



CHIEF JUSTICE OF SINDH RESIDENCE

BILL OF QUANTITIES FOR CIVIL, PLUMBING, ELECTRICAL & ALLIED WORKS

BILL OF QUANTITIES

SUMMARY OF COST

S.No.	Description	Amount
1)	CIVIL WORKS	Rs.
2)	INFRASTRUCTURAL WORKS	Rs.
3)	PLUMBING WORKS	Rs.
4)	ELECTRICAL & ALLIED WORKS	Rs.
TOTAL VALUE OF WORKS		Rs.

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ABSTRACT OF COST

CIVIL WORKS

S.No.	Description	Amount
1)	STRUCTURAL WORKS	Rs.
2)	ARCHITECTURAL WORKS	
a.	G. Floor	Rs.
b.	F. Floor	Rs.
TOTAL VALUE OF CIVIL WORKS		Rs.

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ITEM	ACTIVITY	QUANTITY	RATE	UNIT	AMOUNT
1- BOUNDARY WALL					
	Providing and laying making boundary wall with following items as per design, drawing and as directed by the Architect / Engineer				
1.1	Excavation	2,240.00		/ Cft	
1.2	Stone Soling (6" Th.)	685.00		/ Cft	
1.3	6" Th. 1:3:6 Concrete	685.00		/ Cft	
1.4	1:2:4 Concrete in Footings and Columns	617.00		/ Cft	
1.5	6" Wide. 1:3:6 Concrete under Boundary Wall P. Beam	1,352.25		/ Cft	
1.6	Plinth Beams (1:2:4 Concrete)	856.25		/ Cft	
1.7	Block Masonary 6"	4,800.00		/ Sft	
1.8	Beam at Top (1:2:4 Concrete)	425.00		/ Cft	
1.9	Plaster on Internal side of Boundary Wall and Front Side	10,500.00		/ Sft	
1.10	Reinforcement	3,500.00		/ kg	
2- EXCAVATION:					
	Excavation for foundation of columns etc. upto any depth and lead including dewatering if required, back filling of excavated earth in foundation trenches and spreading the surplus earth and removing extra earth and debris from site at any lead and lift, complete as shown on drawings, and as directed by Consultant including making provision for shoring of loose soil if required and removal of excavated earth upto 5'-0" from edge of excavation complete as per drawing and as directed	21,100.00		/ Cft	
3- BACKFILLING WITH FINE SAND					
	Back Filling with fine sand (Balu Matti) free from rocks / concrete debris and compacting the same in layers not exceeding 150mm Th., consolidating each layer by ramming and watering to attain 95% Compaction, complete in all respect as directed	Rate Only		/ Cft	
4- BACKFILLING WITH EXCAVATED EARTH					
	Back Filling with excavated earth free from rocks / concrete debris and compacting the same in layers not exceeding 6" Th., consolidating each layer by ramming and watering complete in all respect as per directions of the Architect.	2,110.00		/ Cft	
5- STONE SOLING:					



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	Providing and laying stone soling to with broken stones and filling the voids with stone metals 3/4" to 1 1/2" size and fine sand, well rammed, watered, consolidated and compacted with mechanical means. complete as per drg.				
5a	6" Th. Under floor 1:3:6 Concrete	3,500.00		/ Cft	
5b	12" Th. Under Foundation	2,200.00		/ Cft	

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ITEM	ACTIVITY	QUANTITY	RATE	UNIT	AMOUNT
6- 1:3:6 CONCRETE					
	Providing and laying C.C 1:3:6 Cast -in- Situ using graded screened bajri 3/8" and down gauge as fine aggregate and crushed stone 3/4" and down gauge as coarse aggregate including / excluding form work and its removal, curing etc. having minimum works cube crushing strength of 1500 p.s.i. after 28 days curing complete as per drawing and as directed by the Architect/Consultants				
6a	1:3:6 Concrete with shuttering under Plinth Beam	2,900.00		/ Cft	
6b	6" Th. 1:3:6 Concrete under Footing/Pl. Beam	1,600.00		/ Cft	
6c	4" Th. 1:3:6 Concrete under Slab floor	1,332.00		/ Cft	
7- 1:4:8 CONCRETE					
	Providing and laying C.C 1:4:8 Cast -in- Situ using graded screened bajri 3/8" and down gauge as fine aggregate and crushed stone 3/4" and down gauge as coarse aggregate including / excluding form work and its removal, curing etc. . complete as per drawing and as directed by the Architect	1,200.00		/ Cft	
8- 3000 PSI CYLINDRICAL STRENGTH CONCRETE					
	Providing and laying Reinforced cement concrete using graded screened bajri 3/8" and down gauge as fine aggregate, Sulphate Resistant Cement (SRC) / Ordinary Portland Cement (OPC) and crushed stone 3/4" down gauge as coarse aggregate with ready mix concrete including the cost of fixing form work and scaffolding and its removal, vibrating using mechanical vibrator, curing and Cylinder testing at 7 & 28 days etc. having min. cylindrical strength of 3000 psi after 28 days curing but excluding the cost of reinforcement bars complete as per drawing and as directed by the Consultants.				
8a	3000 Psi Cyl. Str. Conc. in Pedestal Columns (SRC)	500.00		/ Cft	
8b	3000 Psi Cyl. Str. Conc. in Ground Columns (OPC)	950.00		/ Cft	
8c	3000 Psi Cyl. Str. Conc. in first floor Columns (OPC)	650.00		/ Cft	
8d	3000 Psi Cyl. Str. Conc. in Footings (SRC)	2,000.00		/ Cft	
8e	3000 Psi Cyl. Str. Conc. in 1st Floor Slab & Beams (OPC)	6,500.00		/ Cft	
8f	3000 Psi Cyl. Str. Conc. in Roof Slab & Beams (OPC)	6,200.00		/ Cft	
8g	3000 Psi Cyl. Str. Conc. in Main Stairs (OPC)	64.00		/ Cft	
8h	3000 Psi Cyl. Str. Conc. in Servant Stairs (OPC)	44.00		/ Cft	



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8j	3000 Psi Cyl. Str. Conc. in water body (SRC)	1,200.00		/ Cft	
8k	3000 Psi Cyl. Str. Conc. in Plinth Beams (SRC)	2,350.00		/ Cft	

