

**CONSTRUCTION OF GIRLS HOSTEL AT ICCBS,
UNIVERSITY OF KARACHI**

SUMMARY OF COST

S #	SUB HEAD	TOTAL AMOUNT
	BUILDING WORK	
1	Cost of Civil Work (Scheduled Items) (Page No. 02 - 15)	Rs=
2	Cost of Civil Work (Non-Scheduled Items) (Page No. 16 - 21)	Rs=
	(A)	Rs=
	PLUMBING WORK	
5	Cost of Plumbing Work (Scheduled Items) (Page No. 22 - 26)	Rs=
6	Cost of Plumbing Work (Non-Scheduled Items) (Page No. 27 - 29)	Rs=
	(B)	Rs=
	ELECTRICAL WORK	
7	Cost of Electrical Work (Scheduled Items) (Page No. 30 - 40)	Rs=
8	Cost of Electrical Work (Non-Scheduled Items) (Page No. 41 - 47)	Rs=
	(C)	Rs=
Total Cost of Work (A+B+C)		Rs=

CONSTRUCTION OF GIRLS HOSTEL, ICCBS,
UNIVERSITY OF KARACHI
BILL OF QUANTITIES

Pak. P.W.D SCHEDULE 2012 (CIVIL WORKS)

S #	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT
1	CLEARING OF SITE Clearing jungle (dense) by cutting, removing all shrubs, trees, upto 6 inches (152 mm) girth, etc. and taking out their entire roots and filling the hollows with earth complete with dressing, consolidating and watering the filling including stacking the serviceable materials and disposal of useless materials as directed, lead upto 10 chains (305 Rm), cost of earth included. (Page No. 11/2)	49,700.00	Sft%	109.55	54446.35
2	Cutting to a required gradient in gravelly soil and and filling the excavated stuff in 6 inches (152 mm) layers in depressions where required or disposing the same complete with levelling, dressing, watering the filling and consolidation etc. as required, lead upto one chain (30.5 Rm) average, and lift upto 5 feet (1.52 m). (Page No. 11/8+12/19)	49,700.00	Cft%	791.62	393,435.14
3	EXCAVATION FOR FOUNDATION				
a	Excavation for foundations and drains in all kinds of soil (except gravelly and murum soil wet silt, clay or mud, conglomeration of gravel and boulders, soft, sandy or disintegrated and hard rock) and back filling the excavated material all round the trenches including breaking clods, watering, consolidation by ramming in layers not exceeding 9 inches in depth to full compaction, dressing and disposal of surplus excavated stuff as directed, lead up to one chain and lift upto 5 feet (Page No. 17/01)	30,200.00	Cft%	535.09	161,597.18
b	Lift From 5 Feet. To 8 feet. (Page No. 17/01+20/28)	100.00	Cft%	612.44	612.44
4	HARD ROCK Excavation for foundations and drains in strata of conglomeration gravel and boulders by hammering. Chiselling and jumper work including stacking if serviceable and unserviceable materials separately , lead upto one chain (30.5 R.m) and lift upto 5 feet (1.52m) Page # 17/05	500.00	Cft%	2,410.85	12,054.25
5	DEWATERING Bailing or pumping out sub-soil water during excavation, concreting, cast in situ concrete or masonry work in foundation etc. (only three operations to be allowed, trench volume under water to be measured first time for excavation, second time for concreting, and third time for cast in situ concrete or masonry work in foundation etc., (Page No. 21/40)	1,000.00	Cft%	298.35	2,983.50

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6	EARTH FILLING MURUM Supplying, stacking and spreading murum from approved quarries to required slop including consolidation by ramming and watering etc complete (26/10)	9,000.00	Cft%	2,634.21	237,078.90
a	Filling excavated earth available at site in foundation, plinth or underfloor, etc. including breaking clods, dressing, watering, consolidation by ramming in layers not exceeding 9" (229 mm) in depth to full compaction complete within lead of one chain (30.5 r.m) and lift 5 feet (1.25m) (25/01)	12,000.00	Cft%	242.29	29,074.80
7	STONE SOLING Providing and laying soling stones 6 inches to 9 inches size under floors including packing with spawls and chips and consolidating etc. complete. (Page No. 190/1)	9,500.00	Cft%	3,251.34	308,877.30
8	C.C. 1:4:8 WITH SR CEMENT Providing and laying 1:4:8 (1 cement 4 sand and 8 coarse aggregate) cement concrete using graded stone ballast 2 inches and down gauge in foundation including leveling, compacting and curing etc. complete. (Page No. 29/13+157/154)	3,200.00	Cft%	10,638.44	340,430.08
9	SUB FLOORING 1:4:8 Providing and laying 1:4:8 cement concrete bed under floors using graded stone ballast 2 inches (51 mm) and down gauge with leveling, ramming, watering and curing etc. complete. (Page No. 190/2)	4,600.00	Cft%	10,315.56	474,515.76
10	SITU 1:3:6 Providing and laying in situ 1:3:6 (1 cement 3 sand and 6 coarse aggregate) cement concrete in walls more than 6" in thickness in superstructure using Screened Graded Bajri 3/4" and down gauge including form work, compacting, curing and removal of form work etc. complete ground Floor (Page No. 53/2+157/154)	1,200.00	Cft%	17,399.59	208,795.08

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S #	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT
11	DAMP PROOF COURSE Providing and laying 2 inches (51 mm) thick damp proof course with cement concrete 1:2:4 cast in situ using graded screened bajri of 3/4 inch (19 mm) and down gauge mixed with any approved water proofing agent including compacting, curing form work and its removal etc. complete, but excluding the cost of water proofing agent. (Page No. 47/3)	1,350.00	Sft%	2,659.79	35,907.17
12	COLUMN FOUNDATION SRC Providing and laying reinforced with SR cement concrete using crush graded boulders 3/4 inch and down gauge having a minimum works cube crushing strength of 3000 lbs. per sq inch at 28 days with a mix not leaner than 1:2:4 in column footing of required shape including form work and its removal, compacting, leveling and curing etc. complete but excluding the cost of reinforcement, in foundation basement and plinth. (Page No. 135/1+157/154+156/136)	5,800.00	Cft%	17,916.28	1,039,144.24
13	PLINTH BEAMS Providing and laying reinforced cement concrete using crush graded boulders 3/4 inch (19 mm) and down gauge having a minimum works cube crushing strength of 3000 lbs. per sq inch (23.24 N/mm ²) at 28 days with a mix not leaner than 1:2:4 in plinth beams of required shape and design including form work and its removal, compacting and curing etc. but excluding the cost of reinforcement, in foundation basement and plinth. (Page No. 136/8+156/136)	1,800.00	Cft%	18,172.93	327,112.74
14	BITUMEN COATING Providing a coat of bitumen emulsion at 10 Lbs. per % Sft(0.49 Kg/sm) on walls and floor in groundfloor. (Page 48/12)	16,000.00	Sft%	684.08	109,452.80

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Pak. P.W.D SCHEDULE 2012 (CIVIL WORKS)

S #	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT
15	R.C.C. COLUMNS IN SUPER STRUCTURE Providing and laying reinforced cement concrete using crush graded boulders 3/4 inch and down gauge having a minimum works cube crushing strength of 3750 lbs. per sq inch and 28 days with a mix not leaner than 1:1½:3 in columns of square or rectangular shape of regular section including form work and its removal, compacting and curing etc. but excluding the cost of reinforcement, in the				
a	Ground floor. (Page No. 138/24+156/136+137)	2,900.00	Cft%	23,282.95	675,205.55
b	1st floor. (Page No. 138/24+156/136+137+150/92)	1,100.00	Cft%	24,232.15	266,553.65
c	Stair Tower	150.00	Cft%	24,232.15	36,348.23
d	Emergency Stair	300.00	Cft%	24,232.15	72,696.45
16	R.C.C. BEAMS & LINTELS Providing and laying reinforced cement concrete using crush graded boulders 3/4 inch and down gauge having a minimum works cube crushing strength of 3000 lbs. Per sq inch at 28 days with a mix not leaner than 1:2:4 in straight beams, lintels cantilever beams of required shape or section including form work and its removal, compacting and curing etc. complete but excluding the cost of reinforcement, in				
a	Ground floor. (Page No. 141/38+156/136)	2,800.00	Cft%	20,668.60	578,720.80
b	1st floor. (Page No. 141/38+150/92+156/136)	2,400.00	Cft%	21,617.80	518,827.20
c	Stair Tower	400.00	Cft%	21,617.80	86,471.20
17	R.C.C. LIFT WALLS Providing and laying reinforced cement concrete using crush graded boulders 3/4 inch and down gauge having a minimum works cube crushing strength of 3750 lbs. per sq inch at 28 days with a mix not leaner than 1:1½:3 in straight walls more than 6" thick including form work and its removal, compacting and curing etc. but excluding the cost of reinforcement in foundation basement and plinth.				
a	Ground Floor (Page No. 139/30+156/136+137)	400.00	Cft%	21,586.18	86,344.72
b	1st Floor (Page No. 139/30+156/136+137+150/92)	260.00	Cft%	22,535.38	58,591.99
c	Lift Tower	170.00	Cft%	22,535.38	38,310.15

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S #	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT
18	COPING AND CORNICE OF WALLS Providing and laying reinforced cement concrete using crush graded boulders 3/4 inch (19 mm) and down gauge having a minimum works cube crushing strength of 3000 lbs. per sq inch (23.24 N/mm ²) at 28 days with a mix not leaner than 1:2:4 in in coping and cornice of walls moulded to design including form work and its removal, compacting and curing etc. but excluding the cost of reinforcement, in ground floor. (Page No. 148/82+156/136)	100.00	Cft%	24,175.74	24,175.74
19	R.C.C. STAIRS Providing and laying reinforced cement concrete using crush graded boulders 3/4 inch and down gauge having a minimum works cube crushing strength of 3000 lbs. per sq inch at 28 days with a mix not leaner than 1:2:4 in straight stairs and landing of required section including form work and its removal, compacting and curing etc. complete but excluding the cost of reinforcement, in basement plinth and				
a	Ground Floor. (Page No. 143/50+156/136)	200.00	Cft%	25,989.63	51,979.26
b	1st floor. (Page No. 143/50+150/92+156/136)	200.00	Cft%	26,938.83	53,877.66
c	Emergency Stair	800.00	Cft%	26,938.83	215,510.64
20	R.C.C. CANTILEVERED SLABS Providing and laying reinforced cement concrete using crush graded boulders 3/4 inch and down gauge having a minimum works cube crushing strength of 3000 lbs. per sq inch at 28 days with a mix not leaner than 1:2:4 in ordinary cantilevered slab , horizontal sun-shade or chajja tapered or straight average 5" (127mm) to 6" (152mm) thick including form work and its removal, compacting and curing etc. complete but excluding the cost of reinforcement, in basement plinth				
a	Ground floor (Page No. 145/60+156/136)	300.00	Cft%	21,732.85	65,198.55
b	1st floor. (Page No. 145/60+150/92+156/136)	300.00	Cft%	22,682.05	68,046.15

