

BILL OF QUANTITIES



ADDITIONAL COURT-RECORD ROOM FOR DISTRICT WEST (EXTN) OF BAR ROOM AT CITY COURT KARACHI

SUMMARY OF COST

S.NO.	FLOORS	Structure Cost	Architecture Cost	Electrical Cost	Plumbing, Fire fighting Cost	Total Cost
1	Ground Floor					
2	First Floor					
3	Second Floor					
4	Third Floor					
5	Fourth Floor					
6	Fifth Floor					
7	Sixth Floor					
8	Roof Floor					
	TOTAL					

ADDITIONAL COURT-RECORD ROOM FOR
DISTRICT WEST (EXTN) OF BAR ROOM AT
CITY COURT KARACHI

SUMMARY OF COST GROUND FLOOR

S.NO.	DESCRIPTION	AMOUNT
1	CIVIL WORKS	
2	ELECTRICAL WORKS	
3	PLUMBING & FIRE FIGTHING WORKS	
	TOTAL	

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S.NO.	DESCRIPTIONS	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)
A)	STRUCTURE WORKS				
1	CLEARANCE OF SITE				
	Clearance of Site includes removal of all bushes, debris and clearance for execution of excavation works, as directed by the Engineer and complete in all respect.	Sft	6,825		
2	Excavation				
	Excavation in all kind of Soil i/c Hard Silty Clay, Gravel upto any depth and lead, including dewatering, if required, backfilling of excavated earth in foundation, trenches and spreading the surplus earth and removing extra earth and debris from site at any lead and lift, as per approved by Engineer complete in all respect as per engineer's instructions / Project Requirement including all lift and lead.	Cft	80,687		
3	Stone Soling 12" th				
	Providing and Laying 12"th Stone Soling to with broken stones and filling the voids with metal 3/4"to 1-1/2"size and fine sand, well rammed, water, consolidated and compacted with mechanical means, complete in all respect	Sft	7,889		
4	Water Proofing				
	Providing and applying Water proofing, using cementitious water proof coating (BCCI-200/583) over raft footing and sides as per manufactures instruction, includes supply and application, complete.	Sft	8,772		
5	1:3:6 Concrete				
	Providing and laying cast in place lean concrete using graded bajri and down gauge as fine aggregate and crush aggregate including/excluding form works and its removal, having minimum characteristics cylinder strength $f_c' = 1500$ psi nominal mix ratio 1:3:6 using Sulphate Resistant Cement (SRC).				
i	Under Plinth Beams	Cft	722		
ii	6"th under Raft /Footings	Cft	3,945		
iii	6" th under Flooring (Screeding)	Cft	12,816		

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S.NO.	DESCRIPTIONS	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)
6	Back Fill with Fine Sand				
	Providing and laying Back filling with fine sand (Balu Matti) free from debris and concrete and compacting in layers not exceeding 150mm th, consolidated each layers by ramming and watering to attain 95% compaction, complete in all respect	Cft	56,481		
7	CONCRETE WORKS				
	Providing and laying Design mix concrete having minimum characteristics cylinder Strength $f_c' = 3000$ psi at 28 day. Minimum cement content 300kg/m ³ . Water cement ratio should not exceed 0.5 Using Ready mix concrete including steel form work & Sulphate Resistant Cement (SRC).				
a)	Raft (36"th)	Cft	22,050		
8	Providing and laying Design mix concrete having minimum characteristics cylinder Strength $f_c' = 2500$ psi at 28 day. Minimum cement content 300kg/m ³ . Water cement ratio should not exceed 0.5 Using Sulphate Resistant Cement with ready mix concrete including steel formwork.				
a)	Slab on Grade	Cft	3,663		
b)	Concrete in Plinth	Cft	2,185		
c)	Same as Above But in O.P Cement for Slab/Beams	Cft	6,309		
	For Stair case 5'-0" wide Steps	No	50		
9	Providing and laying Design mix concrete having minimum characteristics cylinder Strength $f_c' = 4000$ psi at 28 day. Minimum cement content 350kg/m ³ . Water cement ratio should not exceed 0.5 Using Sulphate Resistant Cement with ready mix concrete including steel formwork.				
i	Columns and Lift Wall	Cft	3,186		
10	Grade 60 deformed steel bars conforming to ASTM A-615 having yield strength 414 N/mm ² (60,000psi), as per drawing, specification and as directed by the Engineer.	M.T	30.350		

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S.NO.	DESCRIPTIONS	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)
11	TERMITE CONTROL				
	Termite Proofing				
	Providing and carrying out termite proofing of approved chemical as per manufacturer's specifications in bottom and sides of trenches and under floor etc. The work will be done by a specialist sub-contractor who will required to give a ten years warranty acceptable to the Engineer for this work will be deemed to cover all works under this item complete in all respects as per drawings, Technical Provisions and or as directed by the Engineer In charge.	Sft	6,825		
12	UNDER GROUND WATER TANK				
	Providing and making of Under Ground Water Tank including of materials and labor ,steel form works and its removal ,provision of Pipes /Sleeves etc., complete in all respect as per drawing but excluding the cost of steel reinforcement. The list of Items in UGWT are listed below				
	(i)6"th 1:3:6 Lean Concrete (ii)3000 psi Cyl Strength Concrete in Bottom Slab (24"th) and in Top slab (10"th) (iii)Water Proofing Admixture in Concrete (iv)2.5"th Screed on Bottom slab (v)3/4" th Plaster with Pudlo or equivalent in Bottom slab, internal walls (vi)Making Chamfer with 3000 psi Cyl Concrete at all edges of wall and bottom slab (vii)24"x24" Manhole Cover (viii) Stainless Steel Ladder as approved (xi)Water proof coating of approved make including 1"th plaster (1:4) ratio with water proof admixture on outer surface of wall up to road level	Gallon	5,460		
TOTAL COST FOR STRUCTURE WORKS RS.					
B)	ARCHITECTURE WORKS				
1	Solid Block Masonry				
	Providing and laying cement concrete Solid Block wall masonry of minimum 1000 psi compressive strength up to any height set with 1:6 cement mortar, including scaffolding / Raking out joints block cutting etc. complete in all respect as per drawings, technical Provisions and or as directed by the Engineer In charge.				
i)	4"thick	Sft	658		
ii)	6"thick	Sft	2,167		
iii)	12"thick	Sft	3,137		

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S.NO.	DESCRIPTIONS	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)
2	FLOORS AND WALL FINISHES				
2.1	1:3:6 Plain Concrete				
	Providing and laying 3" th 1:3:6 plain cement concrete flooring, steps & misc. works using O.P. Cement with 3/4" and down graded crush aggregate and approved sand under finish floor i/c. formwork, curing leveling etc. complete in all respect as per drawings, Technical Provisions and or as directed by the Engineer In charge.	Cft	1,744		
2.2	Porcelain Tiles Flooring				
	Providing and laying of approved Matt finish Porcelain Tiles Room Flooring (18" x 18" / 24" x 24") in white cement with approved color & shade including a base of cement sand mortar (1:5), 1" thick, including 1-1/2" thick P.C.C (1:2:4) compacting, grouting, curing, cutting, grouting with matching color complete in all respect as per drawings Technical Provisions or as directed by the Engineer In charge. (Italian or Equivalent) (Rs.1200/M ²)	Sft	6,336		
2.3	Ceramic Tiles for Kitchens				
	Providing and laying of approved Matt finish Ceramic Tiles Room Flooring (12" x 12"/12" x 18") or approved size in white cement with approved color & shade including a base of cement sand mortar (1:5), 1" thick, including 1-1/2"thick P.C.C (1:2:4) compacting, grouting, curing, cutting, grouting with matching color complete in all respect as per drawings Technical Provisions or as directed by the Engineer In charge.				
	For Floor and Walls	Sft	694		
2.4	Ceramic Tiles for Bathroom				
	Providing and laying approved Matt finish tiles in bathroom Flooring 12" x 12"/12" x 18") approved size & quality in white cement with approved color & shade including a base of cement sand mortar (1:5), 1" thick, including 1-1/2" thick P.C.C (1:2:4) for floor and ½" to ¾" thick mortar in 1:6 ratio for walls with grouting, curing, cutting, color, water proofing approved quality for all base areas etc., complete in all respect as per drawings Technical Provisions or as directed by the Engineer in charge.				
i)	Floor	Sft	690		
ii)	Walls	Sft	1,391		

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S.NO.	DESCRIPTIONS	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)
2.5	Skirting				
	Providing and Fixing 3/4" thick 4" high Skirting or approved thickness color shade & size as per drawing for skirting, landing over cement sand mortar 1-1/2" thick in 1:5 ratio i/c chemical polishing, edge grinding, buffing complete in all respect as per drawing Technical Provisions and or as directed by the Engineer In charge.				
a)	Porcelain Finish	Rft	533.35		
2.6	Marble for Staircase				
	Providing and Fixing 3/4" thick in one piece local Verona marble in white cement or approved color shade & size as per drawing for Stair Steps Risers, landing over cement sand mortar 3/4" thick in 1:5 ratio i/c chemical polishing, edge grinding, buffing complete in all respect as per drawing Technical Provisions and or as directed by the Engineer In charge.				
i)	Steps /Risers and Landings	Sft	578		
2.7	Marble for Walls				
	Providing and Fixing 3/4" thick up to Ceiling height in Lift Lobby Area, Local Verona Marble or approved color shade & size as per drawing over cement sand mortar 1.5" thick in 1:5 ratio i/c chemical polishing, edge grinding, buffing complete in all respect as per drawing Technical Provisions and or as directed by the Engineer In charge.	Sft	320		
2.8	<u>Stone on Entrance Floor/Ramp/Steps /Risers</u>				
	Providing and Fixing of 1"th Sillbatta machine cut Stone on main ,and Side Entrance floor Ramp, Steps ,Risers and landing in 24"x18" or approved size laid over 1.5"th 1:5 cement sand mortar base over 2" th 1:2:4 concrete ,as per drawing ,complete in all respect	Sft	446		
2.9	<u>Stone on Elevation Walls</u>				
	Providing and Fixing of 1"th Sillbatta machine cut Stone on Elevation wall up to 14'-0" height in 24"x18" or approved size laid over 1.5"th ,1:5 cement sand mortar base includes color match grouting, cutting ,as per drawing ,complete in all respect	Sft	5,191		

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S.NO.	DESCRIPTIONS	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)
2.10	Marble Counter Top for Wash Basins/Kitchen				
	Providing and fixing 3/4" thick Verona or approved marble counter top including 1" thick CS mortar (1:5), over 3" R.C.C Slab including curing and chemical polishing, rounding front edge, cutting for Basin hole complete in all respect as per drawings, technical provisions and or as directed by the Engineer In charge.				
i	For Wash Basin	Sft	21		
ii	For Kitchen	Sft	71		
3	METAL WORKS				
3.1	Metal Stair Railing				
	Providing & Fixing in position m.s. stair railing comprising of m.s. 1" square bar horizontally and 1 1/2" vertically square bar with lath works and m.s. studs at bottom size 3"x1/2" of approved powder coating complete in all respect as per drawing, Technical Provisions and as Engineer.	Sft	107		
3.2	Metal Pipe Hand Railing				
	Providing & Fixing in position m.s. hand railing comprising of m.s. 1" dia bar horizontally fixed on walls with m.s plate includes lath works ,approved powder coating complete in all respect as per drawing, Technical Provisions and as Engineer.				
	Ground Floor	Sft	47		
3.3	Metal Hand Railing				
	Providing & Fixing in position m.s. Hand railing comprising of m.s. 1" square bar horizontally and 1 1/2" vertically square bar with lath works and m.s. studs at bottom size 3"x1/2" of approved powder coating complete in all respect as per drawing, Technical Provisions and as Engineer.	Sft	41		

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S.NO.	DESCRIPTIONS	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)
4	CARPENTRY AND JOINERY				
i	Wooden Doors				
	Providing, making and fixing in position single leaf / Double leaf 1½" thick solid core Flush Door (70% Solid) door shutter having mahogni wood frame on top & bottom with laminated sheet pressed on shutter included m.s metal frame 18SWG (5" x 2") 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 lock, with cost 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	252		
ii	Providing and making & fixing in position Single Leaf / Double Leaf 2" thick wooden panel door shutter having 1/2" mahogany wood panels with 1" thick marine ply infill of approved quality, termite proofing coats, and includes 7½"x2" size solid wood frame in mahogany wood, beading on both sides includes S.S Tower bolts, pull handles S.S hinges, kick/push plate and best quality locks, and approved lacquer polish on wood shutter, frame and beading complete in all respect as per drawing, Technical Provisions and or as directed by the Engineer In charge. For Main Entry Door.	Sft	151		
5	ALUMINUM WINDOWS & VENTILATORS				
	Providing, fitting and fixing all types of glazed aluminum windows of anodized approved quality, color, open able/sliding with fly screen using Box section 1.6 mm thick of Pak cable or equivalent having frame size of 100 x 20 mm (4" x 3/4") and leaf frame section of 50 x 20 mm (2" x 3/4") including aluminum wire gauge panels, 6 mm thick best quality imported glass with rubber gasket using approved standard latches hardware etc. complete in all respect as per drawings, Technical provisions and as per In charge of the Engineer.	Sft	984		

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S.NO.	DESCRIPTIONS	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)
5.1	PVC Doors for Bathrooms				
	Providing and Fixing in position 2" thick approved imported PVC Doors shutters for Bathrooms in approved color includes 2" x 3" PVC Frames includes all hardware e.g. hinges, locks, handles etc. complete in all respect as per drawing technical provisions and or as directed by the Engineer In charge.	Sft	124		
6	<u>SURFACE RENDERING</u>				
6.1	<u>Internal Plaster</u>				
	Providing and applying cement plaster 1:5 on ceiling sides and soffit of beams, on internal sides of walls, columns beams exposed concrete surfaces including hacking 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 In charge.				
i	Internal Ceiling 1/2"-3/4"	Sft	6,802		
ii	Internal Wall Plaster 3/4" thick	Sft	10,303		
6.2	<u>External Pigmented (Color)Plaster</u>				
	Providing and applying 1/2" to 3/4" Finish Pigmented (Color) cement sand plaster (1:4) 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, pigment color, curing and scaffolding etc. at any height complete in all respect as per drawings, Technical Provisions and or as directed by the Engineer In charge.	Sft	1,260		
6.3	<u>Plastic Emulsion Paint</u>				
	Providing and applying 3-coats of plastic emulsion paint to internal plastered surfaces (ICI/Burger Pakistan) of approved color and shade including preparation of surface i.e. sand papering carborandam stone, filling, & primer etc. complete in all respect as per drawings, Technical Provisions	Sft	17,105		

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S.NO.	DESCRIPTIONS	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)
7	<u>BATH ACCESSORIES</u>				
7.1	<u>Mirror</u>				
	Providing & Fixing in position approved best quality imported 5mm th looking mirror fixed on back ply, chemical treatment to prevent dampness, as per Architects instruction, complete in all respect as per drawings, Technical Provisions and or as directed by the Engineer In charge.	Sft	56		
8	<u>OTHER ITEMS</u>				
8.1	<u>Planter</u>				
	Providing, Making of Planter in court area making in R.C.C Walls 4" thick with Base, Water Proof Plaster from inside and outside with stone facing up to specified height, on every alternative floor or wherever specified, complete in all respect as per drawing technical Provisions and or as directed by				
	Size: Planter 5'-0"x5'-0"	No.	2		
	Size: Planter 16'-0"x2'-0"	No.	1		
8	<u>CEMENT CONCRETE BAND AROUND WINDOWS</u>				
	Providing and making of Cement Concrete Band around Windows Size 4"x3" or approved includes reinforcement, formworks, as per drawing with all fixing arrangement complete in all respect as per drawing.	Rft	841		
8.1	<u>KITCHEN CABINETS</u>				
	Providing, Making and Fixing in position Wooden Kitchen Cabinets on walls and floor in Laminated sheets shutters, sides, with back ply with all hardware ,wooden Lipping ,polish finish ,complete in all respect as per drawing technical provisions and or as directed by the Engineer In charge. (Base and Wall Cabinets)	Sft	183		
TOTAL VALUE OF ARCHITECTURAL WORKS					
TOTAL VALUE OF STRUCTURE & ARCHITECTURAL WORKS GROUND FLOOR					

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GROUND FLOOR ELECTRICAL WORKS

S.No	DESCRIPTION OF ITEMS	QTY.	UNIT	RATE (Rs.)	AMOUNT (Rs.)
A	Wiring & Accessories				
	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.				
1	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	72	Nos		
2	Wiring of light point to light point with 3x1C-1.5 sq.mm PVC cables drawn in 20/25mm dia PVC conduits.	16	Nos		
3	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.	1	Nos		
4	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.	15	Nos		
5	Wiring of light circuits from DB to switch board(s) or 1st SSO with 5x1C-2.5 sq.mm PVC cables drawn in 20 mm dia PVC conduits, including termination & labelling at both ends.	1	Nos		
6	Wiring for A/C circuit from DB to A/C unit with 3x1C-6.0 sqmm PVC cables drawn in 25 mm dia PVC conduit, including termination & labelling at both ends.	0	Nos		
7	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).	14	Nos		
8	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).	0	Nos		
9	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		

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S.No	DESCRIPTION OF ITEMS	QTY.	UNIT	RATE (Rs.)	AMOUNT (Rs.)
10	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.	5	Nos		
A.1	Supply & Installation of following Switch Socket Outlets (SSO) on already installed boxes.				
1	5 Amp 3 Pin SSO. Make: Legrand / Clipsal	19	Nos		
2	15 Amp 3Pin SSO. Make: Legrand / Clipsal	3	Nos		
3	16 Amp Shoko socket Make: Legrand / Clipsal	7	Nos		
4	5HP DOL Starter TP, Make : LS	2	Nos		
5	Fan dimmer Make: Legrand / Clipsal	21	Nos		
	Providing & fixing of following technology / floor boxes made of 1.5 mm sheet steel, power coated with earth terminal.				
6	1.5 mm, powder coated MS back box with earthing terminal.	32	Nos		
	Sub Total of Wiring & Accessories Rs.				
B	Light & Fan Fixtures				
	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.				
1	Bulk Head light fixture with 1x10 watts LED lamp. Make: Osaka / SE	2	Nos		
2	Smart panel fixture with 1x12 watts LED lamp. Make: Osaka / SE	43	Nos		
3	Smart panel light fixture with 1 x 18 watts LED lamp. Make: Osaka / SE	41	Nos		
4	Exhaust fan metal body 12" (60W)	1	Nos		
5	Exhaust fan 8" dia Plastic Body	2	Nos		
6	TMS Flourescent light fixture 1x18w lamp Make: Osaka / SE	2	Nos		
7	Ceiling fan 56" dia with fan box Make : Pak / Royal deluxe model	21	Nos		
	Sub Total of Light & Fan Fixtures Rs.				

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S.No	DESCRIPTION OF ITEMS	QTY.	UNIT	RATE (Rs.)	AMOUNT (Rs.)
C	Race ways				
	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	PVC pipe 150 mm dia	50	Mtr		
2	PVC pipe 75 mm dia	25	Mtr		
3	PVC pipe 50 mm dia	15	Mtr		
4	PVC pipe 25 mm dia	50	Mtr		
5	PVC pipe 20 mm dia	25	Mtr		
	Sub Total of Race ways Rs.				
D	L.V. Switchgear				
	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	MAIN DB	1	No		
2	DISTRIBUTION BOARD "G"	1	No		
3	400A TP MCCB WITH BOX	1	No		
	Sub Total of L.V. Switchgear Rs.				
E	Main / Sub-main Feeders				
	Supply, installation & termination at both ends of following main/sub-main cables in already installed Pipes complete as per site requirements				
1	2x95 mm sq 4core PVC/PVC Cable	60	Mtr		
2	1x10 mm sq 4core PVC/PVC Cable+1x10 mm sq 1 core PVC Cable.	5	Mtr		
3	2x70 mm sq 1core PVC/PVC Cable	50	Mtr		
	Sub Total of Main / Sub-main Feeder Rs.				