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ITEM	ACTIVITY	QUANTITY	RATE	UNIT	AMOUNT
9- 2500 PSI CYLINDRICAL STRENGTH CONCRETE					
	Providing and laying Reinforced cement concrete using graded screened bajri 3/8" and down gauge as fine aggregate, OPC and crushed stone 3/4" down gauge as coarse aggregate with ready mix concrete including the cost of fixing form work and scaffolding and its removal, vibrating using mechanical vibrator, curing and Cylinder testing at 7 & 28 days etc. having min. cylindrical strength of 2500 psi after 28 days curing but excluding the cost of reinforcement bars complete as per drawing and as directed by the Consultants.				
9a	2500 Psi Cyl. Str. Concrete External Paved Area	3,080.00		/ Cft	
9b	2500 Psi Cyl. Str. Concrete in First Floor Slab/Beam	Rate Only		/ Cft	
9c	2500 Psi Cyl. Str. Concrete in Roof Slab/Beam	Rate Only		/ Cft	
10- REINFORCEMENT					
	Providing, straightening, cutting, bending, fabrication, hoisting and placing in position high yield strength Steel Reinforcement 60,000 psi conforming to ASTM A-615 (Deformed bar), tying with binding wire 18 gauge together with its cost in all kinds of reinforced concrete sections in any position or elevation or at any height, providing and fixing steel chairs or approved plastic chairs, or precast concrete chairs of mix richer than the concrete mix in section, tying with binding wire, pins, spacer bars etc. as per drawings, specifications and instructions of the Architect/Engineer.	64.00		/Tons	
11- Over Head Water Tank					
a	Constructing RCC Over Head Water Tank including providing material Labour, formwork fixing and removal, provision of G.I. Pipes/sleeves etc. Complete in all respect as per drawings and as directed by Architect/Engineer but excluding cost of reinf. (The list of Items in OHWT are listed below.)	3,000		/Gal	
a	3000 psi Cyl. Strength Conc. With water proofing admixture				
b	2.5" thick screed on bottom slab in proper slope				

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c	3/4" 1:4 Thick Plaster (Internal & External) with Water Proof Admixtyre AQUAFIN ADIPLAST-M in Bottom Slab, RCC walls, soffit of slab				
d	Making Chamfer with 3000 psi Cyl. Strength Concrete at all edges of wall and bottom slab				
e	2 ft x 2ft Manhole cover				
f	Stainless Steel Ladder as approved				

ITEM	ACTIVITY	QUANTITY	RATE	UNIT	AMOUNT
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12- Under Ground Water Tank

	Constructing RCC Under Ground Water Tank including providing material Labour, formwork fixing and removal, provision of G.I. Pipes/sleeves etc. Complete in all respect as per drawings and as directed by Architect/Engineer but including cost of reinf. (The list of Items in UGWT are listed below.)	10,500		/Gal	
a	Excavation upto required depth as per drawings				
b	6" thick 1:3:6 Lean Concrete				
c	3000 psi Cyl. Strength Conc. In Bottom Slab (15"Th), Walls (8" Th.) and in Top Slab (9" Th.)				
d	Water Proofing admixture in bottom slab, side walls				
e	2.5" thick screed on bottom slab in proper slope				
f	3/4" 1:4 Thick Plaster (Internal & External) with Water Proof Admixtyre AQUAFIN ADIPLAST-M in Bottom Slab, internal RCC walls, soffit of slab				
g	Making Chamfer with 3000 psi Cyl. Strength Concrete at all edges of wall and bottom slab				
h	2 ft x 2ft Manhole cover 2 nos				
j	Stainless Steel Ladder as approved				
k	Making Seat for fixing Motor pump with 3000 psi Cyl. Strength Concrete with provision of bolts				
l	water proof coating of approved make (Penetron or equivalent) including applying 1" Thick Plaster (1:4 ratio) with water proof admixture on outer surface of walls upto Road Level				
m	Steel Reinforcement				
TOTAL VALUE OF STRUCTURAL WORKS					

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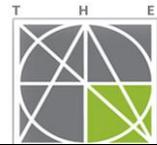
S.No.	ITEMS DESCRIPTIONS	QTY	UNIT	RATE	AMOUNT RS.
1	<u>Termite Proofing Agenda (Plinth Area)</u>				
	Providing and carrying out termite proofing of approved chemical as per manufacturer's specifications for foundations & under floor etc. The work will be done by a specialist sub-contractor who will 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 Incharge.	11,000	Sft		
2	<u>BLOCK MASONRY</u>				
	Providing and Laying machine made Solid Block masonry of approved quality, setting the block in 1:6 cement sand mortar base, raked joints, including scaffolding, curing complete in all respect, the compressive strength is 900 psi.				
a	6"thick	4,028	Sft		
b	8"thick	2,394	Sft		
c	12"thick	361	Sft		
3	<u>PLASTER WORKS (INTERNAL)</u>				
	Providing and Applying 1:5 cement sand plaster on ceiling and walls, over block masonry and concrete surface with approved metal of 18 SWG at the joints, includes curing, scaffolding making edges, groove, complete in all respect.				
a	Plaster for ceiling 1/2" to 3/4"thick	11,660	Sft		
b	Plaster on Walls 3/4"thick	14,691	Sft		
4	<u>PLASTER WORKS (EXTERNAL)</u>				
	Providing and Applying 1:5 cement sand plaster on walls, over block masonry and concrete surface with approved metal of 18 SWG at the joints, includes curing, scaffolding making edges, groove, complete in all respect.				
a	Plaster 3/4"thick	2,499	Sft		
5	<u>FLOORING</u>				
a	<u>MARBLE FLOORING (Imported)</u>				
	Providing and Laying best quality 3/4"thick Imported Marble (Tuscun white OR as Approved Equivalent), approved color, size and texture for flooring over 3/4"th 1:5 cement mortar base, includes cutting, fixing, grinding, chemical polishing complete in all respect. Marble Price Rs. 1200/- Sft	4,624	Sft		

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S.No.	ITEMS DESCRIPTIONS	QTY	UNIT	RATE	AMOUNT RS.
b	MARBLE SKIRTING (Imported)				
	Providing and Laying best quality 3/4"thick Imported Marble (Tuscun white OR as Approved Equivalent), approved color, size and texture for skirting over 3/4"th 1:5 cement mortar base, includes cutting, fixing, grinding, chemical polishing complete in all respect	928	Rft		
c	MARBLE (Imported) For Staircase Area				
	Providing and Laying approved quality imported Marble (Tuscun white OR as Approved Equivalent), in Stair area over 3/4"th cement mortar base, includes tile cutting, grinding ,polishing matching color grouting, complete in all respect. Marble Price Rs. 1200/- Sft	183	Sft		
d	PORCELAIN (Imported) TILES FOR BATH ROOMS/KITCHEN				
	Providing and Laying approved quality imported Porcelain tiles for bath rooms floor and wall over 3/4"th cement sand mortar, includes matching color grouting, tile cutting, complete in all respect. Tile Price Rs. 2000/- M ²	3,211	Sft		
e	BATH TILE Staff Rooms (LOCAL)				
	Providing and Laying approved quality Local Ceramic tiles for servant/maid bath rooms floor and wall over 3/4"th cement sand mortar, includes matching color grouting, tile cutting, complete in all respect. Tile Price Rs. 75/- Sft	348	Sft		
f	MARBLE ON STAIRS STEPS STAFF ROOMS AREAS (Local)				
	Providing and Laying approved quality 3/4"thick local Marble for stairs over 3/4"th 1:5 cement mortar base, includes cutting, fixing, grinding, chemical polishing, edge, polishing, grinding, complete in all respect. Marble Price Rs. 400/- Sft	146	Sft		
6	MARBLE (Imported) COUNTER TOPS				
a	BATH ROOMS				
	Providing and Laying of 3/4"thick approved imported marble counter tops fixed on vanity, includes basin hole cutting, edge grinding, polishing complete in all respect. Marble Price Rs. 1400/- /sft	80	Sft		