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21	R.C.C. SLABS Providing and laying reinforced cement concrete using crush graded boulders 3/4 inch (19 mm) and down gauge having a minimum works cube crushing strength of 3000 lbs. per sq inch (23.24 N/mm ²) at 28 days with a mix not leaner than 1:2:4 in ordinary slab 5" to 6" including form work and its removal compacting and curing etc. complete but excluding the cost of reinforcement, in basement plinth				
a	Ground floor. (Page No. 144/56+156/136)	5,400.00	Cft%	20,143.93	1,087,772.22
b	1st floor. (Page No. 144/55+150/92+156/136)	4,400.00	Cft%	21,093.19	928,100.36
c	Stair Tower	150.00	Cft%	21,093.19	31,639.79
22	STEEL REINFORCEMENT Providing and laying cold worked twisted ribbed steel reinforced bars with minimum yield stress of 60,000 PSI with and including the cost of straightening, cutting, bending, binding, wastage, complete in all kinds of RCC Work...Page 159/168...				
		140,000.00	Per Kg	110.89	15,524,600.00
a	Extra for 1st Floor 160/171 including stair tower and emergency stair	48,000.00	Per Kg	1.45	69,600.00
23	BLOCK MASONRY 4" TO 6" Providing and laying 1:3:6 cement concrete solid block masonry machine made 4 to 6 inches (102 mm to 152 mm) thick using graded screened bajri 3/4 inch (19 mm) and down gauge set in lime cement mortar 1:1:6 including scaffolding, raking out joints and curing etc. complete in ground floor superstructure.				
a	Ground Floor (Page No. 77/44+81/92+82/100)	600.00	Cft%	15,933.28	95,599.68
b	1st floor. (Page No. 77/44+80/70+81/92+82/100)	400.00	Cft%	16,757.05	67,028.20
c	Stair Tower	100.00	Cft%	16,757.05	16,757.05

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S #	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT
24	BLOCK MASONRY MORE THAN 6" Providing and laying 1:3:6 cement concrete solid block masonry machine made more than 6 inches (152 mm) thick using graded screened bajri 3/4 inch (19 mm) and down gauge set in lime cement mortar 1:6 including scaffolding, raking out joints and curing etc. complete in. ground floor superstructure.				
a	Gound Floor (Page No. 76/34+81/92+82/100)	10,000.00	Cft%	15,075.78	1,507,578.00
b	1st floor. (Page No. 76/34+80/70+81/92+82/100)	8,900.00	Cft%	15,899.55	1,415,059.95
c	Stair Tower	1,000.00	Cft%	15,899.55	158,995.50
d	Emergency Stair	1,500.00	Cft%	15,899.55	238,493.25
25	CEILING / WALL PLASTER ½" (13 mm) thick cement plaster 1:3 on ceiling, walls and columns etc., in basement, plint ground floor including making edges, corners and curing etc. complete. 320/3				
a	Ground Floor (Page No. 320/3)	32,800.00	Sft%	2,083.60	683,420.80
b	1st floor (Page No. 320/2+327/87)	32,000.00	Sft%	2,237.47	715,990.40
c	Stair Tower	4,500.00	Sft%	2,237.47	100,686.15
d	Emergency Stair	1,800.00	Sft%	2,237.47	40,274.46
26	EXTERNAL WALLS PLASTER 3/4" inch thick CEMENT PLASTER 1:6 ON WALLS and column etc. in basement plinth mezzanine and ground floor including making edges corners and curing etc. complete.				
a	Ground Floor (Page No. 320/10)	12,000.00	Sft%	2,094.03	251,283.60
b	1st floor (Page No. 320/10+327/87)	11,550.00	Sft%	2,247.90	259,632.45
c	Stair Tower/ Parapit Wall, Emergency Stair	5,600.00	Sft%	2,247.90	125,882.40
27	VENEERED DOOR SHUTTER Providing and fixing 1-1/2 inches thick solid core deodar wood flushed veneered door shutter with and including the cost of commercial ply wood facing 3mm thick 3 ply on both sides, fixed over best quality deodar wood frame 2 inches wide around 6 inches wide lock rail and 2nd class deodar wood solid core, i/c 1/4 inch thick best quality deodar wood lipping on all sides as per approved drawing, manufactured under power driven hydraulic press, including the cost of approved iron fittings but excluding the cost of handles and locking arrangement. Page 265/61a)	2,300.00	Sft	571.68	1,314,864.00

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S #	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT
28	ALUMINUM WINDOW/ VENTILATOR Providing and fixing fully glazed Bronze anodized aluminium Sliding windows as per British standard manufactured by Lucky, Alcop, Krusdon, Pakistan cable and A.C.P. (fixing through their approved fabricators), Executive model section double or single glazed 101mm x 37 mm and 1.6 mm thick including the cost of aluminum netting, fittings, with all accessories cutting hole etc and making good damages to walls etc. complete as required in any floor as per direction of engineer-in-charge but excluding the cost of glass panes. (Page No. 245/71)including stair tower	2,400.00	Sft	683.72	1,640,928.00
29	IRON GRILL Providing and fixing M.S.Square Bars at required. Spacing with horizontal flat iron as per approved design, i/c making holes, fixing, with sunk iron screws. Two coats of red oxide paint etc. Complete required in any floor (Page No. 239/34)	7,000.00	Kg	141.80	992,600.00
30	M.S. DOOR FRAME 5.73" x 2½" Providing and M.S. moulded steel door frame of 5.73" x 2½" manufactured from mild steel sheet of 18 gauge conforming to BSS. 1245 having a single rebate size 1½" ½" with provision of 3 Nos. M.S. plate, section 1½" x ¼" (2 Nos 6 inch long welded with frame at not less than 10 points and 1 No; 12 inch long welded with frame at not less than 20 points), with holes and threads for fixing steel hinges, fitted with one locking box of same sheet (point welded inside the frame), 6 Nos 6 inches long flat iron fixing lugs, of 1¼" x 3/16" section, treated with special red oxide primer coat all round including cutting holes and filling the cavity with cement concrete 1:2:4 etc. in any floor at any height complete as directed by the Engineer-in-Charge. (Page No. 240/44)	1,060.00	Rft	185.34	196,460.40

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31	M.S. DOOR FRAME 4" x 2½" Providing and M.S. moulded steel door frame of 4" x 2½" manufactured from mild steel sheet of 18 gauge conforming to BSS. 1245 having a single rebate size 1½" x ½" with provision of 3 Nos. M.S. plate, section 1½" x ¼" (2 Nos 6 inch long welded with frame at not less than 10 points and 1 No; 12 inch long welded with frame at not less than 20 points), with holes and threads for fixing steel hinges, fitted with one locking box of same sheet (point welded inside the frame), 6 Nos 6 inches long flat iron fixing lugs, of 1¼" x 3/16" section, treated with special red oxide primer coat all round including cutting holes and filling the cavity with cement concrete 1:2:4 etc. in any floor at any height complete as directed by the Engineer-in-Charge. (Page No. 240/43)	650.00	Rft	157.12	102,128.00
32	VINYL DISTEMPERING Distempering with vinyl distemper (ICI) Deluxe Painted of approved make and shade in two coats over and including the cost of one priming coat of lime wash including sand papering, dusting, and filling the holes, cracks and inequalities, at any height in any floor. Page No. 333/151) including Stair Tower & Emergency Stair	19,200.00	Sft%	1,053.54	202,279.68
33	WEATHER SHIELD PAINT Painting three coats with weather shield paint deluxe (ICI) make of approved shade on plaster surface (External and including the cost of cleaning the surface, sand papering etc. complete at any height in any floor. (Page No. 334/172) including Stair Tower & Emergency Stair	7,000.00	Sft%	1,406.88	98,481.60
34	PAINTING IRON WORK Painting iron work with synthetic enamel paint of approved make and shade two coats over and including the cost of one priming coat complete at any height in any floor. (Page No. 333/159) including Stair Tower & Emergency Stair	2,600.00	Sft%	2,776.62	72,192.12

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35	PAINTING WOOD WORK Painting wood work with synthetic enamel paint of approved make and shade two coats over and including the cost of one priming cost complete at any height in any floor. (Page No. 333/160) including Stair Tower & Emergency Stair	4,600.00	Sft%	2,585.22	118,920.12
36	COLOUR GLAZED TILE FLOORING Providing and laying floor of 6mm (approx:¼") thick Colour Glazed Tiles 12"x12" (304mm x 304mm) of master make (Pakistani) first grade in ground floor laid over 1" (25mm) thick cement mortar 1:2 (1 cement and 2 sand) including joints and washing the tile with white cement slurry and curing etc. complete Ground Floor (196/63)	800.00	Sft%	18,359.60	146,876.80
a	First Floor (196/63+197/60)	700.00	Sft%	18,554.73	129,883.11
37	COLOUR GLAZED TILE DADO & SKIRTING Providing & Fixing ¼"(6mm approx.) thick if Pakistani make first grade Colour Glazed Tiles 8"x10" (203mm x 254mm) size in dado and skirting in ground floor over ½" (13mm) thick base of cement mortar 1:3 setting of tiles in slurry of grey cement over mortar base including filling the jointd with white cement and washing the tiles ,curing and cleaning etc. complete Ground Floor (218/49)	3,500.00	Sft%	9,914.62	347,011.70
a	First Floor (218/49+51)	2,500.00	Sft%	10,210.10	255,252.50
38	WOODEN BEADING Providing and fixing on frames etc. with sunken iron screws best quality deodar wood molding beading, architrave etc. of approved design over one sq.inch. (6.45 Sq.m) in cross section as required. (Page No. 284/230)	2,000.00	Rft	70.68	141,360.00
39	ALUMINIUM SHEET ON BATHROOM DOORS Providing & fixing aluminium sheet of 22 gauge (1.15mm thick) on wooden surface with sunken aluminium screw of required size as per direction of Engineer-in-Charge. (Page No.357/30)	200.00	Sft	225.13	45,026.00

