all respect as per drawings Technical Provisions or as directed by the Engineer Incharge .				
		Sft	3,511		
9	<b><u>Verona Marble Skirting .</u></b> Providing and Laying 1/2" thick local Verona marble tile 4" high skirting, fine dressed in the surface including set in cement mortar (1:5), 1" thick, curing, compacting, grinding, polishing etc. complete in all respect as per drawings Technical Provisions or as directed by the Engineer Incharge .				
		Rft	4,828		



BILL OF QUANTITIES

S.No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT RS.
10	<b><u>Green Marble Tile Border</u></b> Providing and Laying Indian Green marble tiles finish Border (6" wide) 3/4" thick specified area over cement sand mortar (1:5), 1" thick, curing, compacting, grinding, polishing etc. complete in all respect as per drawings Technical Provisions or as directed by the Engineer Incharge.	Rft	2,234		
11	<b><u>Marble Motive on Flooring</u></b> 4'-0"X4'-0" or approved size Marble motive on flooring, comprising of with 6" wide Indian green marble outer side, with 6" wide Dark Brownish local marble on local Verona marble thickness of all marble in 3/4"thick set over 1" thick 1:5 cement sand mortar base, complete in all respect as per drawings Technical Provisions or as directed by the Engineer Incharge.	Nos.	7		
12	<b><u>Porcelain Tile (Flooring)</u></b> Providing and laying Gloss finish Imported Porcelain Tiles Flooring (2' x 2') or approved size in white cement with approved colour & shade including a base of cement sand mortar (1:4) 1" thick, including 1-1/2"thick P.C.C (1:2:4) compacting, curing, cutting, grouting with matching color complete in all respect as per drawings Technical Provisions or as directed by the Engineer Incharge.	Sft	14,961		
13a	<b><u>Porcelain Tiles (Skirting)</u></b> Providing and laying Gloss finish local Porcelain Tiles Skirting 4" high in white cement with approved colour & shade including a base of cement sand mortar (1:4) 1" thick, including compacting, curing, cutting, grouting with matching color complete in all respect as per drawings Technical Provisions or as directed by the Engineer Incharge.	Rft	1,430		
13b	<b><u>Water Proofing for Bathroom</u></b> Providing and applying of water proofing on bath rooms floor and walls upto certain height as per drawings using CERESIT CR66 (Acrylic Cementitious Coating) or approved material including chipping, cleaning and two coats of finish materials complete in all respect.	Sft	2,633		
13c	<b><u>Bath Sunk Area Filling</u></b> Providing and laying 6" ~ 8" thick Sunk Slab Filling for Bath area includes 2"thick 1:2:4 screed over water proofing, with flower pots filled with coal and 1:2:4 concrete top, complete in all respect as per drawing and detail.	Sft	1,163		

BILL OF QUANTITIES

S.No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT RS.
14	<b><u>Ceramic Tiles for Flooring</u></b> Providing and laying Imported Ceramic Matt finish Tiles in bath for Flooring (6" x 12") or approved size in white cement with approved colour & shade including a base of cement sand mortar (1:3), 1" thick, including 1-1/2"thick P.C.C (1:2:4) compacting, curing, cutting, grouting with matching color complete in all respect as per drawings Technical Provisions or as directed by the Engineer Incharge.	Sft	1,163		
15	<b><u>Ceramic Matt Tiles in Walls</u></b> Providing and laying Imported ceramic matt finish tiles in Bath room upto Door height size (6" x 12") or approved in white cement with approved colour & shade including a base of cement sand mortar (1:3), 1" thick, including compacting, curing, cutting, grouting with matching color complete in all respect as per drawings Technical Provisions or as directed by the Engineer Incharge.	Sft	3,782		
16	<b><u>1:2:4 Concrete Floor in Machine Room and Staircase</u></b> Providing and Laying 3" thick 1:2:4. concrete using screened, graded crushed aggregate 3/4" down for floor in 4'X4' Panels etc. complete in all respect as per drawings Technical Provisions or as directed by the Engineer Incharge .	Sft	416		
17	<b><u>M.S. Grill (Staircase)</u></b> Preparing and fixing m.s steel grill in staircase area using solid square bars of size 3/4"X 3/4" X 4'-6" = 9 nos placed at 6" C/C and frame of flat iron patti of 1-1/2"X1/4"X 6'-0"=12 nos i/c circle shape at 4 nos 4-1/2" dia a part equivalent fitted with weld are pins i/c painting 3 coats with Ist coat of red oxide paint etc. complete in all respect as per drawings Technical Provisions or as directed by the Engineer Incharge.	Sft	76		
18	<b><u>Distemper Paint</u></b> Providing and applying 3-coats of Distemper paint to internal plastered ceiling surfaces (ICI/Berger Pakistan or equivalent) of approved colour and shade including preparation of surface i.e. sand papering carborandam stone, filling, & primer etc. complete in all respect as per drawings, Technical Provisions and or as directed by the Engineer Incharge.	Sft	25,452		