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S.No.	ITEMS DESCRIPTIONS	QTY	UNIT	RATE	AMOUNT RS.
b	<u>KITCHEN COUNTER TOPS</u>				
	Providing and Laying of 3/4"thick imported approved marble counter tops fixed on cabinets, includes basin hole cutting, edge, grinding, polishing complete in all respect. Marble Price Rs. 1350/- Sft	100	Sft		
7	<u>PLASTIC EMULSION PAINT (Internal)</u>				
	Providing and Applying of 3 coats of plastic emulsion paint on internal surface on ceiling and walls of ICI /Burger Pakistan or approved color and shade includes preparation of surface, filling and application of primer etc. complete in all respect.	14,691	Sft		
8	<u>COLOR CRETE</u>				
	Providing and Applying of approved quality 2/8"th color crete on external surface in 1:2:2 ratio includes approved quality sand and color with scaffolding, grooves Includes Sill Block complete in all respect.	2,499	Sft		
9	<u>STONE ON EXTERNAL WALLS</u>				
	Providing and Fixing in position 1" thick Gadab stone on external walls over 1" thick 1:5 cement sand in 18"/24" wide up to free size includes grouting, cutting, filling scaffolding, complete in all respect.	5,876	Sft		
10	<u>STONE COPPING ON WALL</u>				
	Providing and Fixing of 6"x2"th Gadab stone coping on external walls over 1"th cement sand mortar in 1:5 ratio, includes grouting, cutting scaffolding complete in all respect.	250	Rft		
11	<u>SILBATTI STONE ON ENTRANCE STAIR STEPS & COURTS</u>				
	Providing and Fixing of 1"thick Silbatti stone on external stair steps and risers over 3/4"thick in 1:5 cement mortar includes grouting, cutting, complete in all respect with skirting on walls.	2,496	Sft		
12	<u>PRECAST CONCRETE SHELVES</u>				
	Providing and Laying 3"th reinforced Pre-cast concrete shelves for store fixed on walls, complete in all respect.	75	Sft		
13	<u>METAL STAIR RAILING STAFF ROOM AREAS</u>				
	Providing and Making and fabricating of m.s stair railing comprising of 1"dia m/s hollow pipes horizontally and 1½ dia m.s hollow pipe vertically with lath works, m.s studs at bottom size 3"x1/2", includes primer coat complete in all respect.	75	Sft		



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S.No.	ITEMS DESCRIPTIONS	QTY	UNIT	RATE	AMOUNT RS.
14	GLASS WORKS				
a	SHOWER CUBICAL				
	Providing and Fixing in position 8mm thick Tempered glass for Shower cubical of approved quality includes fixed frame and openable door with S.S fittings, hinges, handles, rubber complete in all respect.	150	Sft		
b	MIRRORS IN BATH ROOMS				
	Providing and Fixing of approved quality 6mm thick mirror of Saint Gobain with polish edge and back protective, fixing on ply sheet, complete in all respect.	50	Sft		
15	PLANTERS				
	Providing and making of Planters in R.C.C Walls 2' height includes water proof Plaster, floor screeding stone on walls with copping complete in all respect.				
a	Size =16'-0"x6'-0"	2	No.		
b	Size =7'-0"x8'-0"	1	No.		
c	Size =1'-6"x1'-6"	5	No.		
d	Size =5'-4"x1'-6"	3	No.		
e	Size =2'-10"x2'-10"	6	No.		
16	METAL SHED				
	Metal Shed in M.S Steel Structure Frame with GI Sheet to protect Air Conditioning outer Units includes fabrication and Errection etc. complete in all respect.	60	Sft		
17	WOODEN DOORS INTERNAL				
	Providing and making Wooden Paneled door shutters in mahogany wood, comprising of 7"x2" size solid wood frame with 1-1/2"thick wooden shutter with 1/2"th mahogany wood pressed from both sides on marine ply, includes beading on both sides, with all hardware includes Locks, S.S hinges, tower bolts, handles, and lacquer polishing, includes anti termite proofing coat, complete in all respect.	1,221	Sft		
18	WOODEN WINDOWS				
	Providing and Making of Window shutter in Mahogany wood, comprising of 7"x2" size solid wood frame with 1-1/2"thick wooden shutter, with 8mm thick safety glass includes 1.52mm imported safety film, beading on both sides, with all hardware includes S.S hinges, tower bolts, handles and lacquer polish, with fly proof shutters complete in all respect with the cost of safety glass. includes anti termite proofing coat.	978	Sft		

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S.No.	ITEMS DESCRIPTIONS	QTY	UNIT	RATE	AMOUNT RS.
19	<u>WOODEN LOUVER DOOR EXTERNAL FACES</u>				
	Providing and Making of wooden louver doors in mahogany wood, comprising of 5"x2"size solid frame with 1-1/2"thick wooden louver shutter in openable or fixed 3"or approved size louver includes beading on both sides, with all hardware e.g., S.S hinges, tower bolts, handle lock, with lacquer polishing, includes anti termite proofing coat, complete in all respect.	601	Sft		
20	<u>DRESS CABINETS</u>				
	Providing and Making of wooden cabinets in dress area comprising of marine ply shutter, sides, back ply, wooden beading all around, drawers with all hardware includes, hinges, channels, lock, tower bolts, polishing, includes anti termite proofing coat, complete in all respect.	150	Sft		
21	<u>VANITY CABINETS</u>				
	Providing and Making of wooden vanity cabinet in marine ply with wood beading, includes drawer, all hardware, e.g. hinges, tower bolt lock, etc. with polishing, includes anti termite proofing coat, complete in all respect.	50	Sft		
22	<u>KITCHEN CABINETS</u>				
	Providing and Making of Kitchen floor and Base cabinets comprising of marine ply shutter with sides and back ply includes all hardware e.g., hinges lock, handles, polishing, includes anti termite proofing coat, complete in all respect.	150	Sft		
23	<u>WOODEN MIRROR FRAME</u>				
	Providing and Making of wooden frames size 3"x1/2" or as per drawing fixed all around mirror and back ply with polishing, includes anti termite proofing coat, complete in all respect.	50	Sft		
24	<u>PERGOLA (WOODEN CLADDING ON METAL FRAME)</u>				
	Providing and Making of wooden Pergola in golden teak wood in 2" x 3" inner frame, and 4" x 4" outer frame Cladded on metal structure with outer M.S tube 6"x2" and inner 3" x 2" size with polish finish, includes anti termite proofing coat, complete in all respect.	1,387	Sft		
	Sub Total G.Floor				