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40	TINTED GLASS Providing and fixing Tinted Glass panes 5 mm thick to M.S. Box pipe / Aluminum door's windows and ventilators etc including the cost of labour but excluding the cost of M.S square pipe beading, rubber, packing and screw in any floor at any height. (Page No. 254/120)	2,500.00	Sft	106.11	265,275.00
41	PLAIN GLASS Providing and fixing Plain Glass panes 5mm thick to M.S. Box Pipe / Aluminium doors, windows and ventilators etc including the cost of labours but excluding the cost of M.S square pipe beading, rubber packing and screw in any floor at any height (Page No. 254/119)	100.00	Sft	88.91	8,891.00
42	BATHROOM DOOR LOCK Providing and fixing with brass screws Alpha knob set bath latch of approved design No. 8000 Japan make, cutting wood to required shape and size with two operating keys as per direction of the Engineer-in-Charge. (Page No. 303/77) including First Floor	36	Each	2376.86	85,566.96
43	ROOM DOOR LOCK Providing and fixing with brass screws Alpha knob set lock of approved design (No. 7000), Japan making, cutting wood to required shape and size with two operating keys as per direction of the Engineer-in-Charge. (Page No. 303/76) including First Floor	60	Each	2531.56	151,893.60
44	HYDRAULIC DOOR CLOSER Providing and fixing with brass screws or specially supplied screws hydraulic door closer of approved design No. 72, Japan make, cutting wood etc., to required shape and size as per direction of the engineer-in-charge. (Page No. 303/70) including First Floor & Stair Tower	8	Each	2,420.50	19,364.00
45	DRIP COURSE Making drip course ½" x ¾" (13mm x9.5mm) size under R.C.C or C.C coping and chajja etc, complete in all floors including cost of extra cement mortarar 1:3 and curing etc complete (Page 322/25)	900	Rft%	630.14	5,671.26

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46	PLASTER BAND Making 1/2" thick plaster band 4" to 6" wide with 1:4 cement mortar in all floors including curing etc. complete (Page No. 322/26)	260	Rft%	1,545.14	4,017.36
47	ALUMINIUM SWING DOOR Providing and fixing fully glazed Champagne anodized aluminium Swing door with top and bottom frame only as per British standard manufactured by Luckh, Alcop, Krudson, Pakistan Cables and A.C.P. (fixing through their approved fabricators), Deluxe model section, 101.6mm x 44.5mm and 2mm thick including the aluminium fittings, with all accessories cutting hole etc. and making good damages to walls etc. complete as required in any floor including the cost of glass pans 12 mm as per direction of engineer-in-charge. (Page 248/88)	104.00	Per Sft	450.24	46,824.96
48	PLINTH PROTECTION Excavation for foundations and drains in all kinds of soil (except gravelly and murum soil wet silt, clay or mud, conglomeration of gravel and boulders, soft, sandy or disintegrated and hard rock) and back filling the excavated material all round the trenches including breaking clods, watering, consolidation by ramming in layers not exceeding 9 inches in depth to full compaction, dressing and disposal of surplus excavated stuff as directed, lead up to one chain and lift upto 5 feet(Page No. 17/01)	2,600.00	Cft%	535.09	13,912.34
49	Providing and laying 1:4:8 (1 cement 4 sand and 8 coarse aggregate) cement concrete using graded stone ballast 2 inches and down gauge in foundation including leveling, compacting and curing etc. complete. (Page No. 29/13+36c/64)	650.00	Cft%	10,638.44	69,149.86
50	STONE SOLING Providing and laying soling stones 6 inches to 9 inches size under floors including packing with spawls and chips and consolidating etc. complete. (Page No. 190/1)	970.00	Cft%	3,251.34	31,538.00

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S #	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT
51	EARTH FILLING PLINTH PROTECTION Supplying earth from approved outside sources within a radius of 5 miles (8 km) including digging, loading and unloading and filling in foundation trenches, plinth or under floor, etc. including breaking clods, dressing, watering and consolidation by ramming in layers not exceeding 9 inches (229 mm) in depth to full compaction complete within a ;lead of one chain (30.5 R.m) and lift of 5 feet (1.52 m). Ground Floor (Page No. 25/8)	1,950.00	Cft%	2,467.50	48,116.25
52	SITU 1:3:6 Providing and laying in situ 1:3:6 (1 cement 3 sand and 6 coarse aggregate) cement concrete in walls more than 6" in thickness in superstructure using Screened Graded Bajri 3/4" and down gauge including form work, compacting, curing and removal of form work etc. complete ground Floor (Page No. 53/2+157/154)	1,700.00	Cft%	17,399.59	295,793.03
53	SUB FLOORING 1:4:8 Providing and laying 1:4:8 cement concrete bed under florr using fraded stone ballast 2 inches (51 mm) and down gauge with leveling, ramming, watering and curing etc. complete. (Page No. 190/2)	490.00	Cft%	10,315.56	50,546.24
54	SPIRIT POLISH Applying French or spirit polishing, two coat of approved make on wood work at any height in any floor (Page No. 336/ 89)	100.00	Sft%	1,878.96	1,878.96
55	FINISH FLOOR Providing and laying floors of 2" (51mm) thick 1:2:4 cement concrete using graded screened bajri ¾" (19mm) and down gauge in ground floor laid in panels including form work, consoildation, finishing and curing etc. complete (190/6)	1,950.00	Cft%	3,053.25	59,538.38
56	C.C GOLA Providing and laying gola 3" x 3" (76 mm x 76 mm) concrete 1:2:4 using graded screened bajri at junction of roof slab and walls and finished with cement plaster 1:4 including curing etc. complete. (Page No. 358/141)	900.00	Rft%	1,368.16	12,313.44

CONSTRUCTION OF GIRLS HOSTEL, ICCBS,
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Pak. P.W.D SCHEDULE 2012 (CIVIL WORKS)

S #	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT
57	C.C JALI Providing and laying 1:4 precast reinforced or plain cement concrete jali upto 2" (51mm) thick in required shape including form work and its removal, compacting and curing etc complete but excluding the cost of reinforcement, in ground floor (no deduction for holes shall be made (Page No. 150/90)	30.00	Cft%	29,712.83	8,913.85
58	PORCELAIN TILES FLOORING IN KITCHEN / ENTRANCE Providing & laying light/ colour unglazed vitrified porcelain tiles (polished) not exceeding 1600 Sq. cm each on walls & floor foreign make (italian or equivalent except China make) in any floor laid with dry bond (stile bond) over existing floor including jointing the tiles with joint filler of approved quality as per direction by the Engineer-in-charge (209/60)	265.00	Sft%	24,596.12	65,179.72
59	EXPANSION JOINTS Providing and fixing 16 oz.(4.89Kg/Sqm) aluminium sheet covering of approved shape and design to Expansion Joints of roof slab (with slotted holes) with wooden gutties and screws etc complete (Page No. 355/102)	50.00	Per Sft	625.32	31,266.00
a	Providing and fixing 16 oz.(4.89Kg/Sqm) aluminium sheet covering of Expansion Joints in wall and columns as per approved design including providing clamps and fixing with screws and rawal plugs or wooden gutties including making slotted holes etc complete (Page No. 355/103)	50.00	Per Sft	678.32	33,916.00
COST OF CIVIL WORKS (SCHEDULED ITEMS)				RS =	37,064,600.15
_____ % BELOW / ABOVE				RS =	
TOTAL COST OF SCHEDULE ITEMS				RS =	

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NON-SCHEDULE ITEMS (CIVIL WORKS)

S #	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT
60	DUMMY COLUMNS Providing and laying in situ 1:3:6 (1 cement 3 sand and 6 coarse aggregate) cement concrete using crushed graded boulders 3/4 inch (19 mm) and down gauge on roof including form work, compacting, curing and removal of form work etc. complete as per drawings, specification and directed by the Engineer-in-Charge	400.00	Cft%		
61	MATT FINISH (INTERNAL PAINT) Providing, applying three coats of Matt Finish of approved shade & colour on internal surface over plastered surface. Preparation of base, filling, putty rubbing, one priming coat including cost of all materials, labours, tools, tackels, scaffolding, transporting, hoisting at any floor and height etc complete as per specification and as directed by the Engineer-in-Charge	51,500.00	Sft		
62	TERMITE PROOFING Providing Termite Proofing Treatment in foundation, column trenches and floor by means of spraying with the pressure of under 150 PSI with the solution of anti-termite approved chemical as per manufacturer/plant protection specification as directed by the Engineer-in-charge. (Analyzed Rate)	18,500.00	Sft		
63	MARBLE SLAB ON KITCHEN COUNTER Providing and fixing 1" thick prepolished marble slab 2'-0" wide of approved colour and quality in kitchen counter including making, fixing, erecting, installing, with cost of all materials, labours, tool, hoisting, transporting etc Complete in all respect as per drawings, specification instructions of the Engineer	55.00	P.Sft		
64	RAIN WATER SPOUT Providing and fixing flat base Rain Water Precast Spout of required length including cost of all materials, labours, tools, tackles, scaffolding, hoisting jointing of approved size & design embedding with all accessories as per drawing, specification and as directed by the Engineer	14.00	No		

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NON-SCHEDULE ITEMS (CIVIL WORKS)

S #	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT
65	WOODEN KITCHEN CABINET Providing and making best quality Kitchen shelf with front shutter door of teak partake including fixing of approved size and internal finish fixed on Wall Mounted including polishing, beading all fitting fixtures such as latches, handles, locking arrangements complete with all accessories with cost of all materials, labours, tool, hoisting, transporting etc Complete in all respect as per drawings, specification instructions of the Engineer (front face of cabinets shall be measured for payment)	90.00	P.Sft		
a	Providing and making best quality Kitchen shelf with front shutter door of teak partake including fixing of approved size and internal finish fixed on Floor Mounted including polishing, beading all fitting fixtures such as latches, handles, locking arrangements complete with all accessories with cost of all materials, labours, tool, hoisting, transporting etc Complete in all respect as per drawings, specification instructions of the Engineer (front face of cabinets shall be measured for payment)	90.00			
66	EXTERNAL TEXTURED TILE (FASADE) Providing and fixing Textured tile of approved make, quality, colour and shade including rough base plaster, complete in all respect at any height upto entire satisfaction of the Architect/ Engineer. (Surface area will be measured for payment) and as directed by the Architect Engineer		Sft	Rate Required Only	
67	EXTERNAL FACING BLOCK Providing and laying of facing block in any shape and colour having the size of 390mm x 180mm x 90mm having the strength +5% (1500 Psi) manufactured by Envicrete or equivalent should be included for fixing at the whole building (Ground Floor + First Floor) of required Colour block or of any other size, shape and colour set in 1:3 cement sand mortar including filling the joints with neat cement slurry using colour pigment etc. complete block must be laid in correct alignment and level including scaffolding at any height and level complete as per drawing design and as directed by the Engineer In charge		Sft	Rate Required Only	
a					

