



PAKISTAN INSTITUTE OF FASHION AND DESIGN

CONSTRUCTION OF GIRLS HOSTEL AT PAKISTAN INSTITUTE OF FASHION AND DESIGN, LAHORE

(COVERED AREA = 47,000 SFT)

BILL OF QUANTITIES

MAY, 2025



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**CONSTRUCTION OF GIRLS HOSTEL AT PAKISTAN INSTITUTE OF
FASHION AND DESIGN, LAHORE**

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SUMMARY OF COST

CIVIL WORKS

MRS, 1st BI-ANNUAL-2025 (01.01.2025 to 30.06.2025) DISTRICT LAHORE

Sr. No.	DESCRIPTION	AMOUNT
1.	MAIN BUILDING	
i	CIVIL WORKS	
ii	PUBLIC HEALTH WORKS	
iii	ELECTRIC WORKS	
	Main Building TOTAL - A	
2.	GUARD ROOM	
i	CIVIL WORKS	
ii	PUBLIC HEALTH WORKS	
iii	ELECTRIC WORKS	
	Guard Room TOTAL - B	
3.	EXTERNAL DEVELOPMENT	
i	TUBEWELL ROOM WITH MECHANICAL WORKS	
ii	BOUNDARY WALL	
iii	PARKING AND LANDSCAPING AREA	
iv	DRAINAGE	
v	FIRE FIGHTING PUMP ROOM	
vi	EXTERNAL PLUMBING WORKS	
vii	EXTERNAL ELECTRICAL WORKS	
	External Civil Works TOTAL - C	
	1-SUB TOTAL - (A+B+C)	
	Add PST @ 5 %	
	GRAND TOTAL	

Amount in Words:

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	Main Building	TOTAL - A

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BILL OF QUANTITIES

CIVIL WORKS

MRS, 1st BI-ANNUAL-2025 (01.01.2025 to 30.06.2025) DISTRICT LAHORE

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
1	C-3/21(2)-(ii)	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and rammiing lead 'upto one chain (30 m) and lift upto 5 ft. (1.5 m) a) By Excavator: in ordinary soil.	%0Cft	59318.13		
2	C-3/21(2)-b-(ii)	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and rammiing lead 'upto one chain (30 m) and Lift from 5ft (1.5m) to 15 ft (4.5 m) b) By Excavator: in ordinary soil.	%0Cft	5264.00		
3	C-26/44	Spraying anti termite proofing by using liquid FMC Biflex 2.5%EC Per Sft 1.20 10.00 Sq.m 13.00 107.50 Mixing Ratio 1:50=137-Sft or using liquid MIRAGE Ali Akbar /RANGERS Auriga 5% SC Mixing Ability-HEXTAR Ratio 1:110=205-Sft or any other equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10- years complete in all respect .as approved by the Engineer Incharge	P.Sft	32707.13		
4	C-6/5(i)	Cement concrete plain including placing,compacting, finishing and curing complete (including screening and washing of stone aggregate):Ratio 1:4:8	%Cft	5249.43		
5	C-6/6 c-(2)	Reinforced cement concrete in slab of rafts / strip foundation, base slab of column and retaining walls; etc and other structural members other than those mentioned above not requiring form work (i.e. horizontal in shuttering) complete in all respects:- Type B (nominal mix 1: 1½: 3	P.Cft	21602.32		
6	C-6/6 a-(3)	Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- Type C (nominal mix 1: 2: 4), Ground floor	P.Cft	12061.0		
7	C-6/6 a-(3)+f	Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- Type C (nominal mix 1: 2: 4), add extra for First Floor.	P.Cft	7763.3		
8	C-6/6 a-(3)+f	Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- Type C (nominal mix 1: 2: 4), add extra for Second Floor.	P.Cft	7197.9		
9	C-6/6 a-(3)+f	Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- Type C (nominal mix 1: 2: 4), add extra for Third Floor.	P.Cft	6925.6		
10	C-6/6 a-(3)+f	Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- Type C (nominal mix 1: 2: 4), add extra for Fourth Floor.	P.Cft	6972.4		

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
11	C-6/6 a-(3)+f	Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- Type C (nominal mix 1: 2: 4), add extra for Fifth Floor.	P.Cft	6940.0		
12	C-6/6 a-(3)+f	Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- Type C (nominal mix 1: 2: 4), add extra for Sixth Floor.	P.Cft	1447.6		
13	C-6/6 a-2	Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- Type B (nominal mix 1: 1.5: 3), U.P.L Floor	P.Cft	4839.7		
14	C-6/6 a-2	Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- Type B (nominal mix 1: 1.5: 3), Ground Floor	P.Cft	2923.2		
15	C-6/6 a-(2)+f	Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- Type B (nominal mix 1: 1.5: 3), add extra for First Floor.	P.Cft	2505.6		
16	C-6/6 a-(2)+f	Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- Type B (nominal mix 1: 1.5: 3), add extra for Second Floor.	P.Cft	2080.4		
17	C-6/6 a-(2)+f	Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- Type B (nominal mix 1: 1.5: 3), add extra for Third Floor.	P.Cft	2080.4		
18	C-6/6 a-(2)+f	Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- Type B (nominal mix 1: 1.5: 3), add extra for Fourth Floor.	P.Cft	2080.4		
19	C-6/6 a-(2)+f	Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- Type B (nominal mix 1: 1.5: 3), add extra for Fifth Floor.	P.Cft	3020.9		
20	C-6/6 a-(2)+f	Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- Type B (nominal mix 1: 1.5: 3), add extra for Sixth Floor.	P.Cft	1046.9		
21	C-6/13 b-ii	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars):- Deformed bars (Grade-60)	%Kg	535849.25		
22	C-7/4(i)	Pacca brick work in foundation and plinth in Cement,sand mortar. Ratio 1:6	%Cft	4041.56		
23	C-3/15(i)	Filling, watering, ramming earth under floors (with surplus earth foundation).	%0Cft	21527.38		
24	C-3/15(ii)	Filling, watering and ramming earth under floors:-ii) with new earth excavated from outside lead upto one chain (30 m).	%0Cft	29510.5		