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S.No.	ITEMS DESCRIPTIONS	QTY	UNIT	RATE	AMOUNT RS.
1	<u>BLOCK MASONRY</u>				
	Providing and Laying machine made Solid Block masonry of approved quality, setting the block in 1:6 cement sand mortar base, raked joints, including scaffolding, curing complete in all respect, the compressive strength is 900 psi.				
a	6"thick	3,293	Sft		
b	8"thick	1,487	Sft		
c	12"thick	50	Sft		
2	<u>PLASTER WORKS (INTERNAL)</u>				
	Providing and Applying 1:5 cement sand plaster on ceiling and walls, over block masonry and concrete surface with approved metal of 18 SWG at the joints, includes curing, scaffolding making edges, groove, complete in all respect.				
a	Plaster for ceiling 1/2" to 3/4"thick	7,230	Sft		
b	Plaster on Walls 3/4"thick	12,546	Sft		
3	<u>PLASTER WORKS (EXTERNAL)</u>				
	Providing and Applying 1:5 cement sand plaster on walls, over block masonry and concrete surface with approved metal of 18 SWG at the joints, includes curing, scaffolding making edges, groove, complete in all respect.				
a	Plaster 3/4"thick	250	Sft		
4	<u>FLOORING</u>				
a	<u>MARBLE FLOORING (Imported)</u>				
	Providing and Laying best quality 3/4"thick Imported Marble (Tuscun white OR as Approved Equivalent), approved color, size and texture for flooring over 3/4"th 1:5 cement mortar base, includes cutting, fixing, grinding, chemical polishing complete in all respect. Marble Price Rs. 1200/- Sft	2,042	Sft		
b	<u>MARBLE SKIRTING (Imported)</u>				
	Providing and Laying best quality 3/4"thick Imported Marble (Tuscun white OR as Approved Equivalent), approved color, size and texture for skirting over 3/4"th 1:5 cement mortar base, includes cutting, fixing, grinding, chemical polishing complete in all respect	396	Rft		
c	<u>PORCELAIN TILES FOR BATH ROOMS/KITCHEN</u>				
	Providing and Laying approved quality imported Porcelain tiles for bath rooms floor and wall over 3/4"th cement sand mortar, includes matching color grouting, tile cutting, complete in all respect. Tile Price 2000/- M ²				



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S.No.	ITEMS DESCRIPTIONS	QTY	UNIT	RATE	AMOUNT RS.
		2,983	Sft		

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S.No.	ITEMS DESCRIPTIONS	QTY	UNIT	RATE	AMOUNT RS.
d	BATH TILE Staff Rooms (LOCAL)				
	Providing and Laying approved quality Local Ceramic tiles for servant/maid bath rooms floor and wall over 3/4"th cement sand mortar, includes matching color grouting, tile cutting, complete in all respect. Tile price 75/- Sft				
		693	Sft		
5	MARBLE COUNTER TOPS				
a	BATH ROOMS				
	Providing and Laying of 3/4"thick approved imported marble counter tops fixed on vanity, includes basin hole cutting, edge grinding, polishing complete in all respect.				
		30	Sft		
b	KITCHEN COUNTER TOPS				
	Providing and Laying of 3/4"thick imported approved marble counter tops fixed on cabinets, includes basin hole cutting, edge, grinding, polishing complete in all respect.				
		20	Sft		
6	PLASTIC EMULSION PAINT (Internal)				
	Providing and Applying of 3 coats of plastic emulsion paint on internal surface on ceiling and walls of ICI /Burger Pakistan or approved color and shade includes preparation of surface, filling and application of primer etc. complete in all respect.				
		19,776	Sft		
7	COLOR CRETE				
	Providing and Applying of approved quality 2/8"th color crete on external surface in 1:2:2 ratio includes approved quality sand and color with scaffolding, grooves includes Sill Block complete in all respect.				
		8,783	Sft		
8	STONE ON EXTERNAL WALLS				
	Providing and Fixing in position 1" thick Gadab stone on external walls over 1" thick 1:5 cement sand in 18"/24" wide up to free size includes grouting, cutting, filling scaffolding, complete in all respect.				
		500	Sft		
9	STONE COPPING ON WALL				
	Providing and Fixing of 6"x2"th Gadab stone copping on external walls over 1"th cement sand mortar in 1:5 ratio, includes grouting, cutting scaffolding complete in all respect.				
		150	Rft		

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S.No.	ITEMS DESCRIPTIONS	QTY	UNIT	RATE	AMOUNT RS.
10	<u>PRECAST CONCRETE SHELVES</u>				
	Providing and Laying 3"th reinforced Pre-cast concrete shelves for store fixed on walls, complete in all respect.	50	Sft		
11	<u>METAL HAND RAILING STAFF ROOM AREAS</u>				
	Providing and Making and fabricating of hand railing comprising of 1"dia m/s hollow pipes horizontally and 1½ dia m.s hollow pipe vertically with lath works, m.s studs at bottom size 3"x1/2", includes primer coat complete in all respect.	202	Sft		
12	<u>GLASS WORKS</u>				
a	<u>SHOWER CUBICAL</u>				
	Providing and Fixing in position 8mm thick Tempered glass for Shower cubical of approved quality includes fixed frame and openable door with S.S fittings, hinges, handles, rubber complete in all respect.	105	Sft		
b	<u>MIRRORS IN BATH ROOMS</u>				
	Providing and Fixing of approved quality 6mm thick mirror of Saint Gobain with polish edge and back protective, fixing on ply sheet, complete in all respect.	50	Sft		
13	<u>METAL SHED</u>				
	Metal Shed in M.S Steel Structure Frame with GI Sheet to protect Air Conditioning outer Units includes fabrication and Errection etc. complete in all respect.	60	Sft		
14	<u>WOODEN DOORS INTERNAL</u>				
	Providing and making Wooden Paneled door shutters in mahogany wood, comprising of 7"x2" size solid wood frame with 1-1/2"thick wooden shutter with 1/2"th mahogany wood pressed from both sides on marine ply, includes beading on both sides, with all hardware includes Locks, S.S hinges, tower bolts, handles, and lacquer polishing, includes anti termite proofing coat, complete in all respect.	511	Sft		
15	<u>WOODEN WINDOWS</u>				
	Providing and Making of Window shutter in Mahogany wood, comprising of 7"x2" size solid wood frame with 1-1/2"thick wooden shutter, with 8mm thick safety glass includes 1.52mm imported safety film, beading on both sides, with all hardware includes S.S hinges, tower bolts, handles and lacquer polish, with fly proof shutters complete in all respect with the cost of safety glass. includes anti termite proofing coat.	575	Sft		