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S #	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT
b	Providing and laying of facing block in any shape and colour having the size of 400mm x 200mm x 40mm having the strenght +5% (1500 Psi) manufactured by Envicrete or equivalent should be included for fixing at the whole building (Ground Floor + First Floor) of required Colour block or of any other size, shape and colour set in 1:3 cement sand mortar includeing filing the joints with neat cement slurry using colour pigment etc. complete block must be laid in correct alignment and level including scaffolding at any height and level complete as per drawing design and as directed by the Engineer In charge	11,000.00	Sft		
68	Providing and laying 12" X 4" X 1.5" size of required colour block or of any other size, shape and colour for edges of exterior windows and ventilators set in 1:3 cement and sand mortar including filling the joints with neat cement slurry using colour pigment etc, complete block must be laid to correct alignment and level including scaffolding etc complete as per drawing, design and as directed by the Engineer-in-Charge.		Sft	Rate required only	
69	Providing and laying 4" X 4" X 1½" size of required colour block or of any other size, shape and colour for edges of exterior windows and ventilators set in 1:3 cement and sand mortar including filling the joints with neat cement slurry using colour pigment etc, complete block must be laid to correct alignment and level including scaffolding etc complete as per drawing, design and as directed by the Engineer-in-Charge.		Sft	Rate required only	
70	Providing and laying 12" X 4" X 3" size of required colour block or of any other size, shape and colour for edges of exterior windows and ventilators set in 1:3 cement and sand mortar including scaffolding etc complete as per drawing, design and as directed by the Engineer-in-Charge.		Sft	Rate required only	

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NON-SCHEDULE ITEMS (CIVIL WORKS)

S #	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT
71	FOAM CONCRETE IN SUNK AREA Providing and laying foam concrete 18" thick in sunk toilet areas with cement concrete 1:6 mixed with mico-air 100 as manufactured by DUGUSSA or equivalent @ 100 ml / 100 kg of cement, all as per specifications, drawings and including 2" thick concrete 1:2:4 on top mixed with water proofing admixture of approved manufacturer laid to slope (all floors)	1,480.00	Per Cft		
72	FALSE CEILING Aluminum perforalising false ceiling insing panels of size 2"-0" 1 x 4 as per approved suspension system and all acessories complete with all accessories as per drawing, specification and directed by the Engineer	950.00	P.Sft		
73	BOTICINA MARBLE FLOOR/ BOARDER Providing and laying Boticina or approved quality marble floor tile ¾" thick of approved size & quality laid over bed of C.C. 1:4 using cement and screened sand mix with larger grain size not exceeding 1", in approved pattern including filling of joints using white cement and pigment (if required) in match color of marble tiles including, grinding and chemical polish complete in all respect as per instructions by the Architect / Engineer. (Ground Floor).	9,700.00	Sft		
a	F.Floor including stair tower	7,000.00	Sft		
74	BOTICINA MARBLE SKIRTING Providing and laying Boticina or approved quality marble skirting ¾" thick tile of approved size and quality on walls or wherever required or shown over drawing over ½" inch thick rough plaster of 1:6 cement sand mortar, including grinding, wax polishing, rounding corners, straightening of edges, leveling , curing and finishing etc. complete at any floor and height etc. complete all as per approval of Architect / Engineer. (Ground Floor)	1,800.00	Sft		
a	F.Floor including stair tower	1,200.00	Sft		

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NON-SCHEDULE ITEMS (CIVIL WORKS)

S #	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT
75	BOTICINA MARBLE TO STAIR STEPS Providing and laying boticina marble to stair steps using 1" thick full length marble slab of approved quality laid over bed of C.C. 1:3 using cement and screened sand mix with larger grain size not exceeding 1/2" inch including filling of joints using white cement and pigment (if required) in match color of marble tiles including, grinding and wax polish complete in all respect as per instructions by the Architect / Engineer. (G.Floor)	150.00	Sft		
a	F.Floor including stair tower	150.00	Sft		
76	BOTICINA MARBLE TO STAIR RISER Providing and laying boticina marble to stair Riser using 3/8" inch thick of approved quality laid over bed of C.C. 1:6 using cement and screened sand mix with larger grain size not exceeding 1/2" inch including filling of joints using white cement and pigment (if required) in match color of marble tiles including, grinding and wax polish complete in all respect as per instructions by the Architect / Engineer (1st Floor)	100.00	Sft		
a	F.Floor including stair tower	100.00	Sft		
77	WOODEN HAND RAIL Providing and fixing Deodar wooden hand rail over M.S Flat Iron with balustrade of M.S Square Bar and horizontal bracing of M.S Square bar including cost of cutting, fitting, welding, grinding, embedding the braces and post in floor and wall making good with cement concrete 1:2:4, 2 coat of painting with a base of Red Oxide including painting or polishing on wooden surface, screwing, aligning at any height and any floor with cost of all materials, labours, tools, tackles, hoisting etc complete as per drawing, specification and directed by the Engineer	150.00	Per Rft		
78	CEMENT SAND MOTIVE PLASTER Providing & laying 2" thick cement sand motive plaster on elevation as per drawing, specification & directed by the Engineer	85.00	Sft		

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NON-SCHEDULE ITEMS (CIVIL WORKS)

S #	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT
79	ROOF SCREED Providing and laying average 3" thick CC.1:2:4 screed using graded screened bajri ¾" inch and down gauge laid in proper gradient and slope etc. complete including glass dividing strips and making 3" x 3" C.C gola at parapet and roof junction etc. complete with painting the surface with plastic bitumen No 3 or 4 @ of 15 lbs per %Sft blinded with sand @ 2 Cft Per %Sft complete in all respect as per instructions by the Architect / Engineer. (1st Floor)	11,000.00	Sft		
80	ALUMINIUM CHANNEL Providing ¾" Aluminium Channel in Grooves as per drawing, specification & directed by the Engineer In Charge	980.00	Sft		
81	CC PLAIN OVER STAIR STEPS Providing and laying floors of 2 inches (51 mm) thick 1:2:4 cement concrete using graded screened bajri ¾ inch (19 mm) and down gauge in ground floor laid in panels including form work, consolidation, finishing and curing etc. complete in all respect as per instructions by the Architect / Engineer. (Ground & First Floor)				
	Emergency Stair.	400.00	Sft		
82	RAILING EMERGENCY STAIR CASE Providing and fixing M.S Hollow Pipe Handrail (Heavy gauge) 2" dia compromg pf balustrade of MS Heavy guagu 1½" dia and bacing M.S Pipe heavy gauge 1" dia including cost of cuttting, fitting, embedding the braces and post in floor and walls and making good with cement concrete 1:2:4 in any floor (Emergency Stair Case)	300.00	Per Rft		
83	ALUMINIUM NOSING ON STAIR STEPS Providing and fixing aluminium angle 1-½" X 1-½" X 1/8" (38 mm X 38 mm X 3.2 mm) in corners with rawl plugs and aluminium screws etc. complete in all respect as shown on the drawings and as directed by the Engineer. (Ground & First Floor)				
	Emergency Stair.	400.00	Rft		
TOTAL COST OF CIVIL WORKS (NON-SCHEDULE ITEM)				RS =	

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Pak P.W.D SCHEDULE 2012 (PLUMBING WORKS)

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
1	EUROPEAN WC Providing and fixing Pakistani make best available quality European style white glazed earthenware wash down W.C.Pan complete with and including the cost of a plastic seat (PVC cover and buffers 3 galls. (13.6 litres) white glazed earthenware low level flushing cistern with siphon fittings, 1-1/2 inches (40mm) dia white porcelain enamelled flush bend, 3/4 inch (20mm) dia, G.I. warning pipe carried outside and bent vertically downwards and making requisite number of holes in walls, plinth and floor for pipe connections and making good in cement concrete 1:2:4. (Page No. 6/43)	35.00	EACH	4,804.67	168,163.38
2	PAKISTANI WC Providing and fixing squatting type W.C.Pan in white vitreous China with integral treads (Pakistani) orissa pattern and C.I. trap 100mm dia. Complete with and including the cost of 13.6 liters best quality low level plastic flushing cistern with internal fittings complete, PVC flushing pipe suitable for this type with fittings and making requisite number of holes in walls, plinth and floor for pipe connections and making good in cement concrete 1:2:4 (Page No. 3/43)	1.00	EACH	3,424.92	3,424.92
3	LABATORY BASIN Providing and fixing 25 inches x 18 inches (635 mm x 457 mm) lavatory basin with Pedestal in white glazed earthenware (Pakistani) complete with and including the cost of Brass oxidized bolts kit built into wall /2 inch (15 mm) dia. Chrome plated mixer 1-1/4" inches (32mm) rubber plug and chrome plated brass chain, 1-1/4 inches (32 mm) dia brass waste of approved pattern, 1-1/4 inches (32 mm) dia. Malleable iron or C.P. brass traps malleable iron or brass unions and making requisite number of holes in walls plinth and floor for pipe connections and making good in cement concrete 1:2:4. (Page No. 8,10/44)	35.00	EACH	5,931.96	207,618.60

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Pak P.W.D SCHEDULE 2012 (PLUMBING WORKS)

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
4	STOP COCK Providing 1/2 inch (15 mm) dia plastic connection complete with a 1/2 inch (15 mm) dia brass stop cock two brass nuts and lining jointed to plastic pipe. (Page No. 17/45)	70.00	EACH	333.70	23,359.00
5	GLASS MIRROR Providing and fixing 24 inches x 18 inches (610 mm x 457 mm) looking mirror of Imported glass 5 mm thick fixing with CP clamps and screws. (Page No. 5/47)	35.00	EACH	595.30	20,835.50
6	BATHROOM ACCESSORIES Providing and fixing bath room accessories of set of 7 pieces consist of one cosmetic shelf, one towel rod with bracket, one Soap dish, one tooth brush holder with glass and cover, one tissue paper holder, one double hook, one towel ring etc complete of approved quality as per direction of Engineer In-charge (Page No. 10/47)	35.00	EACH	3,986.62	139,531.70
7	UPVC PIPES CLASS D Providing and fixing unplasticized polyvinyl chloride pipe (P.V.C) "D" class and specials etc. including cutting and fitting complete with and including the cost of cutting trench upto 1-1/2 feet deep refilling, watering, ramming, and disposal of surplus earth within one chain and after cleaning the pipe and cartage within 10 miles (16.09 km.) (working pressure 12 kg/cm ²). (Page No. 21/57)				
a)	Do. Do. 6 inches (150 mm) dia pipe. 27/57	0.00	RFT	509.08	0
b)	Do Do. 4 inches (100 mm) dia pipe. 25/57	430.00	RFT	328.36	141194.8
c)	Do Do. 3 inches (80 mm) dia pipe. 24/57	650.00	RFT	207.10	134615
d)	Do Do. 2 inches (50 mm) dia pipe. 23/57	50.00	RFT	110.30	5515
e)	Do Do. 6 inches (150 mm) dia pipe. 27/57	450.00	RFT	509.08	229086
f)	Do Do. 8 inches (200 mm) dia pipe. 28/57	100.00	RFT	711.21	71121
8	EXCAVATION Excavation in all kinds of soil, murum, hard, average or soft including lift up to 5 feet (1.52 m) and lead up to one chain (30.48 m). (Page No. 5/73)	5,000.00	%CFT	599.70	29985