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
25	C-3/17	Transportation of earth all types when the total distance, this rate will be paid in addition to the including the lead covered in the item of work, is more than rate of earthwork, without deducting 1000 ft. (300 m) (Lead will be paid as per actual but not more than 8km)				
26	a	upto ¼ mile (400 m).	%0Cft	29510.5		
27	b	for every 330 ft. (100 m) additional lead or part thereof, beyond ¼ mile (400 m) upto one mile. (1.6 Km.)	%0Cft	29510.5		
28	c	for every ¼ mile (400 m) additional lead or part thereof, beyond one mile (1.6 Km.) upto 5 mile (8 Km).	%0Cft	29510.5		
29	C-7/5(i)	Pacca brick work in Ground Floor cement, sand mortar Ratio 1:5	%Cft	9313.32		
30	C-7/5(i)	Pacca brick work in ground floor cement, sand mortar Ratio 1:4	%Cft	1060.45		
31	C-7/5(i) + 6(i)	Pacca brick work in first floor cement, sand mortar Ratio 1:5	%Cft	6699.31		
32	C-7/5(i) + 6(i)	Pacca brick work in first floor cement, sand mortar Ratio 1:4	%Cft	473.31		
33	C-7/5(i) + 6(ii)	Pacca brick work in Second floor cement, sand mortar Ratio 1:5	%Cft	7169.90		
34	C-7/5(i) + 6(ii)	Pacca brick work in Second floor cement, sand mortar Ratio 1:4	%Cft	437.10		
35	C-7/5(i) + 6(iii)	Pacca brick work in Third floor cement, sand mortar Ratio 1:5	%Cft	7747.00		
36	C-7/5(i) + 6(iii)	Pacca brick work in Third floor cement, sand mortar Ratio 1:4	%Cft	442.71		
37	C-7/5(i) + 6(iv)	Pacca brick work in Fourth floor cement, sand mortar Ratio 1:5	%Cft	7709.00		
38	C-7/5(i) + 6(iv)	Pacca brick work in Fourth floor cement, sand mortar Ratio 1:4	%Cft	442.71		
39	C-7/5(i) + 6(iv)	Pacca brick work in Fifth floor cement, sand mortar Ratio 1:5	%Cft	7609.50		
40	C-7/5(i) + 6(iv)	Pacca brick work in Fifth floor cement, sand mortar Ratio 1:4	%Cft	442.71		
41	C-7/5(i) + 6(iv)	Pacca brick work in Six floor cement, sand mortar Ratio 1:5	%Cft	1158.82		
42	C-11/9(b)	Cement plaster 1:4 upto 20' (6.00 m) height:- ½" (13 mm) thick. (Internal Ground Floor + First Floor)(Internal)	%Sft	39881.6		
43	C-11/11(b) + 28	Cement plaster 1:4 upto 20' (6.00 m) height:- ½" (13 mm) thick. (Internal Second Floor)(Internal)	%Sft	15141.5		
44	C-11/9(b)+ 28	Cement plaster 1:4 upto 20' (6.00 m) height:- ½" (13 mm) thick. (Internal Third Floor)(Internal)	%Sft	15272.5		
45	C-11/9(b) + 28	Cement plaster 1:4 upto 20' (6.00 m) height:- ½" (13 mm) thick. (Internal Fourth Floor)(Internal)	%Sft	15219.7		
46	C-11/9(b) + 28	Cement plaster 1:4 upto 20' (6.00 m) height:- ½" (13 mm) thick. (Internal Fifth Floor)(Internal)	%Sft	15122.4		
47	C-11/9(b)+ 28	Cement plaster 1:4 upto 20' (6.00 m) height:- ½" (13 mm) thick. (Internal Six Floor)(Internal)	%Sft	2400.0		
48	C-11/9(c)	Cement plaster 1:4 upto 20' (6.00 m) height:- c) ¾" (20 mm) thick. (Internal Ground Floor + First Floor)(Internal)	%Sft	31636.9		
49	C-11/9(c) + 28	Cement plaster 1:4 upto 20' (6.00 m) height:- c) ¾" (20 mm) thick. (Internal Second Floor)(Internal)	%Sft	14632.5		
50	C-11/9(c) + 28	Cement plaster 1:4 upto 20' (6.00 m) height:- c) ¾" (20 mm) thick. (Internal Third Floor)(Internal)	%Sft	14763.5		