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GROUND FLOOR ELECTRICAL WORKS

S.No	DESCRIPTION OF ITEMS	QTY.	UNIT	RATE (Rs.)	AMOUNT (Rs.)
F	Voice System				
	Supply, pulling & fluke testing of Voice cables in PVC Pipe, including labeling at both ends as per drawings. Make: Clipsal / Systimax.				
1	Cat-5e UTP Cable in already laid PVC Pipe	1	Nos		
	Supply, installation & termination of face plates comprising as follows. Make: Clipsal / Systimax.				
2	1No RJ-11 socket outlet	1	Nos		
Sub Total of Data & Voice System Rs.					
G	Addressable Fire Alarm System				
	Supply, installation & testing ZP2 Fire Panel - large cabinet - 2 Loop (FACP). Complete with Battery Make : Ziton /Securiton / Inim	1	Nos		
1	Supply, installation & testing of 1.5sqmm, 2C solid twisted PVC/PVC 2 Hours Fire Resistance Shielded Cable. In 20mm PVC pipe	13	Nos		
	Supply, installation & testing of Fire Alarm system .Devices with MS back boxes.				
2	Smoke Detector.	10	Nos		
3	Heat Detector.	1	No		
4	Manual Call Point.	1	Nos		
5	Fire Alarm Sounder	1	Nos		
Sub Total of Addressable Fire Alarm System Rs.					
J	Earthing System				
1	Installation & testing of earthing set comprising with copper plate, lime, salt & char coal mixture, packed hard including excavation & perfect back filling. UPVC pipe and copper wires upto test terminal, construction of CC inspection chamber with heavy duty CI cover, complete as per drawing.	6	Nos		
2	Installing of Earth Inspection Chamber made of 300 mm dia x 300 mm x 6 mm thick PVC with C. I. powder coated or Red Oxide painted cover.	6	Nos		
Sub Total of Earthing System					
Grand Total of Gound Floor Electrical Works					

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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 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.	30	Rft.		
	(ii)	1" dia.	100	Rft.		
	(iii)	1 1/4" dia.	0	Rft.		
	(iv)	1 ½" dia.	0	Rft.		
	(v)	2" dia.	125	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.	-	Nos.		
	(ii)	1" dia.	3	Nos.		
	(iii)	1 1/4" dia.	-	Nos.		
	(iv)	1 ½" dia.	-	Nos.		
	(v)	2" dia.	-	Nos.		
Sub Total for Water Supply						
	DRAINAGE WORKS					
	SOIL, WASTE & VENT SYSTEM:					

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S.No	DESCRIPTION OF ITEM		QTY.	UNIT	RATE	AMOUNT
1	Providing, fixing, Testing and commissioning of uPVC pipes Sch-40 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:- AGM, Cosmoplast, <i>Napro</i>					
	(i)	2" dia	100	Rft.		
	(ii)	3" dia	225	Rft.		
	(iii)	4" dia	240	Rft.		
	(iv)	6" dia	250	Rft.		
	DRAINAGE SPECIALTIES					
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 Brands:- <i>Cosmoplast, AGM, Napro</i>		6	Nos		
3	Providing and fixing UPVC vent cowl for pipe of the following dia including all accessories complete in all respects. Brands:- <i>Cosmoplast, AGM, Napro</i>					
	(i)	3" dia	-	Nos.		
	(ii)	4" dia	-	Nos.		
	(iii)	2" dia	-	Nos.		
Sub Total for Drainage						
	PLUMBING FIXTURES:					
1	Providing and fixing first quality European type water closet with 6 liters flush tank, build in S-Trap, Stop cock with flexible pipe as per drawings, specifications and Engineers Approval. Brands:- Porta, Sonix / Master		2	Nos.		
2	Providing and fixing of counter type wash basin with mixer (2) nos. Stop cocks with Flexible Connection, flexible drain pipe to floor drain as per drawings, specifications and engineers approval. Brands:- Porta, Sonix / Master		6	Nos.		

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GROUND FLOOR PLUMBING WORKS

S.No	DESCRIPTION OF ITEM		QTY.	UNIT	RATE	AMOUNT
3	Providing and fixing first quality Eastern water closet with 6 liters flush tank, S-Trap , stop cock and flexible pipe as per as per drawings, specifications and Engineers Approval. Brands:- Porta, Sonix / Master		3	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. Brands:- Porta, Sonix / Master		3	Nos.		
5	Providing and fixing of kitchen Sink with waste trap, bib cock, Stop cocks, Flexible Connection as per drawings , specifications and engineers approval. Brands:- Porta , Sonex/Master		1	Nos.		
6	Providing and fixing of Service/ Mop sink with mixer as per architectural fixture selection ,complete in all respect. Brands:- Porta , Sonex/Master,		1	Nos.		
7	Providing and fixing bath toilet accessories as under by Sonex or Master:					
	(i)	Toilet Paper Holder	2	Nos.		
	(ii)	Soap Dish / Glass shelf	6	Nos.		
	(iii)	Double Bib Cock with Hand Spray / Muslim shower	5	Nos.		
8	Transfer Pumps					
	Supply and installation of Pumps by KSB including control panel, wiring, valves, piping, accessories, etc., complete all in accordance with the drawing and specifications.					
	(i)	Water Transfer Pump set Pump Flow = 75 GPM @ 40 m head (5Hp)	1	Set.		
9	Water Tanker Connection					
	(i)	Supply and installation 600x 600 rcc chamber with 100mm dia sch-40 pipe complete all in accordance with the drawing and specifications.	1	Nos		
10	Valve boxes					
	(i)	Construction of 600x 600 Valve box chambers with cover in accordance with the drawing and specifications.	1	Nos		
11	Manhole, Gully Traps					
	a)	750 x 750 Sewer Manhole with 600x600 medium duty Cover as indicated on the drawings	8	Nos		
	b)	450 x 450 Gully trap	6	Nos		

S.No	DESCRIPTION OF ITEM		QTY.	UNIT	RATE	AMOUNT
Sub Total for Fixtures						
	<u>FIRE FIGHTING</u>					
	Fire Pump					
1	Supply , Installation, Testing of Skid mounted NFPA Curve and panel Compliance End suction Fire Pump set comprising of the following:- including all accessories like Valves, fittings, Headers, Anti vortex plate, panel, Test line, Pressure Relief valves, Diesel engine Exhaust etc.as per NFPA-20, as indicated on the drawings, as per specifications and Engineers Approval (Make: KSB)		1	Set		
	Fire Piping					
2	Supply & installation of seamless Black Steel Sch. 40 pipe work including heavy duty fittings, supports, hangers, painting, welding, testing and commissioning as per drawings, specifications and Engineers Recommendation					
	(i)	25mm dia	10	Rm.		
	(ii)	32mm dia	10	Rm.		
	(iii)	65mm dia	20	Rm.		
	(iv)	100mm dia	20	Rm.		
	Fire Hose Reels					
4	Supply, installation, testing and Commissioning of Dual compartment Fire Hose cabinet (Exposed or recessed type) with 1.2mm thick MS material and 70micron red oxide coating with lock and handle, along with following equipment as per drawings, specifications and Engineers Recommendation.		1	Nos.		
	(i)	25mm diameter, 30m high pressure rubber hose reel tested on 30 bar with PRV (Pressure Reducing valve), Gate Valve and inlet lock shield control valve and Adjustable plastic Nozzle for Jet, spray				
	(ii)	Brass gate valve 25mm.				
	(iii)	Landing valve Dia 65mm				
	(iv)	Portable 3 kg Co2 Extinguisher				
	(v)	Portable 5 kg Dry powder Extinguisher				

BILL OF QUANTITIES



S.No	DESCRIPTION OF ITEM		QTY.	UNIT	RATE	AMOUNT
	Valves and Specialties					
5	(i)	Supply, installation, testing and commissioning of 200mm dia O.S and Y type gate valves with as indicated on the drawings, as per specifications and engineers Estimate	2	Nos.		
6	(ii)	Construction of 2400 mmx 1500mm pits for Gate and Air relief valves with 600mm x 600mm Medium Duty Cover (Weight = 60 kg) as indicated on the drawings, as per specifications and engineers Estimate	3	Nos.		
7	(iii)	150mm dia 2 way Fire Brigade Breeching Inlet Connection with Cabinet and non return valve as per NFPA-24 and specifications	1	Nos.		
8	(iv)	200mm dia PRV Assembly for main system, as per specifications and engineers approval.	0	Nos.		
9	(v)	150mm dia Test line for fire with flow switch and Glob valve as indicated on the drawing, as per specifications and engineers approval.	1	Nos.		
10	(vi)	20mm Diameter Automatic Air Relief valve to be installed as per NFPA-24, as indicated on the drawings, as per specifications and engineers approval.	1	Nos.		
Sub Total for Fire Works						
GRAND TOTAL OF PLUMBING WORKS GROUND FLOOR						

ADDITIONAL COURT-RECORD ROOM FOR
DISTRICT WEST (EXTN) OF BAR ROOM AT
CITY COURT KARACHI

SUMMARY OF COST FIRST FLOOR

S.NO.	DESCRIPTION	AMOUNT
1	CIVIL WORKS	
2	ELECTRICAL WORKS	
3	PLUMBING & FIRE FIGTHING WORKS	
	TOTAL	

BILL OF QUANTITIES



S.NO.	DESCRIPTIONS	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)
A)	STRUCTURE WORKS				
1	Providing and laying Design mix concrete having minimum characteristics cylinder Strength $fc' = 3000$ psi at 28 day. Minimum cement content 300kg/m ³ . Water cement ratio should not exceed 0.5 Using Ordinary Plain Cement using ready mix concrete including steel formworks				
i	Beams and Slab	Cft	5,439		
ii	For Stair case 5'-0" wide Steps	No	48		
2	Providing and laying Design mix concrete having minimum characteristics cylinder Strength $fc' = 4000$ psi at 28 day. Minimum cement content 350kg/m ³ . Water cement ratio should not exceed 0.5 Using Sulphate Resistant Cement using ready mix concrete including steel formwork.				
i	Columns and Lift Wall	Cft	1,617		
3	Grade 60 deformed steel bars conforming to ASTM A-615 having yield strength 414 N/mm ² (60,000psi), as per drawing, specification and as directed by the Engineer.	M.T	30.350		
TOTAL COST OF STRUCTURE WORKS RS.					
B)	ARCHITECTURE WORKS				
1	BLOCK MASONRY IN SUPERSTRUCTURE				
	Solid Block Masonry				
	Providing and laying cement concrete Solid Block wall masonry of minimum 1000 psi compressive strength up to any height set with 1:6 cement mortar, including scaffolding / Raking out joints block cutting etc. complete in all respect as per drawings, technical Provisions and or as directed by the Engineer In charge.				
i)	6"thick	Sft	1,632		
ii)	12"thick	Sft	2,304		
2	FLOORS AND WALL FINISHES				
2.1	1:3:6 Plain Concrete				
	Providing and laying 3" th 1:3:6 plain cement concrete flooring, steps & misc. works using O.P. Cement with 3/4" and down graded crush aggregate and approved sand under finish floor i/c. formwork, curing leveling etc. complete in all respect as per drawings, Technical Provisions and or as directed by the Engineer In charge.	Cft	1,744		

BILL OF QUANTITIES



S.NO.	DESCRIPTIONS	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)
2.2	Porcelain Tiles Flooring				
	Providing and laying of approved Matt finish Porcelain Tiles Room Flooring (18" x 18" / 24" x 24") in white cement with approved color & shade including a base of cement sand mortar (1:5), 1" thick, including 1-1/2" thick P.C.C (1:2:4) compacting, grouting, curing, cutting, grouting with matching color complete in all respect as per drawings Technical Provisions or as directed by the Engineer In charge. (Italian or Equivalent) (Rs.1200/M²)	Sft	6,324		
2.3	Skirting				
	Providing and Fixing 3/4" thick 4" high Skirting or approved thickness color shade & size as per drawing for skirting, landing over cement sand mortar 1-1/2" thick in 1:5 ratio i/c chemical polishing, edge grinding, buffing complete in all respect as per drawing Technical Provisions and or as directed by the Engineer In charge.				
a)	Porcelain Finish	Rft	802		
2.4	Marble for Staircase				
	Providing and Fixing ¾" thick in one piece local Verona marble in white cement or approved color shade & size as per drawing for Stair Steps Risers, landing over cement sand mortar 3/4" thick in 1:5 ratio i/c chemical polishing, edge grinding, buffing complete in all respect as per drawing Technical Provisions and or as directed by the Engineer In charge.				
i)	Steps /Risers and Landings	Sft	578		
2.5	Marble for Walls				
	Providing and Fixing ¾" thick up to Ceiling height in Lift Lobby Area, Local Verona Marble or approved color shade & size as per drawing over cement sand mortar 1.5" thick in 1:5 ratio i/c chemical polishing, edge grinding, buffing complete in all respect as per drawing Technical Provisions and or as directed by the Engineer In charge.	Sft	320		

BILL OF QUANTITIES



S.NO.	DESCRIPTIONS	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)
3	METAL WORKS				
3.1	Metal Stair Railing				
	Providing & Fixing in position miss. stair railing comprising of miss. 1" square bar horizontally and 1-1/2" vertically square bar with lath works and miss. studs at bottom size 3"x1/2" of approved powder coating complete in all respect as per drawing, Technical Provisions and as Engineer.	Sft	107		
3.2	Metal Pipe Hand Railing				
	Providing & Fixing in position miss. hand railing comprising of miss. 1" dia bar horizontally fixed on walls with miss plate includes lath works, approved powder coating complete in all respect as per drawing, Technical Provisions and as Engineer.	Sft	47		
3.3	Metal Hand Railing				
	Providing & Fixing in position miss. Hand railing comprising of miss. 1" square bar horizontally and 1-1/2" vertically square bar with lath works and miss. studs at bottom size 3"x1/2" of approved powder coating complete in all respect as per drawing, Technical Provisions and as Engineer.	Sft	42		
4	CARPENTRY AND JOINERY				
	Wooden Doors				
	Providing, making and fixing in position single leaf / Double leaf 1½" thick solid core Flush Door (70% Solid) door shutter having mahogni wood frame on top & bottom with laminated sheet pressed on shutter included m.s metal frame 18SWG (5" x 2") 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 lock, with cost 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	239		

BILL OF QUANTITIES



S.NO.	DESCRIPTIONS	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)
5	ALUMINUM WINDOWS & VENTILATORS				
	Providing, fitting and fixing all types of glazed aluminum windows of anodized approved quality, color, open able/sliding with fly screen using Box section 1.6 mm thick of Pak cable or equivalent having frame size of 100 x 20 mm (4" x 3/4") and leaf frame section of 50 x 20 mm (2" x 3/4") including aluminum wire gauge panels, 6 mm thick best quality imported glass with rubber gasket using approved standard latches hardware etc. complete in all respect as per drawings, Technical provisions and as per In charge of the Engineer.	Sft	554		
6	<u>SURFACE RENDERING</u>				
6.1	<u>Internal Plaster</u>				
	Providing and applying cement plaster 1:5 on ceiling sides and soffit of beams, on internal sides of walls, columns beams exposed concrete surfaces including hacking 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 In charge.				
I	Internal Ceiling 1/2"-3/4"	Sft	7,041		
II	Internal Wall Plaster 3/4" thick	Sft	7,329		
6.2	<u>External Pigmented (Color)Plaster</u>				
	Providing and applying 1/2" to 3/4" Finish Pigmented (Color) cement sand plaster (1:4) 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, pigment color, curing and scaffolding etc. at any height complete in all respect as per drawings, Technical Provisions and or as directed by the Engineer In charge.	Sft	4,862		
6.3	<u>Plastic Emulsion Paint</u>				
	Providing and applying 3-coats of plastic emulsion paint to internal plastered surfaces (ICI/Burger Pakistan) of approved color and shade including preparation of surface i.e. sand papering carbora dam stone, filling, & primer etc. complete in all respect as per drawings, Technical Provisions and or as directed by the Engineer In charge.	Sft	14,370		

BILL OF QUANTITIES



S.NO.	DESCRIPTIONS	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)
7	<u>OTHER ITEMS</u>				
7.1	<u>Planter</u>				
	Providing, Making of Planter in court area making in R.C.C Walls 4" thick with Base, Water Proof Plaster from inside and outside with stone facing up to specified height, on every alternative floor or wherever specified, complete in all respect as per drawing technical Provisions and or as directed by the Engineer In charge.				
	Size: Planter 82'-0"x2'-0"	No.	1		
	Size: Planter 5'-0"x5'-0"	No.	2		
7.2	<u>CEMENT CONCRETE BAND AROUND WINDOWS</u>				
	Providing and making of Cement Concrete Band around Windows Size 4"x3" or approved includes reinforcement, formworks, as per drawing with all fixing arrangement complete in all respect as per drawing.	Rft	688		
TOTAL VALUE OF ARCHITECTURAL WORKS					
TOTAL VALUE OF STRUCTURE & ARCHITECTURAL WORKS FIRST FLOOR					

FIRST FLOOR ELECTRICAL WORKS

S.No	DESCRIPTION OF ITEMS	QTY.	UNIT	RATE (Rs.)	AMOUNT (Rs.)
A	Wiring & Accessories				
	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.				
1	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	61	Nos		
2	Wiring of light point to light point with 3x1C-1.5 sq.mm PVC cables drawn in 20/25mm dia PVC conduits.	17	Nos		
3	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		
4	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.	8	Nos		
5	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).	14	Nos		
6	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		
7	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.	5	Nos		
A.1	Supply & Installation of following Switch Socket Outlets (SSO) on already installed boxes.				
1	5 Amp 3 Pin SSO. Make: Legrand / Clipsal	19	Nos		
2	16 Amp Shoko socket Make: Legrand / Clipsal	7	Nos		
3	Fan dimmer Make: Legrand / Clipsal	28	Nos		

S.No	DESCRIPTION OF ITEMS	QTY.	UNIT	RATE (Rs.)	AMOUNT (Rs.)
	Providing & fixing of following technology / floor boxes made of 1.5 mm sheet steel, power coated with earth terminal.				
4	1.5 mm, powder coated MS back box with earthing terminal.	30	Nos		
	Sub Total of Wiring & Accessories Rs.				
B	Light & Fan Fixtures				
	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.				
1	Smart panel light fixture with 1x12 watts LED lamp. Make: Osaka / SE	22	Nos		
2	Smart panel light fixture with 1 x 18 watts LED lamp. Make: Osaka / SE	56	Nos		
3	Ceiling fan 56" dia with fan box Make : Pak / Royal Deluxe model	28	Nos		
	Sub Total of Light & Fan Fixtures Rs.				
C	Race ways				
	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	PVC pipe 50 mm dia	15	Mtr		
2	PVC pipe 25 mm dia	15	Mtr		
3	PVC pipe 20 mm dia	15	Mtr		
	Sub Total of Race ways Rs.				