BILL OF QUANTITIES

S.No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT RS.
19	<b><u>Plastic Emulsion Paint</u></b> Providing and applying 3-coats of plastic emulsion paint to internal plastered walls, columns etc. surfaces (ICI/Berger Pakistan or equivalent) of approved colour and shade for staircase including preparation of surface i.e. sand papering carborandum stone, filling, & primer etc. complete in all respect as per drawings, Technical Provisions and or as directed by the Engineer Incharge.	Sft	79,839		
20	<b><u>Marble for Staircase</u></b>				
	Providing and laying Local Verona colour Marble 3/4" thick in white cement with approved colour & shade including a base of cement sand mortar (1:3), 1" thick, including 1-1/2"thick P.C.C (1:2:4) compacting, curing, cutting, grouting with matching color, Chemical Polish, edge grinding complete in all respect as per drawings Technical Provisions or as directed by the Engineer Incharge.				
a)	Tread	Sft	933		
b)	Riser	Sft	467		
c)	Landing	Sft	497		
21	<b><u>Wood/ Metal Railing for Passage</u></b> Providing and Fixing in position Burma vertical m.s. railing includes 1-1/4"X1-1/4" m. s. hollow square @ 6" c/c with 1-1/4"X1/8" thick m.s. strip on top and bottom, welded / fitted with pins, also Burma Teak Top Gola size 3"X2" or approved, placed horizontally over metal Railing includes primer coat and three coats of enamel Paint on metal surface and lacquer polish finish surface, complete in all respect as per drawing, Technical provisions and as directed by the Engineer Incharge.	Sft	908		
22	<b><u>Wood/ Metal Railing for Stair.</u></b> Providing and Fixing in position teak wood and m.s. stair railing comprising of teak wood 3"X2" Top horizontally and 1"X 1" X2' vertically square solid bar with lath works and horizontally m.s flat iron patti at 2 nos top and 2 nos bottom size 1-1/2"x1/4" of fitted with weld are pins i/c painting 3 coats enamel with Ist coat of red oxide paint etc. approved quality complete in all respect as per drawing, Technical provisions and as directed by the Engineer Incharge.	Sft	458		

BILL OF QUANTITIES

S.No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT RS.
23	<b>Wooden Doors</b> Providing and making & fixing in position Single Leaf wooden paneled Door includes 1-1/2"thick solid wooden shutter having Berma Teak Wood Panel, termite proofing coats, and includes m.s metal frame 18 SWG (2"x 5") filled with 1:2:4 concrete in frame, beading on both sides includes S.S Tower bolts, pull handles S.S hinges, kick/push plate and best quality locks, with coats of primer and three coats of enamel paint on frame and approved lacquer polish on wood shutter and beading complete in all respect as per drawing, Technical Provisions and or as directed by the Engineer Incharge.	Sft	105		
24	<b>Wooden Paneled door(Single Leaf) Size=2.5'X7'</b> Providing and making & fixing in position single leaf door shutter with frame includes best quality Burma teak wood Paneled door 1-3/4" thick shutter both sides beading 3"X1/2"thick specification i/c 7"X2" solid Burma Teak Wood Frames includes Termite proofing, Solignum coating lacquer polish on wood, with approved hardware, hold fast, brass tower bolts, brass handles, brass hinges, brass screws, with teak wood cords and cleats etc complete in all respect as per drawing, Technical provisions and as directed by the Engineer Incharge.	Sft	239		
25	<b>Wooden Paneled door (Single Leaf) Size=3' &amp; 3.25X9'</b> Providing and making & fixing in position single leaf best quality Burma teak chowkat 9"X2"and both sides beading 3"X1/2" thick both sides with Paneled door 1-3/4" thick shutter (7'-0" high) with glazed 8mm thick safety frosted glass (4mm+0.76film+4mm) specification i/c 7"X2" solid Burma Teak Wood Frames includes Termite proofing, Solignum coating lacquer polish on wood, with approved hardware, hold fast, brass tower bolts, brass handles, brass hinges, brass screws, with teak wood cords and cleats etc complete in all respect as per drawing, Technical provisions and as directed by the Engineer Incharge.	Sft	298		