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
51	C-11/9(c) + 28	Cement plaster 1:4 upto 20' (6.00 m) height:- c) ¾" (20 mm) thick. (Internal Fourth Floor)(Internal)	%Sft	14710.7		
52	C-11/9(c) + 28	Cement plaster 1:4 upto 20' (6.00 m) height:- c) ¾" (20 mm) thick. (Internal Fifth Floor)(Internal)	%Sft	14613.4		
53	C-11/9(c)	Cement plaster 1:4 upto Ground Floor:- c) ¾" (20 mm) thick. (External)	%Sft	14304.41		
54	C-11/9(c) + 28	Cement plaster 1:4 First Floor:- c) ¾" (20 mm) thick. (External)	%Sft	10131.52		
55	C-11/9(c) + 28	Cement plaster 1:4 upto Second Floor:- c) ¾" (20 mm) thick. (External)	%Sft	7881.52		
56	C-11/9(c) + 28	Cement plaster 1:4 upto Third Floor:- c) ¾" (20 mm) thick. (External)	%Sft	7881.52		
57	C-11/9(c) + 28	Cement plaster 1:4 upto Fourth Floor:- c) ¾" (20 mm) thick. (External)	%Sft	7881.52		
58	C-11/9(c) + 28	Cement plaster 1:4 upto Fifth Floor:- c) ¾" (20 mm) thick. (External)	%Sft	7881.52		
59	C-11/9(c) + 28	Cement plaster 1:4 upto Six Floor:- c) ¾" (20 mm) thick. (External)	%Sft	8632.59		
60	C-11/10(b) + 28	Cement plaster 3/8" thick under soffit or R.C.C. roof slab only Ground Floor ratio 1:3.	%Sft	11345.0		
61	C-11/10(b) + 28	Cement plaster 3/8" thick under soffit or R.C.C. roof slab only First Floor ratio 1:3.	%Sft	7580.0		
62	C-11/10(b) + 28	Cement plaster 3/8" thick under soffit or R.C.C. roof slab only Second Floor ratio 1:3.	%Sft	6825.0		
63	C-11/10(b) + 28	Cement plaster 3/8" thick under soffit or R.C.C. roof slab only Third Floor ratio 1:3.	%Sft	6825.0		
64	C-11/10(b) + 28	Cement plaster 3/8" thick under soffit or R.C.C. roof slab only Fourth Floor ratio 1:3.	%Sft	6825.0		
65	C-11/10(b) + 28	Cement plaster 3/8" thick under soffit or R.C.C. roof slab only Fifth Floor ratio 1:3.	%Sft	6825.0		
66	C-11/10(b) + 28	Cement plaster 3/8" thick under soffit or R.C.C. roof slab only Six Floor ratio 1:3.	%Sft	2183.0		
67	C-13/31 (a+b)	Preparing surface and painting with emulsion paint three coats.	%Sft	175768.50		
68	C-13/46	Providing and applying wall putty of 2mm thickness over plastered surface (new surface) to prepare the surface even and smooth complete in all respect.	%Sft	351537.00		
69	C-13/33-a- (i+ii)	Providing and applying weather shield paint of approved quality on external surface of building including preparation of surface, application of primer complete in all respect: a) new surface: Two coats	%Sft	12135.00		
70	C-7/37	Providing and laying fair face Gutka cladding laid in (1:2) cement / red posso mortar having 1/4" thick groove finish i/c cost of 8 SWG wire in shape of 8 placed horizontally and vertically at 36" and 18" c/c respectively i/c cutting charges as per approved drawing , complete in all respect as approved and directed by the Engineer Incharg i. 2-1/4" x 2-1/4" x 9"	P.Sft	24703.50		
71	C-9/48 (iv)	Providing and fixing false ceiling comprises of Gypsum board laminated sheet of size 2'x2'/2'x3'/ 3'x3'of specified design and thickness i/c cost of fixtures i.e galvanized angle 1" x 1" at wall sides, galvanized tee 1¼" x 1"and 1 ½" x 1" both at 4' c/c (made of Taiwan CKM or equivalent), hanging with G.I/Copper wire 16 SWG, G.I hook, Rawal Plug etc: complete in all respects as approved and directed by the Engineer Incharge. iv) 12 mm thick	P.Sft	9500.0		
72	C-10/4	Providing, laying, watering and ramming brick ballast 1½" to 2"(40 mm to 50 mm) gauge mixed with 25% sand, for floor foundation, complete in all respects.	%Cft	30422.50		
73	C-6/5(f)	Cement concrete plain including placing,compacting, finishing and curing complete (including screening and washing of stone aggregate):(f) Ratio 1: 2: 4	%Cft	13260.50		
74	C-10/16(e)	Providing and laying topping of cement concrete 1:2:4,including surface finishing and dividing in panels:-(e) 2"(50 mm) thick	%Sft	3360.00		