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Pak P.W.D SCHEDULE 2012 (PLUMBING WORKS)

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
9	ADDITIONAL LIFT Add for additional lift of every three feet (0.91 m) or part thereof in items 1 to 14.. (Page No 15/74)	1,000.00	%CFT	77.35	773.5
10	BACK FILLING Filling and disposal of earth. (Page No. 28/75)	4,000.00	%CFT	360.15	14406
11	MANHOLE CONNECTIONS Making connection with the existing manhole including the cost of cutting holes in walls, making them good in cement concrete 1:2:4 and .making the required channel etc., complete . (Page No. 13/86)	1.00	EACH	128.30	128.3
12	CUTTING HOLES Cutting holes in walls 9 inches and 8 inches (229 mm and 203mm) thick and making them good in cement concrete 1:2:4. (Page No. 11/86)	10.00	EACH	291.03	2910.3
13	MANHOLE TYPE A Providing manhole type 'A' size 2 feet x 1½ feet (610mm x 457mm) (inside dimensions) x 2 feet (610mm) deep as pre approved design and specifications complete for 4 inches to 12 inches (100 to 305mm) dia pipes up to 3 feet-11 inches (1.19 m) depth with cast iron cover and frame 16 inches (406 mm) dia. inside (weight= 1 Cwt. 1Qtr.) or 63.5 kg. fixed in 4 inches (100mm) thick RCC 1:2:4 slab, 8 inches, (203 mm) thick C.C 1:3:6 block masonry walls set in 1:3 CM; 6 inches (150 mm) thick 1:3:6 C.C in foundation 1:2:4 C.C in benching, ½ inches (13mm) thick cement plaster in 1:3 CM. to all inside wall surface, channels and benching etc. and to top including making requisite number of main and branch channels but excluding the cost of excavation, back filling and diposal of excavated stuff, manhole cover and frame (Page No. 1/79)	20.00	EACH	6,481.67	129633.40

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Pak P.W.D SCHEDULE 2012 (PLUMBING WORKS)

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
14	RCC CONCRETE Providing & laying R.C.C 1:2:4 slab cover 3" thick average (precast complete with M.S flat iron, M.S bars embedded in concrete) of any shape including the cost of reinforcement and welding etc. as per direction of Engineer Incharge. Add if RCC Cover is used. (Page No. 29/84)	rate only	Cft	664.80	
15	G I PIPES Providing G.I. pipes, specials and clamps etc., including fixing cutting and fitting complete with and including the cost of breaking through walls and roof, making good etc., painting 2 coats after cleaning the pipe etc.; with white zinc paint with pigment to match the colour of the building and testing with water to a pressure head of 200 feet (61 M) and cartages within 10 miles (16.09 km.) (ILLM). 1/2 inch (15mm) dia. (Page No. 1/54)		RFT	67.82	
a)	Do. Do. 3/4 inch (20 mm) dia. 2/54	80.00	RFT	88.28	7062.4
b)	Do. Do. 1 inch (25 mm) dia. 3/54	40.00	RFT	127.37	5094.8
c)	Do. Do. 1-1/2inch (40mm) dia. 5/54	rate only	RFT	178.90	
d)	Do. Do. 2inch (50 mm) dia. 6/54	rate only	RFT	242.48	
16	UPVC PIPES CLASS E Providing and fixing unplasticized polyvinyl chloride pipe (u.P.V.C) "E" class with specials and clamps etc., including cutting and fitting, complete with and including the cost of breaking through walls and roof and making good etc.; after cleaning the pipe and cartage within 10 miles (16.09 km) (working pressure 12 kg/cm ²): 3/4 inch (20 mm) dia. (Page No. 11/56)				
a)	Do. Do. 3/4 inch (20 mm) dia. 11/56	rate only	RFT	35.21	
b)	Do. Do. 1 inch (25 mm) dia. 12/56	rate only	RFT	42.23	
c)	Do. Do. 1-1/2inch (40mm) dia. 14/56	rate only	RFT	82.10	
d)	Do. Do. 2inch (50 mm) dia. 15/56	400.00	RFT	113.90	
e)	Do. Do. 2-1/2inch (65 mm) dia. 16/56	rate only	RFT	164.59	

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Pak P.W.D SCHEDULE 2012 (PLUMBING WORKS)

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
17	BALL VALVE Providing and fixing dia ball valve (with PVC Ball) made to B.S.S. 1212..... (Page No.16/58)				
a)	Do. Do. 3/4 inch (20 mm) dia Do. 10/58	2.00	Each	151.76	303.52
b)	Do. Do. 1 inch (25 mm) dia Do.. 11/58	2.00	Each	250.76	501.52
c)	Do. Do. 1-1/2 inches (40 mm) dia Do. 12/58	rate only	Each	431.51	
d)	Do. Do. 2 inches (50 mm) dia Do. 13/58	rate only	Each	585.51	
18	Providing and fixing 1/2 inches (15 mm) dia full way brass valves with wheels threaded or flanged ends with rubber washers, (standard pattern).. Item No 6 /305				
	Do. Do. 1-1/2 inches (40 mm) dia Do.	2.00	Each	1,335.75	2671.5
	Do. Do. 2 inches (50 mm) dia Do..	4.00	Each	1,379.85	5519.4
	Do. Do. 2-1/2 inches (40 mm) dia Do.	rate only	Each	1,555.75	
	Do. Do. 3 inches (50 mm) dia Do..	rate only	Each	2,226.00	
19	S.S KITCHEN SINK Providing and fixing approved quality Stainless Steel sink 48" x 20" Pak made(Atlas) complete with brass oxidized bolt kit/angle iron brackets built into wall 1/2" dia CP sink mixer 1 1/4" rubber plug and CP brass chain 1 1/4" CP brass waste 1 1/4" dia malleable iron or CP brass bottle trap with malleable iron or brass unions and makings requisite number of holes in walls, plinth and floor for pipe connections and making good in cement concrete 1:2:4 or as directed by the Engineer In-Charge (Page No. 22/45)	1.00	Each	13,176.77	13,176.77
20	STANDING WALL SHOWER Providing and fixing Standing Wall Shower of CP brass 3 Knobs of approved quality mixer unit and movable shower head complete. (Page No. 20/45)	35.00	Each	4,489.28	157,124.80
	SUB TOTAL			RS	1,513,756.11
	_____ % BELOW / ABOVE			RS	
	TOTAL COST OF SCHEDULE ITEMS			RS	

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NON-SCHEDULE (PLUMBING WORKS)

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
21	T-STOP COCK Providing and fixing CP Brass regular T-Stop cock 1/2" dia meter with crystal plastic knob Master Make or equivalent all complete in approved make with all accessories as per specified including making requisite numbers of holes in concrete and masonry, floor as required and making good with concrete 1:2:4 (Master or Equivalent)	70.00	Each		
22	FLOOR DRAIN GRATING Providing & fixing Floor Drain Grating 6"x6"(150mm x150mm) Stain less Steel heavy Type 10mm thick, Master Make /Super Asia or equivalent complete as per direction.	70.00	Each		
23	FLOOR DRAIN UPVC Providing and fixing UPVC Floor Drain conforming to ASTM D-2466 Schedule 40, including cost of jointing solvent, cutting and fitting etc and cartage complete. With 3/8" stainless steel grating 6"x 6"of approved make as per specification or as directed by Architect / Engineer				
a	3" dia Providing and fixing best available quality UPVC soil and vent pipe with all fittings e.g plug bends, plain bends, tees, branches of required degree and cowls etc. including cutting and fitting and extra painting to match the colour of the building. (including clamps)	70.00	Each		
24					
a)	4"dia	300.00	RFT		
b)	3" dia	100.00	RFT		
c)	2' dia	rate only	RFT		
25	CLEAN OUT Providing and fixing UPVC Clean Out conforming to ASTM D-2466 Schedule 40, with 3/8" thick Stain less steel or brass cover including cost of jointing solvent, cutting and fitting etc and cartage complete.				
a)	4"dia	rate only	Each		
b)	3" dia	rate only	Each		

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NON-SCHEDULE (PLUMBING WORKS)

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
26	PPR COLD & HOT WATER PIPES Supply, install and commission PP-R COLD & HOT Water pipes SDR 6 (PN 20) piping system including cutting & breaking wall etc & making good complete in all respects with all fittings & special & accessories as per drawings and specifications .				
a)	3/4Inch Diameter	175.00	RFT		
b)	1 inch Diameter	475.00	RFT		
c)	1 1/4 inch Diameter	rate only	RFT		
d)	1 1/2 inch Diameter	rate only	RFT		
e)	2 inch Diameter	rate only	RFT		
26	GATE VALVES Supply, install and commission Gate Valves with accessories as per drawings & specifications.				
a)	1 1/2 inch Diameter	2.00	Each		
b)	2 inch Diameter	4.00	Each		
c)	2 1/2 inch Diameter	rate only	Each		
27	OVERHEAD TANK Supply, install and commission Fiber Glass Water Over Head Tank capacity 1000 Gallons best quality of approved make complete in all respect including fitting, fixtures walls etc at any place, location & at any height or as directed by Architect/ Engineer.	2.00	Each		
28	EYE WASH Supply, installation / manufacture eye wash & shower basin with bib cock shower including G.I pipe valves fittings complete in all respect as per sample located in other buildings or as directed by the Architect/ Engineer	4.00	Each		

CONSTRUCTION OF GIRLS HOSTEL, ICCBS
UNIVERSITY OF KARACHI

BILL OF QUANTITIES

NON-SCHEDULE (PLUMBING WORKS)