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S.No.	ITEMS DESCRIPTIONS	QTY	UNIT	RATE	AMOUNT RS.
16	WOODEN LOUVER DOOR EXTERNAL FACES				
	Providing and Making of wooden louver doors in mahogany wood, comprising of 5"x2"size solid frame with 1-1/2"thick wooden louver shutter in openable or fixed 3"or approved size louver includes beading on both sides, with all hardware e.g., S.S hinges, tower bolts, handle lock, with lacquer polishing, includes anti termite proofing coat, complete in all respect.	126	Sft		
17	DRESS CABINETS				
	Providing and Making of wooden cabinets in dress area comprising of marine ply shutter, sides, back ply, wooden beading all around, drawers with all hardware includes, hinges, channels, lock, tower bolts, polishing complete in all respect. includes anti termite proofing coat.	80	Sft		
18	VANITY CABINETS				
	Providing and Making of wooden vanity cabinet in marine ply with wood beading, includes drawer, all hardware, e.g. hinges, tower bolt lock, etc. with polishing, includes anti termite proofing coat, complete in all respect.	70	Sft		
19	KITCHEN CABINETS				
	Providing and Making of Kitchen floor and Base cabinets comprising of marine ply shutter with sides and back ply includes all hardware e.g., hinges lock, handles, polishing, includes anti termite proofing coat, complete in all respect.	75	Sft		
20	WOODEN MIRROR FRAME				
	Providing and Making of wooden frames size 3"x1/2" or as per drawing fixed all around mirror and back ply with polishing, includes anti termite proofing coat, complete in all respect.	50	Sft		
21	SUNK SLAB				
	Providing and Laying 6"thick Sunk Slab for bath rooms provided for plumbing pipes, filled with flower pots or any other light weight material, complete in all respect.	385	Sft		
22	PRECAST CONCRETE SHELVES				
	Providing and Laying 3"th reinforced Pre-cast concrete shelves for store fixed on walls, complete in all respect.	50	Sft		

BILL OF QUANTITIES

S.No.	ITEMS DESCRIPTIONS	QTY	UNIT	RATE	AMOUNT RS.
23	<u>ROOFING</u>				
a	<u>CONCRETE SCREED</u>				
	Providing and Laying 3½" thick avg. 1:2:4 cement concrete screed in proper slope and in panels over water proofing complete in all respect.	6,578	Sft		
b	<u>WATER PROOFING</u>				
	Providing and Laying approved water proofing over roof slab using POLYTEX, Elastomeric Acrylic base waterproofing with primer and two coats complete in all respect.	6,578	Sft		
c	<u>KHAPRAIL TILE ON ROOF</u>				
	Providing and Laying approved quality Khaprail tile fixed in slope as per drawing, includes wastage, complete in all respect	6,578	sft		
	Sub Total F.Floor				

BILL OF QUANTITIES

ABSTRACT OF COST

INFRASTRUCTURE WORKS

S.No.	Description	Amount	
1	WATER BODY	Rs.	
2	DRIVEWAY/PARKING	Rs.	
3	LANDSCAPING	Rs.	
TOTAL VALUE OF CIVIL WORKS FOR INFRASTRUCTURE		Rs.	

BILL OF QUANTITIES



BILL OF QUANTITIES

S.NO.	DESCRIPTIONS	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)
1	<u>WATER BODY</u>				
a	<u>EXCAVATION</u>				
	Excavation upto required depth Water Body and other related area in any kind of soil, includes back filling complete in all respect.	Cft	1050		
b	<u>STONE SOLING</u>				
	Providing and Laying 6"thick Stone soling over compacted earth of approved quality includes compacting, leveling complete in all respect.	Sft	131		
c	<u>1:3:6 LEAN CONCRETE</u>				
	Providing and Laying 4"thick 1:3:6 Lean Concrete over stone soling includes leveling, form complete in all respect works for basement, columns footings.	Cft	87		
d	<u>REINFORCED CONCRETE</u>				
	Providing and Laying reinforced cement concrete 1:3:3 ratio as mentioned to achieve minimum specified cube strengths at 28 days using S.R Cement below plinth level using approved quality coarse and fine aggregate, with water tight form works, scaffolding, curing, vibrating, excluding the cost of steel, complete in all respect.				
e	Concrete for Base slab	Cft	131		
f	Concrete for Walls	Cft	263		
g	<u>WATER PROOFING</u>				
	Providing and Applying two coats of CERESIT CR - 66 on Water Body base slab and walls includes primer coat and finish coats complete in all respect.	Sft	600		
h	<u>PLASTER FOR INTERNAL WALLS</u>				
	Providing and Applying 1:5 3/4"thick cement sand on Water Body internal walls includes edges corners, leveling, complete in all respect.	Sft	600		

BILL OF QUANTITIES

i	<u>PLASTER FOR EXTERNAL WALLS</u>				
	Providing and Applying 1:5 3/4"thick cement sand plaster on Water Body external walls includes edges corners, leveling, complete in all respect.	Sft	450		
j	<u>1:2:4 CEMENT CONCRETE SCREED FLOOR</u>				
	Providing and Laying 3"thick 1:2:4 cement concrete screed for Water Body floor in S.R Cement includes leveling, curing complete in all respect.	Sft	113		
k	<u>TILES FOR FLOOR AND WALLS</u>				
	Providing and Laying approved quality ceramic tiles on water body and walls laid over 1:4 cement sand mortar includes color match grouting, tile cutting, curing, complete in all respect. Tile Price Rs. 2000/- M ²				
		Sft	600		
TOTAL VALUE OF CIVIL WORKS FOR WATER BODY					
2	<u>DRIVEWAY/PARKING</u>				
	Providing and laying Flooring 1:2:4 for parking & driveway areas including lane marking in 24"x24"x4" panels, as per drawing, complete in all respect.				
	Ground Floor	Sft	4,500		
3	<u>LANDSCAPING</u>				
	Providing and laying soft landscaping includes removal of debris, filling of sweet earth up to 6" thick, manure and laying of imported grass, completed in all respect.	Sft	12,500		



S.No	DESCRIPTION OF ITEM	QTY.	UNIT	RATE	AMOUNT
DIVISION 15 A - PLUMBING WORKS					
All items under this head to be carried out as per specifications, Drawings and relevant BSI/ASTM Standards to the entire satisfaction of the Engineer.					
WATER SUPPLY:					
ABOVE GROUND COLD/HOT WATER PIPING:					
1	Supply, installation Testing and Commissioning of PPR PN - 20 Cold/Hot water pipes as per DIN 8077-8078 with molded fittings PN - 25 as per DIN 16962, including pipe supports as indicated on the drawing, as per specifications and Engineers approval. Brands:- A.G.M , Firat , Vesbo				
	(i) ¾" dia.	475	Rft.		
	(ii) 1" dia.	450	Rft.		
	(iii) 1¼" dia.	375	Rft.		
	(iv) 1½" dia.	200	Rft.		
	(v) 2" dia.	500	Rft.		
IRRIGATION WATER PIPING:					
2	Supply, installation Testing and Commissioning of PVC Schedule-40 pipes with Solvent Weld fittings per BS 3505, including pipe supports as indicated on the drawing, as per specifications and Engineers approval. Brands:- A.G.M , Firat , Vesbo				
	(ii) ¾" dia.	20	Rft.		
	(iii) 1" dia.	100	Rft.		
ISOLATION/GATE VALVE:					
3	Providing and fixing of brass (PPR coated) ball valves as indicated on the drawing and as specified in specifications Brands:- A.G.M , Firat , Vesbo				
	(i) ¾" dia.	2	Nos.		
	(ii) 1" dia.	3	Nos.		
	(iii) 1¼" dia.	4	Nos.		
	(iv) 1½" dia.	2	Nos.		
	(v) 2" dia.	2	Nos.		