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75	C-9/35/iii	Providing and laying roof insulation, comprising of single layer of tiles 9"x4½"x1½" (225x113x40 mm) grouted with cement sand mortar 1:3 laid over 2" (50 mm) thick earth (including mud plaster) over thermopore sheet, over polythene sheet 300 gauge over a layer of bitumen, complete in all respects:- iii) Thermopore sheet 1" (25 mm) thick	%Sft	7895.00		
76	C-9/15	Khuras on roof 2'x2'x6" (600 x 600 x 150 mm)	Each	30.00		
77	C-10/23(a)	1½"(40 mm) thick mosaic flooring, consisting of ½ "(13 mm) mosaic topping of one part of cement and marble powder in the ratio of 3:1 and two parts of marble chips, laid over 1"(25 mm) thick floor of 1:2:4 cement concrete, including rubbing and polishing complete with finishing :- (a) using grey cement. Ground Floor	%Sft	10750.00		
78	C-10/23(a) +19	1½"(40 mm) thick mosaic flooring, consisting of ½ "(13 mm) mosaic topping of one part of cement and marble powder in the ratio of 3:1 and two parts of marble chips, laid over 1"(25 mm) thick floor of 1:2:4 cement concrete, including rubbing and polishing complete with finishing :- (a) using grey cement. First Floor	%Sft	7450.00		
79	C-10/23(a) +19	1½"(40 mm) thick mosaic flooring, consisting of ½ "(13 mm) mosaic topping of one part of cement and marble powder in the ratio of 3:1 and two parts of marble chips, laid over 1"(25 mm) thick floor of 1:2:4 cement concrete, including rubbing and polishing complete with finishing :- (a) using grey cement. Second Floor	%Sft	6825.00		
80	C-10/23(a) +19	1½"(40 mm) thick mosaic flooring, consisting of ½ "(13 mm) mosaic topping of one part of cement and marble powder in the ratio of 3:1 and two parts of marble chips, laid over 1"(25 mm) thick floor of 1:2:4 cement concrete, including rubbing and polishing complete with finishing :- (a) using grey cement.Third Floor	%Sft	6825.00		
81	C-10/23(a) +19	1½"(40 mm) thick mosaic flooring, consisting of ½ "(13 mm) mosaic topping of one part of cement and marble powder in the ratio of 3:1 and two parts of marble chips, laid over 1"(25 mm) thick floor of 1:2:4 cement concrete, including rubbing and polishing complete with finishing :- (a) using grey cement. Fourth Floor	%Sft	6825.00		
82	C-10/23(a) +19	1½"(40 mm) thick mosaic flooring, consisting of ½ "(13 mm) mosaic topping of one part of cement and marble powder in the ratio of 3:1 and two parts of marble chips, laid over 1"(25 mm) thick floor of 1:2:4 cement concrete, including rubbing and polishing complete with finishing :- (a) using grey cement. Fifth Floor	%Sft	6825.00		
83	C-10/23(a) +19	1½"(40 mm) thick mosaic flooring, consisting of ½ "(13 mm) mosaic topping of one part of cement and marble powder in the ratio of 3:1 and two parts of marble chips, laid over 1"(25 mm) thick floor of 1:2:4 cement concrete, including rubbing and polishing complete with finishing :- (a) using grey cement. Six Floor	%Sft	1750.00		
84	C-10/40(a)	Providing and fixing marble strip of any shade for dividing the mosaic flooring into panels. Size 1½" x 3/8" (40 x 10 mm)	P.Rft	30366.00		
85	C-10/37 (a-ii)	Mosaic dado or skirting with one part of cement and marble powder in the ratio of 3:1 and two parts of marble chips, laid over ½"(13 mm) thick cement plaster 1:3, including rubbing and polishing, complete with finishing: (a) using grey cement : ii) ½"(13 mm) thick Ground Floor	%Sft	635.25		
86	C-10/37 (a-ii)	Mosaic dado or skirting with one part of cement and marble powder in the ratio of 3:1 and two parts of marble chips, laid over ½"(13 mm) thick cement plaster 1:3, including rubbing and polishing, complete with finishing: (a) using grey cement : ii) ½"(13 mm) thick First Floor	%Sft	567.11		
87	C-10/37 (a-ii)	Mosaic dado or skirting with one part of cement and marble powder in the ratio of 3:1 and two parts of marble chips, laid over ½"(13 mm) thick cement plaster 1:3, including rubbing and polishing, complete with finishing: (a) using grey cement : ii) ½"(13 mm) thick Second Floor	%Sft	599.78		
88	C-10/37 (a-ii)	Mosaic dado or skirting with one part of cement and marble powder in the ratio of 3:1 and two parts of marble chips, laid over ½"(13 mm) thick cement plaster 1:3, including rubbing and polishing, complete with finishing: (a) using grey cement : ii) ½"(13 mm) thick Third Floor	%Sft	599.78		