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
30	DOUBLE BIB COCK - MUSLIM SHOWER Providing & fixing complete in all respect chrome plated Muslim Double Bib Cock with Muslim Shower best quality (Master Make) or equivalent or as approved by the Architect/ Engineer	35.00	each		
31	HANDLE VALVE Providing & fixing full way handle valves with wheels threaded for flanged ends with rubber washer (standard pattern) Complete in all respect or as approved by the Engineer				
a	Do. Do. ¾ inches (20 mm) dia Do.	15.00	Each		
b	Do. Do. 1 inches (25 mm) dia Do.	20.00	Each		
c	Do. Do. 1-1/2 inches (40 mm) dia Do.	15.00	Each		
d	Do. Do. 2 inches (50 mm) dia Do..	Rates Only			
32	DOUBLE BIB COCK - MUSLIM SHOWER Providing & fixing complete in all respect chrome plated Muslim Double Bib Cock with Muslim Shower best quality (Master Make) or equivalent or as approved by the Architect/ Engineer	35.00	each		

TOTAL COST OF NON SCHEDULE

**CONSTRUCTION OF GIRLS HOSTEL, ICCBS,
UNIVERSITY OF KARACHI**

SUMMARY OF COST

S #	SUB HEAD	TOTAL AMOUNT
	GIRLS HOSTEL	
	SCHEDULE ITEMS	
1	Cost of Internal Electrification Wiring, Accessorie, Fitting & Fixture, etc (Page No. 31 - 34)	Rs=
	Cost of Main Cable (Page No. 35 - 35)	Rs=
2	Cost of Internal Electrification Main or Sub Main (Page No. 36 - 37)	Rs=
3	Cost of Fire Alarm System (Page No. 38 - 38)	Rs=
3	Cost of Telephone (Page No. 39 - 39)	Rs=
4	Cost of Gas Installation (Page No. 40 - 40)	Rs=
	NON- SCHEDULE ITEMS	
6	Cost of Electrical Work (Non-Schedule Items) (Page No. 41 - 47)	Rs=
Total Cost of Girls Hostel Electrical Work		Rs=

**CONSTRUCTION OF GIRLS HOSTEL ICCBS,
UNIVERSITY OF KARACHI**

BILL OF QUANTITIES

PAK.PWD SR-2004 (Elect. Work)

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	SUB HEAD: INTERNAL ELECTRIFICATION				
1	Wiring for light, fan or call bell point with (3/.029") PVC insulated wire in 20 mm ² , (3/4") dia PVC conduit recessed in the wall, column, roof , including 1mm ² single core PVC insulated wire as ECC as required. (2-4-01) (Pak/AGE/Fast)	438	Per Point	675.32	295,790.16
2	Wiring for plug point with (3/.029") PVC insulated wire in 20 mm (3/4")dia PVC conduit recessed in the wall, column, roof , including 1mm ² , single core PVC insulated wire as ECC as required. (2-14-04) (Pak/AGE/Fast)	147	Per Point	350.64	51,544.08
3	Wiring for call bell point with (3/.029") PVC insulated wire in 20 mm ² , (3/4")dia PVC conduit recessed in the wall, column, roof , including 1mm ² single core PVC insulated wire as ECC as required.(use when Push button out side the premises) (2-14-02) (Pak/AGE/Fast)	1	Per Point	913.49	913.49
	ACCESSORIES				
4	Providing & fixing 10 Amps Polycarbonate flame retardant S.P switch with fancy required gang plate fixed on die fabricated, powder coated metal board recessed in wall or column including connection as required. (E31-36/1/2A Clipsal make) 2-74-01	438	Each	138.22	60,540.36
5	Providing & fixing 10 Amps Polycarbonate flame retardant Bell Push with fancy gang plate fixed on die fabricated, powder coated, metal board recessed in wall or column including connection as required. (E31MBPR Clipsal make) Page No. 81, Item No. 2-74-03	1	Each	397.54	397.54
6	Providing & fixing 13 Amps Polycarbonate flame retardant 3-Pin switch socket unit with fancy gang plate fixed on die fabricated, powder coated metal board recessed in wall or column including connection as required. (E15 Clipsal make) 2-74-05	147	Each	444.84	65,391.48

**CONSTRUCTION OF GIRLS HOSTEL ICCBS,
UNIVERSITY OF KARACHI**

BILL OF QUANTITIES

PAK.PWD SR-2004 (Elect. Work)

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
7	Providing & fixing 15 Amps Polycarbonate flame retardant 3-Pin switch socket unit with fancy gang plate fixed on die fabricated, powder coated metal board recessed in wall or column including connection as required. (Clipsal make) 2-74-06	2	Each	514.58	1,029.16
8	Providing & fixing Polycarbonate flame retardant, 400 watts fan dimmer with plate fixed on die fabricated, powder coated, metal board recessed in the wall or column including connection as required. (E32V400F Clipsal make) 2-74-11	65	Each	943.58	61,332.70
9	FITTING & FIXTURES Providing & installing 140 Cm (56") sweep ceiling fan with blades, canopy, strandard length of down rod including connection with 14.0076" flexible wire complete as required. (without regulator) Millat / Pak / Asia / Younas / Climax / Royal. (2-106-03)	65	Each	2,088.00	135,720.00
10	Providing & installing 120 Cm (48") sweep ceiling fan with blades, canopy, strandard length of down rod including connection with 14.0076" flexible wire complete as required. (without regulator) Millat / Pak / Asia / Younas / Climax / Royal. (2-106-02)	1	Each	2,063.00	2,063.00
11	Providing & installing 30 Cm (12") sweep, Plastic body Exhaust fan complete with blades, motor, etc fixed in existing hole including connection with 14/.0076" flexible wire complete as required Millat / Pak / Asia / Younas / Climax / Royal. (2-110-03)	31	Each	1,419.00	43,989.00
12	Providing & installing 30 Cm (12") sweep, mettalic body Exhaust fan complete with blades, motor, etc fitted in existing hole including connection with 14/.0076" flexible wire complete as required Millat/Pak/Asia/ Younas/Climax/ Royal.	1	Each	1,400.00	1,400.00

**CONSTRUCTION OF GIRLS HOSTEL ICCBS,
UNIVERSITY OF KARACHI**

BILL OF QUANTITIES

PAK.PWD SR-2004 (Elect. Work)

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
13	Providing & fixing basic button surface type fitting complete with TL'D 1 x 36 white daylight lamp, starter, electromagnetic ballast and capasitor as philics, Cat, (TMS-015/136) (2-88-49)	76	Each	1,264.00	96,064.00
14	Making hole in the wall for 12" to 16" sweep metalic exhaust fan and fixing of holefast, duly palaster and making good the damage as required. (2-110-03)	32	Each	359.69	11,510.08
15	Providing & fixing Cubical type metal sheet Distribution board with locking arrangment as per drawing ,vermin protected duly powder coated paint i/c all fastening material including wiring with suitable gauge PVC x PVC wire complete as required. (2-83-01) (Hussain co/ Nadeem co.)	50	Per Sft	2,420.00	121,000.00
16	Providing & fixing cubical type metal sheet vermin protected LT pannel board as per drawing with locking arragement duly powder coated I/c all fastening devices and electrical wire/ leads for internal connection complete as required for pannel and ups DB. (2-83-02) (Hussain co/ Nadeem co.)	25	Per Sft	4,372.50	109,312.50
17	Providing & fixing 6 to 32 Amps, DP MCCB fixed on metal board recessed in the wall duly covered with fiber sheet, I/c inter-connection as required. (2-82-01) (Traski, Senidar)	52	Each	1,803.45	93,779.40
18	Providing & fixing pilot lamp set fitted on existing board I/c connection as required. (2-86-01) (Traski, Senidar)	18	Set	220.00	3,960.00
19	Providing & fixing 6 to 32 Amps, S.P MCCB fixed on existing board , i/c inter-connection as required. (2-81-01) (Traski, Senidar)	158	Each	418.00	66,044.00
20	Providing & fixing 10 to 60 Amps,(High Breaking Capacity) T.P MCCB fixed on existing board , i/c inter-connection as required. (2-81-04) (Traski, Senidar)	23	Each	4,576.00	105,248.00

**CONSTRUCTION OF GIRLS HOSTEL ICCBS,
UNIVERSITY OF KARACHI**

BILL OF QUANTITIES

PAK.PWD SR-2004 (Elect. Work)

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
21	Providing & fixing 500 to 800 Amps,(Adjustable - High Breaking Capacity) 4 Pole circuit breaker fixed on existing board , I/c inter-connection as required. (2-81-22) (Traski, Senidar)	3	Each	105,578.00	316,734.00
22	Providing & fixing 75 to 100 Amps, (Low Breaking Capacity) TP MCCB Fixing on Existing Board. (2-81-05) (Traski, Senidar)	8	Each	4,108.50	32,868.00
23	Providing & fixing 10 to 60 Amps, (High Breaking Capacity) TP MCCB Fixing on Existing Board. (2-81-04) (Traski, Senidar)	8	Each	4,576.00	36,608.00
24	Providing & fixing 160 to 250 Amps,(Adjustable - High Breaking Capacity) 4 Pole circuit breaker fixed on existing board , I/c inter-connection as required. (2-81-19) (Traski, Senidar)	6	Each	28,050.00	168,300.00
25	Supply & fixing 20mm (3/4") dia PVC conduit with all especial such as bends, sockets, Junction etc fitted on surface as required. (2-67-01) (Gelco, Jaddah)	8,000	Per Rft	17.74	141,920.00
Sub Total Schedule Items				Rs=	2,023,458.95
_____ % Below/ Above on all Scheduled Items				Rs=	
Cost of Scheduled Items (Electrical Work)			(A)	Rs=	

**CONSTRUCTION OF GIRLS HOSTEL ICCBS,
UNIVERSITY OF KARACHI**

BILL OF QUANTITIES

PAK.PWD SR-2004 (Elect. Work)