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BATH ISLAND
PLUMBING WORKS**

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S.No	DESCRIPTION OF ITEM		QTY.	UNIT	RATE	AMOUNT
	(vi)	2" dia Swing type Non Return Valve	1	Nos.		



S.No	DESCRIPTION OF ITEM	QTY.	UNIT	RATE	AMOUNT
	3 STAGE UV FILTERS				
4	Supply and installation of Three stage UV filter of minimum 0.8 GPM flow for Kitchen Pantry with valves, piping, accessories, etc., as indicated on the drawing, as per specifications and Engineers approval. Brands:- Culligan, So-Safe, Penta pure	1	Nos		
	WATER GEYSERS				
	Supply and installation of Gas Fired water Geysers of below mentioned capacity including, Air relief valve, piping, fittings and other accessories, etc., complete all in accordance with the drawing and specifications. Brands:- Cannon, Singer, Ambassador				
5	GS-01 (40 Gallons)	2	Nos.		
	PUMPS				
	Supply and installation of below mentioned pumps including pump foundation, control panel, wiring, valves, piping, accessories, etc., as indicated on the drawing, as per specifications and Engineers approval. Brands : Grundfos, Wilo, Efaflu , Auror, Lowara				
6	Transfer Pump set (1 Duty), Flow = 30 GPM @ 80 ft head (2.0 Hp)	1	Nos.		
7	Booster Pump set (1 Duty), Flow = 25 GPM @ 70 ft head (1.0 Hp)	1	Nos.		
8	Booster Pump set (1 Duty), Flow = 30 GPM @ 58 ft head (1.5 Hp)	1	Nos.		
9	Recirculation Pumps Flow = 5 GPM @ 10 ft head (0.5 Hp)	1	Nos.		
Sub Total for Water Supply					



S.No	DESCRIPTION OF ITEM		QTY.	UNIT	RATE	AMOUNT
	SOIL SANITARY WASTE, VENT & RW PIPES:					
	SOIL, WASTE & VENT SYSTEM:					
1	Providing, fixing, Testing and commissioning of uPVC pipes					
	(i)	¾" dia.	650	Rft.		
	(ii)	2" dia	75	Rft.		
	(iii)	3" dia	550	Rft.		
	(iv)	4" dia	300	Rft.		
2	Providing, fixing, Testing and commissioning of uPVC pipes Class E and fittings as per EN 1401 for below grade installations for Soil 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:- Jeddah , DADEX , Galco					
	(i)	6" dia	400	Rft.		
	DRAINAGE SPECIALTIES					
3	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:- A.G.M , Nepro , Vesbo		41	Nos		
4	Providing and fixing UPVC vent cowl for pipe of the following dia including all accessories complete in all respects. Brands:- A.G.M , Nepro , Vesbo					
	(i)	3" dia	5	Nos.		
	(ii)	4" dia	5	Nos.		



S.No	DESCRIPTION OF ITEM	QTY.	UNIT	RATE	AMOUNT
	SOIL SANITARY WASTE, VENT & RW PIPES (CONT..)				
	MANHOLES, GULLY TRAPS AND CATCH BASINS				
6	Construction of 2'-6" x 2'-6" Sanitary sewage manhole with 2'-0"x 2'-0" Medium Duty (Min Weight = 45 kg) as specified and shown on the drawing, as per specifications and Engineers approval.	13	Nos.		
7	Construction of 2'-0" x 2'-0" Waste Water Manholes with 18"x18" Medium duty cover (Min Weight = 45 kg) as specified and shown on the drawing, as per specifications and Engineers approval.	8	Nos.		
7	Construction of 4" Wide and 5" Deep Cast Iron grating as specified and shown on the drawing, as per specifications and Engineers approval. Brands:- Super Alpine	45	Rft		
	Grease Interceptor				
8	Construction of 4'-0" x 2'-6" x 2'-6" Grease interceptor with two Compartments and 2 nos access covers of minimum 30 kg weight with 4" Vent pipe as specified and shown on the drawing, as per specifications and Engineers approval.	1	Job		
	EXTERNAL CONNECTION				
9	Sewage Connection to external Sewer network including piping required for connection, excavation works and other requirements as per engineers approval	1	Item		
Sub Total for Drainage					

S.No	DESCRIPTION OF ITEM	QTY.	UNIT	RATE	AMOUNT
	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:- Roca or equivalent.	8	Nos.		
2	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. (For driver & servants) Brands:- Porta or equivalent	3	Nos.		
3	Providing and fixing of counter type wash basin by Roca or Equivalent with mixer by Roca/Grohe, two (2) nos. Stop cocks with Flexible Connection , flexible drain pipe to floor drain as per drawings , specifications and engineers approval.	8	Nos.		
4	Providing and fixing of counter type wash basin by Porta or Equivalent with mixer by Master/Sonex, two (2) nos. Stop cocks with Flexible Connection , flexible drain pipe to floor drain as per drawings , specifications and engineers approval. (For driver & servants)	3	Nos.		
5	Providing and fixing first quality Bath Tub , with mixer & hand shower, two (2) nos. Stop cocks with Flexible Connection , flexible drain pipe to floor drain as per drawings, specifications and Engineers Approval. Brands:- Porta or equivalent.	3	Nos.		
6	Providing and fixing of kitchen Sink with waste trap, bib cock, Stop cocks, Flexible Connection as per drawings , specifications and engineers approval. Brands:- Sonex or equivalent.	3	Nos.		
7	Providing and fixing of Shower head with shower mixer and angle valves as per architectural fixture selection ,complete in all respect. Brands:- Roca, Grohe	6	Nos.		
8	Providing and fixing of Shower head with shower mixer and angle valves as per architectural fixture selection ,complete in all respect. Brands:- Sonex, Master	3	Nos.		
9	Providing and fixing bath toilet accessories as under:				
	(i) Toilet Paper Holder	8	Nos.		
	(ii) Soap Dish / Glass shelf	8	Nos.		

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S.No	DESCRIPTION OF ITEM		QTY.	UNIT	RATE	AMOUNT
	(iii)	Double Bib Cock with Hand Spray / Muslim shower by Roca / Grohe	8	Nos.		
	(iv)	Double Bib Cock with Hand Spray / Muslim shower by Master / Sonex	3	Nos.		