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89	C-10/37 (a-ii)	Mosaic dado or skirting with one part of cement and marble powder in the ratio of 3:1 and two parts of marble chips, laid over ½"(13 mm) thick cement plaster 1:3, including rubbing and polishing, complete with finishing: (a) using grey cement : ii) ½"(13 mm) thick Fourth Floor	%Sft	599.78		
90	C-10/37 (a-ii)	Mosaic dado or skirting with one part of cement and marble powder in the ratio of 3:1 and two parts of marble chips, laid over ½"(13 mm) thick cement plaster 1:3, including rubbing and polishing, complete with finishing: (a) using grey cement : ii) ½"(13 mm) thick Fifth Floor	%Sft	599.78		
91	C-10/37 (a-ii)	Mosaic dado or skirting with one part of cement and marble powder in the ratio of 3:1 and two parts of marble chips, laid over ½"(13 mm) thick cement plaster 1:3, including rubbing and polishing, complete with finishing: (a) using grey cement : ii) ½"(13 mm) thick Six Floor	%Sft	80.85		
92	C-10/24 (i)	Providing and laying superb quality Ceramic tile floors of Master brand of specified size, Glossy/Matt/Texture of approved Color and Shade as per approved design with adhesive bond, over ¾" thick (1:2) cement sand plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects and as approved and directed by the Engineer Incharge. i) 12"x18"/12"x24"/10"x24" /8"x24"/12"x36"	P.Sft	2530.00		
93	C-10/25 (i)	Providing and laying superb quality Ceramic tiles dado of Master brand of specified size, Glossy/Matt/Texture skirting/dado of approved Color and Shade with adhesive bond over 1/2"thick (1:2) cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects as approved and directed by the Engineer Incharge. i) 12"x18"/12"x24"/10"x24" /8"x24"/12"x36"	P.Sft	10864.00		
94	C-10/52 (i)	Providing and laying Prepolished Granite of specified thickness and shade of full width of approved quality laid with adhesive bond over ¾" thick (1:2) cement sand mortar bed , complete in all respect as approved and directed by the Engineer Incharge. (i) ¾" thick	P.Sft	3820.37		
95	C-10/50	Extra for Bevelling charges of marble edge in approved design complete in all respects i/c the cost of Carborandam disc as approved and directed by the Engineer Incharge.	P.Rft	4960.33		
96	C-10/51	Extra cost for making hole in Marble slab for fixtures, Sink,burners, basin Vanities i/c cost of bevelling of internal edge as approved and directed by the Engineer Incharge.	Each	32.00		
97	C-25/49	Providing and fixing all types of partly fixed and partly openable glazed anodised bronze colour aluminium doors, using delux section of M/s Al-Cop or Pakistan Cables, having chowkat frame of size 40 x 100 mm (1½" x 4") and leaf frame of 60x40mm (2½"x1½") wide sections including the cost of ¼" (5 mm) thick imported tinted glass with aluminium triangular gola and rubber gasket to support the glass and leaf edging, using approved standard fittings, locks, 3" (75 mm) wide long handles etc., and hardware any required as approved by the engineer in-charge.	P.Sft	982.00		
98	C-12/50	P/F 1-1/2" thick solid flush door comprising of 2.5 mm thick Commercial ply compressed over 2.5 mm thick commercial ply over 1" thick packing wood in style and rails under proper pressure i/c the cost of nails, tower bolt , handles, glue, sawing charges, Painting charges, sand papering and 3/8" thick matching wooden lipping as approved and directed by the Engineer Incharge.	P.Sft	2457.00		
99	C-12/60 (b) - (ii)	P/F ¾" dia heavy duty sliding bolt of specified material i/c the cost of hardware complete in all respect as approved and directed by theEngineer Incharge. (ii) 12" (300 mm) long	Each	99.00		
100	C-12/22	Providing and fixing, approved quality mortice lock	Each	99.00		
101	C-12/64	Providing and fixing automatic hydraulic operated door closer imported heavy duty complete in all respect as approved and directed by the Engineer Incharge	Each	99.00		
102	C-12/52	Providing and laying 24 SWG aluminum kick plate 4" (100 mm) high, fixed with screws 4" (100 mm) centre to centre, on bottom rail of flush doors only of commercial ply.	P.Rft	605.00		