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
26	MAIN CABLING Wiring for sub-main 4 x 16mm ² , PVC inslated wire 450/750 volts grade, single core, stranded copper conductor wire in 30mm (1¼") dia PVC conduit recessed in the wall, column and roo etc including 2.5mm ² PVC insulated wire single core wire as ECC as required (2-43-06)	600	P.Rft	210.26	126,156.00
27	Providing & laying 4 core, 50 mm ² , PVC insulated & PVC sheathed, 600/1000 volts grade with stranded copper conductor , un armoured, L.T cable in existing all kind of conduit or cable duct as per Pak. P.W.D specification as required. (3-4-04)	50	P.Rft	294	14,707.00
28	Providing & laying 4 core, 150 mm ² , PVC insulated & PVC sheathed, 600/1000 volts grade with stranded copper conductor , un armoured, L.T cable in existing all kind of conduit or cable duct as per Pak. P.W.D specification as required. (3-4-08)	20	P.Rft	834.64	16,692.80
29	Providing & laying 4 core, 300 mm ² , PVC insulated & PVC sheathed, 600/1000 volts grade with stranded copper conductor , un armoured, L.T cable in existing all kind of conduit or cable duct as per Pak. P.W.D specification as required. (3-4-11)	300	P.Rft	1,678.37	503,511.00
Sub Total				Rs=	661,066.80
Below / Above on Scheduled Items 48 to 49 I;e Rs.140863/-				Rs=	169,035.60
Below / Above on Scheduled Items 50 to 51 I;e Rs.520203.80/-				Rs=	1,144,448.36
Cost of Scheduled Items (Electrical Work)			(C)	Rs=	1,974,550.76

**CONSTRUCTION OF GIRLS HOSTEL ICCBS,
UNIVERSITY OF KARACHI**

BILL OF QUANTITIES

PAK.PWD SR-2004 (Elect. Work)

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	MAIN OR SUB MAIN				
30	Wiring for sub-main with 3x 2.5 mm ² , PVC insulated wire 300/500 volts grade, single core, stranded copper conductor wire in 20 mm (3/4") dia PVC conduit recessed in the wall, column and roof etc as required. (2-40-02) (Pak./ Poineer- Fast)	3,500	Per Rft	43.07	150,745.00
31	Wiring for sub-main with 2x 4 mm ² , PVC insulated wire 300/500 volts grade, single core, stranded copper conductor wire in 20 mm (3/4") dia PVC conduit recessed in the wall, column and roof etc including 1.5 mm ² PVC insulated wire single core wire as ECC as required. (2-41-03) (Pak./ Poineer-Fast)	5,000	Per Rft	50.39	251,950.00
32	Wiring for sub-main with 2x 6 mm ² , PVC insulated wire 300/500 volts grade, single core, stranded copper conductor wire in 25 mm (1") dia PVC conduit recessed in the wall, column and roof etc including 2.5 mm ² PVC insulated wire single core wire as ECC as required. (2-41-04) (Pak./ Poineer-Fast)	5,000	Per Rft	36.50	182,500.00
33	Wiring for sub-main with 4x 10 mm ² , PVC insulated wire 300/500 volts grade, single core, stranded copper conductor wire including 2.5 mm PVC insulated wire core as ECC in all kinds of existing or given conduit.cable duct as required. (2-35-05) (Pak./ Poineer- Fast)	2,000	Per Rft	88.06	176,120.00
34	Wiring for sub-main with 3x 1.5 mm ² , PVC insulated wire 300/500 volts grade, single core, stranded copper conductor wire including 2.5 mm PVC insulated wire core as ECC in all kinds of existing or given conduit.cable duct as required. (2-34-01) (Pak./ Poineer- Fast)	2,000	Per Rft	20.87	41,740.00
35	Wiring for sub-main with 4x 16 mm ² , PVC insulated wire 450/750 volts grade, single core, stranded copper conductor wire in 30 mm (1 1/4") dia PVC conduit recessed in the wall. column and roof etc including 2.5 mm PVC insulated wire core wire as ECC as required. (2-43-06) (Pak./ Poineer- Fast)	2,000	Per Rft	210.26	420,520.00

**CONSTRUCTION OF GIRLS HOSTEL ICCBS,
UNIVERSITY OF KARACHI**

BILL OF QUANTITIES

PAK.PWD SR-2004 (Elect. Work)

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
36	Supply & drawing of 16 mm ² , single core, PVC insulated wire in all kinds of existing or given conduit/cable duct as required. (2-32-06) (Pak./Pioneer- Fast)	1,000	Per Rft	32.96	32,960.00
37	Supply & drawing of 10 mm ² , single core, PVC insulated wire in all kinds of existing or given conduit/cable duct as required.(2-23-05) (Pak./Pioneer- Fast)	1,000	Per Rft	21.43	21,430.00
Sub Total				Rs=	1,277,965.00
_____ % Below/ Above on all Scheduled Items				Rs=	
Cost of Scheduled Items (Electrical Work)			(B)	Rs=	

**CONSTRUCTION OF GIRLS HOSTEL ICCBS,
UNIVERSITY OF KARACHI**

BILL OF QUANTITIES

PAK.PWD SR-2004 (Elect. Work)

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	SUB HEAD: FIRE ALARM SYTEM (CONVENTIONAL)				
38	Providing and fixing ,testing and commissioning of 04 zone fire alarm control panel surface /recessed mounting type with full switching programming capabilities ,system suitable operation of 230 volts 50hz with full functionality as per specification of manufacturer with proper staff and tools and plants etc complete with 2 bell sector 3 ampere charge and battery backup complies with allied components approved make or as approved by the Engineer in-charge as required. MAKE;- Secutron (Canada), Ziton (U.K), Protecto (USA) (7-2-02)	1	Job	47,702.00	47,702.00
39	Providing and fixing, testing and commissioning of ionization smoke detector(dual chamber) complies to en54pt.7 with full functionality as per specification of manufacturer/ drawing with proper staff and tools and plants etc complete with allied components approved make or as approved by the Engineer in-charge as required. (7-02-06) MAKE;- Secutron (Canada), Ziton (U.K), Protecto (USA)	67	Job	3,278.00	219,626.00
40	Providing and fixing testing and commissioning of heat detector complies to en54pt.5. with allied components with full functionality as per specification of manufacturer/ drawing with proper staff and tools and plants etc complete with allied components approved make or as approved by the Engineer in-charge as required. MAKE;- Secutron (Canada), Ziton (U.K), Protecto (USA)	6	Job	3,531.00	21,186.00
Sub Total				Rs=	288,514.00
_____ % Below / Above on Scheduled Items				Rs=	144,257.00
Cost of Scheduled Items (Electrical Work)			(B)	Rs=	432,771.00

**CONSTRUCTION OF GIRLS HOSTEL ICCBS,
UNIVERSITY OF KARACHI**

BILL OF QUANTITIES

PAK.PWD SR-2004 (Elect. Work)

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
41	SUB HEAD: TELEPHONE Providing & fixing Polycarbonate flame retardant Telephone socket 4 contact single 2 line with fancy gang plate fixed on die fabricated, powder coated metal board recessed in wall or column including connection as required. (E31RJ64SM Clipsal make) (2-74-10)	50	Each	565.84	28,292.00
42	Providing & fixing Polycarbonate flame retardant data socket unit with 8 contact cat 5 with fancy gang plate fixed on die fabricated, powder coated metal board recessed in wall or column including connection as required. (E31RJ64SM Clipsal make) (2-74-09)	50	Each	1,231.34	61,567.00
Sub Total				Rs=	89,859.00
_____ % Below/ Above on all Scheduled Items				Rs=	
Cost of Scheduled Items (Electrical Work)			(B)	Rs=	

**CONSTRUCTION OF GIRLS HOSTEL ICCBS,
UNIVERSITY OF KARACHI**

BILL OF QUANTITIES

PAK.PWD SR-2004 (Elect. Work)

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
43	GAS INSTALLATION Providing & fixing low pressure gas G.I pipe 13mm (1/2") dia (medium) with special such as bend,Tee, union and socket etc as required. (4-1-01)	300	Per Rft	53.17	15,951.00
44	Providing & fixing low pressure gas G.I pipe 20mm (3/4") dia (medium) with special such as bend,Tee, union and socket etc as required. (4-1-02)	100	Per Rft	65.75	6,575.00
45	Providing and fixing brass gas cock 15mm (1/2") dia as required. (4-1-09)	26	Nos	121.55	3,160.30
46	Providing and fixing brass gas cock 20mm (3/4") dia as required. (4-1-10)	3	Nos	143.55	430.65
47	Providing and fixing brass valve ball type screw both ends complete with steel handle washer/ nut 15mm (1/2") dia as required. (4-1-11)	3	Nos	171.60	514.80
49	Providing and fixing cooking range superior quality 5 burner 34" size auto ignition model or equivalent as approved complete with rotary cabinet oven grill etc complete in all respect i/c making necessary connection with gas line as required. (4-3-05)	2	Nos	16,492.00	32,984.00
50	Providing & fixing double gas burner (Chullah) superior quality made of stainless steel with rail cocks i/c making gas connection as approved by the Engineer in-charge as required. (4-3-09)	1	No	1,474.00	1,474.00
51	Providing & fixing gas tandoor 48 nozzle made of cast iron with plate sheet i/c making necessary gas connection complete in all respect as approved by the Engineer in-charge as required. (4-3-11)	1	No	4,852.00	4,852.00
Sub Total				Rs=	65,941.75
_____ % Below/ Above on all Scheduled Items				Rs=	
Cost of Scheduled Items (Electrical Work)			(B)	Rs=	

**CONSTRUCTION OF GIRLS HOSTEL ICCBS,
UNIVERSITY OF KARACHI**

BILL OF QUANTITIES

Non-Schedule Items (Elect. Work)

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
48	GAS GEYSER Providing and installing gas geyser 60 gallons capacity as approved by the Engineer incharge low consumption fully automatic thermostat control (foreign make) heaving one pilot holder and one large burner both operated on gas l/c making connection.	6	Nos		
52	SUB HEAD FIRE ALARM DRY CHEMICAL POWDER TYPE - 5KG TYPE Dry chemical powder type fire extinguisher of 5 Kgs. Capacity, with initial filling in brand new cylinder with powder coated finish, fitted with Gun metal union, high pressure CO2 gas cartridge, discharge hose, wall mounting bracket etc. complete, confirming to IS:2171.	30.00	Each		
	Providing and fixing testing & commissioning fire indication light connected with fire panel / smoke or head detector as required before installation may be approved by the Engineer-In-Charge	68.00	Each		
53	EXTRENAL HYDRANT Supplying, installing, testing and commissioning of yard hydrant comprising of the following, Single headed hydrant valve as per IS 5290, made of gunmetal with 63 mm dia instantaneous outlet of 80 mm dia fanged inelt ,Blank caps , chain and hand wheels etc.	4.00	Each	Required Rate	
54	INTERNAL HYDRANT Supplying, erecting and commissioning of Landing Hydrants comprising of the following in the Fire duct; Single headed hydrant valve as per IS 5290, made of gunmetal with 63 mm dia	4.00	Each	Required Rate	
55	Hose reel drum of swinging type with 19mm dia Rubber braided hose of 36M. length with Gate valve (upstream) and Shut off nozzle, complete.	4.00	Each	Required Rate	