S.No	DESCRIPTION OF ITEMS	QTY.	UNIT	RATE (Rs.)	AMOUNT (Rs.)
D	L.V. Switchgear				
	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	DISTRIBUTION BOARD "F"	1	No		
	Sub Total of L.V. Switchgear Rs.				
E	Main / Sub-main Feeders				
	Supply, installation & termination at both ends of following main/sub-main cables in already installed Pipes complete as per site requirements				
1	1x10 mm sq 4core PVC/PVC Cable+1x10 mm sq 1 core PVC Cable.	10	Mtr		
	Sub Total of Main / Sub-main Feeder Rs.				
F	Voice System				
	Supply, pulling & fluke testing of Voice cables in PVC Pipe, including labeling at both ends as per drawings. Make: Clipsal / Systimax.				
1	20 Pair jelly filled telephone Cable	20	Mtrs		
2	Cat-5e UTP Cable in PVC Pipe	3	Nos		
3	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 6x10 pairs tag blocks. Make: Korne / Clipsal.	1	Nos		
	Supply, installation & termination of face plates comprising as follows. Make: Clipsal / Systimax.				
4	1No RJ-11 socket outlet	3	Nos		
	Sub Total of Voice System Rs.				

S.No	DESCRIPTION OF ITEMS	QTY.	UNIT	RATE (Rs.)	AMOUNT (Rs.)
G	Addressiable Fire Alarm System				
1	Supply,installation & testing of 1.5sqmm, 2C solid twisted PVC/PVC 2 Hours Fire Resistance Shielded Cable. In 20mm PVC pipe	17	Nos		
	Supply, installation & testing of Fire Alarm system .Devices with MS back boxes.				
2	Smoke Detector.	13	Nos		
3	Heat Detector.	0	No		
4	Manual Call Point.	2	Nos		
5	Fire Alarm Sounder	2	Nos		
	Sub Total of Addressiable Fire Alarm System Rs.				
	GRAND TOTAL OF ELECTRICAL WORKS FIRST FLOOR				

ADDITIONAL COURT-RECORD ROOM FOR
DISTRICT WEST (EXTN) OF BAR ROOM AT
CITY COURT KARACHI

SUMMARY OF COST SECOND FLOOR

S.NO.	DESCRIPTION	AMOUNT
1	CIVIL WORKS	
2	ELECTRICAL WORKS	
3	PLUMBING & FIRE FIGTHING WORKS	
	TOTAL	

BILL OF QUANTITIES



S.NO.	DESCRIPTIONS	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)
A)	STRUCTURE WORKS				
1	Providing and laying Design mix concrete having minimum characteristics cylinder Strength $f_c' = 3000$ psi at 28 day. Minimum cement content 300kg/m ³ . Water cement ratio should not exceed 0.5 Using Sulphate Resistant Cement using ready mix concrete including steel formwork.				
a)	Beams and Slab	Cft	5,565		
b)	For Stair case 5'-0" wide Steps	No.	48		
2	Providing and laying Design mix concrete having minimum characteristics cylinder Strength $f_c' = 4000$ psi at 28 day. Minimum cement content 350kg/m ³ . Water cement ratio should not exceed 0.5 Using Sulphate Resistant Cement using ready mix concrete including steel formwork.				
i	Columns and Lift Wall	Cft	1,617		
3	Grade 60 deformed steel bars conforming to ASTM A-615 having yield strength 414 N/mm ² (60,000psi), as per drawing, specification and as directed by the Engineer.	M.T	30.350		
TOTAL COST OF STRUCTURE WORKS RS.					
B)	ARCHITECTURE WORKS				
1	BLOCK MASONRY IN SUPERSTRUCTURE				
	Solid Block Masonry				
	Providing and laying cement concrete Solid Block wall masonry of minimum 1000 psi compressive strength up to any height set with 1:6 cement mortar, including scaffolding / Raking out joints block cutting etc. complete in all respect as per drawings, technical Provisions and or as directed by the Engineer In charge.				
i)	6"thick	Sft	1,632		
ii)	12"thick	Sft	2,304		
2	FLOORS AND WALL FINISHES				
2.1	1:3:6 Plain Concrete				
	Providing and laying 3" th 1:3:6 plain cement concrete flooring, steps & misc. works using O.P. Cement with 3/4" and down graded crush aggregate and approved sand under finish floor i/c. formwork, curing leveling etc. complete in all respect as per drawings, Technical Provisions and or as directed by the Engineer In charge.	Cft	1,744		

BILL OF QUANTITIES



S.NO.	DESCRIPTIONS	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)
2.2	Porcelain Tiles Flooring				
	Providing and laying of approved Matt finish Porcelain Tiles Room Flooring (18" x 18" / 24" x 24") in white cement with approved color & shade including a base of cement sand mortar (1:5), 1" thick, including 1-1/2" thick P.C.C (1:2:4) compacting, grouting, curing, cutting, grouting with matching color complete in all respect as per drawings Technical Provisions or as directed by the Engineer In charge. (Italian or Equivalent) (Rs.1200/M ²)	Sft	5,488		
2.3	Ceramic Tiles for Bathroom				
	Providing and laying approved Matt finish tiles in bathroom Flooring 12" x 12"/12" x 18") approved size & quality in white cement with approved color & shade including a base of cement sand mortar (1:5), 1" thick, including 1-1/2" thick P.C.C (1:2:4) for floor and ½" to ¾" thick mortar in 1:6 ratio for walls with grouting, curing, cutting, color, water proofing approved quality for all base areas etc., complete in all respect as per drawings Technical Provisions or as directed by the Engineer in charge.				
i)	Floor	Sft	651		
ii)	Walls	Sft	1,273		
2.4	Skirting				
	Providing and Fixing 3/4" thick 4" high Skirting or approved thickness color shade & size as per drawing for skirting, landing over cement sand mortar 1-1/2" thick in 1:5 ratio i/c chemical polishing, edge grinding, buffing complete in all respect as per drawing Technical Provisions and or as directed by the Engineer In charge.				
a)	Porcelain Finish	Rft	1,482		
2.5	Marble for Staircase				
	Providing and Fixing ¾" thick in one piece local Verona marble in white cement or approved color shade & size as per drawing for Stair Steps Risers, landing over cement sand mortar 3/4" thick in 1:5 ratio i/c chemical polishing, edge grinding, buffing complete in all respect as per drawing Technical Provisions and or as directed by the Engineer In charge.				
i)	Steps /Risers and Landings	Sft	578		

BILL OF QUANTITIES



S.NO.	DESCRIPTIONS	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)
2.6	Marble for Walls				
	Providing and Fixing $\frac{3}{4}$ " thick up to Ceiling height in Lift Lobby Area, Local Verona Marble or approved color shade & size as per drawing over cement sand mortar 1.5" thick in 1:5 ratio i/c chemical polishing, edge grinding, buffing complete in all respect as per drawing Technical Provisions and or as directed by the Engineer In charge.	Sft	320		
2.7	Marble Counter Top for Wash Basins				
	Providing and fixing $\frac{3}{4}$ " thick Verona or approved marble counter top including 1" thick CS mortar (1:5), over 3" R.C.C Slab including curing and chemical polishing, rounding front edge, cutting for Basin hole complete in all respect as per drawings, technical provisions and or as directed by the Engineer In charge.				
i)	Wash Basin	Sft	46		
3	METAL WORKS				
3.1	Metal Stair Railing				
	Providing & Fixing in position m.s. stair railing comprising of m.s. 1" square bar horizontally and 1-1/2" vertically square bar with lath works and m.s. studs at bottom size 3"x1/2" of approved powder coating complete in all respect as per drawing, Technical Provisions and as Engineer.				
ii)	Ground Floor	Sft	107		
3.2	Metal Pipe Hand Railing				
	Providing & Fixing in position m.s. hand railing comprising of m.s. 1" dia bar horizontally fixed on walls with m.s plate includes lath works ,approved powder coating complete in all respect as per drawing, Technical Provisions and as Engineer.	Sft	47		
3.3	Metal Hand Railing				
	Providing & Fixing in position m.s. Hand railing comprising of m.s. 1" square bar horizontally and 1-1/2" vertically square bar with lath works and m.s. studs at bottom size 3"x1/2" of approved powder coating complete in all respect as per drawing, Technical Provisions and as Engineer.	Sft	216		

BILL OF QUANTITIES



S.NO.	DESCRIPTIONS	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)
4	CARPENTRY AND JOINERY				
	Wooden Doors				
	Providing, making and fixing in position single leaf / Double leaf 1½" thick solid core Flush Door (70% Solid) door shutter having mahogni wood frame on top & bottom with laminated sheet pressed on shutter included m.s metal frame 18SWG (5" x 2") 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 lock, with cost 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	712		
5	ALUMINUM WINDOWS & VENTILATORS				
	Providing, fitting and fixing all types of glazed aluminum windows of anodized approved quality, color, open able/sliding with fly screen using Box section 1.6 mm thick of Pak cable or equivalent having frame size of 100 x 20 mm (4" x 3/4") and leaf frame section of 50 x 20 mm (2" x 3/4") including aluminum wire gauge panels, 6 mm thick best quality imported glass with rubber gasket using approved standard latches hardware etc. complete in all respect as per drawings, Technical provisions and as per In charge of the Engineer.	Sft	865		
5.1	PVC Doors for Bathrooms				
	Providing and Fixing in position 2" thick approved imported PVC Doors shutters for Bathrooms in approved color includes 2" x 3" PVC Frames includes all hardware e.g. hinges, locks, handles etc. complete in all respect as per drawing technical provisions and or as directed by the Engineer In charge.	Sft	169		

BILL OF QUANTITIES



S.NO.	DESCRIPTIONS	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)
6	<u>SURFACE RENDERING</u>				
6.1	<u>Internal Plaster</u>				
	Providing and applying cement plaster 1:5 on ceiling sides and soffit of beams, on internal sides of walls, columns beams exposed concrete surfaces including hacking 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 In charge.				
i)	Internal Ceiling 1/2"-3/4"	Sft	6,968		
ii)	Internal Wall Plaster 3/4" thick	Sft	17,193		
6.2	<u>External Pigmented (Color)Plaster</u>				
	Providing and applying 1/2" to 3/4" Finish cement plaster (1:4) 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, pigment color, curing and scaffolding etc. at any height complete in all respect as per drawings, Technical Provisions and or as directed by the Engineer In charge.	Sft	4,862		
6.3	<u>Plastic Emulsion Paint</u>				
	Providing and applying 3-coats of plastic emulsion paint to internal plastered surfaces (ICI/Burger Pakistan) of approved color 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 In charge.	Sft	24,161		
7	<u>BATH ACCESSORIES</u>				
7.1	<u>Mirror</u>				
	Providing & Fixing in position approved best quality imported 5mm th looking mirror fixed on back ply, chemical treatment to prevent dampness, as per Architects instruction, complete in all respect as per drawings, Technical Provisions and or as directed by the Engineer In charge.	Sft	81		

BILL OF QUANTITIES



S.NO.	DESCRIPTIONS	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)
8.2	<u>CEMENT CONCRETE BAND AROUND WINDOWS</u>				
	Providing and making of Cement Concrete Band around Windows Size 4"x3" or approved includes reinforcement, formworks , as per drawing with all fixing arrangement complete in all respect as per drawing.	Rft	975		
8.3	<u>SUNK SLAB</u>				
	Providing and Laying 6" th Sunk Slab for Bath rooms filling with Flower pots and coal covered with 3" th 1:3:6 Concrete with BRC MESH complete in all respect as per drawings Technical Provisions and or as directed by the Engineer In charge.	Sft	559		
TOTAL VALUE OF ARCHITECTURAL WORKS					
TOTAL VALUE OF STRUCTURE & ARCHITECTURAL WORKS					

BILL OF QUANTITIES



S.No	DESCRIPTION OF ITEMS	QTY.	UNIT	RATE (Rs.)	AMOUNT (Rs.)
A	Wiring & Accessories				
	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.				
1	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	84	Nos		
2	Wiring of light point to light point with 3x1C-1.5 sq.mm PVC cables drawn in 20/25mm dia PVC conduits.	43	Nos		
3	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		
4	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.	12	Nos		
5	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.	8	Nos		
6	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).	31	Nos		
7	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.	5	Nos		
8	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.	14	Nos		
A.1	Supply & Installation of following Switch Socket Outlets (SSO) on already installed boxes.				
1	5 Amp 3 Pin SSO. Make: Legrand / Clipsal	36	Nos		
2	13 Amp Flat Pin SSO. Make: Legrand / Clipsal	36	Nos		

BILL OF QUANTITIES



S.No	DESCRIPTION OF ITEMS	QTY.	UNIT	RATE (Rs.)	AMOUNT (Rs.)
3	15 Amp 3Pin SSO. Make: Legrand / Clipsal	0	Nos		
4	16 Amp Shoko socket Make: Legrand / Clipsal	19	Nos		
5	32A DP safety breaker in metal enclosre. Make: Kawamora	8	Nos		
6	Fan dimmer Make: Legrand / Clipsal	14	Nos		
	Providing & fixing of following technology / floor boxes made of 1.5 mm sheet steel, power coated with earth terminal.				
7	1.5 mm, powder coated 4 gang technology box with earthing terminal.	16	Nos		
8	1.5 mm, powder coated MS back box with earthing terminal.	15	Nos		
	Sub Total of Wiring & Accessories Rs.				
B	Light & Fan Fixtures				
	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.				
1	Bulk Head light fixture with 1x20 watts LED lamp. Make: Osaka / Se	0	Nos		
2	Smart panel light fixture with 1x12 watts LED lamp. Make: Osaka / SE	75	Nos		
3	Smart panel light fixture with 1 x 18 watts LED lamp. Make: Osaka / SE	52	Nos		
4	Exhaust fan metal body 12" (60W)	1	Nos		
5	Exhaust fan 8" dia Plastic Body	4	Nos		
6	TMS Fluorescent light fixture 1x18w lamp Make: Osaka / Se	0	Nos		
7	Ceiling fan 56" dia with fan box Make : Pak / Royal Deluxe model	14	Nos		
	Sub Total of Light & Fan Fixtures Rs.				
C	Race ways				
	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	PVC pipe 50 mm dia	20	Mtr		
2	PVC pipe 25 mm dia	20	Mtr		
3	PVC pipe 20 mm dia	20	Mtr		
	Sub Total of Race ways Rs.				

BILL OF QUANTITIES



S.No	DESCRIPTION OF ITEMS	QTY.	UNIT	RATE (Rs.)	AMOUNT (Rs.)
D	L.V. Switchgear				
	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	DISTRIBUTION BOARD	1	No		
	Sub Total of L.V. Switchgear Rs.				
E	Main / Sub-main Feeders				
	Supply, installation & termination at both ends of following main/sub-main cables in already installed Pipes complete as per site requirements				
1	1x35 mm sq 4core PVC/PVC Cable +2x16 mm sq 1 core PVC Cable.	15	Mtr		
	Sub Total of Main / Sub-main Feeder Rs.				
F	Data & Voice System				
	Supply, pulling & fluke testing of Data or Voice cables in PVC Pipe, including labeling at both ends as per drawings. Make: Clipsal / Systimax.				
1	10 Pair jelly filled telephone Cable	15	Mtrs		
2	Cat-5e UTP Cable PVC Pipe	11	Nos		
3	Cat-6 UTP Cable PVC Pipe	16	Nos		
4	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 2x10 pairs tag blocks. Make: Korne / Clipsal.	1	Nos		
	Supply, installation & termination of face plates comprising as follows. Make: Clipsal / Systimax.				
5	1No RJ-45, CAT-6 I/O	16	Nos		
6	1No RJ-11 socket outlet	11	Nos		

BILL OF QUANTITIES



S.No	DESCRIPTION OF ITEMS	QTY.	UNIT	RATE (Rs.)	AMOUNT (Rs.)
7	Supply, Installation & termination of 24 port RJ-45 Cat-6 UTP Patch Panel complete with all accessories. Make: Clipsal / Systimax.	1	Nos		
8	Supply, Installation & termination of 24 port RJ-45 Cat-6, GIGA Speed Switch, complete with all accessories. Make: 3 COM.	1	Nos		
9	Supply & installation of 18 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 & mounting accessories complete in all respect. Make: Local.	1	Nos		
	Supply & installation of following sizes of Cat-6 UTP (RJ-45 to RJ-45) certified patch cords. Make: Clipsal / Systimax.				
10	1 meter long	16	Nos		
11	3 meter long	16	Nos		
Sub Total of Data & Voice System Rs.					
G	Addressable Fire Alarm System				
1	Supply, installation & testing of 1.5sqmm, 2C solid twisted PVC/PVC 2 Hours Fire Resistance Shielded Cable. In 20mm PVC pipe	26	Nos		
	Supply, installation & testing of Fire Alarm system .Devices with MS back boxes.				
2	Smoke Detector.	22	Nos		
3	Heat Detector.	0	No		
4	Manual Call Point.	2	Nos		
5	Fire Alarm Sounder.	2	Nos		
Sub Total of Addressable Fire Alarm System Rs.					
I	Air-Conditioning				
1	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	150	Mtr		
	Supply & installation of UPVC pipe Class-D with all accessories including cutting of wall / floor etc.Make: JEDDAH / DADEX				
2	20 mm dia.	80	Mtr		

ADDITIONAL COURT-RECORD ROOM FOR
DISTRICT WEST (EXTN) OF BAR ROOM AT
CITY COURT KARACHI.
SECOND FLOOR ELECTRICAL WORKS

BILL OF QUANTITIES



S.No	DESCRIPTION OF ITEMS	QTY.	UNIT	RATE (Rs.)	AMOUNT (Rs.)
3	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.	8	Nos		
	Sub Total of Air-Conditioning System Rs.				
	Grand Total of Second Floor Electrical Works				

BILL OF QUANTITIES



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 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. Brands:- Cosmoplast, Vesbo, Rektherm				
	(i) ¾" dia.	140	Rft.		
	(ii) 1" dia.	260	Rft.		
	(iii) 1 ¼" dia.	40	Rft.		
	(iv) 1 ½" dia.	20	Rft.		
	(v) 2" dia.	20	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.	-	Nos.		
	(ii) 1" dia.	2	Nos.		
	(iii) 1 ¼" dia.	2	Nos.		
	(iv) 1 ½" dia.	-	Nos.		
	(v) 2" dia.	-	Nos.		
Sub Total for Water Supply					
	DRAINAGE WORKS				
	SOIL, WASTE & VENT SYSTEM:				

BILL OF QUANTITIES



S.No	DESCRIPTION OF ITEM		QTY.	UNIT	RATE	AMOUNT
1	Providing, fixing, Testing and commissioning of uPVC pipes Sch-40 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:- AGM, Cosmoplast, <i>Napro</i>					
	(i)	2" dia	60	Rft.		
	(ii)	3" dia	125	Rft.		
	(iii)	4" dia	115	Rft.		
	(iv)	6" dia	-	Rft.		
	DRAINAGE SPECIALTIES					
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 Brands:- <i>Cosmoplast, AGM, Napro</i>		7	Nos		
3	Providing and fixing UPVC vent cowl for pipe of the following dia including all accessories complete in all respects. Brands:- <i>Cosmoplast, AGM, Napro</i>					
	(i)	3" dia	-	Nos.		
	(ii)	4" dia	-	Nos.		
	(iii)	2" dia	-	Nos.		
Sub Total for Drainage						
	PLUMBING FIXTURES:					
1	Providing and fixing first quality European type water closet with 6 liters flush tank, build in S-Trap, Stop cock with flexible pipe as per drawings, specifications and Engineers Approval. Brands:- Porta, Sonix / Master		4	Nos.		
2	Providing and fixing of counter type wash basin with mixer (2) nos. Stop cocks with Flexible Connection, flexible drain pipe to floor drain as per drawings, specifications and engineers approval. Brands:- Porta, Sonix / Master		6	Nos.		