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
103	C- 12/17 - (ii)	Providing and fixing 2" wide MS/ GI Chowkat singel/double rebate made of 16 SWG MS sheet pressed/welded / supported with M.S. flat 1-1/4"x1/8" i/c 6"long M.S. Flat 1"x1/8"hold fasts (6-Nos) welded/ screwed, punching of lock hole covered with MS Box,coating with antirust paint including filling with cement sand mortar (1:8) and embedding hold fast in cement concrete (1:2:4) ,complete in all respect as approved and directed by Engineer Incharge.(ii) 10.50 " wide	P.Sft	1764.00		
104	C- 12/17 - (iii)	Providing and fixing 2" wide MS/ GI Chowkat singel/double rebate made of 16 SWG MS sheet pressed/welded / supported with M.S. flat 1-1/4"x1/8" i/c 6"long M.S. Flat 1"x1/8"hold fasts (6-Nos) welded/ screwed, punching of lock hole covered with MS Box,coating with antirust paint including filling with cement sand mortar (1:8) and embedding hold fast in cement concrete (1:2:4) ,complete in all respect as approved and directed by Engineer Incharge.(iii) 5.5 " wide	P.Sft	609.00		
105	C-13/5 c(i+ii)	Painting new surface:- c) Preparing surface and painting of doors and windows any type (including edges):- 3 coats	%Sft	6333.53		
106	C-25/62-ii	P/F Iron door comprising of specified leaves made of 1-1/4"x1-1/4"x3/16" MS angle iron for leaf frame, diagonal and horizontal braces duly welded with MS. sheet 18-SWG i/c the cost of sliding bolt, tower bolt and painting 3-coats but excluding the cost of Chowkat complete in all respect as approved and directed by the Engineer incharge. (ii) Double Leaf	P.Sft	24.50		
107	C-25/52	Providing and fitting all types of glazed aluminium windows of anodised bronze colour partly fixed and partly sliding using delux sections of approved manufacturer having frame size of 100 x 30 mm (4"x1-1/4")and leaf frame sections of 50 x 20 mm (2"x3/4"), all of 1.6mm hickness including 5 mm thick imported tinted glass with rubber gasket using approved standard latches, hardware etc., as approved by the Engineer in-charge.	P.Sft	5777.29		
108	C-25/53	Providing and fixing Aluminum Fly screen comprising of Fiber / Aluminum wire gauze (Malasian) fixed in aluminum frame of approved manufacturer brownze colour / powder coated of size 1-1/2" x 1/2" and 1.6mm thick with rubber gasket i/c cost of hardwares as approved and directed by the engineer incharge complete in all respect.	P.Sft	5777.29		
109	Ch-25/59-(ii)	Providing and fixing M.S. grill fabricated with MS Square polished Vertical/ horizontal Bars of specified size @ 4" c/c ' passed through punched holes in MS Patti of 1-1/4"x1/8" i/c the cost of 1-1/4"x1/8" MS patti for Frame of windows and painting 3 coat complete in all respect as approved and directed by the Engineer Incharge. (ii) 1/2" Squar Bars	P.Sft	5777.29		

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
110	Ch-25/64	Providing and fixing 2'-9" high stair railing comprising of non magnetic (304) Stain less steel 2" dia pipe railing of 18 SWG welded with vertical posts of 2" dia stainless steel round/ Squar pipe/ Tong (chimta) @ 2-ft c/c fixed on alternate steps with 3" long steel screws and brass rawal plugs , 3-Nos diagonal stainless steel pipes of 1/2" dia passes through goties fixed on vertical post, i/c staines steel welding, fixing & polishing complete in all respects as approved and directed by the Engineer Incharge.	P.Rft	270.00		
111	Ch-25/34	Providing/fixing stair railing consisting of M.S. Box section size 1-1/2"x3" of 16 SWG welded with M.S. flat 1"x1/8" continuously and welded over M.S. square bars 5/8"x5/8" punched in M.S. flat 2 3/4' high @ 5 1/2" c/c fixed in steps of stair I/C painting 3 coats complete	P.Rft	300.00		
112	Ch-25/35	Providing and fixing terrace railing of 2" (50 mm) i/d conduit pipe 16 SWG, welded with 5/8"x5/8" (16x16 mm) square bar 2.75 ft. (838 mm) high fixed at 5" (125 mm) centre to centre, in reinforced cement concrete slab with suitable arrangement, complete in all respects, as per design and drawing.	P.Rft	120.00		
113	C-6/37(a-ii)	Providing and laying damp proof course of cement concrete 1:2: 4 (using cement, sand and shingle), including bitumen coating :- (a) with one coat bitumen and one coat polythene sheet 500gauge ii) 2" thick (50 mm)	%Sft	1368.75		
114	C-6/39(a-ii)	Providing and laying damp proof course with cement sand plaster and bitumen coating:- (a) with one coat of bitumen and one coat of polythene sheet 500 gauge :- ii) Ratio 1:3 b) 3/4 " thick (20mm)	%Sft	862.50		
115	C-13/9(i)	Bitumen coating to plastered or cement concrete surface:-i) 20 lbs. per 100 Sft. (9.07 Kg per Sq.m)	%Sft	11380.1		
116	C-19/40 (iii)	Supply and fitting of cast iron manhole cover with frame, etc. complete. iii) 60 cm (24") dia	Each	5.00		
117	C-21/13	Providing and fixing 1 1/4"x1 1/4"x3/16" (31x31x5 mm) angle iron step, in manhole chambers, including carriage and setting the same in work to correct lines and levels.	Each	40.00		
118	C-6/32-(ii)	Providing embedding 10" (250 mm) wide 1/4" (6 mm) thick rubber water stopper in expansion joints of R.C.C. roof slab complete in all respects.	P.Rft	212.50		
119	C-12/59 (iii)	Providing and fixing Vin board cabinet 3/4" thick with drawers 3" deep in 'Kitchen including termite proofing and polishing with synthetic enamel as specified, with handles hinges,screws etc., complete in all respects iv) 2' deep,without back.(Kitchen)	P.Sft	447.36		
120	C-12/59 (iv)	Providing and fixing Vin board cabinet 3/4" thick with drawers 3" deep in 'Kitchen including termite proofing and polishing with synthetic enamel as specified, with handles hinges,screws etc., complete in all respects iv) 2' deep,with back.(kitchen & Cabins Cabinet)	P.Sft	447.36		
121	C-6/15	Providing and fixing ornamental cement jali 2" (50 mm) thick 1: 2: 4), without steel.	P.Sft	3112.02		
122	C-6/30	Providing and fixing 6 in (150 mm). Wide G.I. sheet 18SWG. stopper to expansion joint.	P.Rft	120.00		
123	C-6/33	Filling expansion joints with bitumen.sand & saw dust in ratio 1:2:2.	P.Rft	120.00		
124	C-6/28-a	Providing and fixing 1/8" (3 mm) thick 3" (75 mm) wide aluminium strip on horizontal and vertical expansion joints in walls, columns, ceilings and floors etc., including cost of clips/screws etc., complete in all respects:-a) On interior surface (without mastic strip)	P.Rft	250.00		
125	C-6/28-b	Providing and fixing 1/8" (3 mm) thick 3" (75 mm) wide aluminium strip on horizontal and vertical expansion joints in walls, columns, ceilings and floors etc., including cost of clips/screws etc.,complete in all respects:-a) b) On exterior surface (with mastic strip)	P.Rft	250.00		