BILL OF QUANTITIES

S.No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT RS.
26	<b><u>Wooden Paneled door(Double Leaf)size= 5'X9'</u></b> Providing and making & fixing in position double leaf best quality Burma teak, beading 3"X1/2" thick both sides with Paneled door 1-3/4" thick shutter (3'-0" high) with 8mm safety frosted glass includes safety film glazed (6'-0" high) as per specification i/c 9"X2" solid Burma Teak Wood Frames includes Termite proofing, Solignum coating lacquer polish on wood, with approved hardware, hold fast, brass tower bolts, brass handles, brass hinges, brass screws, with teak wood cords and cleats etc complete in all respect as per drawing, Technical provisions and as directed by the Engineer .	Sft	614		
27	<b><u>Wooden Ventilator 10'X2'</u></b> Providing and fixing best quality Burma teak Ventilation, with frame size 9"X2"and beading 3"X1/2" thick both sides with ventilator fully glazed with 8mm thick clear glass 1-3/4" thick sliding shutter includes Termite proofing course or approved as per specification i/c hold fast, brass tower bolts, brass handles, eye hooks, s.s. hinges, brass screws, with teak wood cords and cleats etc with lacquer polishing complete in all respect as per drawing, Technical provisions and as directed by the Engineer Incharge.	Sft	84		
28	<b><u>Wooden Windows</u></b> Providing and fixing best quality Burma teak windows includes frames chowkat 9"X2"and beading 3"X1/2" thick both sides with windows fully glazed with 8.76 mm thick safety frosted glass with imported film 1-3/4" thick sliding shutter includes Termite proofing course or approved as per specification i/c lacquer polish on wood, with approved hardware hold fast, brass tower bolts, brass handles, eye hooks, s.s. hinges, brass screws, with teak wood cords and cleats etc complete in all respect as per drawing, Technical provisions and as directed by the Engineer	Sft	1,562		
29	<b><u>Marble Counter Top</u></b> Providing and fixing 3/4"thick Verona or approved marble top in Bath (24" wide) fixed 1" thick cement mortar (1:3) or fixed with Rawal Bolts including curing and chemical polishing, rounding front edge, cutting for basin hole companies complete in all respect as per drawings technical provision as directed by the Engineer incharge.	Sft	76		

BILL OF QUANTITIES

S.No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT RS.
30	<b><u>Marble Urinal Partition</u></b> Providing and fixing 3/4" thick approved Local marble urinal portion including 1" thick cement mortar (1:3) or fixed with clamp including curing and chemical polishing, rounding front edge complete in all respect as per drawings technical provision as directed by the Engineer incharge.	Sft	69		
31	<b><u>MIRROR</u></b> Providing and Fixing in Position approved best quality imported 5mm thick looking mirror fixed on back ply, chemical treatment to prevent dampness, etc. complete in all respect as per drawings Technical Provision and or as directed by the Engineer Incharge.	Sft	141		
32	<b><u>Porcelain Tile on Lift Wall</u></b> Approved imported porcelain 1'X2' laid over 3/4" thick cement mortar base in 1:4 ratio, includes tiles cutting, matching grouting in lift wall including finishing etc, complete in all respect as per drawings Technical Provision and or as directed by the Engineer Incharge.	Sft	500		
33	<b><u>Water Proofing</u></b> Providing and Applying roof waterproofing on R.C.C. Slab using PLOYTEX - Elastomeric Acrylic Waterproofing Coating, complete in all respect as per drawings Technical Provision and or as directed by the Engineer Incharge.	Sft	26,806		
34	<b><u>Roof Screed</u></b> Providing and laying 3" thick Avg. 1:2:4 cement concrete screed over slab in proper slope and panels, complete in all respect as per drawings Technical Provision and or as directed by the Engineer Incharge.	Sft	26,806		
35	<b><u>Roof Insulation</u></b> Providing and Laying 1" thick roof Insulation "PU INSULATION FROM THERMOSEAL" includes the cost of materials and Transportation, complete in all respect as per drawings Technical Provision and or as directed by the Engineer Incharge.	Sft	26,806		
36	<b><u>Roof Screed with BRC Mesh</u></b> Providing and laying BRC Steel Mesh 1/4" dia placed with 12" c/c, and with POLYMEX AD MIXTURE, including 4" thick Avg. 1:2:4 cement concrete complete in all respect as per drawings Technical Provision and or as directed by the Engineer Incharge.	Sft	26,806		