BILL OF QUANTITIES



S.No	DESCRIPTION OF ITEM		QTY.	UNIT	RATE	AMOUNT
3	Providing and fixing first quality Eastern water closet with 6 liters flush tank, S-Trap , stop cock and flexible pipe as per as per drawings, specifications and Engineers Approval. Brands:- Porta, Sonix / Master		3	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. Brands:- Porta, Sonix / Master		3	Nos.		
5	Providing and fixing of kitchen Sink with waste trap, bib cock, Stop cocks, Flexible Connection as per drawings , specifications and engineers approval. Brands:- Porta , Sonex/Master		-	Nos.		
6	Providing and fixing of Service/ Mop sink with mixer as per architectural fixture selection ,complete in all respect. Brands:- Porta , Sonex/Master,		-	Nos.		
7	Providing and fixing bath toilet accessories as under by Sonex or Master:					
	(i)	Toilet Paper Holder	4	Nos.		
	(ii)	Soap Dish / Glass shelf	6	Nos.		
	(iii)	Double Bib Cock with Hand Spray / Muslim shower	7	Nos.		
Sub Total for Fixtures						
	FIRE FIGHTING					
	Fire Piping					
2	Supply & installation of seamless Black Steel Sch. 40 pipe work including heavy duty fittings, supports, hangers, painting, welding, testing and commissioning as per drawings, specifications and Engineers Recommendation					
	(i)	25mm dia	10	Rm.		
	(ii)	32mm dia	10	Rm.		
	(iii)	65mm dia	20	Rm.		
	(iv)	100mm dia	20	Rm.		

SECOND FLOOR PLUMBING WORKS

S.No	DESCRIPTION OF ITEM		QTY.	UNIT	RATE	AMOUNT
	Fire Hose Reels					
4	Supply, installation, testing and Commissioning of Dual compartment Fire Hose cabinet (Exposed or recessed type) with 1.2mm thick MS material and 70micron red oxide coating with lock and handle, along with following equipment as per drawings, specifications and Engineers Recommendation.		1	Nos.		
	(i)	25mm diameter, 30m high pressure rubber hose reel tested on 30 bar with PRV (Pressure Reducing valve), Gate Valve and inlet lock shield control valve and Adjustable plastic Nozzle for Jet, spray				
	(ii)	Brass gate valve 25mm.				
	(iii)	Landing valve Dia 65mm				
	(iv)	Portable 3 kg Co2 Extinguisher				
	(v)	Portable 5 kg Dry powder Extinguisher				
	Valves and Specialties					
5	(i)	Supply, installation, testing and commissioning of 200mm dia O.S and Y type gate valves with as indicated on the drawings, as per specifications and engineers Estimate	1	Nos.		
6	(ii)	Construction of 2400 mmx 1500mm pits for Gate and Air relief valves with 600mm x 600mm Medium Duty Cover (Weight = 60 kg) as indicated on the drawings, as per specifications and engineers Estimate	0	Nos.		
7	(iii)	150mm dia 2 way Fire Brigade Breeching Inlet Connection with Cabinet and non return valve as per NFPA-24 and specifications	0	Nos.		
8	(iv)	200mm dia PRV Assembly for main system, as per specifications and engineers approval.	0	Nos.		
9	(v)	150mm dia Test line for fire with flow switch and Glob valve as indicated on the drawing, as per specifications and engineers approval.	0	Nos.		
10	(vi)	20mm Diameter Automatic Air Relief valve to be installed as per NFPA-24, as indicated on the drawings, as per specifications and engineers approval.	0	Nos.		

Sub Total for Fire Works						
Grand Total of Plumbing Works Second Floor						

ADDITIONAL COURT-RECORD ROOM FOR
DISTRICT WEST (EXTN) OF BAR ROOM AT
CITY COURT KARACHI

SUMMARY OF COST THIRD FLOOR

S.NO.	DESCRIPTION	AMOUNT
1	CIVIL WORKS	
2	ELECTRICAL WORKS	
3	PLUMBING & FIRE FIGTHING WORKS	
	TOTAL	

BILL OF QUANTITIES



S.NO.	DESCRIPTIONS	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)
A)	STRUCTURE WORKS				
1	Providing and laying Design mix concrete having minimum characteristics cylinder Strength $f_c' = 3000$ psi at 28 day. Minimum cement content 300kg/m ³ . Water cement ratio should not exceed 0.5 Using Sulphate Resistant Cement using ready mix concrete including steel formwork.				
a)	Beams and Slab	Cft	5,565		
b)	For Stair case 5'-0" wide Steps	No.	48		
2	Providing and laying Design mix concrete having minimum characteristics cylinder Strength $f_c' = 4000$ psi at 28 day. Minimum cement content 350kg/m ³ . Water cement ratio should not exceed 0.5 Using Sulphate Resistant Cement using ready mix concrete including steel formwork.				
i	Columns and Lift Wall	Cft	1,617		
3	Grade 60 deformed steel bars conforming to ASTM A-615 having yield strength 414 N/mm ² (60,000psi), as per drawing, specification and as directed by the Engineer.	M.T	30.350		
TOTAL COST OF STRUCTURE WORKS					
B)	ARCHITECTURE WORKS				
1	BLOCK MASONRY IN SUPERSTRUCTURE				
	Solid Block Masonry				
	Providing and laying cement concrete Solid Block wall masonry of minimum 1000 psi compressive strength up to any height set with 1:6 cement mortar, including scaffolding / Raking out joints block cutting etc. complete in all respect as per drawings, technical Provisions and or as directed by the Engineer In charge.				
i)	6"thick	Sft	1,632		
ii)	12"thick	Sft	2,304		
2	FLOORS AND WALL FINISHES				
2.1	1:3:6 Plain Concrete				
	Providing and laying 3" th 1:3:6 plain cement concrete flooring, steps & misc. works using O.P. Cement with 3/4" and down graded crush aggregate and approved sand under finish floor i/c. formwork, curing leveling etc. complete in all respect as per drawings, Technical Provisions and or as directed by the Engineer In charge.	Cft	1,744		

BILL OF QUANTITIES



S.NO.	DESCRIPTIONS	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)
2.2	Porcelain Tiles Flooring				
	Providing and laying of approved Matt finish Porcelain Tiles Room Flooring (18" x 18" / 24" x 24") in white cement with approved color & shade including a base of cement sand mortar (1:5), 1" thick, including 1-1/2" thick P.C.C (1:2:4) compacting, grouting, curing, cutting, grouting with matching color complete in all respect as per drawings Technical Provisions or as directed by the Engineer In charge. (Italian or Equivalent) (Rs.1200/M ²)	Sft	5,488		
2.5	Ceramic Tiles for Bathroom				
	Providing and laying approved Matt finish tiles in bathroom Flooring 12" x 12"/12"x18") approved size & quality in white cement with approved color & shade including a base of cement sand mortar (1:5), 1" thick, including 1-1/2" thick P.C.C (1:2:4) for floor and 1/2" to 3/4" thick mortar in 1:6 ratio for walls with grouting, curing, cutting, color, water proofing approved quality for all base areas etc., complete in all respect as per drawings Technical Provisions or as directed by the Engineer in charge.				
i)	Floor	Sft	651		
ii)	Walls	Sft	1,273		
2.6	Skirting				
	Providing and Fixing 3/4" thick 4" high Skirting or approved thickness color shade & size as per drawing for skirting, landing over cement sand mortar 1-1/2" thick in 1:5 ratio i/c chemical polishing, edge grinding, buffing complete in all respect as per drawing Technical Provisions and or as directed by the Engineer In charge.				
a)	Porcelain Finish	Rft	1,482		
2.7	Marble for Staircase				
	Providing and Fixing 3/4" thick in one piece local Verona marble in white cement or approved color shade & size as per drawing for Stair Steps Risers, landing over cement sand mortar 3/4" thick in 1:5 ratio i/c chemical polishing, edge grinding, buffing complete in all respect as per drawing Technical Provisions and or as directed by the Engineer In charge.				
i)	Steps /Risers and Landings	Sft	578		

BILL OF QUANTITIES



S.NO.	DESCRIPTIONS	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)
2.8	Marble for Walls				
	Providing and Fixing ¾" thick up to Ceiling height in Lift Lobby Area, Local Verona Marble or approved color shade & size as per drawing over cement sand mortar 1.5" thick in 1:5 ratio i/c chemical polishing, edge grinding, buffing complete in all respect as per drawing Technical Provisions and or as directed by the Engineer In charge.	Sft	320		
2.9	Marble Counter Top for Wash Basins				
	Providing and fixing ¾" thick Verona or approved marble counter top including 1" thick CS mortar (1:5), over 3" R.C.C Slab including curing and chemical polishing, rounding front edge, cutting for Basin hole complete in all respect as per drawings, technical provisions and or as directed by the Engineer In charge.				
ii)	For Wash Basin	Sft	46		
3	METAL WORKS				
3.1	Metal Stair Railing				
	Providing & Fixing in position m.s. stair railing comprising of m.s. 1" square bar horizontally and 1-1/2" vertically square bar with lath works and m.s. studs at bottom size 3"x1/2" of approved powder coating complete in all respect as per drawing, Technical Provisions and as Engineer.	Sft	107		
3.2	Metal Pipe Hand Railing				
	Providing & Fixing in position m.s. hand railing comprising of m.s. 1" dia bar horizontally fixed on walls with m.s plate includes lath works ,approved powder coating complete in all respect as per drawing, Technical Provisions and as Engineer.	Sft	47		
3.3	Metal Hand Railing				
	Providing & Fixing in position m.s. Hand railing comprising of m.s. 1" square bar horizontally and 1-1/2" vertically square bar with lath works and m.s. studs at bottom size 3"x1/2" of approved powder coating complete in all respect as per drawing, Technical Provisions and as Engineer.	Sft	216		

BILL OF QUANTITIES



S.NO.	DESCRIPTIONS	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)
4	CARPENTRY AND JOINERY				
	Wooden Doors				
	Providing, making and fixing in position single leaf / Double leaf 1½" thick solid core Flush Door (70% Solid) door shutter having mahogni wood frame on top & bottom with laminated sheet pressed on shutter included m.s metal frame 18SWG (5" x 2") 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 lock, with cost 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	712		
5	ALUMINUM WINDOWS & VENTILATORS				
	Providing, fitting and fixing all types of glazed aluminum windows of anodized approved quality, color, open able/sliding with fly screen using Box section 1.6 mm thick of Pak cable or equivalent having frame size of 100 x 20 mm (4" x 3/4") and leaf frame section of 50 x 20 mm (2" x 3/4") including aluminum wire gauge panels, 6 mm thick best quality imported glass with rubber gasket using approved standard latches hardware etc. complete in all respect as per drawings, Technical provisions and as per In charge of the Engineer.	Sft	865		
5.2	PVC Doors for Bathrooms				
	Providing and Fixing in position 2" thick approved imported PVC Doors shutters for Bathrooms in approved color includes 2" x 3" PVC Frames includes all hardware e.g. hinges, locks, handles etc. complete in all respect as per drawing technical provisions and or as directed by the Engineer In charge.	Sft	169		

BILL OF QUANTITIES



S.NO.	DESCRIPTIONS	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)
6	<u>SURFACE RENDERING</u>				
6.1	<u>Internal Plaster</u>				
	Providing and applying cement plaster 1:5 on ceiling sides and soffit of beams, on internal sides of walls, columns beams exposed concrete surfaces including hacking 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 In charge.				
i)	Internal Ceiling 1/2"-3/4"	Sft	6,968		
ii)	Internal Wall Plaster 3/4" thick	Sft	17,193		
6.2	<u>External Pigmented (Color)Plaster</u>				
	Providing and applying 1/2" to 3/4" Finish cement plaster (1:4) 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, pigment color, curing and scaffolding etc. at any height complete in all respect as per drawings, Technical Provisions and or as directed by the Engineer In charge.	Sft	4,862		
6.3	<u>Plastic Emulsion Paint</u>				
	Providing and applying 3-coats of plastic emulsion paint to internal plastered surfaces (ICI/Burger Pakistan) of approved color 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				
i)	Ground Floor	Sft	24,161		
7	<u>BATH ACCESSORIES</u>				
7.1	<u>Mirror</u>				
	Providing & Fixing in position approved best quality imported 5mm th looking mirror fixed on back ply, chemical treatment to prevent dampness, as per Architects instruction, complete in all respect as per drawings, Technical Provisions and or as directed by	Sft	81		
8.2	<u>CEMENT CONCRETE BAND AROUND WINDOWS</u>				
	Providing and making of Cement Concrete Band around Windows Size 4"x3" or approved includes reinforcement, formworks, as per drawing with all fixing arrangement complete in all respect as per drawing.	Rft	975		

ADDITIONAL COURT-RECORD ROOM FOR
DISTRICT WEST (EXTN) OF BAR ROOM AT
CITY COURT KARACHI.
THIRD FLOOR CIVIL WORKS

BILL OF QUANTITIES



S.NO.	DESCRIPTIONS	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)
8.4	<u>SUNK SLAB</u>				
	Providing and Laying 6" th Sunk Slab for Bath rooms filling with Flower pots and coal covered with 3" th 1:3:6 Concrete with BRC MESH complete in all respect as per drawings Technical Provisions and or as directed by the Engineer In charge.	Sft	559		
TOTAL VALUE OF ARCHITECTURAL WORKS					
TOTAL VALUE OF STRUCTURE & ARCHITECTURAL WORKS THIRD FLOOR					

THIRD FLOOR ELECTRICAL WORKS

S.No	DESCRIPTION OF ITEMS	QTY.	UNIT	RATE (Rs.)	AMOUNT (Rs.)
A	Wiring & Accessories				
	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.				
1	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	84	Nos		
2	Wiring of light point to light point with 3x1C-1.5 sq.mm PVC cables drawn in 20/25mm dia PVC conduits.	43	Nos		
3	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		
4	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.	12	Nos		
5	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.	8	Nos		
6	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).	31	Nos		
7	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.	5	Nos		
8	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.	14	Nos		
A.1	Supply & Installation of following Switch Socket Outlets (SSO) on already installed boxes.				
1	5 Amp 3 Pin SSO. Make: Legrand / Clipsal	36	Nos		

THIRD FLOOR ELECTRICAL WORKS

S.No	DESCRIPTION OF ITEMS	QTY.	UNIT	RATE (Rs.)	AMOUNT (Rs.)
2	13 Amp Flat Pin SSO. Make: Legrand / Clipsal	36	Nos		
3	15 Amp 3Pin SSO. Make: Legrand / Clipsal	0	Nos		
4	16 Amp Shoko socket Make: Legrand / Clipsal	19	Nos		
5	32A DP safety breaker in metal enclosre. Make: Kawamora	8	Nos		
6	Fan dimmer Make: Legrand / Clipsal	14	Nos		
	Providing & fixing of following technology / floor boxes made of 1.5 mm sheet steel, power coated with earth terminal.				
7	1.5 mm, powder coated 4 gang technology box with earthing terminal.	16	Nos		
8	1.5 mm, powder coated MS back box with earthing terminal.	15	Nos		
	Sub Total of Wiring & Accessories Rs.				
B	Light & Fan Fixtures				
	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.				
1	Bulk Head light fixture with 1x20 watts LED lamp. Make: Osaka / Se	0	Nos		
2	Smart panel light fixture with 1x12 watts LED lamp. Make: Osaka / SE	75	Nos		
3	Smart panel light fixture with 1 x 18 watts LED lamp. Make: Osaka / SE	52	Nos		
4	Exhaust fan metal body 12" (60W)	1	Nos		
5	Exhaust fan 8" dia Plastic Body	4	Nos		
6	TMS Flourescent light fixture 1x18w lamp Make: Osaka / Se	0	Nos		
7	Ceiling fan 56" dia with fan box Make : Pak / Royal Deluxe model	14	Nos		
	Sub Total of Light & Fan Fixtures Rs.				
C	Race ways				
	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	PVC pipe 50 mm dia	20	Mtr		
2	PVC pipe 25 mm dia	20	Mtr		
3	PVC pipe 20 mm dia	20	Mtr		
	Sub Total of Race ways Rs.				

THIRD FLOOR ELECTRICAL WORKS

S.No	DESCRIPTION OF ITEMS	QTY.	UNIT	RATE (Rs.)	AMOUNT (Rs.)
D	L.V. Switchgear				
	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	DISTRIBUTION BOARD	1	No		
	Sub Total of L.V. Switchgear Rs.				
E	Main / Sub-main Feeders				
	Supply, installation & termination at both ends of following main/sub-main cables in already installed Pipes complete as per site requirements				
1	1x35 mm sq 4core PVC/PVC Cable +2x16 mm sq 1 core PVC Cable.	30	Mtr		
	Sub Total of Main / Sub-main Feeder Rs.				
F	Data & Voice System				
	Supply, pulling & fluke testing of Data or Voice cables in PVC Pipe, including labeling at both ends as per drawings. Make: Clipsal / Systimax.				
1	10 Pair jelly filled telephone Cable	30	Mtrs		
2	Cat-5e UTP Cable PVC Pipe	11	Nos		
3	Cat-6 UTP Cable PVC Pipe	16	Nos		
4	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 2x10 pairs tag blocks. Make: Korne / Clipsal.	1	Nos		
	Supply, installation & termination of face plates comprising as follows. Make: Clipsal / Systimax.				
5	1No RJ-45, CAT-6 I/O	16	Nos		

THIRD FLOOR ELECTRICAL WORKS

S.No	DESCRIPTION OF ITEMS	QTY.	UNIT	RATE (Rs.)	AMOUNT (Rs.)
6	1No RJ-11 socket outlet	11	Nos		
7	Supply, Installation & termination of 24 port RJ-45 Cat-6 UTP Patch Panel complete with all accessories. Make: Clipsal / Systimax.	1	Nos		
8	Supply, Installation & termination of 24 port RJ-45 Cat-6, GIGA Speed Switch, complete with all accessories. Make: 3 COM.	1	Nos		
9	Supply & installation of 18 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 & mounting accessories complete in all respect. Make: Local.	1	Nos		
	Supply & installation of following sizes of Cat-6 UTP (RJ-45 to RJ-45) certified patch cords. Make: Clipsal / Systimax.				
10	1 meter long	16	Nos		
11	3 meter long	16	Nos		
Sub Total of Data & Voice System Rs.					
G	Addressable Fire Alarm System				
1	Supply, installation & testing of 1.5sqmm, 2C solid twisted PVC/PVC 2 Hours Fire Resistance Shielded Cable. In 20mm PVC pipe	26	Nos		
	Supply, installation & testing of Fire Alarm system .Devices with MS back boxes.				
2	Smoke Detector.	22	Nos		
3	Heat Detector.	0	No		
4	Manual Call Point.	2	Nos		
5	Fire Alarm Sounder.	2	Nos		
Sub Total of Addressable Fire Alarm System Rs.					
I	Air-Conditioning				
1	Supply, installation & testing of refrigerant piping (1/2" +1/4") with rubber foam installation, protected with tape. Control wiring in 20mm dia PVC pipe, complete in all respect. Make: Muller USA	150	Mtr		

ADDITIONAL COURT-RECORD ROOM FOR
DISTRICT WEST (EXTN) OF BAR ROOM AT
CITY COURT KARACHI.
THIRD FLOOR ELECTRICAL WORKS

BILL OF QUANTITIES



S.No	DESCRIPTION OF ITEMS	QTY.	UNIT	RATE (Rs.)	AMOUNT (Rs.)
	Supply & installation of UPVC pipe Class-D with all accessories including cutting of wall / floor etc.Make: JEDDAH / DADEX				
2	20 mm dia.	80	Mtr		
3	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.	8	Nos		
			Sub Total		
	Grand Total of Electrical Work Third Floor				

BILL OF QUANTITIES



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 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. Brands:- Cosmoplast, Vesbo, Rektherm				
	(i) ¾" dia.	140	Rft.		
	(ii) 1" dia.	260	Rft.		
	(iii) 1 ¼" dia.	40	Rft.		
	(iv) 1 ½" dia.	20	Rft.		
	(v) 2" dia.	20	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.	-	Nos.		
	(ii) 1" dia.	2	Nos.		
	(iii) 1 ¼" dia.	2	Nos.		
	(iv) 1 ½" dia.	-	Nos.		
	(v) 2" dia.	-	Nos.		
Sub Total for Water Supply					

BILL OF QUANTITIES



S.No	DESCRIPTION OF ITEM		QTY.	UNIT	RATE	AMOUNT
	DRAINAGE WORKS					
	SOIL, WASTE & VENT SYSTEM:					
1	Providing, fixing, Testing and commissioning of uPVC pipes Sch-40 Solvent fittings as per BS 4660 for above ground installations for Soil, Waste, Vent & R/w 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:- AGM, Cosmoplast, Napro					
	(i)	2" dia	60	Rft.		
	(ii)	3" dia	125	Rft.		
	(iii)	4" dia	115	Rft.		
	(iv)	6" dia	-	Rft.		
	DRAINAGE SPECIALTIES					
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 Brands:- Cosmoplast, AGM, Napro		7	Nos		
3	Providing and fixing UPVC vent cowl for pipe of the following dia including all accessories complete in all respects. Brands:- Cosmoplast, AGM, Napro					
	(i)	3" dia	-	Nos.		
	(ii)	4" dia	-	Nos.		
	(iii)	2" dia	-	Nos.		
Sub Total for Drainage						
	PLUMBING FIXTURES:					
1	Providing and fixing first quality European type water closet with 6 liters flush tank, build in S-Trap, Stop cock with flexible pipe as per drawings, specifications and Engineers Approval. Brands:- Porta, Sonix / Master		4	Nos.		