**CONSTRUCTION OF GIRLS HOSTEL ICCBS,
UNIVERSITY OF KARACHI**

BILL OF QUANTITIES

Non-Schedule Items (Elect. Work)

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
56	BUTTERFLY VALVES Supplying, Installing, testing and commissioning CI butterfly valves (PN 16) slim seal standard lever operated type confirming to IS Standard with required flanges, nuts, bolts etc. complete.	4.00	Each	Required Rate	
a	80mm Nominal Dia				
b	100mm Nominal Dia				
c	150mm Nominal Dia				
57	AIRRELEASE VALVE Supplying and fixing approved make 25mm dia. Automatic air release valve	4.00	Each	Required Rate	
58	SUB HEAD: FITTING & FIXTURE Providing and fixing 1' X 1' size imported concealed / surface type LED pannel light 15 - 18 W. complete in all respect including connection as approved by the Engineer-in-Charge. (imported or as recommended by Engineer)	224	Point		
59	Providing and fixing 6" size (round / square shape) imported concealed / surface type LED pannel light 15 - 18 W. complete in all respect including connection as approved by the Engineer-in-Charge. (imported or as recommended by Engineer)	40	Point		
60	Providing and fixing 1' feet long LED mirror light fitting imported surface type 5-6 W. complete in all respect including connection as approved by the Engineer-in-Charge. (imported or as recommended by Engineer)	50	Point		
61	Providing and fixing 18 watt LED garden light fitting with decorative base plate having 3 to 4 feet height with glass complete in all respect including connection as approved by the Engineer-in-Charge. (imported or as recommended by Engineer)	15	Point		

**CONSTRUCTION OF GIRLS HOSTEL ICCBS,
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BILL OF QUANTITIES

Non-Schedule Items (Elect. Work)

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
62	Providing and fixing 24 watt LED gate light fitting with decorative base plate having 18" to 24" height with glass complete in all respect including connection as approved by the Engineer-in-Charge. (imported or as recommended by Engineer)	2	Point		
63	Providing and fixing 70W imported concealed / surface type LED Flood light weather proof. complete in all respect including connection as approved by the Engineer-in-Charge. (imported or as recommended by Engineer)	6	Point		
64	SUB HEAD: NETWORKING Supplying, Termination, Installing and deploying, CAT-6 ethernet wires for all the required nodes mentioned in drawings with end to end fluke testing in ¾" dia PVC pipes, proper harnessed and structured cabling including labelling, tagging at both ends and fixing them in communication racks, with available manageable switches copper /SFP Modules as Duplex SFP ports / for Fiber uplinks, with Cable Manager, patch panels inside to accommodate each and every node, with all accessories complete in respect as needed or as required, Make 3-M / Schneider/ Vivanco (114 Nodes for Wired Connection and 56 Nodes for Wireless AP's and etc)	10,000	Per Rft		
65	Supply, Installation, Fixing and termination of single gang network faceplates with I/O's fixed in it with RJ-45 connector jack and CAT-6 UTP wire, with all accessories complete in all respect as needed or as required, Make 3-M / Schneider / Vivanco	172	Each		
66	Supply, Installation and deploying of network I/O's UTP, CAT-6, RJ-45 as connecting port with all accessories complete in respect as needed or as required, Make 3-M/Schneider/ Vivanco (Chain, Germany)	172	Each		

**CONSTRUCTION OF GIRLS HOSTEL ICCBS,
UNIVERSITY OF KARACHI**

BILL OF QUANTITIES

Non-Schedule Items (Elect. Work)

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
67	Supplying, Providing, deploying and instalkling of Ethernet Patch Panels, Cable managers and Cable Organizers for the same deployed Ethernet CAT-6 data Wires/ nodes as RJ-45 with I/O's in available communicatin racks, with all accessories complete in all respect as needed or as required,Make 3-M/ Schneider/ Vivanco	172	Each		
68	Supplying, Providing, and installing communication Rack 24U with all rack mount and other required accessories, with one sliding tray an two fixed trays with bolts and nuts, with 3M/ Pamduit front	4	Each		
69	Cable Organizers of Combox and with 12 Sockets PDU's of TOTEN/ APC/ Emrson/ Shineder (6 German and Universal), with all required accessories complete in all respect as needed or as required, Make TOTEN both PDU and Communication Rack.	4	Each		
70	Deploying 1 Meter Long CAT-6 UTP RJ-45 to RJ-45 data wire for conncting both ends from patch panel to switch with in the rack Make 3-M / Schneider/ Vivanco	172	Each		
71	Deploying 3 Meter Long CAT-6 UTP RJ-45 to RJ-45 data wire as drop cable from faceplate to system Make 3-M/ Schneider/ Vivanco	700	Each		
72	Supplying, Providing, Installing and configuring 24-Port GIGABIT CISCO, layer-3 Manageable, fully loaded PoE-Switch, with atleast 2 SFP ports for duplex with all Rack mount and required accessories complete in all respect as needed or as required	4	Each		
73	Supplying, Providing, Installing and configuring 24-Port GIGABIT CISCO, layer-2 Manageable, fully loaded PoE-Switch, with atleast 2 SFP ports for duplex with all Rack mount and required accessories complete in all respect as needed or as required	4	Each		

**CONSTRUCTION OF GIRLS HOSTEL ICCBS,
UNIVERSITY OF KARACHI**

BILL OF QUANTITIES

Non-Schedule Items (Elect. Work)

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
74	Providing of Fiber SC to SC 12 core tie, odf 12 ports or as per need 3 meter patch coat, size as per requirement Make 3-M/ Schneider/ Vivanco	8	Each		
75	Providing of Fiber LC to LC 12 core tie, odf 12 ports or as per need 3 meter, size as per requirement make improted SM/ 3M/ Vivanco / Cisco / Fincer	16	Each		
76	Fixing and providing of SFP Fiber Modules for Provided switches Fincer /SM (LC to LC 6) (SC to SC 4) Make Vivanco / Cisco / Fincer	20	Each		
77	Providing and supplying of RUKUS T-710 (Outdoor) 4x4 MIMO AC Standard WAP (Model T-710)	4	Each		
78	Providing and Suplying of RUKUS R-710 4x4 MIMO AC 800 H	6.00	Each	Lump sum	
79	Providing laying, termination Optical Fiber Cable 12 Core in ¾" PVC Conduit, Recessed as per required from main data center to the building with proper ODF termination of pigtels in all respect. Make Ptcl, Pak Cable, Primer Cable	550.00	Meter		
	TELEPHONE SET & CABLING				
80	Providing and installing testing and commissioning Complete Digital Telephone set approved colour and designe as approved by the Engineer as required.	50	Nos		
81	Wiring for 02 pair cable PVC Insulated for the Telephone set in an existing conduit recessed in the wall or column as required or as approved by the Engineer In charge. (Pak cable or euqivalent)	3,000	P.Rft		
82	Wiring for 25 pair cable PVC Insulated for the Telephone set in an existing conduit recessed in the wall or column as required or as approved by the Engineer In charge. (Pak cable or euqivalent)	300	P.Rft		

**CONSTRUCTION OF GIRLS HOSTEL ICCBS,
UNIVERSITY OF KARACHI**

BILL OF QUANTITIES

Non-Schedule Items (Elect. Work)

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
83	Providing and installing testing and commissioning Complete Digital Telephone DB Board made of heavy gauge metal sheet and powder coated with locking arrangements i/c telephone connectors set as approved as approved by the Engineer as required.	5	P.Sft		
84	Supply and laying of TV coaxial cable 75 ohms in 1" dia PVC conduit or channel with hoisting and box as required make WISI Germany / Contech USA) or equivalent as approved by the Engineer-in-Charge.	2,000	P.Rft		
85	Providing & fixing upto 250 Amps, 4 pole, three phase bus bar strip fitted in given Distribution board complete with bus bar insulator, screws, bolts etc as required. Complete in all respect as per direction of the Engineer-in-Charge.	6	Job		
86	CCTV Supply of indoor/ outdoor IP camera 2-4 Mega Pixel Bullet Type 2.8mm Lense, 1980(H) x 1105 (V) upto 2000(H) x 1221(V) pixels Min illumination Day / Night complete in all respect as approve by the Engineer Incharge as required imported make	16	Nos		
87	Supply and fixing NVR Recording H.264, AHD 1080P display HDMI, Full HD, VGA, Supported 04 Sata HDD upto 8TB 16 Channal INVR complete in all respect as approve by the Engineer Incharge as required imported make	1	Nos		
88	Supply and fixing POE Networking Giga Switch 8 ports as per requirement at site complete in all respect as approve by the Engineer Incharge as required imported make	3	Nos		
89	Installation, Testing, Commissioning programming & handingover charges of above CCTV system equipments.	1	Job		

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BILL OF QUANTITIES

Non-Schedule Items (Elect. Work)

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
90	Providing and fixing, testing and commissioning of manual call point break glass with flush type with spare glass with allied components with full functionality as per specification of manufacturer/ drawing with proper staff and tools and plants etc approved make or as approved by the Engineer in-charge as required. MAKE;- Secutron (Canada), Ziton (U.K), Protecto (USA)	18	Job		
91	Providing and fixing, testing and commissioning of addressable electronic sounder with flush unit with addressable base with full functioning switching programming capabilities ,system as per specification & recommended of drawing / manufacturer with allied components with T&P etc approved make/model or as approved by the engineer in-charge as required. MAKE;- Secutron (Canada), Ziton (U.K), Protecto (USA)	4	Each		
92	EARTHING Providing and installing special earthing set (result must be below 2 ohms between earth and natural points) connecting and testing of earth electrodes with complete with 1 x 70 mm, (10 Rft) connected with 2 x 35mm ² copper conductor (110 Rft) in 4" dia G.I Pipe 100' deep bore in the ground with machine for laying and earth rod at the top level of earth rod ½" thick 1' x 1' size copper plate fixed with ½" dia brass nuts and two ¼" size brass nuts for earth conductor connecting wire including refilling with 2 bags earth powder the job as per instruction of the Engineer-in-charge	2	Job		
93	Providing and fixing ATS Switch 200 amps in existing main panel board operation with 380/440 Volts AC supply including interconnections. Complete in all respect as per instruction of the Engineer-in-Charge.	1	Job		
Cost of Electrical Items (NS)					