BILL OF QUANTITIES

S.No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT RS.
37	<b><u>C.C.Tiles</u></b> Providing and laying of approved C.C.Tiles size 12"X12" or approved equivalent make or size include base of cement sand mortar (1:4) 1" thick i/c curing complete in all respect as per drawings Technical Provision and or as directed by the Engineer Incharge.	Sft	26,806		
38	<b><u>Acrylic Graffato</u></b> Providing and Applying 5mm or approved Acrylic Graffato Coating, to External surfaces of approved colour and shade including preparation of surface, complete in all respect as per drawings Technical Provision and or as directed by the Engineer Incharge.	Sft			
a)	Main Bldg. (Walls)	Sft	14,546		
b)	Parapet Wall	Sft	5,758		
39	<b><u>2" Wide Expansion Joint Treatment on Floor</u></b> Providing, fixing and laying Expansion joint treatment in R.C.C Slab on <b>Floor</b> as per drawing, specification and as per direction of the Architects. The rate shall include the following, a) Indo Flex MS 5253 joint sealent (Schomberg Origin) b) 3" diameter Poly Ethylene Backer Rod c) Thermopore sheet in gap between beams under baker rod	Rft	180		
40	<b><u>Overhead Water Tank</u></b> Providing and making RCC O.H. Water Tank including material labour, formwork, fixing and removal, provision of G.I.Pipes/sleeves etc Complete in all respect as per drawings and as directed by Consultants but exculding cost of reinforcement. (The list of items are listed below.) (2 Tanks 4800 Gallons each)	Gallon	9,600		
40.1	3000psi Cylindrical Strength concrete walls (8"), Bottom Slab (8") and in top slab (5"th) with Water Proofing.				
40.2	3" thick screed on bottom slab in proper slope				
40.3	3" thick screed on top slab in proper slope				
40.4	1" th. 1:4 ratio plaster with water proofing admixture or equivalent in internal / external RCC walls and soffit of slab				
40.5	Making chamfer with 3000psi CYL Strength concrete at all edges of wall and bottom slab				
40.6	2ft x 2ft manhole cover (4 Nos)				
40.7	Stainless Steel Ladder as approved				
40.8	ASTM 615A Deformed Steel Reinforcement Grade 60				
41	<b><u>Water Spout</u></b> Providing and Fixing in position pre-cast concrete water spouts size 12" x 8" or as per drawing to be fixed with cement mortar for rain water complete in all respect as per drawing & details	Nos.	10		
<b>TOTAL VALUE OF WORK</b>					





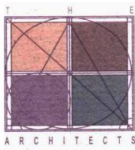
Summary of Plumbing Works		
1	Water Supply Works	Rs.
2	Drainage Works	Rs.
3	Plumbing Fixtures	Rs.
		Total Amount:



S.No	DESCRIPTION OF ITEM		QTY.	UNIT	RATE	AMOUNT
	DIVISION 15 A - PLUMBING WORKS					
	All items under this head to be carried out as per specifications, Drawings and relevant BSI/ASTM Standards to the entire satisfaction of the Engineer.					
	WATER SUPPLY:					
	ABOVE GROUND COLD/HOT WATER PIPING:					
1	Supply, installation Testing and Commissioning of PPR PN - 20 Cold/Hot water pipes as per DIN 8077-8078 with molded fittings PN - 25 as per DIN 16962, including pipe supports a as indicated on the drawing, as per specifications and Engineers approval. Brands:- Cosmoplast, Vesbo, Rektherm					
	(I)	¾" dia.	65	Rft.		
	(ii)	1" dia.	110	Rft.		
	(iii)	1½" dia.	40	Rft.		
	(iv)	2" dia.	70	Rft.		
	ISOLATION/GATE VALVE:					
2	Providing and fixing of brass (PPR coated) ball valves as indicated on the drawing and as specified in specifications Brands:- Cosmoplast, Vesbo, Rektherm					
	(i)	¾" dia.	3	Nos.		
	(ii)	1" dia.	2	Nos.		
	(iii)	1½" dia.	6	Nos.		
	(iv)	2" dia.	1	Nos.		
Sub Total for Water Supply						
	DRAINAGE WORKS					
	SOIL, WASTE & VENT SYSTEM:					
1	Providing, fixing, Testing and commissioning of uPVC pipes Class 'B' Pipes and Solvent fittings as per BS 4660 for above ground installations for Soil, Waste, Vent & Rw pipes including cleanout plug, clamps, hanger collars, supports, specials (bend, tees, Y-tee etc.) as indicated on the drawing, as per specifications and Engineers approval. Brands:- Marley, Terrain, Cosmoplast, Wavin					
	(i)	2" dia	30	Rft.		
	(ii)	3" dia	350	Rft.		
	(iii)	4" dia	75	Rft.		



S.No	DESCRIPTION OF ITEM		QTY.	UNIT	RATE	AMOUNT
	<b>DRAINAGE SPECIALTIES</b>					
2	Providing and fixing of PVC floor Trap with multiple inlets and 3" dia outlet with S.S grating the approved design as per specifications <b>Brands:- Marley, Terrain, Cosmoplast, Wavin</b>		10	Nos		
3	Providing and fixing UPVC vent cowl for pipe of the following dia including all accessories complete in all respects.					
	(i)	3" dia	7	Nos.		
	(ii)	4" dia	4	Nos.		
<b>Sub Total for Drainage</b>						
	<b>PLUMBING FIXTURES:</b>					
1	Providing and fixing first quality European type water closet by Porta/Master or Equivalent with 6 liters flush tank, build in S-Trap, Stop cock with flexible pipe as per drawings, specifications and Engineers Approval. <b>Brands:- Porta, Kholer, Zilver/Master</b>		6	Nos.		
2	Providing and fixing of counter type wash basin by Porta or Equivalent with mixer by Porta/Zilver/Master, two (2) nos. Stop cocks with Flexible Connection , flexible drain pipe to floor drain as per drawings , specifications and engineers approval.		12	Nos.		
3	Providing and fixing first quality Eastern water closet by Porta or Equivalent for Servants rooms with 6 liters flush tank, S-Trap , stop cock and flexible pipe as per as per drawings, specifications and Engineers Approval. <b>Brands:- Porta, Master, Sonex/Zilver</b>		7	Nos.		
4	Supply and Installation of urinal by porta with 6.0 Liters Flush Tank in false ceiling, waste trap, bib cock, Stop cocks, Flexible Connection as per drawings , specifications and engineers approval.		6	Nos.		
5	Providing and fixing bath toilet accessories as under by Sonex or Equivalent:					
	(i)	Toilet Paper Holder	-	Nos.		
	(ii)	Soap Dish / Glass shelf	-	Nos.		
	(iii)	Double Bib Cock with Hand Spray / Muslim shower	7	Nos.		
<b>Sub Total for Fixtures</b>						