BILL OF QUANTITIES



S.No	DESCRIPTION OF ITEM	QTY.	UNIT	RATE	AMOUNT
2	Providing and fixing of counter type wash basin with mixer (2) nos. Stop cocks with Flexible Connection , flexible drain pipe to floor drain as per drawings , specifications and engineers approval. Brands:- Porta, Sonix / Master	6	Nos.		
3	Providing and fixing first quality Eastern water closet with 6 liters flush tank, S-Trap , stop cock and flexible pipe as per as per drawings, specifications and Engineers Approval. Brands:- Porta, Sonix / Master	3	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. Brands:- Porta, Sonix / Master	3	Nos.		
5	Providing and fixing of kitchen Sink with waste trap, bib cock, Stop cocks, Flexible Connection as per drawings , specifications and engineers approval. Brands:- Porta , Sonex/Master	-	Nos.		
6	Providing and fixing of Service/ Mop sink with mixer as per architectural fixture selection ,complete in all respect. Brands:- Porta , Sonex/Master,	-	Nos.		
7	Providing and fixing bath toilet accessories as under by Sonex or Master:				
	(i) Toilet Paper Holder	4	Nos.		
	(ii) Soap Dish / Glass shelf	6	Nos.		
	(iii) Double Bib Cock with Hand Spray / Muslim shower	7	Nos.		
Sub Total for Fixtures					
	<u>FIRE FIGHTING</u>				
	Fire Piping				
2	Supply & installation of seamless Black Steel Sch. 40 pipe work including heavy duty fittings, supports, hangers, painting, welding, testing and commissioning as per drawings, specifications and Engineers Recommendation				
	(i) 25mm dia	10	Rm.		
	(ii) 32mm dia	10	Rm.		
	(iii) 65mm dia	20	Rm.		
	(iv) 100mm dia	20	Rm.		

BILL OF QUANTITIES



S.No	DESCRIPTION OF ITEM		QTY.	UNIT	RATE	AMOUNT
	Fire Hose Reels					
4	Supply, installation, testing and Commissioning of Dual compartment Fire Hose cabinet (Exposed or recessed type) with 1.2mm thick MS material and 70micron red oxide coating with lock and handle, along with following equipment as per drawings, specifications and Engineers Recommendation.		1	Nos.		
	(i)	25mm diameter, 30m high pressure rubber hose reel tested on 30 bar with PRV (Pressure Reducing valve), Gate Valve and inlet lock shield control valve and Adjustable plastic Nozzle for Jet, spray				
	(ii)	Brass gate valve 25mm.				
	(iii)	Landing valve Dia 65mm				
	(iv)	Portable 3 kg Co2 Extinguisher				
	(v)	Portable 5 kg Dry powder Extinguisher				
	Valves and Specialties					
5	(i)	Supply, installation, testing and commissioning of 200mm dia O.S and Y type gate valves with as indicated on the drawings, as per specifications and engineers Estimate	1	Nos.		
6	(ii)	Construction of 2400 mmx 1500mm pits for Gate and Air relief valves with 600mm x 600mm Medium Duty Cover (Weight = 60 kg) as indicated on the drawings, as per specifications and engineers Estimate	0	Nos.		
7	(iii)	150mm dia 2 way Fire Brigade Breeching Inlet Connection with Cabinet and non return valve as per NFPA-24 and specifications	0	Nos.		
8	(iv)	200mm dia PRV Assembly for main system, as per specifications and engineers approval.	0	Nos.		
9	(v)	150mm dia Test line for fire with flow switch and Glob valve as indicated on the drawing, as per specifications and engineers approval.	0	Nos.		
10	(vi)	20mm Diameter Automatic Air Relief valve to be installed as per NFPA-24, as indicated on the drawings, as per specifications and engineers approval.	0	Nos.		

Sub Total for Fire Works					
Grand Total of Plumbing Woks Third Floor					

ADDITIONAL COURT-RECORD ROOM FOR
DISTRICT WEST (EXTN) OF BAR ROOM AT
CITY COURT KARACHI

SUMMARY OF COST FOURTH FLOOR

S.NO.	DESCRIPTION	AMOUNT
1	CIVIL WORKS	
2	ELECTRICAL WORKS	
3	PLUMBING & FIRE FIGTHING WORKS	
	TOTAL	

BILL OF QUANTITIES



S.NO.	DESCRIPTIONS	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)
A)	STRUCTURE WORKS				
1	Providing and laying Design mix concrete having minimum characteristics cylinder Strength $f_c' = 3000$ psi at 28 day. Minimum cement content 300kg/m ³ . Water cement ratio should not exceed 0.5 Using Sulphate Resistant Cement using ready mix concrete including steel formwork.				
a)	Beams and Slab	Cft	5,565		
b)	For Stair case 5'-0" wide Steps	No.	48		
2	Providing and laying Design mix concrete having minimum characteristics cylinder Strength $f_c' = 4000$ psi at 28 day. Minimum cement content 350kg/m ³ . Water cement ratio should not exceed 0.5 Using Sulphate Resistant Cement using ready mix concrete including steel formwork.				
i	Columns and Lift Wall	Cft	1,617		
3	Grade 60 deformed steel bars conforming to ASTM A-615 having yield strength 414 N/mm ² (60,000psi), as per drawing, specification and as directed by the Engineer.	M.T	30.350		
TOTAL COST OF STRUCTURE WORKS					
B)	ARCHITECTURE WORKS				
1	BLOCK MASONRY IN SUPERSTRUCTURE				
	Solid Block Masonry				
	Providing and laying cement concrete Solid Block wall masonry of minimum 1000 psi compressive strength up to any height set with 1:6 cement mortar, including scaffolding / Raking out joints block cutting etc. complete in all respect as per drawings, technical Provisions and or as directed by the Engineer In charge.				
i)	6"thick	Sft	1,632		
ii)	12"thick	Sft	2,304		
2	FLOORS AND WALL FINISHES				
2.1	1:3:6 Plain Concrete				
	Providing and laying 3" th 1:3:6 plain cement concrete flooring, steps & misc. works using O.P. Cement with 3/4" and down graded crush aggregate and approved sand under finish floor i/c. formwork, curing leveling etc. complete in all respect as per drawings, Technical Provisions and or as directed by the Engineer In charge.	Cft	1,744		

BILL OF QUANTITIES



S.NO.	DESCRIPTIONS	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)
2.2	Porcelain Tiles Flooring				
	Providing and laying of approved Matt finish Porcelain Tiles Room Flooring (18" x 18" / 24" x 24") in white cement with approved color & shade including a base of cement sand mortar (1:5), 1" thick, including 1-1/2" thick P.C.C (1:2:4) compacting, grouting, curing, cutting, grouting with matching color complete in all respect as per drawings Technical Provisions or as directed by the Engineer In charge. (Italian or Equivalent) (Rs.1200/M ²)	Sft	5,488		
2.5	Ceramic Tiles for Bathroom				
	Providing and laying approved Matt finish tiles in bathroom Flooring 12" x 12"/12" x 18") approved size & quality in white cement with approved color & shade including a base of cement sand mortar (1:5), 1" thick, including 1-1/2" thick P.C.C (1:2:4) for floor and ½" to ¾" thick mortar in 1:6 ratio for walls with grouting, curing, cutting, color, water proofing approved quality for all base areas etc., complete in all respect as per drawings Technical Provisions or as directed by the Engineer in charge.				
i)	Floor	Sft	651		
ii)	Walls	Sft	1,273		
2.6	Skirting				
	Providing and Fixing 3/4" thick 4" high Skirting or approved thickness color shade & size as per drawing for skirting, landing over cement sand mortar 1-1/2" thick in 1:5 ratio i/c chemical polishing, edge grinding, buffing complete in all respect as per drawing Technical Provisions and or as directed by the Engineer In charge.				
a)	Porcelain Finish	Rft	1,482		
2.7	Marble for Staircase				
	Providing and Fixing ¾" thick in one piece local Verona marble in white cement or approved color shade & size as per drawing for Stair Steps Risers, landing over cement sand mortar 3/4" thick in 1:5 ratio i/c chemical polishing, edge grinding, buffing complete in all respect as per drawing Technical Provisions and or as directed by the Engineer In charge.				
i)	Steps /Risers and Landings	Sft	578		

BILL OF QUANTITIES



S.NO.	DESCRIPTIONS	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)
2.8	Marble for Walls				
	Providing and Fixing ¾" thick up to Ceiling height in Lift Lobby Area, Local Verona Marble or approved color shade & size as per drawing over cement sand mortar 1.5" thick in 1:5 ratio i/c chemical polishing, edge grinding, buffing complete in all respect as per drawing Technical Provisions and or as directed by the Engineer In charge.	Sft	320		
2.9	Marble Counter Top for Wash Basins				
	Providing and fixing ¾" thick Verona or approved marble counter top including 1" thick CS mortar (1:5), over 3" R.C.C Slab including curing and chemical polishing, rounding front edge, cutting for Basin hole complete in all respect as per drawings, technical provisions and or as directed by the Engineer In charge.				
	For Wash Basin	Sft	46		
3	METAL WORKS				
3.1	Metal Stair Railing				
	Providing & Fixing in position m.s. stair railing comprising of m.s. 1" square bar horizontally and 1-1/2" vertically square bar with lath works and m.s. studs at bottom size 3"x1/2" of approved powder coating complete in all respect as per drawing, Technical Provisions and as Engineer.	Sft	107		
3.2	Metal Pipe Hand Railing				
	Providing & Fixing in position m.s. hand railing comprising of m.s. 1" dia bar horizontally fixed on walls with m.s plate includes lath works ,approved powder coating complete in all respect as per drawing, Technical Provisions and as Engineer.	Sft	47		
3.3	Metal Hand Railing				
	Providing & Fixing in position m.s. Hand railing comprising of m.s. 1" square bar horizontally and 1-1/2" vertically square bar with lath works and m.s. studs at bottom size 3"x1/2" of approved powder coating complete in all respect as per drawing, Technical Provisions and as Engineer.	Sft	216		

BILL OF QUANTITIES



S.NO.	DESCRIPTIONS	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)
4	CARPENTRY AND JOINERY				
	Wooden Doors				
	Providing, making and fixing in position single leaf / Double leaf 1½" thick solid core Flush Door (70% Solid) door shutter having mahogni wood frame on top & bottom with laminated sheet pressed on shutter included m.s metal frame 18SWG (5" x 2") 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 lock, with cost 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	712		
5	ALUMINUM WINDOWS & VENTILATORS				
	Providing, fitting and fixing all types of glazed aluminum windows of anodized approved quality, color, open able/sliding with fly screen using Box section 1.6 mm thick of Pak cable or equivalent having frame size of 100 x 20 mm (4" x 3/4") and leaf frame section of 50 x 20 mm (2" x 3/4") including aluminum wire gauge panels, 6 mm thick best quality imported glass with rubber gasket using approved standard latches hardware etc. complete in all respect as per drawings, Technical provisions and as per In charge of the Engineer.	Sft	865		
5.2	PVC Doors for Bathrooms				
	Providing and Fixing in position 2" thick approved imported PVC Doors shutters for Bathrooms in approved color includes 2" x 3" PVC Frames includes all hardware e.g. hinges, locks, handles etc. complete in all respect as per drawing technical provisions and or as directed by the Engineer In charge.	Sft	169		

BILL OF QUANTITIES



S.NO.	DESCRIPTIONS	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)
6	<u>SURFACE RENDERING</u>				
6.1	<u>Internal Plaster</u>				
	Providing and applying cement plaster 1:5 on ceiling sides and soffit of beams, on internal sides of walls, columns beams exposed concrete surfaces including hacking 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 In charge.				
i)	Internal Ceiling 1/2"-3/4"	Sft	6,968		
II	Internal Wall Plaster 3/4" thick	Sft	17,193		
6.2	<u>External Pigmented (Color)Plaster</u>				
	Providing and applying 1/2" to 3/4" Finish Pigmented(Color)cement plaster (1:4) 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, pigment color, curing and scaffolding etc. at any height complete in all respect as per drawings, Technical Provisions and or as directed by the Engineer In charge.	Sft	4,862		
6.3	<u>Plastic Emulsion Paint</u>				
	Providing and applying 3-coats of plastic emulsion paint to internal plastered surfaces (ICI/Burger Pakistan) of approved color 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	Sft	24,161		
7	<u>BATH ACCESSORIES</u>				
7.1	<u>Mirror</u>				
	Providing & Fixing in position approved best quality imported 5mm th looking mirror fixed on back ply, chemical treatment to prevent dampness, as per Architects instruction, complete in all respect as per drawings, Technical Provisions and or as directed by	Sft	81		
8.2	<u>CEMENT CONCRETE BAND AROUND WINDOWS</u>				
	Providing and making of Cement Concrete Band around Windows Size 4"x3" or approved includes reinforcement ,formworks , as per drawing with all fixing arrangement complete in all respect as per drawing.	Rft	975		

ADDITIONAL COURT-RECORD ROOM FOR
DISTRICT WEST (EXTN) OF BAR ROOM AT
CITY COURT KARACHI.
FOURTH FLOOR CIVIL WORKS

BILL OF QUANTITIES



S.NO.	DESCRIPTIONS	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)
8.4	<u>SUNK SLAB</u>				
	Providing and Laying 6" th Sunk Slab for Bath rooms filling with Flower pots and coal covered with 3" th 1:3:6 Concrete with BRC MESH complete in all respect as per drawings Technical Provisions and or as directed by the Engineer In charge.	Sft	559		
TOTAL VALUE OF ARCHITECTURAL WORKS					
TOTAL VALUE OF STRUCTURE & ARCHITECTURAL WORKS FOURTH FLOOR					

FOURTH FLOOR ELECTRICAL WORKS

S.No	DESCRIPTION OF ITEMS	QTY.	UNIT	RATE (Rs.)	AMOUNT (Rs.)
A	Wiring & Accessories				
	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.				
1	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	84	Nos		
2	Wiring of light point to light point with 3x1C-1.5 sq.mm PVC cables drawn in 20/25mm dia PVC conduits.	43	Nos		
3	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		
4	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.	12	Nos		
5	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.	8	Nos		
6	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).	31	Nos		
7	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.	5	Nos		
8	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.	14	Nos		
A.1	Supply & Installation of following Switch Socket Outlets (SSO) on already installed boxes.				
1	5 Amp 3 Pin SSO. Make: Legrand / Clipsal	36	Nos		
2	13 Amp Flat Pin SSO. Make: Legrand / Clipsal	36	Nos		

FOURTH FLOOR ELECTRICAL WORKS

S.No	DESCRIPTION OF ITEMS	QTY.	UNIT	RATE (Rs.)	AMOUNT (Rs.)
3	15 Amp 3Pin SSO. Make: Legrand / Clipsal	0	Nos		
4	16 Amp Shoko socket Make: Legrand / Clipsal	19	Nos		
5	32A DP safety breaker in metal enclosre. Make: Kawamora	8	Nos		
6	Fan dimmer Make: Legrand / Clipsal	14	Nos		
	Providing & fixing of following technology / floor boxes made of 1.5 mm sheet steel, power coated with earth terminal.				
7	1.5 mm, powder coated 4 gang technology box with earthing terminal.	16	Nos		
8	1.5 mm, powder coated MS back box with earthing terminal.	15	Nos		
	Sub Total of Wiring & Accessories Rs.				
B	Light & Fan Fixtures				
	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.				
1	Bulk Head light fixture with 1x20 watts LED lamp. Make: Osaka / Se	0	Nos		
2	Smart panel light fixture with 1x12 watts LED lamp. Make: Osaka / SE	75	Nos		
3	Smart panel light fixture with 1 x 18 watts LED lamp. Make: Osaka / SE	52	Nos		
4	Exhaust fan metal body 12" (60W)	1	Nos		
5	Exhaust fan 8" dia Plastic Body	4	Nos		
6	TMS Flourescent light fixture 1x18w lamp Make: Osaka / Se	0	Nos		
7	Ceiling fan 56" dia with fan box Make : Pak / Royal Deluxe model	14	Nos		
	Sub Total of Light & Fan Fixtures Rs.				
C	Race ways				
	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	PVC pipe 50 mm dia	20	Mtr		
2	PVC pipe 25 mm dia	20	Mtr		
3	PVC pipe 20 mm dia	20	Mtr		
	Sub Total of Race ways Rs.				

FOURTH FLOOR ELECTRICAL WORKS

S.No	DESCRIPTION OF ITEMS	QTY.	UNIT	RATE (Rs.)	AMOUNT (Rs.)
D	L.V. Switchgear				
	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	DISTRIBUTION BOARD	1	No		
	Sub Total of L.V. Switchgear Rs.				
E	Main / Sub-main Feeders				
	Supply, installation & termination at both ends of following main/sub-main cables in already installed Pipes complete as per site requirements				
1	1x35 mm sq 4core PVC/PVC Cable +2x16 mm sq 1 core PVC Cable.	45	Mtr		
	Sub Total of Main / Sub-main Feeder Rs.				
F	Data & Voice System				
	Supply, pulling & fluke testing of Data or Voice cables in PVC Pipe, including labeling at both ends as per drawings. Make: Clipsal / Systimax.				
1	10 Pair jelly filled telephone Cable	45	Mtrs		
2	Cat-5e UTP Cable PVC Pipe	11	Nos		
3	Cat-6 UTP Cable PVC Pipe	16	Nos		
4	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 2x10 pairs tag blocks. Make: Korne / Clipsal.	1	Nos		
	Supply, installation & termination of face plates comprising as follows. Make: Clipsal / Systimax.				