S.No	DESCRIPTION OF ITEM	QTY.	UNIT	RATE	AMOUNT
Sub Total for Fixtures					
NATURAL GAS					
GAS PIPING					
1	Providing and fixing of G.I (Heavy) pipe and fitting conforming to and approved by Local Gas Company standards to correct Lines, Levels and Grade, coating and wrapping including fixing and laying, fitting, valve, flanges, reducers, tees, sockets, bends, clamps, support, excavation works complete with testing and as per drawings, specifications and requirements of local gas company complete in all respects. Make: IIL or approved equivalent.				
	(i) ½" dia.	220	Rft.		
	(ii) ¾" dia.	300	Rft.		
STOP COCKS/BALL VALVES					
2	Providing and fixing brass ball valve with unsoldered copper ball conforming to API standards and approved by Local Gas Company.				
	(i) ½" dia.	6	Nos.		
	(ii) ¾" dia.	2	Nos.		
Sub Total for Gas Works					

S.No	DESCRIPTION OF ITEMS	QTY.	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	Wiring & Accessories				
1.1	Supply, installation & testing of following items, clipped to the surface or concealed in the building fabric, including all conduit & wiring accessories, as per drawings & instructions. Complete in all respect.				
a)	Wiring of light / fan point controlled by one switch with 3x1C-1.5 sq. mm PVC cables drawn in 20/25mm dia PVC conduits, including 1.5 mm, powder coated MS back box and gang switches. Make: (1). Cables: Pakistan Cables Ltd / Pioneer Cables Ltd. (2). PVC Conduits & accessories: Jeddah / Galco. (3). Switches & sockets: Clipsal E-Series	295	Nos		
b)	Wiring of light point to light point with 3x1C-1.5 sq.mm PVC cables drawn in 20/25mm dia PVC conduits.	140	Nos		
c)	Wiring of light point to light point with 3x1C-2.5 sq.mm PVC cables drawn in 20/25mm dia PVC conduits.	40	Nos		
d)	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.	3	Nos		
e)	Wiring of call bell point controlled by push button with 3x1C-1.5 sq.mm PVC cables drawn in 20mm dia PVC conduits.	3	Nos		
f)	Wiring of light circuits from DB to switch board(s) with 3x1C-2.5 sq.mm PVC cables drawn in 20 mm dia PVC conduits, including termination & labelling at both ends.	80	Nos		
g)	Wiring for power circuits from DB to A/C with 3x1C-4 sqmm PVC cables in 20 mm dia PVC conduit, including termination & labelling at both ends.	16	Nos		
h)	Wiring for power circuits from DB to A/C with 3x1C-6 sqmm PVC cables in 20 mm dia PVC conduit, including termination & labelling at both ends.	5	Nos		

S.No	DESCRIPTION OF ITEMS	QTY.	UNIT	RATE (Rs.)	AMOUNT (Rs.)
i)	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).	150	Nos		
j)	Wiring of SSO to SSO with 3x1C-1.5 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).	13	Nos		
1.2	Supply & Installation of following Switch Socket Outlets (SSO) on 16 SWG M.S powder coated boxes.				
a)	5 Amp 2 Pin SSO. Make: Legrand / Clipsal	10	Nos		
b)	5 Amp Multi SSO. Make: Legrand / Clipsal	175	Nos		
c)	13 Amp Flat Pin SSO. Make: Legrand / Clipsal	4	Nos		
d)	15 Amp 3Pin SSO. Make: Legrand / Clipsal	13	Nos		
e)	16 Amp Shoko socket Make: Legrand / Clipsal	13	Nos		
f)	Fan dimmer Make: Legrand / Clipsal	38	Nos		
g)	32A DP safety breaker in metal enclosre. Make: Kawamora	21	Nos		
Sub Total of Wiring & Accessories Rs.					
2	Light & Fan Fixtures				
2.1	Supply & Installation of following light fixtures complete with lamps, holders etc including hangers, supports & all mounting / fixing accessories, complete in all respect. All LED lights should be 2 years warrenty.				
a)	Smart surface panel light fixture with 1x18 watts LED lamp. Make: Osaka or Equivalent	35	Nos		
b)	Street light fixture with 1x100 watts LED lamp including 5mtr G.I Pipe for light fixing. Make: Osaka or Equivalent	2	Nos		
c)	Flood light fixture with 1x50 watts LED lamp Make: Osaka or Equivalent	8	Nos		
d)	Flourecent light fixture with 1x18 watts LED lamp. Make: Osaka or Equivalent	8	Nos		
e)	Fancy Wall light fixture with 2x7w LED lamps . Make: SE or Equivalent (Light cost Rs.3000)	76	Nos		
f)	Fancy Wall light fixture with 1x7w LED lamps . Make: SE or Equivalent (Light cost Rs.1500)	15	Nos		

S.No	DESCRIPTION OF ITEMS	QTY.	UNIT	RATE (Rs.)	AMOUNT (Rs.)
g)	Track light fixture with 2x15w LED lamps . Make: SE or Osaka (Light cost Rs.7000)	13	Nos		
h)	Fancy Ceiling light fixture with 1x18w LED lamps . Make: SE or Equivalent (Light cost Rs.3000)	190	Nos		
i)	Bulk head light with 20w LED lamps . Make: SE or Equivalent	46	Nos		
j)	Chandelier light with 12x5w LED lamps . (Light cost Rs.10000)	6	Nos		
k)	Water proof light fixture with 18w LED lamps IP-65. Make: SE or Equivalent (Light cost Rs.4000)	25	Nos		
l)	Mirror light with 2x3w LED lamps . Make: SE or Equivalent (Light cost Rs.2500)	8	Nos		
m)	Gate light with 20w LED lamps . Make: SE or Equivalent (Light cost Rs.4000)	2	Nos		
n)	Exhaust fan 8" dia Plastic Body Make: Pak / Royal fan	11	Nos		
o)	Exhaust fan 12" dia Metal Body including cutting & making hole for exhaust fan fixing Make: Pak / Royal fan	3	Nos		
p)	Box type circomatic fan 24" dia Plastic Body Make: Pak / Veldon fan	8	Nos		
q)	Ceiling fan 56" dia Deluxe model Make : Pak / Royal	38	Nos		
r)	Call Bell Make: Noktyle	3	Nos		
	Sub Total of Light & Fan Fixtures Rs.				
3	Race ways				
3.1	Supply & Installation of following sizes of conduits with all accessories, clipped to the surface or concealed in building fabric or to be laid in floor including cutting /excavation & back filling, as per details giving in drawing complete in all respect.				
a)	PVC pipe 100 mm dia	50	Mtr		
b)	PVC pipe 75 mm dia	75	Mtr		
c)	PVC pipe 50 mm dia	20	Mtr		
d)	PVC pipe 38 mm dia	30	Mtr		
e)	PVC pipe 25 mm dia	100	Mtr		
3.2	Construction of Main Hole 600 x 600 x 600 with Block masonry, Plastered inside & outside,MS Heavy Duty Main hole cover complete as per site requirements.	5	Nos		
	Sub Total of Race ways Rs.				