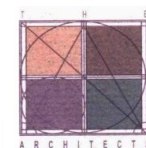


Summary of Electrical Works

1	Wiring & accessories	Rs.
2	Light & Fan Fixture	Rs.
3	Race Ways	Rs.
4	L.V Switch Gear	Rs.
5	Main/Sub-main Feeders	Rs.
6	Data & Voice System	Rs.
7	Fire Alarm System	Rs.
8	Close Circuit TV System.	Rs.
9	Air-Conditioning	Rs.

Total Amount:

Date : \_\_\_\_\_



BILL OF QUANTITIES

S.No	DESCRIPTION OF ITEMS	QTY.	UNIT	RATE (Rs.)	AMOUNT (Rs.)
<b>1</b>	<b>Wiring &amp; Accessories</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.				
a)	Wiring of light / fan point controlled by one switch with 3x1C-1.5 sq. mm PVC cables drawn in 20/25mm dia PVC conduits, including 1.5 mm, powder coated MS back box and gang switches. Make: (1). Cables: Pakistan Cables Ltd / Pioneer Cables Ltd. (2). PVC Conduits & accessories: Jeddah / Galco. (3). Switches: Clipsal E-series / Legrand	185	Nos		
b)	Wiring of light point to light point with 3x1C-1.5 sq.mm PVC cables drawn in 20/25mm dia PVC conduits.	210	Nos		
c)	Wiring of two way light point controlled by two way switch with 4x1C-1.5 sq.mm PVC cables drawn in 20mm dia PVC conduits including 1.5 mm, powder coated MS back box and two way switches.	2	Nos		
d)	Wiring of light circuits from DB to switch board(s) or 1st SSO with 3x1C-2.5 sq.mm PVC cables drawn in 20 mm dia PVC conduits, including termination & labelling at both ends.	50	Nos		
e)	Wiring for power circuits from DB to 1st SSO or A/C with 3x1C-4 sqmm PVC cables in 20 mm dia PVC conduit, including termination & labelling at both ends.	25	Nos		
f)	Wiring for A/C circuit from DB to A/C or industrial socket unit with 3x1C-6.0 sqmm PVC cables drawn in 25 mm dia PVC conduit, including termination & labelling at both ends.	41	Nos		
g)	Wiring of SSO to SSO with 3x1C-2.5 sq.mm PVC cables drawn in 20 mm dia PVC conduits, including termination & labelling at both ends. (side by side or back to back will not be payable).	85	Nos		
h)	Wiring of SSO to SSO with 3x1C-4.0 sq.mm PVC cables drawn in 20 mm dia PVC conduits, including termination & labelling at both ends. (side by side or back to back will not be payable).	75	Nos		
i)	Wiring of CC TV Camera power from CC TV switch board to CC TV Camera with 3x1C-1.5 sq.mm PVC cables drawn in 20mm dia PVC conduits, including termination & labelling at both ends.	2	Nos		