S.No	DESCRIPTION OF ITEMS	QTY.	UNIT	RATE (Rs.)	AMOUNT (Rs.)
5	1No RJ-45, CAT-6 I/O	16	Nos		
6	1No RJ-11 socket outlet	11	Nos		
7	Supply, Installation & termination of 24 port RJ-45 Cat-6 UTP Patch Panel complete with all accessories. Make: Clipsal / Systimax.	1	Nos		
8	Supply, Installation & termination of 24 port RJ-45 Cat-6, GIGA Speed Switch, complete with all accessories. Make: 3 COM.	1	Nos		
9	Supply & installation of 18 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 & mounting accessories complete in all respect. Make: Local.	1	Nos		
	Supply & installation of following sizes of Cat-6 UTP (RJ-45 to RJ-45)certified patch cords. Make: Clipsal / Systimax.				
10	1 meter long	16	Nos		
11	3 meter long	16	Nos		
Sub Total of Data & Voice System Rs.					
G	Addressiable Fire Alarm System				
1	Supply,installation & testing of 1.5sqmm, 2C solid twisted PVC/PVC 2 Hours Fire Resistance Shielded Cable. In 20mm PVC pipe	26	Nos		
	Supply, installation & testing of Fire Alarm system .Devices with MS back boxes.				
2	Smoke Detector.	22	Nos		
3	Heat Detector.	0	No		
4	Manual Call Point.	2	Nos		
5	Fire Alarm Sounder.	2	Nos		
Sub Total of Addressiable Fire Alarm System Rs.					
I	Air-Conditioning				
1	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	150	Mtr		

BILL OF QUANTITIES



S.No	DESCRIPTION OF ITEMS	QTY.	UNIT	RATE (Rs.)	AMOUNT (Rs.)
	Supply & installation of UPVC pipe Class-D with all accessories including cutting of wall / floor etc.Make: JEDDAH / DADEX				
2	20 mm dia.	80	Mtr		
3	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.	8	Nos		
			Sub Total		
	Grand Total of Electrical Works Fourth Floor				

BILL OF QUANTITIES



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 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.	140	Rft.		
	(ii)	1" dia.	260	Rft.		
	(iii)	1 1/4" dia.	40	Rft.		
	(iv)	1 ½" dia.	20	Rft.		
	(v)	2" dia.	20	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.	-	Nos.		
	(ii)	1" dia.	2	Nos.		
	(iii)	1 1/4" dia.	2	Nos.		
	(iv)	1 ½" dia.	-	Nos.		
	(v)	2" dia.	-	Nos.		
Sub Total for Water Supply						

BILL OF QUANTITIES



S.No	DESCRIPTION OF ITEM		QTY.	UNIT	RATE	AMOUNT
	DRAINAGE WORKS					
	SOIL, WASTE & VENT SYSTEM:					
1	Providing, fixing, Testing and commissioning of uPVC pipes Sch-40 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:- AGM, Cosmoplast, Napro					
	(i)	2" dia	60	Rft.		
	(ii)	3" dia	125	Rft.		
	(iii)	4" dia	115	Rft.		
	(iv)	6" dia	-	Rft.		
	DRAINAGE SPECIALTIES					
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 Brands:- Cosmoplast, AGM, Napro		7	Nos		
3	Providing and fixing UPVC vent cowl for pipe of the following dia including all accessories complete in all respects. Brands:- Cosmoplast, AGM, Napro					
	(i)	3" dia	-	Nos.		
	(ii)	4" dia	-	Nos.		
	(iii)	2" dia	-	Nos.		
Sub Total for Drainage						
	PLUMBING FIXTURES:					
1	Providing and fixing first quality European type water closet with 6 liters flush tank, build in S-Trap, Stop cock with flexible pipe as per drawings, specifications and Engineers Approval. Brands:- Porta, Sonix / Master		4	Nos.		

BILL OF QUANTITIES



S.No	DESCRIPTION OF ITEM		QTY.	UNIT	RATE	AMOUNT
2	Providing and fixing of counter type wash basin with mixer (2) nos. Stop cocks with Flexible Connection , flexible drain pipe to floor drain as per drawings , specifications and engineers approval. Brands:- Porta, Sonix / Master		6	Nos.		
3	Providing and fixing first quality Eastern water closet with 6 liters flush tank, S-Trap , stop cock and flexible pipe as per as per drawings, specifications and Engineers Approval. Brands:- Porta, Sonix / Master		3	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. Brands:- Porta, Sonix / Master		3	Nos.		
5	Providing and fixing of kitchen Sink with waste trap, bib cock, Stop cocks, Flexible Connection as per drawings , specifications and engineers approval. Brands:- Porta , Sonex/Master		-	Nos.		
6	Providing and fixing of Service/ Mop sink with mixer as per architectural fixture selection ,complete in all respect. Brands:- Porta , Sonex/Master,		-	Nos.		
7	Providing and fixing bath toilet accessories as under by Sonex or Master:					
	(i)	Toilet Paper Holder	4	Nos.		
	(ii)	Soap Dish / Glass shelf	6	Nos.		
	(iii)	Double Bib Cock with Hand Spray / Muslim shower	7	Nos.		
Sub Total for Fixtures						
	<u>FIRE FIGHTING</u>					
	Fire Piping					
2	Supply & installation of seamless Black Steel Sch. 40 pipe work including heavy duty fittings, supports, hangers, painting, welding, testing and commissioning as per drawings, specifications and Engineers Recommendation					
	(i)	25mm dia	10	Rm.		
	(ii)	32mm dia	10	Rm.		

BILL OF QUANTITIES



S.No	DESCRIPTION OF ITEM		QTY.	UNIT	RATE	AMOUNT
	(iii)	65mm dia	20	Rm.		
	(iv)	100mm dia	20	Rm.		
	Fire Hose Reels					
4	Supply, installation, testing and Commissioning of Dual compartment Fire Hose cabinet (Exposed or recessed type) with 1.2mm thick MS material and 70micron red oxide coating with lock and handle, along with following equipment as per drawings, specifications and Engineers Recommendation.		1	Nos.		
	(i)	25mm diameter, 30m high pressure rubber hose reel tested on 30 bar with PRV (Pressure Reducing valve), Gate Valve and inlet lock shield control valve and Adjustable plastic Nozzle for Jet, spray				
	(ii)	Brass gate valve 25mm.				
	(iii)	Landing valve Dia 65mm				
	(iv)	Portable 3 kg Co2 Extinguisher				
	(v)	Portable 5 kg Dry powder Extinguisher				
	Valves and Specialties					
5	(i)	Supply, installation, testing and commissioning of 200mm dia O.S and Y type gate valves with as indicated on the drawings, as per specifications and engineers Estimate	1	Nos.		
6	(ii)	Construction of 2400 mmx 1500mm pits for Gate and Air relief valves with 600mm x 600mm Medium Duty Cover (Weight = 60 kg) as indicated on the drawings, as per specifications and engineers Estimate	0	Nos.		
7	(iii)	150mm dia 2 way Fire Brigade Breeching Inlet Connection with Cabinet and non return valve as per NFPA-24 and specifications	0	Nos.		
8	(iv)	200mm dia PRV Assembly for main system, as per specifications and engineers approval.	0	Nos.		
9	(v)	150mm dia Test line for fire with flow switch and Glob valve as indicated on the drawing, as per specifications and engineers approval.	0	Nos.		
10	(vi)	20mm Diameter Automatic Air Relief valve to be installed as per NFPA-24, as indicated on the drawings, as per specifications and engineers approval.	0	Nos.		
Sub Total for Fire Works						
Grand Total of Plumbing Works Fourth Floor						

ADDITIONAL COURT-RECORD ROOM FOR
DISTRICT WEST (EXTN) OF BAR ROOM AT
CITY COURT KARACHI

SUMMARY OF COST FIFTH FLOOR

S.NO.	DESCRIPTION	AMOUNT
1	CIVIL WORKS	
2	ELECTRICAL WORKS	
3	PLUMBING & FIRE FIGTHING WORKS	
	TOTAL	

BILL OF QUANTITIES



S.NO.	DESCRIPTIONS	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)
A)	STRUCTURE WORKS				
1	Providing and laying Design mix concrete having minimum characteristics cylinder Strength $f_c' = 3000$ psi at 28 day. Minimum cement content 300kg/m ³ . Water cement ratio should not exceed 0.5 Using Sulphate Resistant Cement using ready mix concrete including steel formwork.				
a)	Beams and Slab	Cft	5,565		
b)	For Stair case 5'-0" wide Steps	No.	48		
2	Providing and laying Design mix concrete having minimum characteristics cylinder Strength $f_c' = 4000$ psi at 28 day. Minimum cement content 350kg/m ³ . Water cement ratio should not exceed 0.5 Using Sulphate Resistant Cement using ready mix concrete including steel formwork.				
i	Columns and Lift Wall	Cft	1,617		
3	Grade 60 deformed steel bars conforming to ASTM A-615 having yield strength 414 N/mm ² (60,000psi), as per drawing, specification and as directed by the Engineer.	M.T	30.350		
TOTAL COST OF STRUCTURE WORKS RS.					
B)	ARCHITECTURE WORKS				
1	BLOCK MASONRY IN SUPERSTRUCTURE				
	Solid Block Masonry				
	Providing and laying cement concrete Solid Block wall masonry of minimum 1000 psi compressive strength up to any height set with 1:6 cement mortar, including scaffolding / Raking out joints block cutting etc. complete in all respect as per drawings, technical Provisions and or as directed by the Engineer In charge.				
i)	6"thick	Sft	1,632		
ii)	12"thick	Sft	2,304		
2	FLOORS AND WALL FINISHES				
2.1	1:3:6 Plain Concrete				
	Providing and laying 3" th 1:3:6 plain cement concrete flooring, steps & misc. works using O.P. Cement with 3/4" and down graded crush aggregate and approved sand under finish floor i/c. formwork, curing leveling etc. complete in all respect as per drawings, Technical Provisions and or as directed by the Engineer In charge.	Cft	1,744		

BILL OF QUANTITIES



S.NO.	DESCRIPTIONS	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)
2.2	Porcelain Tiles Flooring				
	Providing and laying of approved Matt finish Porcelain Tiles Room Flooring (18" x 18" / 24" x 24") in white cement with approved color & shade including a base of cement sand mortar (1:5), 1" thick, including 1-1/2" thick P.C.C (1:2:4) compacting, grouting, curing, cutting, grouting with matching color complete in all respect as per drawings Technical Provisions or as directed by the Engineer In charge. (Italian or Equivalent) (Rs.1200/M ²)	Sft	5,488		
2.5	Ceramic Tiles for Bathroom				
	Providing and laying approved Matt finish tiles in bathroom Flooring 12" x 12"/12"x18") approved size & quality in white cement with approved color & shade including a base of cement sand mortar (1:5), 1" thick, including 1-1/2" thick P.C.C (1:2:4) for floor and 1/2" to 3/4" thick mortar in 1:6 ratio for walls with grouting, curing, cutting, color, water proofing approved quality for all base areas etc., complete in all respect as per drawings Technical Provisions or as directed by the Engineer in charge.				
i)	Floor	Sft	651		
ii)	Walls	Sft	1,273		
2.6	Skirting				
	Providing and Fixing 3/4" thick 4" high Skirting or approved thickness color shade & size as per drawing for skirting, landing over cement sand mortar 1-1/2" thick in 1:5 ratio i/c chemical polishing, edge grinding, buffing complete in all respect as per drawing Technical Provisions and or as directed by the Engineer In charge.				
a)	Porcelain Finish	Rft	1,482		

BILL OF QUANTITIES



S.NO.	DESCRIPTIONS	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)
2.7	Marble for Staircase				
	Providing and Fixing ¾" thick in one piece local Verona marble in white cement or approved color shade & size as per drawing for Stair Steps Risers, landing over cement sand mortar ¾" thick in 1:5 ratio i/c chemical polishing, edge grinding, buffing complete in all respect as per drawing Technical Provisions and or as directed by the Engineer In charge.				
i)	Steps /Risers and Landings	Sft	578		
2.8	Marble for Walls				
	Providing and Fixing ¾" thick up to Ceiling height in Lift Lobby Area, Local Verona Marble or approved color shade & size as per drawing over cement sand mortar 1.5" thick in 1:5 ratio i/c chemical polishing, edge grinding, buffing complete in all respect as per drawing Technical Provisions and or as directed by the Engineer In charge.	Sft	320		
2.9	Marble Counter Top for Wash Basins				
	Providing and fixing ¾" thick Verona or approved marble counter top including 1" thick CS mortar (1:5), over 3" R.C.C Slab including curing and chemical polishing, rounding front edge, cutting for Basin hole complete in all respect as per drawings, technical provisions and or as directed by the Engineer In charge.				
	For Wash Basin	Sft	46		
3	METAL WORKS				
3.1	Metal Stair Railing				
	Providing & Fixing in position m.s. stair railing comprising of m.s. 1" square bar horizontally and 1-1/2" vertically square bar with lath works and m.s. studs at bottom size 3"x1/2" of approved powder coating complete in all respect as per drawing, Technical Provisions and as Engineer.	Sft	107		

BILL OF QUANTITIES



S.NO.	DESCRIPTIONS	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)
3.2	Metal Pipe Hand Railing				
	Providing & Fixing in position m.s. hand railing comprising of m.s. 1" dia bar horizontally fixed on walls with m.s plate includes lath works ,approved powder coating complete in all respect as per drawing, Technical Provisions and as Engineer.	Sft	47		
3.3	Metal Hand Railing				
	Providing & Fixing in position m.s. Hand railing comprising of m.s. 1" square bar horizontally and 1-1/2" vertically square bar with lath works and m.s. studs at bottom size 3"x1/2" of approved powder coating complete in all respect as per drawing, Technical Provisions and as Engineer.	Sft	216		
4	CARPENTRY AND JOINERY				
	Wooden Doors				
	Providing, making and fixing in position single leaf / Double leaf 1½" thick solid core Flush Door (70% Solid) door shutter having mahogni wood frame on top & bottom with laminated sheet pressed on shutter included m.s metal frame 18SWG (5" x 2") 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 lock, with cost 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	712		
5	ALUMINUM WINDOWS & VENTILATORS				
	Providing, fitting and fixing all types of glazed aluminum windows of anodized approved quality, color, open able/sliding with fly screen using Box section 1.6 mm thick of Pak cable or equivalent having frame size of 100 x 20 mm (4" x 3/4") and leaf frame section of 50 x 20 mm (2" x 3/4") including aluminum wire gauge panels, 6 mm thick best quality imported glass with rubber gasket using approved standard latches hardware etc. complete in all respect as per drawings, Technical provisions and as per In charge of the Engineer.	Sft	865		

BILL OF QUANTITIES



S.NO.	DESCRIPTIONS	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)
5.2	PVC Doors for Bathrooms				
	Providing and Fixing in position 2" thick approved imported PVC Doors shutters for Bathrooms in approved color includes 2" x 3" PVC Frames includes all hardware e.g. hinges, locks, handles etc. complete in all respect as per drawing technical provisions and or as directed by the Engineer In charge.				
ii)	Ground Floor	Sft	169		
6	<u>SURFACE RENDERING</u>				
6.1	<u>Internal Plaster</u>				
	Providing and applying cement plaster 1:5 on ceiling sides and soffit of beams, on internal sides of walls, columns beams exposed concrete surfaces including hacking 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 In charge.				
b)	Ground Floor				
I)	Internal Ceiling 1/2"-3/4"	Sft	6,968		
II)	Internal Wall Plaster 3/4" thick	Sft	17,193		
6.2	<u>External Pigmented (Color)Plaster</u>				
	Providing and applying 1/2" to 3/4" Finish Pigmented (Color)cement plaster (1:4) 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, pigment color, curing and scaffolding etc. at any height complete in all respect as per drawings, Technical Provisions and or as directed by the Engineer In charge.	Sft	4,862		
6.3	<u>Plastic Emulsion Paint</u>				
	Providing and applying 3-coats of plastic emulsion paint to internal plastered surfaces (ICI/Burger Pakistan) of approved color 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 In charge.	Sft	24,161		

BILL OF QUANTITIES



S.NO.	DESCRIPTIONS	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)
7	<u>BATH ACCESSORIES</u>				
7.1	Mirror				
	Providing & Fixing in position approved best quality imported 5mm th looking mirror fixed on back ply, chemical treatment to prevent dampness, as per Architects instruction, complete in all respect as per drawings, Technical Provisions and or as directed by	Sft	81		
7.2	<u>CEMENT CONCRETE BAND AROUND WINDOWS</u>				
	Providing and making of Cement Concrete Band around Windows Size 4"x3" or approved includes reinforcement ,formworks , as per drawing with all fixing arrangement complete in all respect as per drawing.	Rft	975		
7.3	<u>SUNK SLAB</u>				
	Providing and Laying 6" th Sunk Slab for Bath rooms filling with Flower pots and coal covered with 3" th 1:3:6 Concrete with BRC MESH complete in all respect as per drawings Technical Provisions and or as directed by the Engineer In charge.	Sft	559		
TOTAL VALUE OF ARCHITECTURAL WORKS					
TOTAL VALUE OF STRUCTURE & ARCHITECTURAL WORKS FIFTH FLOOR					

BILL OF QUANTITIES



S.No	DESCRIPTION OF ITEMS	QTY.	UNIT	RATE (Rs.)	AMOUNT (Rs.)
A	Wiring & Accessories				
	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.				
1	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	91	Nos		
2	Wiring of light point to light point with 3x1C-1.5 sq.mm PVC cables drawn in 20/25mm dia PVC conduits.	49	Nos		
3	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.	3	Nos		
4	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.	14	Nos		
5	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.	8	Nos		
6	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).	31	Nos		
7	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.	5	Nos		
8	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.	14	Nos		
A.1	Supply & Installation of following Switch Socket Outlets (SSO) on already installed boxes.				
1	5 Amp 3 Pin SSO. Make: Legrand / Clipsal	39	Nos		
2	13 Amp Flat Pin SSO. Make: Legrand / Clipsal	36	Nos		

BILL OF QUANTITIES



S.No	DESCRIPTION OF ITEMS	QTY.	UNIT	RATE (Rs.)	AMOUNT (Rs.)
3	15 Amp 3Pin SSO. Make: Legrand / Clipsal	3	Nos		
4	16 Amp Shoko socket Make: Legrand / Clipsal	19	Nos		
5	32A DP safety breaker in metal enclosre. Make: Kawamora	8	Nos		
6	Fan dimmer Make: Legrand / Clipsal	14	Nos		
	Providing & fixing of following technology / floor boxes made of 1.5 mm sheet steel, power coated with earth terminal.				
7	1.5 mm, powder coated 4 gang technology box with earthing terminal.	16	Nos		
8	1.5 mm, powder coated MS back box with earthing terminal.	15	Nos		
	Sub Total of Wiring & Accessories Rs.				
B	Light & Fan Fixtures				
	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.				
1	Bulk Head light fixture with 1x20 watts LED lamp. Make: Osaka / Se	6	Nos		
2	Smart panel light fixture with 1x12 watts LED lamp. Make: Osaka / SE	84	Nos		
3	Smart panel light fixture with 1 x 18 watts LED lamp. Make: Osaka / SE	52	Nos		
4	Exhaust fan metal body 12" (60W)	1	Nos		
5	Exhaust fan 8" dia Plastic Body	4	Nos		
6	Ceiling fan 56" dia with fan box Make : Pak / Royal Deluxe model	14	Nos		
	Sub Total of Light & Fan Fixtures Rs.				
C	Race ways				
	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	PVC pipe 50 mm dia	20	Mtr		
2	PVC pipe 38 mm dia	50	Mtr		
3	PVC pipe 25 mm dia	20	Mtr		
4	PVC pipe 20 mm dia	20	Mtr		
	Sub Total of Race ways Rs.				