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
126	C-25/10+11	Fabrication of heavy steel work, with angle, tees, flat iron round iron and sheet iron for making trusses,girders, tanks, etc., including cutting, drilling, revitting, handling, assembling and fixing, including erection in position. (Main Gate)	%kg	3089.12		
127	C-13/5 d(i+ii)	Painting new surface:- d) Preparing surface and painting guard bars, gates of iron bars, gratings, railing (including standards, braces, etc.) and in similar open work:- 3 coats (Main Gate)	%Sft	16384.42		
128	C-1/1	Carriage of 100 Cft. (2.83 cu.m) of all materials like stone aggregate, spawl, kankar lime (unslaked), surkhi, etc. or 150 Cft. (4.25 cu.m) of timber, by truck or by any other means owned by the contractor. (Lead will be Paid as Actual but not more than 220 Km (Sargodha Pull 111 to PIFD,Johar Town Lahore)	%Cft	94119.89		
129	C-6/56	Providing and mixing super plasticizer (water reducing admixture) as defined in ASTM C-94 in order to achieve the required consistency / workability measured by the slump, used in the ratio of (0.05% to 1.00%) by weight of cement as proposed by the designer etc complete in all respect.	P.Ltr	14143.83		
130	NSI	Providing and fixing steel Fire Rated Emergency Exit Door ,Door manufactured as per NFPA 252 & UL 10C standards Steel Door (MS) Size: 60" x 96" Double Leaf door, Filled with fire-rated material With Inner Steel Stiffeners for reinforcement. Door Leaf 1.2-1.5mm, Door Frame 1.5- 2.0mm, Accessories: Hinges, Panic Bar On single Leaf, SS Handle, Glass 12x24 ft, and Door closer including carriage complete in all respect as approved & directed by the Engineer/ Incharge. (Techno or Equivalent)	Each	5.00		
131	NSI	Providing, fabricating, fixing of M.S louvered open able panel on service duct including the cost of one coat of red oxide and approved 3 coat of enamel paint. Complete in all respect as per drawing or as directed by the Engineer in charge.	P.Sft	640.84		
132	NSI	Providing and laying wash terrazzo 3/8" thick of approved quality matching of approved color including aluminium U channel 3/8"x3/8" for groves, as shown in drawings. Complete in all respect as per drawing or as directed by the Engineer in charge.	P.Sft	18022.50		
133	NSI	Providing and installing windows Vertcial roller blinds including all hardware required complete in all respect as approved & direction by the Engineer Incharge.	P.Sft	5777.3		
134	NSI	Providing and applying of 2 coat of Acrylic Re-enforced Cementitious water proofing & Protective Coating (ConFlex 515) Complete in all respects.(Bath)	P.Sft	13541.61		
135	NSI	Providing and fixing Stainless Steel (24 SWG) Letters with CNC laser cutting i/c all hardware required complete in all respect as per drawings and direction of Engineer In-charge.	Each	30.00		
136	NSI	Providing and fixing Stainless Steel Logo with colour print including the cost of fitting accessories complete in all respect as per drawings and approval of Engineer Incharge.	Each	1.00		
137	NSI	Providing and fixing stainless steel mesh of 16 guage fixed with nails for concrete and bricks joint complete in all respect and as approved and directed by the Engineer Incharge.	P.Sft	6500.00		
GRAND TOTAL OF CIVIL WORKS						

CONSTRUCTION OF GIRLS HOSTEL AT PAKISTAN INSTITUTE OF FASHION AND DESIGN, LAHORE

(COVERED AREA = 47000 SFT)