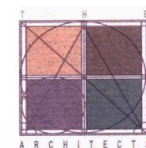
BILL OF QUANTITIES

S.No	DESCRIPTION OF ITEMS	QTY.	UNIT	RATE (Rs.)	AMOUNT (Rs.)
j)	Wiring of CC TV Camera power from CC TV to CC TV Camera with 3x1C-1.5 sq.mm PVC cables drawn in 20mm dia PVC conduits, including termination & labelling at both ends.	6	Nos		
1.2	Supply & Installation of following Switch Socket Outlets (SSO) on already installed boxes.				
a)	5 Amp 3 Pin SSO. Make: Legrand / Clipsal	100	Nos		
b)	13 Amp Flat Pin SSO. Make: Legrand / Clipsal	172	Nos		
c)	15 Amp 3Pin SSO. Make: Legrand / Clipsal	4	Nos		
d)	Clipsal	6	Nos		
e)	16 Amp Shoko socket Make: Legrand / Clipsal	8	Nos		
f)	Kawamora	46	Nos		
	Fan dimmer Make: Legrand / Clipsal	53	Nos		
1.3	Providing & fixing of following technology / floor boxes made of 1.5 mm sheet steel, power coated with earth				
a)	Floor box 300 X 300 X 50 mm, with 4 nos. SSO fixture	45	Nos		
b)	1.5 mm, powder coated 4 gang technology box with earthing terminal.	41	Nos		
c)	1.5 mm, powder coated MS back box with earthing terminal.	40	Nos		
	<b>Sub Total of Wiring &amp; Accessories Rs.</b>				
<b>2</b>	<b>Light &amp; Fan Fixtures</b>				
2.1	Supply & Installation of following light fixtures complete with lamps, starters, holders, electronic ballast etc including hangers, supports & all mounting / fixing accessories, complete in all respect & as per consultants approval.				
a)	Smart panel light fixture with 1 x 40 watts LED lamp. Make: Osaka	170	Nos		
b)	Smart panel light fixture with 1 x 18 watts LED lamp. Make: Osaka	102	Nos		
c)	Smart panel light fixture with 1 x 6 watts LED lamp. Make: Osaka	43	Nos		
d)	Bulk head light fixture with 1 x 10 watts LED lamp. Make: Osaka	21	Nos		
e)	Exhaust fan 8" dia Plastic Body	1	Nos		
f)	Exhaust fan 12" dia Matel Body with GI ducting	3	Nos		
g)	Automatic hand dryer Make: Siemens	4	Nos		
h)	Ceiling fan 56" dia with fan box Make : Pak / Royal	53	Nos		
	<b>Sub Total of Light &amp; Fan Fixtures Rs.</b>				

BILL OF QUANTITIES

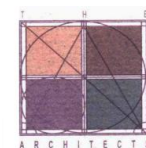
S.No	DESCRIPTION OF ITEMS	QTY.	UNIT	RATE (Rs.)	AMOUNT (Rs.)
<b>3</b>	<b>Race ways</b>				
3.1	Supply & Installation of following sizes of conduits with all accessories, clipped to the surface or concealed in building fabric or to be laid in floor including cutting /excavation & back filling, complete in all respect.				
a)	UPVC pipe 75 mm dia	50	Mtr		
b)	UPVC pipe 38 mm dia	100	Mtr		
c)	PVC pipe 25 mm dia	2000	Mtr		
d)	PVC pipe 20 mm dia	2000	Mtr		
3.2	Providing & fixing of cable tray with cover 300 x 75 mm made of 1.5 mm, G.I sheet steel,solid,with all fixing accessoires (Fixing Brackets with rawal bolts) and as per site condition.	120	Mtr		
	<b>Sub Total of Race ways Rs.</b>				
<b>4</b>	<b>L.V. Switchgear</b>				
4.1	Supply, installation, testing & commissioning of following factory assembled, pre-wired panel / distribution boards, concealed in wall or surface mounted or floor standing, 1.5/2.0 mm MS sheet steel fabricated, 120 microns powder coated, suitable for 500 volts, 3phase, 4wires, 50Hz, incorporate following components and configration, complete with all mounting & connecting accessories as per drawings. Make: (1). Manufacturer: Uneeqe Engineering / Engineers & Engineering . (2). Circuit breakers: Terasaki / ABB. (3). Indication lamps: Camsco. (4). Control Fuse: Camsco.				
a)	MAIN DB-1	1	No		
b)	DISTRIBUTION BOARD "A"	1	No		
c)	DISTRIBUTION BOARD "B"	1	No		
d)	DISTRIBUTION BOARD "AC-A"	1	No		
e)	DISTRIBUTION BOARD "AC-B"	1	No		
f)	DISTRIBUTION BOARD "UPS-1"	1	No		
g)	DISTRIBUTION BOARD "UPS-2"	1	No		
h)	DISTRIBUTION BOARD "UPS-3"	1	No		
	<b>Sub Total of L.V. Switchgear Rs.</b>				
<b>5</b>	<b>Main / Sub-main Feeders</b>				
5.1	Supply, installation & termination at both ends of following main/sub-main cables in already installed Pipes complete as per site requirements				
a)	2x95 mm sq 4core PVC/PVC Cable +2x95 mm sq 1 core PVC Cable.	50	Mtr		
b)	1x70 mm sq 4core PVC/PVC Cable +2x35 mm sq 1 core PVC Cable.	65	Mtr		
c)	1x10 mm sq 4core PVC/PVC Cable+1x10 mm sq 1 core PVC Cable.	65	Mtr		
d)	1x16 mm sq 1core PVC/PVC Cable for cable tray ECC.	60	Mtr		
e)	3x16 mm sq 1core PVC/PVC Cable	20	Mtr		
	<b>Sub Total of Main / Sub-main Feeder Rs.</b>				