BILL OF QUANTITIES



S.No	DESCRIPTION OF ITEMS	QTY.	UNIT	RATE (Rs.)	AMOUNT (Rs.)
D	L.V. Switchgear				
	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	DISTRIBUTION BOARD	1	No		
2	DISTRIBUTION BOARD "LIFT"	1	No		
3	40A TP MCB in metal box	3	No		
	Sub Total of L.V. Switchgear Rs.				
E	Main / Sub-main Feeders				
	Supply, installation & termination at both ends of following main/sub-main cables in already installed Pipes complete as per site requirements				
1	1x35 mm sq 4core PVC/PVC Cable +2x16 mm sq 1 core PVC Cable.	130	Mtr		
1	5x10 mm sq 1core PVC Cable	70	Mtr		
	Sub Total of Main / Sub-main Feeder Rs.				
F	Data & Voice System				
	Supply, pulling & fluke testing of Data or Voice cables in PVC Pipe, including labeling at both ends as per drawings. Make: Clipsal / Systimax.				
1	10 Pair jelly filled telephone Cable	60	Mtrs		
2	Cat-5e UTP Cable PVC Pipe	11	Nos		
3	Cat-6 UTP Cable PVC Pipe	16	Nos		
4	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 2x10 pairs tag blocks. Make: Korne / Clipsal.	1	Nos		

BILL OF QUANTITIES



S.No	DESCRIPTION OF ITEMS	QTY.	UNIT	RATE (Rs.)	AMOUNT (Rs.)
	Supply, installation & termination of face plates comprising as follows. Make: Clipsal / Systimax.				
5	1No RJ-45, CAT-6 I/O	16	Nos		
6	1No RJ-11 socket outlet	11	Nos		
7	Supply, Installation & termination of 24 port RJ-45 Cat-6 UTP Patch Panel complete with all accessories. Make: Clipsal / Systimax.	1	Nos		
8	Supply, Installation & termination of 24 port RJ-45 Cat-6, GIGA Speed Switch, complete with all accessories. Make: 3 COM.	1	Nos		
9	Supply & installation of 18 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 & mounting accessories complete in all respect. Make: Local.	1	Nos		
	Supply & installation of following sizes of Cat-6 UTP (RJ-45 to RJ-45) certified patch cords. Make: Clipsal / Systimax.				
10	1 meter long	16	Nos		
11	3 meter long	16	Nos		
Sub Total of Data & Voice System Rs.					
G	Addressible Fire Alarm System				
1	Supply, installation & testing of 1.5sqmm, 2C solid twisted PVC/PVC 2 Hours Fire Resistance Shielded Cable. In 20mm PVC pipe	26	Nos		
	Supply, installation & testing of Fire Alarm system .Devices with MS back boxes.				
2	Smoke Detector.	22	Nos		
3	Heat Detector.	0	No		
4	Manual Call Point.	2	Nos		
5	Fire Alarm Sounder.	2	Nos		
Sub Total of Addressible Fire Alarm System Rs.					

BILL OF QUANTITIES



S.No	DESCRIPTION OF ITEMS	QTY.	UNIT	RATE (Rs.)	AMOUNT (Rs.)
I	Air-Conditioning				
1	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	150	Mtr		
	Supply & installation of UPVC pipe Class-D with all accessories including cutting of wall / floor etc.Make: JEDDAH / DADEX				
2	20 mm dia.	80	Mtr		
3	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.	8	Nos		
			Sub Total		
	Grand Total of Electrical Works Fifth Floor				

BILL OF QUANTITIES



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 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. Brands:- Cosmoplast, Vesbo, Rektherm					
	(I)	¾" dia.	140	Rft.		
	(ii)	1" dia.	360	Rft.		
	(iii)	1 ¼" dia.	180	Rft.		
	(iv)	1 ½" dia.	50	Rft.		
	(v)	2" dia.	30	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.	-	Nos.		
	(ii)	1" dia.	3	Nos.		
	(iii)	1 ¼" dia.	4	Nos.		
	(iv)	1 ½" dia.	1	Nos.		
	(v)	2" dia.	1	Nos.		
Sub Total for Water Supply						
	DRAINAGE WORKS					
	SOIL, WASTE & VENT SYSTEM:					
1	Providing, fixing, Testing and commissioning of uPVC pipes Sch-40 Solvent fittings as per BS 4660 for above ground installations for Soil, Waste, Vent & R/w 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:- AGM, Cosmoplast, Napro					
	(i)	2" dia	60	Rft.		

BILL OF QUANTITIES



S.No	DESCRIPTION OF ITEM		QTY.	UNIT	RATE	AMOUNT
	(ii)	3" dia	125	Rft.		
	(iii)	4" dia	315	Rft.		
	(iv)	6" dia	-	Rft.		
	DRAINAGE SPECIALTIES					
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 Brands:- Cosmoplast, AGM, Napro		7	Nos		
3	Providing and fixing UPVC vent cowl for pipe of the following dia including all accessories complete in all respects. Brands:- Cosmoplast, AGM, Napro					
	(i)	3" dia	4	Nos.		
	(ii)	4" dia	4	Nos.		
	(iii)	2" dia	-	Nos.		
Sub Total for Drainage						
	PLUMBING FIXTURES:					
1	Providing and fixing first quality European type water closet with 6 liters flush tank, build in S-Trap, Stop cock with flexible pipe as per drawings, specifications and Engineers Approval. Brands:- Porta, Sonix / Master		4	Nos.		
2	Providing and fixing of counter type wash basin with mixer (2) nos. Stop cocks with Flexible Connection , flexible drain pipe to floor drain as per drawings , specifications and engineers approval. Brands:- Porta, Sonix / Master		6	Nos.		
3	Providing and fixing first quality Eastern water closet with 6 liters flush tank, S-Trap , stop cock and flexible pipe as per as per drawings, specifications and Engineers Approval. Brands:- Porta, Sonix / Master		3	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. Brands:- Porta, Sonix / Master		3	Nos.		
5	Providing and fixing of kitchen Sink with waste trap, bib cock, Stop cocks, Flexible Connection as per drawings , specifications and engineers approval. Brands:- Porta , Sonex/Master		-	Nos.		

BILL OF QUANTITIES



S.No	DESCRIPTION OF ITEM		QTY.	UNIT	RATE	AMOUNT
6	Providing and fixing of Service/ Mop sink with mixer as per architectural fixture selection ,complete in all respect. Brands:- Porta , Sonex/Master,		-	Nos.		
7	Providing and fixing bath toilet accessories as under by Sonex or Master:					
	(i)	Toilet Paper Holder	4	Nos.		
	(ii)	Soap Dish / Glass shelf	6	Nos.		
	(iii)	Double Bib Cock with Hand Spray / Muslim shower	7	Nos.		
Sub Total for Fixtures						
	<u>FIRE FIGHTING</u>					
	Fire Piping					
2	Supply & installation of seamless Black Steel Sch. 40 pipe work including heavy duty fittings, supports, hangers, painting, welding, testing and commissioning as per drawings, specifications and Engineers Recommendation					
	(i)	25mm dia	10	Rm.		
	(ii)	32mm dia	10	Rm.		
	(iii)	65mm dia	20	Rm.		
	(iv)	100mm dia	20	Rm.		
	Fire Hose Reels					
4	Supply, installation, testing and Commissioning of Dual compartment Fire Hose cabinet (Exposed or recessed type) with 1.2mm thick MS material and 70micron red oxide coating with lock and handle, along with following equipment as per drawings, specifications and Engineers Recommendation.		1	Nos.		
	(i)	25mm diameter, 30m high pressure rubber hose reel tested on 30 bar with PRV (Pressure Reducing valve), Gate Valve and inlet lock shield control valve and Adjustable plastic Nozzle for Jet, spray				
	(ii)	Brass gate valve 25mm.				
	(iii)	Landing valve Dia 65mm				
	(iv)	Portable 3 kg Co2 Extinguisher				
	(v)	Portable 5 kg Dry powder Extinguisher				
	Valves and Specialties					
5	(i)	Supply, installation, testing and commissioning of 200mm dia O.S and Y type gate valves with as indicated on the drawings, as per specifications and engineers Estimate	1	Nos.		

BILL OF QUANTITIES



S.No	DESCRIPTION OF ITEM		QTY.	UNIT	RATE	AMOUNT
6	(ii)	Construction of 2400 mmx 1500mm pits for Gate and Air relief valves with 600mm x 600mm Medium Duty Cover (Weight = 60 kg) as indicated on the drawings, as per specifications and engineers Estimate	0	Nos.		
7	(iii)	150mm dia 2 way Fire Brigade Breeching Inlet Connection with Cabinet and non return valve as per NFPA-24 and specifications	0	Nos.		
8	(iv)	200mm dia PRV Assembly for main system, as per specifications and engineers approval.	0	Nos.		
9	(v)	150mm dia Test line for fire with flow switch and Glob valve as indicated on the drawing, as per specifications and engineers approval.	0	Nos.		
10	(vi)	20mm Diameter Automatic Air Relief valve to be installed as per NFPA-24, as indicated on the drawings, as per specifications and engineers approval.	0	Nos.		
Sub Total for Fire Works						
Grand Total of Plumbing Works Fifth Floor						

ADDITIONAL COURT-RECORD ROOM FOR
DISTRICT WEST (EXTN) OF BAR ROOM AT
CITY COURT KARACHI

SUMMARY OF COST SIXTH FLOOR

S.NO.	DESCRIPTION	AMOUNT
1	CIVIL WORKS	
2	ELECTRICAL WORKS	
3	PLUMBING & FIRE FIGTHING WORKS	
	TOTAL	

BILL OF QUANTITIES



S.NO.	DESCRIPTIONS	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)
A)	STRUCTURE WORKS				
1	Providing and laying Design mix concrete having minimum characteristics cylinder Strength $f_c' = 3000$ psi at 28 day. Minimum cement content 300kg/m ³ . Water cement ratio should not exceed 0.5 Using Sulphate Resistant Cement using ready mix concrete including steel formwork.				
a)	Beams and Slab	Cft	5,470		
b)	For Stair case 5'-0" wide Steps	No.	48		
2	Providing and laying Design mix concrete having minimum characteristics cylinder Strength $f_c' = 4000$ psi at 28 day. Minimum cement content 350kg/m ³ . Water cement ratio should not exceed 0.5 Using Sulphate Resistant Cement using ready mix concrete including steel formwork.				
i	Columns and Lift Wall	Cft	1,617		
3	Grade 60 deformed steel bars conforming to ASTM A-615 having yield strength 414 N/mm ² (60,000psi), as per drawing, specification and as directed by the Engineer.	M.T	30.350		
TOTAL COST OF STRUCTURE WORKS RS.					
B)	ARCHITECTURE WORKS				
1	BLOCK MASONRY IN SUPERSTRUCTURE				
	Solid Block Masonry				
	Providing and laying cement concrete Solid Block wall masonry of minimum 1000 psi compressive strength up to any height set with 1:6 cement mortar, including scaffolding / Raking out joints block cutting etc. complete in all respect as per drawings, technical Provisions and or as directed by the Engineer In charge.				
i)	6"thick	Sft	1,632		
ii)	12"thick	Sft	2,304		
2	FLOORS AND WALL FINISHES				
2.1	1:3:6 Plain Concrete				
	Providing and laying 3" th 1:3:6 plain cement concrete flooring, steps & misc. works using O.P. Cement with 3/4" and down graded crush aggregate and approved sand under finish floor i/c. formwork, curing leveling etc. complete in all respect as per drawings, Technical Provisions and or as directed by the Engineer In charge.	Cft	1,744		

BILL OF QUANTITIES



S.NO.	DESCRIPTIONS	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)
2.2	Porcelain Tiles Flooring				
	Providing and laying of approved Matt finish Porcelain Tiles Room Flooring (18" x 18" / 24" x 24") in white cement with approved color & shade including a base of cement sand mortar (1:5), 1" thick, including 1-1/2" thick P.C.C (1:2:4) compacting, grouting, curing, cutting, grouting with matching color complete in all respect as per drawings Technical Provisions or as directed by the Engineer In charge. (Italian or Equivalent) (Rs.1200/M ²)	Sft	5,488		
2.5	Ceramic Tiles for Bathroom				
	Providing and laying approved Matt finish tiles in bathroom Flooring 12" x 12"/12" x 18") approved size & quality in white cement with approved color & shade including a base of cement sand mortar (1:5), 1" thick, including 1-1/2" thick P.C.C (1:2:4) for floor and 1/2" to 3/4" thick mortar in 1:6 ratio for walls with grouting, curing, cutting, color, water proofing approved quality for all base areas etc., complete in all respect as per drawings Technical Provisions or as directed by the Engineer in charge.				
i)	Floor	Sft	651		
ii)	Walls	Sft	1,273		
2.6	Skirting				
	Providing and Fixing 3/4" thick 4" high Skirting or approved thickness color shade & size as per drawing for skirting, landing over cement sand mortar 1-1/2" thick in 1:5 ratio i/c chemical polishing, edge grinding, buffing complete in all respect as per drawing Technical Provisions and or as directed by the Engineer In charge.				
a)	Porcelain Finish	Rft	1,482		

BILL OF QUANTITIES



S.NO.	DESCRIPTIONS	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)
2.7	Marble for Staircase				
	Providing and Fixing ¾" thick in one piece local Verona marble in white cement or approved color shade & size as per drawing for Stair Steps Risers, landing over cement sand mortar ¾" thick in 1:5 ratio i/c chemical polishing, edge grinding, buffing complete in all respect as per drawing Technical Provisions and or as directed by the Engineer In charge.				
i)	Steps /Risers and Landings	Sft	578		
2.8	Marble for Walls				
	Providing and Fixing ¾" thick up to Ceiling height in Lift Lobby Area, Local Verona Marble or approved color shade & size as per drawing over cement sand mortar 1.5" thick in 1:5 ratio i/c chemical polishing, edge grinding, buffing complete in all respect as per drawing Technical Provisions and or as directed by the Engineer In charge.	Sft	320		
2.9	Marble Counter Top for Wash Basins				
	Providing and fixing ¾" thick Verona or approved marble counter top including 1" thick CS mortar (1:5), over 3" R.C.C Slab including curing and chemical polishing, rounding front edge, cutting for Basin hole complete in all respect as per drawings, technical provisions and or as directed by the Engineer In charge.				
ii)	For Wash Basin	Sft	46		
3	METAL WORKS				
3.1	Metal Stair Railing				
	Providing & Fixing in position m.s. stair railing comprising of m.s. 1" square bar horizontally and 1-1/2" vertically square bar with lath works and m.s. studs at bottom size 3"x1/2" of approved powder coating complete in all respect as per drawing, Technical Provisions and as Engineer.	Sft	107		
3.2	Metal Pipe Hand Railing				
	Providing & Fixing in position m.s. hand railing comprising of m.s. 1" dia bar horizontally fixed on walls with m.s plate includes lath works ,approved powder coating complete in all respect as per drawing, Technical Provisions and as Engineer.	Sft	47		

BILL OF QUANTITIES



S.NO.	DESCRIPTIONS	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)
3.3	Metal Hand Railing				
	Providing & Fixing in position m.s. Hand railing comprising of m.s. 1" square bar horizontally and 1-1/2" vertically square bar with lath works and m.s. studs at bottom size 3"x1/2" of approved powder coating complete in all respect as per drawing, Technical Provisions and as Engineer.	Sft	216		
4	CARPENTRY AND JOINERY				
	Wooden Doors				
	Providing, making and fixing in position single leaf / Double leaf 1½" thick solid core Flush Door (70% Solid) door shutter having mahogni wood frame on top & bottom with laminated sheet pressed on shutter included m.s metal frame 18SWG (5" x 2") 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 lock, with cost 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	712		
5	ALUMINUM WINDOWS & VENTILATORS				
	Providing, fitting and fixing all types of glazed aluminum windows of anodized approved quality, color, open able/sliding with fly screen using Box section 1.6 mm thick of Pak cable or equivalent having frame size of 100 x 20 mm (4" x 3/4") and leaf frame section of 50 x 20 mm (2" x 3/4") including aluminum wire gauge panels, 6 mm thick best quality imported glass with rubber gasket using approved standard latches hardware etc. complete in all respect as per drawings, Technical provisions and as per In charge of the Engineer.	Sft	865		
5.2	PVC Doors for Bathrooms				
	Providing and Fixing in position 2" thick approved imported PVC Doors shutters for Bathrooms in approved color includes 2" x 3" PVC Frames includes all hardware e.g. hinges, locks, handles etc. complete in all respect as per drawing technical provisions and or as directed by the Engineer In charge.	Sft	169		

BILL OF QUANTITIES



S.NO.	DESCRIPTIONS	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)
6	<u>SURFACE RENDERING</u>				
6.1	<u>Internal Plaster</u>				
	Providing and applying cement plaster 1:5 on ceiling sides and soffit of beams, on internal sides of walls, columns beams exposed concrete surfaces including hacking 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 In charge.				
i)	Internal Ceiling 1/2"-3/4"	Sft	6,968		
ii)	Internal Wall Plaster 3/4" thick	Sft	17,193		
6.2	<u>External Pigmented (Color)Plaster</u>				
	Providing and applying 1/2" to 3/4" Finish Pigmented(Color)cement plaster (1:4) 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, pigment color, curing and scaffolding etc. at any height complete in all respect as per drawings, Technical Provisions and or as directed by the Engineer In charge.	Sft	4,862		
6.3	<u>Plastic Emulsion Paint</u>				
	Providing and applying 3-coats of plastic emulsion paint to internal plastered surfaces (ICI/Burger Pakistan) of approved color 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	Sft	24,161		
7	<u>BATH ACCESSORIES</u>				
7.1	<u>Mirror</u>				
	Providing & Fixing in position approved best quality imported 5mm th looking mirror fixed on back ply, chemical treatment to prevent dampness, as per Architects instruction, complete in all respect as per drawings, Technical Provisions and or as directed by	Sft	81		
7.2	<u>CEMENT CONCRETE BAND AROUND WINDOWS</u>				
	Providing and making of Cement Concrete Band around Windows Size 4"x3" or approved includes reinforcement ,formworks , as per drawing with all fixing arrangement complete in all respect as per drawing.	Rft	975		

BILL OF QUANTITIES



S.NO.	DESCRIPTIONS	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)
7.3	<u>SUNK SLAB</u>				
	Providing and Laying 6" th Sunk Slab for Bath rooms filling with Flower pots and coal covered with 3" th 1:3:6 Concrete with BRC MESH complete in all respect as per drawings Technical Provisions and or as directed by the Engineer In charge.	Sft	559		
TOTAL VALUE OF ARCHITECTURAL WORKS					
TOTAL VALUE OF STRUCTURE & ARCHITECTURAL WORKS SIXTH FLOOR					

BILL OF QUANTITIES



S.No	DESCRIPTION OF ITEMS	QTY.	UNIT	RATE (Rs.)	AMOUNT (Rs.)
A	Wiring & Accessories				
	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.				
1	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	91	Nos		
2	Wiring of light point to light point with 3x1C-1.5 sq.mm PVC cables drawn in 20/25mm dia PVC conduits.	49	Nos		
3	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.	3	Nos		
4	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.	14	Nos		
5	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.	8	Nos		
6	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).	31	Nos		
7	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.	5	Nos		
8	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.	14	Nos		
A.1	Supply & Installation of following Switch Socket Outlets (SSO) on already installed boxes.				
1	5 Amp 3 Pin SSO. Make: Legrand / Clipsal	39	Nos		
2	13 Amp Flat Pin SSO. Make: Legrand / Clipsal	36	Nos		
3	15 Amp 3Pin SSO. Make: Legrand / Clipsal	3	Nos		

BILL OF QUANTITIES



S.No	DESCRIPTION OF ITEMS	QTY.	UNIT	RATE (Rs.)	AMOUNT (Rs.)
4	16 Amp Shoko socket Make: Legrand / Clipsal	19	Nos		
5	32A DP safety breaker in metal enclosre. Make: Kawamora	8	Nos		
6	Fan dimmer Make: Legrand / Clipsal	14	Nos		
	Providing & fixing of following technology / floor boxes made of 1.5 mm sheet steel, power coated with earth terminal.				
7	1.5 mm, powder coated 4 gang technology box with earthing terminal.	16	Nos		
8	1.5 mm, powder coated MS back box with earthing terminal.	15	Nos		
	Sub Total of Wiring & Accessories Rs.				
B	Light & Fan Fixtures				
	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.				
1	Bulk Head light fixture with 1x20 watts LED lamp. Make: Osaka / Se	6	Nos		
2	Smart panel light fixture with 1x12 watts LED lamp. Make: Osaka / SE	84	Nos		
3	Smart panel light fixture with 1 x 18 watts LED lamp. Make: Osaka / SE	52	Nos		
4	Exhaust fan metal body 12" (60W)	1	Nos		
5	Exhaust fan 8" dia Plastic Body	4	Nos		
6	Ceiling fan 56" dia with fan box Make : Pak / Royal Deluxe model	14	Nos		
	Sub Total of Light & Fan Fixtures Rs.				
C	Race ways				
	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	PVC pipe 50 mm dia	20	Mtr		
2	PVC pipe 38 mm dia	50	Mtr		
3	PVC pipe 25 mm dia	20	Mtr		
4	PVC pipe 20 mm dia	20	Mtr		
	Sub Total of Race ways Rs.				