S.No	DESCRIPTION OF ITEMS	QTY.	UNIT	RATE (Rs.)	AMOUNT (Rs.)
4)	L.V. Switchgear				
4.1	Supply, installation, testing & commissioning of following factory assembled, pre-wired panel / distribution boards, concealed in wall or surface mounted, 1.5 mm MS sheet steel fabricated, 120 microns powder coated, suitable for 500 volts, 3phase, 4wires, 50Hz, incorporate following components and configration, complete with all mounting & connecting accessories as per drawings. Make: (1). Manufacturer: Uneeqe Engineering / Engineers & Engineering . (2). Circuit breakers: Terasaki / ABB. (3). Indication lamps: Camsco. (4). Control Fuse: Camsco. (5) selector				

S.No	DESCRIPTION OF ITEMS	QTY.	UNIT	RATE (Rs.)	AMOUNT (Rs.)
a)	DISTRIBUTION BOARD -G-1	1	No		
b)	DISTRIBUTION BOARD-G-2	1	No		
c)	DISTRIBUTION BOARD -G-3	1	No		
d)	DISTRIBUTION BOARD -F	1	No		
e)	DISTRIBUTION BOARD -Main	1	No		
f)	DISTRIBUTION BOARD -4 Pole ATS with all European components	2	No		
Sub Total of L.V. Switchgear Rs.					
5	Main / Sub-main Feeders				
5.1	Supply, installation & termination at both ends of following main/sub-main cables in already installed Pipes complete as per site requirements				
a)	1x25 mm sq 4core PVC/PVC Cable +1x25 mm sq 1 core PVC Cable.	150	Mtr		
b)	1x35 mm sq 4core PVC/PVC Cable+2x16mm sq 1 core PVC Cable.	10	Mtr		
c)	1x50 mm sq 4core PVC/PVC Cable+2x25mm sq 1 core PVC Cable.	30	Mtr		
d)	1x6 mm sq 4core PVC/PVC Cable+1x6mm sq 1 core PVC Cable.	30	Mtr		
e)	2x70 mm sq 1core PVC/PVC Cable	30	Mtr		
Sub Total of Main / Sub-main Feeder Rs.					
6	Voice System				
6.1	Supply & pulling of Voice cables in PVC Pipe, including labeling at both ends as per drawings. Make: Clipsal / 3M				
a)	10 Pair x 0.6 mm sq telephone Cable in 38 mm dia PVC Pipe	100	Mtrs		
b)	Cat-5e UTP Cable in 20/25 mm dia PVC Pipe for telephone / Intercom	23	Nos		
6.2	Supply, installation and connecting of telephone Junction box 1.5 mm MS sheet steel fabricated, 120 micron powder coated, surface mounted or concealed in wall with locking arrangements and comprising with 1x10 pairs tag blocks. Make: Korne / Clipsal.	2	Nos		

S.No	DESCRIPTION OF ITEMS	QTY.	UNIT	RATE (Rs.)	AMOUNT (Rs.)
6.3	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 3x10 pairs tag blocks. Make: Korne / Clipsal.	1	Nos		
6.4	Supply, installation and connecting of Gate intercom. Make: A.I Phone.	1	Set		
6.5	Supply, installation and connecting of 3+16 lines Digital PABX system with operator console and battery backup. Make: Panasonic.	1	Set		
6.6	Supply, installation and connecting of Telephone set. Make: Panasonic	21	Nos		
Sub Total of Voice System Rs.					
7	Cable TV / CCTV system				
7.1	Supply, pulling & testing of following CCTV wiring in 20mm dia PVC Pipe including labelling at both ends. Make: Fast / Pakistan cables.				
a)	Co-axial cable double shielded RG-6 B/U	30	Nos		
b)	RG-6 Socket outlet on 1.5 mm powder coated MS back box.	30	Nos		
c)	Cable Junction Box 300x250x100 mm made of 1.5 mm sheet steel, powder coated with locking arrangement.	1	Nos		
7.2	Supply, Installation, Testing, Commissioning, Training & Programming of following CCTV System. : Make: Samsung or Equivalent				
a)	External wall mounted 1/3" , Resolution: 1920* 1080@30fps, Support Onvif 2.2, IR Metal camera 2.8-12mm vari-focal lens,36pcs Φ5 IR LED, IR:30m, white color, Neutral, PAL.	9	Nos		
b)	Internal wall mounted 1/3" , Resolution: 1920* 1080@30fps, Support Onvif 2.2, IR Metal camera 2.8-12mm vari-focal lens,36pcs Φ5 IR LED, IR:30m, white color, Neutral, PAL.	4	Nos		
c)	Digital Video Recorder: 16 Channel	1	Nos		
d)	LCD Monitor: 17-inch Wide High Resolution LCD	2	Nos		



S.No	DESCRIPTION OF ITEMS	QTY.	UNIT	RATE (Rs.)	AMOUNT (Rs.)
e)	LAN SWITCH Ethernet.	1	Nos		
Sub Total of Cable TV & CCTV system Rs.					
8	Earthing System				
8.1	Providing and Installing of GREEN EARTH TECHNOLOGY SYSTEM, comprising of : 25 mm x 3 m, copper electrode, filled with soil conditioning chemical compound. Boring 6" dia x 11 feet. Earth Conductivity Enhancement Compound – Primary Earth Conductivity Enhancement Compound – Secondary One set of brass nut / bolt size 3/8" x 1.5", washer etc.	4	Nos		
8.2	Providing, fixing & connecting 300mm x 50mm x 5mm Earth test terminal with brass nuts bolts & washer as per drawing.	4	Nos		
Sub Total of Earthing System Rs.					



S.No	DESCRIPTION OF ITEMS	QTY.	UNIT	RATE (Rs.)	AMOUNT (Rs.)
9	Air-Conditioning				
9.1	Installation, installation , testing & commisiong of following inverter base wall mounted split A/C units. Make: Gree / Haier				
a)	2.0 tonne Wall mounted type.	5	Nos		
b)	1.5 tonne Wall mounted type.	16	Nos		
9.2	Supply, installation & testing of refrigerant piping (1/2" +1/4") with rubber foam instullation, protected with tape. 4core Control wiring in 20mm dia PVC pipe, complete in all respect. Make: Muller USA	300	Mtr		
9.3	Supply, installation & testing of refrigerant piping (5/8" +3/8") with rubber foam instullation, protected with tape. 4core Control wiring in 20mm dia PVC pipe, complete in all respect. Make: Muller USA	100	Mtr		
9.4	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.	21	Nos		
Sub Total of Air Conditioning					