BILL OF QUANTITIES

S.No	DESCRIPTION OF ITEMS	QTY.	UNIT	RATE (Rs.)	AMOUNT (Rs.)
<b>6</b>	<b>Data &amp; Voice System</b>				
6.1	Supply, pulling & fluke testing of Data or Voice cables in PVC Pipe, including labeling at both ends as per drawings. Make: Clipsal / Systimax.				
a)	20 Pair jelly filled telephone Cable	75	Mtrs		
b)	Cat-5e UTP Cable in already laid PVC Pipe or cable tray	3000	Nos		
c)	Cat-6 UTP Cable in already laid PVC Pipe or cable tray	3000	Nos		
6.2	Supply, installation and connecting of telephone Junction box 1.5 mm MS sheet steal fabricated, 120 micron powder coated, surface mounted or concealed in wall with locking arrangements and comprising with 10x10 pairs tag blocks. Make: Korne / Clipsal.	1	Nos		
6.3	Supply, installation & termination of face plates comprising as follows. Make: Clipsal / Systimax.				
a)	1No RJ-45, CAT-6 I/O	86	Nos		
b)	1No RJ-11 socket outlet	86	Nos		
6.4	Supply, Installation & termination of 24 port RJ-45 Cat-6 UTP Patch Panel complete with all accessories. Make: Clipsal / Systimax.	4	Nos		
6.5	Supply, Installation & termination of 24 port RJ-45 Cat-6, GIGA Speed Switch, complete with all accessories. Make: 3 COM.	4	Nos		
6.6	Supply & installation of 48 U rack, made of 1.5mm sheet steel, powder coated, complete with cable management, troughs, labels, cable holder, cable guide and two exhaust fans. A cable extension lead with 4x13A sockets is to be provided & installed. The job includes all fixing &	1	Nos		
6.7	Supply & installation of following sizes of Cat-6 UTP (RJ-45 to RJ-45)certified patch cords. Make: Clipsal / Systimax.				
a)	1 meter long	86	Nos		
b)	3 meter long	86	Nos		
	<b>Sub Total of Data &amp; Voice System Rs.</b>				

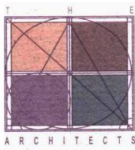


BILL OF QUANTITIES

S.No	DESCRIPTION OF ITEMS	QTY.	UNIT	RATE (Rs.)	AMOUNT (Rs.)
<b>7</b>	<b>Conventional Fire Alarm System</b>				
7.1	Wiring of conventional F/A system in 20mm dia PVC conduit clipped to be surface or concealed in building fabric, complete as per drawing.				
a)	2 X 1.5 sqmm FR cables.	42	Nos		
7.2	Supply, installation & testing of Fire Alarm system .Devices with MS back boxes.				
a)	Smoke Detector. Make : Horinglih	32	Nos		
b)	Heat Detector. Make : Horinglih	1	No		
c)	Manual Call Point. Make : Horinglih	7	Nos		
d)	Fire Alarm Bell. Make : Horinglih	2	Nos		
e)	End of line resistance. Make : Horinglih	2	Nos		
	<b>Sub Total of Conventional Fire Alarm System Rs.</b>				
<b>8</b>	<b>Close Circuit TV System.</b>				
8.1	Supply, pulling & testing of following CCTV wiring in 20mm dia PVC Pipe including labelling at both ends. Make: WISI / Saxton.				
a)	Co-axial cable double shielded RG-59 B/U	8	Nos		
b)	RG-6 Socket outlet on 1.5 mm powder coated MS back box.	8	Nos		
c)	Cable Junction Box 300x250x100 mm made of 1.5 mm sheet steel, powder coated with locking arrangement.	3	Nos		
8.2	Supply, Installation, Testing, Commissioning, Training & Programming of following CCTV System. Make : Samsung				
a)	Indoor Cameras: 2.8mm Fixed Lens, Compact, light weight & stylish Design, DC12V (fixed type.)	8	Nos		
8.3	Supply, Installation, Testing, Commissioning, Training & Programming of following CCTV System. Make : Samsung				
a)	Digital Video Recorder: 16 Channel	1	Nos		
b)	LCD Monitor: 17-inch Wide High Resolution LCD	1	Nos		
c)	LAN SWITCH Ethernet.	1	Nos		
	<b>Sub Total of Close Circuit TV System Rs.</b>				

BILL OF QUANTITIES

S.No	DESCRIPTION OF ITEMS	QTY.	UNIT	RATE (Rs.)	AMOUNT (Rs.)
9	<b>Air-Conditioning</b>				
9.1	Supply & Installation of following split A/C units. Make : Mitsubshi				
a)	2.0 tonne Wall mounted type.	40	Nos		
b)	1.5 tonne Wall mounted type.	6	Nos		
9.2	Supply, installation & testing of refrigerant piping (5/8" +3/8") with rubber foam instullation, protected with tape. Control wiring in 20mm dia PVC pipe, complete in all respect.Make: Muller USA	700	Mtr		
9.3	Supply, installation & testing of refrigerant piping (1/2" +1/4") with rubber foam instullation, protected with tape. Control wiring in 20mm dia PVC pipe, complete in all respect. Make: Muller USA	100	Mtr		
9.4	Supply & installation of UPVC pipe Class-D with all accessories including cutting of wall / floor etc.Make: JEDDAH / DADEX				
a)	20 mm dia.	800	Mtr		
9.5	Supply & installation of frame for A/C compressor made with 2"x1/4" MS angle iron including 2 coats of anti rust paint & finally black enamel paint. Anti vibration pads to be fixed on exterior wall, complete in all respect.	46	Nos		
			<b>Sub Total</b>		



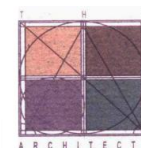
Summary of Electrical Common Items

A	Race Ways	Rs.
B	L.V Switch Gear	Rs.
C	Main/Sub-main Feeders	Rs.
D	Fire Alarm System	Rs.
E	Close Circuit TV System.	Rs.
F	Earthing system	Rs.