BILL OF QUANTITIES



S.No	DESCRIPTION OF ITEMS	QTY.	UNIT	RATE (Rs.)	AMOUNT (Rs.)
D	L.V. Switchgear				
	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	DISTRIBUTION BOARD	1	No		
2	DISTRIBUTION BOARD "LIFT"	1	No		
3	40A TP MCB in metal box	3	No		
	Sub Total of L.V. Switchgear Rs.				
E	Main / Sub-main Feeders				
	Supply, installation & termination at both ends of following main/sub-main cables in already installed Pipes complete as per site requirements				
1	1x35 mm sq 4core PVC/PVC Cable +2x16 mm sq 1 core PVC Cable.	100	Mtr		
1	5x10 mm sq 1core PVC Cable	70	Mtr		
	Sub Total of Main / Sub-main Feeder Rs.				
F	Data & Voice System				
	Supply, pulling & fluke testing of Data or Voice cables in PVC Pipe, including labeling at both ends as per drawings. Make: Clipsal / Systimax.				
1	10 Pair jelly filled telephone Cable	35	Mtrs		
2	Cat-5e UTP Cable PVC Pipe	11	Nos		
3	Cat-6 UTP Cable PVC Pipe	16	Nos		

BILL OF QUANTITIES



S.No	DESCRIPTION OF ITEMS	QTY.	UNIT	RATE (Rs.)	AMOUNT (Rs.)
4	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 2x10 pairs tag blocks. Make: Korne / Clipsal.	1	Nos		
	Supply, installation & termination of face plates comprising as follows. Make: Clipsal / Systimax.				
5	1No RJ-45, CAT-6 I/O	16	Nos		
6	1No RJ-11 socket outlet	11	Nos		
7	Supply, Installation & termination of 24 port RJ-45 Cat-6 UTP Patch Panel complete with all accessories. Make: Clipsal / Systimax.	1	Nos		
8	Supply, Installation & termination of 24 port RJ-45 Cat-6, GIGA Speed Switch, complete with all accessories. Make: 3 COM.	1	Nos		
9	Supply & installation of 18 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 includes all fixing & mounting accessories complete in all respect. Make: Local.	1	Nos		
	Supply & installation of following sizes of Cat-6 UTP (RJ-45 to RJ-45)certified patch cords. Make: Clipsal / Systimax.				
10	1 meter long	16	Nos		
11	3 meter long	16	Nos		
	Sub Total of Data & Voice System Rs.				
G	Addressiable Fire Alarm System				
1	Supply,installation & testing of 1.5sqmm, 2C solid twisted PVC/PVC 2 Hours Fire Resistance Shielded Cable. In 20mm PVC pipe	26	Nos		
	Supply, installation & testing of Fire Alarm system .Devices with MS back boxes.				
2	Smoke Detector.	22	Nos		
3	Heat Detector.	0	No		
4	Manual Call Point.	2	Nos		
5	Fire Alarm Sounder.	2	Nos		
	Sub Total of Addressiable Fire Alarm System Rs.				

ADDITIONAL COURT-RECORD ROOM FOR
DISTRICT WEST (EXTN) OF BAR ROOM AT
CITY COURT KARACHI.
SIXTH FLOOR ELECTRICAL WORKS

BILL OF QUANTITIES



S.No	DESCRIPTION OF ITEMS	QTY.	UNIT	RATE (Rs.)	AMOUNT (Rs.)
I	Air-Conditioning				
1	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	150	Mtr		
	Supply & installation of UPVC pipe Class-D with all accessories including cutting of wall / floor etc.Make: JEDDAH / DADEX				
2	20 mm dia.	80	Mtr		
3	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.	8	Nos		
			Sub Total		
	Grand Total of Electrical Works Sixth Floor				

BILL OF QUANTITIES

SIXTH FLOOR PLUMBING WORKS



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 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.	140	Rft.		
	(ii)	1" dia.	360	Rft.		
	(iii)	1 1/4" dia.	180	Rft.		
	(iv)	1 ½" dia.	-	Rft.		
	(v)	2" dia.	50	Rft.		
	(vI)	2 ½" dia.	30	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.	2	Nos.		
	(ii)	1" dia.	2	Nos.		
	(iii)	1 1/4" dia.	3	Nos.		
	(iv)	1 ½" dia.	-	Nos.		
	(v)	2" dia.	1	Nos.		
	(vI)	2 ½" dia.	1	Nos.		
Sub Total for Water Supply						

BILL OF QUANTITIES

SIXTH FLOOR PLUMBING WORKS



S.No	DESCRIPTION OF ITEM		QTY.	UNIT	RATE	AMOUNT
	DRAINAGE WORKS					
	SOIL, WASTE & VENT SYSTEM:					
1	Providing, fixing, Testing and commissioning of uPVC pipes Sch-40 Solvent fittings as per BS 4660 for above ground installations for Soil, Waste, Vent & R/w 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:- AGM, Cosmoplast, Napro					
	(i)	2" dia	60	Rft.		
	(ii)	3" dia	125	Rft.		
	(iii)	4" dia	315	Rft.		
	(iv)	6" dia	-	Rft.		
	DRAINAGE SPECIALTIES					
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 Brands:- Cosmoplast, AGM, Napro		7	Nos		
3	Providing and fixing UPVC vent cowl for pipe of the following dia including all accessories complete in all respects. Brands:- Cosmoplast, AGM, Napro					
	(i)	3" dia	4	Nos.		
	(ii)	4" dia	4	Nos.		
	(iii)	2" dia	-	Nos.		
Sub Total for Drainage						
	PLUMBING FIXTURES:					
1	Providing and fixing first quality European type water closet with 6 liters flush tank, build in S-Trap, Stop cock with flexible pipe as per drawings, specifications and Engineers Approval. Brands:- Porta, Sonix / Master		4	Nos.		

BILL OF QUANTITIES

SIXTH FLOOR PLUMBING WORKS



S.No	DESCRIPTION OF ITEM		QTY.	UNIT	RATE	AMOUNT
2	Providing and fixing of counter type wash basin with mixer (2) nos. Stop cocks with Flexible Connection , flexible drain pipe to floor drain as per drawings , specifications and engineers approval. Brands:- Porta, Sonix / Master		6	Nos.		
3	Providing and fixing first quality Eastern water closet with 6 liters flush tank, S-Trap , stop cock and flexible pipe as per as per drawings, specifications and Engineers Approval. Brands:- Porta, Sonix / Master		3	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. Brands:- Porta, Sonix / Master		3	Nos.		
5	Providing and fixing of kitchen Sink with waste trap, bib cock, Stop cocks, Flexible Connection as per drawings , specifications and engineers approval. Brands:- Porta , Sonex/Master		-	Nos.		
6	Providing and fixing of Service/ Mop sink with mixer as per architectural fixture selection ,complete in all respect. Brands:- Porta , Sonex/Master,		-	Nos.		
7	Providing and fixing bath toilet accessories as under by Sonex or Master:					
	(i)	Toilet Paper Holder	4	Nos.		
	(ii)	Soap Dish / Glass shelf	6	Nos.		
	(iii)	Double Bib Cock with Hand Spray / Muslim shower	7	Nos.		
Sub Total for Fixtures						
	<u>FIRE FIGHTING</u>					
	Fire Piping					
2	Supply & installation of seamless Black Steel Sch. 40 pipe work including heavy duty fittings, supports, hangers, painting, welding, testing and commissioning as per drawings, specifications and Engineers Recommendation					
	(i)	25mm dia	10	Rm.		
	(ii)	32mm dia	10	Rm.		

BILL OF QUANTITIES

SIXTH FLOOR PLUMBING WORKS



S.No	DESCRIPTION OF ITEM		QTY.	UNIT	RATE	AMOUNT
	(iii)	65mm dia	20	Rm.		
	(iv)	100mm dia	20	Rm.		
	Fire Hose Reels					
4	Supply, installation, testing and Commissioning of Dual compartment Fire Hose cabinet (Exposed or recessed type) with 1.2mm thick MS material and 70micron red oxide coating with lock and handle, along with following equipment as per drawings, specifications and Engineers Recommendation.		1	Nos.		
	(i)	25mm diameter, 30m high pressure rubber hose reel tested on 30 bar with PRV (Pressure Reducing valve), Gate Valve and inlet lock shield control valve and Adjustable plastic Nozzle for Jet, spray				
	(ii)	Brass gate valve 25mm.				
	(iii)	Landing valve Dia 65mm				
	(iv)	Portable 3 kg Co2 Extinguisher				
	(v)	Portable 5 kg Dry powder Extinguisher				
	Valves and Specialties					
5	(i)	Supply, installation, testing and commissioning of 200mm dia O.S and Y type gate valves with as indicated on the drawings, as per specifications and engineers Estimate	1	Nos.		
6	(ii)	Construction of 2400 mmx 1500mm pits for Gate and Air relief valves with 600mm x 600mm Medium Duty Cover (Weight = 60 kg) as indicated on the drawings, as per specifications and engineers Estimate	0	Nos.		
7	(iii)	150mm dia 2 way Fire Brigade Breeching Inlet Connection with Cabinet and non return valve as per NFPA-24 and specifications	0	Nos.		
8	(iv)	200mm dia PRV Assembly for main system, as per specifications and engineers approval.	0	Nos.		
9	(v)	150mm dia Test line for fire with flow switch and Glob valve as indicated on the drawing, as per specifications and engineers approval.	0	Nos.		
10	(vi)	20mm Diameter Automatic Air Relief valve to be installed as per NFPA-24, as indicated on the drawings, as per specifications and engineers approval.	0	Nos.		
Sub Total for Fire Works						
Grand Total of Plumbing Works Sixth Floor & Roof						

ADDITIONAL COURT-RECORD ROOM FOR
DISTRICT WEST (EXTN) OF BAR ROOM AT
CITY COURT KARACHI

SUMMARY OF COST ROOF FLOOR

S.NO.	DESCRIPTION	AMOUNT
1	CIVIL WORKS	
2	ELECTRICAL WORKS	
3	PLUMBING & FIRE FIGTHING WORKS	
	TOTAL	

BILL OF QUANTITIES



S.NO.	DESCRIPTIONS	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)
A)	STRUCTURE WORKS				
1	Providing and laying Design mix concrete having minimum characteristics cylinder Strength $f_c' = 2500$ psi at 28 day. Minimum cement content 300kg/m ³ . Water cement ratio should not exceed 0.5 Using Sulphate Resistant Cement using ready mix concrete including steel formwork.				
a)	Beams and Slab	Cft	600		
2	Providing and laying Design mix concrete having minimum characteristics cylinder Strength $f_c' = 4000$ psi at 28 day. Minimum cement content 350kg/m ³ . Water cement ratio should not exceed 0.5 Using Sulphate Resistant Cement using ready mix concrete including steel formwork.				
i	Columns and Lift Wall	Cft	578		
3	Grade 60 deformed steel bars conforming to ASTM A-615 having yield strength 414 N/mm ² (60,000psi), as per drawing, specification and as directed by the Engineer.	M.T	5.050		
4	OVER HEAD WATER TANK				
	Providing and Making of Over Head Water Tank including material and labor ,form work fixing and removal ,provision of Pipes ,sleeves etc.Complete in all respect but excluding the cost of Steel includes the following items (i)3000 psi Cylind Strength with water admixture ii)3/4" th Plaster with water proofing agent in bottom slab,walls,and soffit of slab (iii)Making of Chamfer with 3000 psi Cyl Concrctete at all edges of walls and bottom slab (iv)24"x24" Manhole cover (v)Stailless Steel Ladder as approved	Galln	7,200.000		
	TOTAL COST OF STRUCTURE WORKS RS.				
B)	ARCHITECTURE WORKS				
1	BLOCK MASONRY IN SUPERSTRUCTURE				
	Solid Block Masonry				
	Providing and laying cement concrete Solid Block wall masonry of minimum 1000 psi compressive strength up to any height set with 1:6 cement mortar, including scaffolding / Raking out joints block cutting etc. complete in all respect as per drawings, technical Provisions and or as directed by the Engineer In charge.				
i)	6"thick	Sft	1,735		
ii)	12"thick	Sft	139		

BILL OF QUANTITIES



S.NO.	DESCRIPTIONS	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)
2	FLOORS AND WALL FINISHES				
2.1	Porcelain Tiles Flooring				
	Providing and laying of approved Matt finish Porcelain Tiles Room Flooring (18" x 18" / 24" x 24") in white cement with approved color & shade including a base of cement sand mortar (1:5), 1" thick, including 1-1/2" thick P.C.C (1:2:4) compacting, grouting, curing, cutting, grouting with matching color complete in all respect as per drawings Technical Provisions or as directed by the Engineer In charge. (Italian or Equivalent) (Rs.1200/M ²)	Sft	461		
2.2	Skirting				
	Providing and Fixing 3/4" thick 4" high Skirting or approved thickness color shade & size as per drawing for skirting, landing over cement sand mortar 1-1/2" thick in 1:5 ratio i/c chemical polishing, edge grinding, buffing complete in all respect as per drawing Technical Provisions and or as directed by the Engineer In charge.				
a)	Porcelain Finish	Rft	204		
2.3	Marble for Staircase				
	Providing and Fixing 3/4" thick in one piece local Verona marble in white cement or approved color shade & size as per drawing for Stair Steps Risers, landing over cement sand mortar 3/4" thick in 1:5 ratio i/c chemical polishing, edge grinding, buffing complete in all respect as per drawing Technical Provisions and or as directed by the Engineer In charge.				
i)	Steps /Risers and Landings	Sft	236		
3	METAL WORKS				
3.1	Metal Stair Railing				
	Providing & Fixing in position m.s. stair railing comprising of m.s. 1" square bar horizontally and 1-1/2" vertically square bar with lath works and m.s. studs at bottom size 3"x1/2" of approved powder coating complete in all respect as per drawing, Technical Provisions and as Engineer.	Sft	68		

BILL OF QUANTITIES



S.NO.	DESCRIPTIONS	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)
4	CARPENTRY AND JOINERY				
4.1	Wooden Doors				
	Providing, making and fixing in position single leaf / Double leaf 1½" thick solid core Flush Door (70% Solid) door shutter having mahogni wood frame on top & bottom with laminated sheet pressed on shutter included m.s metal frame 18SWG (5" x 2") 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 lock, with cost 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	22		
5	ALUMINUM WINDOWS & VENTILATORS				
	Providing, fitting and fixing all types of glazed aluminum windows of anodized approved quality, color, open able/sliding with fly screen using Box section 1.6 mm thick of Pak cable or equivalent having frame size of 100 x 20 mm (4" x 3/4") and leaf frame section of 50 x 20 mm (2" x 3/4") including aluminum wire gauge panels, 6 mm thick best quality imported glass with rubber gasket using approved standard latches hardware etc. complete in all respect as per drawings, Technical provisions and as per In charge of the Engineer.	Sft	32		
6	<u>SURFACE RENDERING</u>				
6.1	<u>Internal Plaster</u>				
	Providing and applying cement plaster 1:5 on ceiling sides and soffit of beams, on internal sides of walls, columns beams exposed concrete surfaces including hacking 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 In charge.				
i)	Internal Ceiling 1/2"-3/4"	Sft	463		
ii)	Internal Wall Plaster 3/4" thick	Sft	882		

BILL OF QUANTITIES



S.NO.	DESCRIPTIONS	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)
6.2	<u>External Pigmented (Color)Plaster</u>				
	Providing and applying 1/2" to 3/4" Finish Pigmented(Color)cement plaster (1:4) 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, pigment color, curing and scaffolding etc. at any height complete in all respect as per drawings, Technical Provisions and or as directed by the Engineer In charge.	Sft	993		
6.3	<u>Plastic Emulsion Paint</u>				
	Providing and applying 3-coats of plastic emulsion paint to internal plastered surfaces (ICI/Burger Pakistan) of approved color 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	Sft	1,345		
7	<u>CEMENT CONCRETE BAND AROUND WINDOWS</u>				
	Providing and making of Cement Concrete Band around Windows Size 4"x3" or approved includes reinforcement ,formworks , as per drawing with all fixing arrangement complete in all respect as per drawing.	Rft	326		
8	<u>Roof Screed</u>				
	Providing and laying 3" thick Avg 1:2:4 cement concrete screed over slab in proper slope and in panels, complete in all respect as per drawings Technical Provision and or as directed by the Engineer In charge.	Sft	6,800.85		
9	<u>Roof Insulation</u>				
	Providing and Laying 25mm thick Polyurethane Insulation for roof with 35kg/m ² Density, includes the cost of materials & labor, Transportation, complete in all respect as per drawing technical provision and or as directed by the Engineer In charge.	Sft	6,800.85		
10	<u>Roof Screed with BRC Mesh</u>				
	Providing and laying 3" thick Avg 1:2:4 cement concrete screed over slab in proper slope and in panels, with BRC mesh complete in all respect as per drawings Technical Provision and or as directed by the Engineer In charge.	Sft	6,800.85		

BILL OF QUANTITIES



S.NO.	DESCRIPTIONS	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)
11	<u>Roof Tiles</u>				
	Providing and laying of approved Matt finish Porcelain Tiles on roof (18" x 18" / 24" x 24") in white cement with approved color & shade including a base of cement sand mortar (1:5), 1" thick, including 1-1/2" thick P.C.C (1:2:4) compacting, grouting, curing, cutting, grouting with matching color complete in all respect as per drawings Technical Provisions or as directed by the Engineer In charge.	Sft	6,800.85		
12	<u>Making of Opening in parapet wall</u>				
	Providing and making of opening in parapet wall 12" x 12" or as per approved size includes cutting in block masonry and making good includes plaster works with edges and corner as per given in the drawing complete in all respect as per directed by the Engineer incharge.	No.	26.00		
13	<u>Metal Pergola</u>				
	Providing, making and fixing in position m.s Metal Pergola on roof comprising of 3" x 3" outer frame with 3" x 2" m.s tube inner frame @18" c/c with epoxy primer and three coats of approved enamel paint in all respect as per drawing technical provisions and or as directed by the Engineer in charge.	Sft	2,100.00		
14	<u>Skylight</u>				
	Providing and Making of Skylight of Roof, comprising of up to 3'-0" high in wooden frame with 8mm thick tempered glass fixed with silicone, gaskets, with lacquer polish on wooden frame complete in all respect as per specification an drawings.	Sft	1,436.40		
TOTAL VALUE OF ARCHITECTURAL WORKS					
TOTAL VALUE OF STRUCTURE & ARCHITECTURAL WORKS ROOF FLOOR					