Total Amount:

Date : \_\_\_\_\_

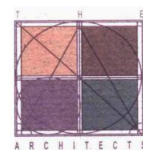
**SINDH HIGH COURT KARACHI**  
**COST OF ELECTRICAL COMMON ITEMS**  
**FOR 5TH AND 6TH FLOOR**



**BILL OF QUANTITIES**

S.No	DESCRIPTION OF ITEMS	QTY.	UNIT	RATE (Rs.)	AMOUNT (Rs.)
<b>A</b>	<b>Race ways</b>				
	Supply & Installation of following sizes of conduits with all accessories, clipped to the surface or concealed in building fabric or to be laid in floor including cutting /excavation & back filling, complete in all respect.				
1	UPVC pipe 75 mm dia	10	Mtr		
2	UPVC pipe 38 mm dia	20	Mtr		
3	Providing & fixing of cable tray with cover 75 x 75 mm made of 1.5 mm, G.I sheet steel,solid,with all fixing accessoires (Fixing Brackets with rawal bolts) and as per site condition.	50	Mtr		
4	Providing & fixing of cable tray with cover 450 x 75 mm made of 1.5 mm, G.I sheet steel,solid,with all fixing accessoires (Fixing Brackets with rawal bolts) and as per site condition.	50	Mtr		
	<b>Sub Total of Race ways Rs.</b>				
<b>B</b>	<b>L.V. Switchgear</b>				
	Supply, installation, testing & commissioning of following factory assembled, pre-wired panel / distribution boards, concealed in wall or surface mounted or floor standing, 1.5/2.0 mm MS sheet steel fabricated, 120 microns powder coated, suitable for 500 volts, 3phase, 4wires, 50Hz, incorporate following components and configuration, complete with all mounting & connecting accessories as per drawings. Make: (1). Manufacturer: Uneeqe Engineering / Engineers & Engineering. (2). Circuit breakers: Terasaki / ABB. (3). Indication lamps: Camsco. (4). Control Fuse: Camsco.				
1	LT PANEL	1	No.		
2	630A TP MCCB IN METAL BOX	1	No.		
	<b>Sub Total of L.V. Switchgear Rs.</b>				
<b>C</b>	<b>Main / Sub-main Feeders</b>				
	Supply, installation & termination at both ends of following main/sub-main cables in already installed Pipes complete as per site requirements				
1	2x240 mm sq 4core PVC/PVC Cable.	50	Mtr		
2	2x95 mm sq 1core PVC/PVC Cable.	20	Mtr		
3	1x16 mm sq 1core PVC/PVC Cable for cable tray ECC.	50	Mtr		
	<b>Sub Total of Main / Sub-main Feeder Rs.</b>				

**SINDH HIGH COURT KARACHI**  
**COST OF ELECTRICAL COMMON ITEMS**  
**FOR 5TH AND 6TH FLOOR**



**BILL OF QUANTITIES**

S.No	DESCRIPTION OF ITEMS	QTY.	UNIT	RATE (Rs.)	AMOUNT (Rs.)
<b>D</b>	<b>Conventional Fire Alarm System</b>				
1	Supply, installation & testing of conventional fire alarm control panel (8 zone) including back-up battery and all accessories, required to complete the job. Make : Honeywell	1	No.		
	<b>Sub Total of Conventional Fire Alarm System Rs.</b>				
<b>E</b>	<b>Close Circuit TV System.</b>				
	Supply, installation, testing, commissioning, Training & programming of following CCTV system. Make: Samsung.				
1	Digital Video Recorder: 16 Channel	1	No.		
2	LCD Monitor: 17-inch Wide High Resolution LCD	1	No.		
3	LAN SWITCH Ethernet.	1	No.		
	<b>Sub Total of Close Circuit TV System Rs.</b>				
<b>F</b>	<b>Earthing System</b>				
1	Providing and Installing of GREEN EARTH TECHNOLOGY SYSTEM, comprising of : 38 mm x 3 m, straight shaft Tin Electroplated copper electrode, filled with soil conditioning chemical compound. Boring 6" dia x 20 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.	6	No.		
2	Providing, fixing & connecting 300mm x 50mm x 5mm Earth test terminal with brass nuts bolts & washer as per drawing.	6	No.		
	<b>Sub Total of Earthing System Rs.</b>				