ENGINEER'S COST ESTIMATE

PUBLIC HEALTH WORKS

MRS, 1st BI-ANNUAL-2025 (01.01.2025 to 30.06.2025) DISTRICT LAHORE

SR. NO.	ITEM NO.	DESCRIPTION	UNIT	QTY	RATE (RS)	AMOUNT (RS)
		SANITARY FIXTURES AND FITTINGS				
1	Ch 19/3	Providing and fitting European Coupled set of Water Closet (WC) and flushing Cistern of PORTA brand (full size) i/c the cost of CP /rubber connection,thimble,seat cover and rawal bolts complete in all respects as approved and directed by the Engineer Incharge.	Each	56.00		
2	Ch 19/4	Providing and fitting glazed earthen ware water closet, squatter type (Orisa pattern), combined with foot rest. i) white	Each	10.00		
3	Ch 19/13 (i)	Providing and fitting plastic made low down flushing cistern 13.63 litre (3 gallons) capacity, including bracket set, copper connection, etc. complete. i) white	Each	56.00		
4	Ch 19/10-(i)	Providing and fixing glazed earthen ware sink, including bracket set, waste pipe and waste coupling:- i) 60x45 cm (24"x18")	Each	7.00		
5	19/16	Providing and fixing, chromium plated soap dish.	Each	52.00		
6	19/18	Providing and fixing, chromium plated toilet paper holder.	Each	56.00		
7	19/19 (i)	Providing and fixing, chromium plated towel rail:- i) 60 cm (24") long, and 2 cm (¾") dia.	Each	28.00		
8	Ch 19/20	Providing and fixing looking glass 55x40 cm (22"x16") size,and minimum 5 mm thick, first quality	Each	52.00		
9	Ch 19/21	Providing and fixing glass shelf 60x13 cm (24"x5"), with 5mm thick glass i) glass shelf only, without chromium plated brackets and railing.	Each	30.00		
10	19/35 (ii)	Providing and fitting "P" trap:ii) 10 cm (4") glazed.	Each	74.00		
11	19/34	Providing and fixing, floor trap of cast iron, including concrete chamber all round, and C.I. grating:-ii) 10x7.5 cm (4"x3")	Each	74.00		
12	19/36	Providing and fitting 10 cm (4") gully trap, including cement concrete, cost of PVC grating 15x15 cm (6"x6") and masonry chamber 30x30 cm (12"x12").	Each	7.00		
13	19/7 (v)	Providing and fitting glazed earthen ware wash hand basin /vanity56x40 cm (22"x16") including bracket set, waste pipe and waste coupling, etc. v) Under Counter Vanity Basin	Each	57.00		
14	19/30	Providing and fixing, chromium plated mixing valve, for wash hand basin, sink or shower.	Each	87.00		
15	19/5-ii	Providing and fixing chromium plated bottle trap with waste pipe, etc. complete ii) 4 cm (1½")	Each	5.00		
16	Ch 19/49 b (i)	Providing, fixing, testing and commissioning of µ-PVC (Unplasticized polyvinyl Chloride) Nikasi/ waste pipe Fittings make of dadex /Popular/Beta/BBJ conforming to code EN-1401 ncluding the cost of Solvents complete in all respect as approved and directed by the Engineer Incharge. (b) Multi-Trap (i) 4" dia	Each	20.00		
17	Ch 19/49 d (i)	Providing, fixing, testing and commissioning of µ-PVC (Unplasticized polyvinyl Chloride) Nikasi/ waste pipe Fittings make of dadex /Popular/Beta/BBJ conforming to code EN-1401 ncluding the cost of Solvents complete in all respect as approved and directed by the Engineer Incharge. (d) Clean Out (i) 4" dia	Each	20.00		

SR. NO.	ITEM NO.	DESCRIPTION	UNIT	QTY	RATE (RS)	AMOUNT (RS)
18	Ch 19/49 d (i)	Providing, fixing, testing and commissioning of μ -PVC (Unplasticized polyvinyl Chloride) Nikasi/ waste pipe Fittings make of dadex /Popular/Beta/BBJ conforming to code EN-1401 ncluding the cost of Solvents complete in all respect as approved and directed by the Engineer Incharge. (c) Vent Cowel (i) 4" dia	Each	40.00		
19	19/52 (v)	Providing and fixing CP bath Room Set made of Sonex/ Master/ Faisal comprising of 3-No Tee stop cocks, lever type Basin Mixer, double Bib Cock, open wall shower, Muslim shower, waste coupling and bottle trap etc. complete in all respect as approved and directed by the Engineer in charge. (v) Muslim shower	Each	56.00		
20	19/52 (iii)	Providing and fixing CP bath Room Set made of Sonex/ Master/ Faisal comprising of 3-No Tee stop cocks, lever type Basin Mixer, double Bib Cock, open wall shower, Muslim shower, waste coupling and bottle trap etc. complete in all respect as approved and directed by the Engineer in charge. (iii) Double Bib Cock	Each	40.00		
21	19/52 (iv)	Providing and fixing CP bath Room Set made of Sonex/ Master/ Faisal comprising of 3-No Tee stop cocks, lever type Basin Mixer, double Bib Cock, open wall shower, Muslim shower, waste coupling and bottle trap etc. complete in all respect as approved and directed by the Engineer in charge. (iv) Open Type Wall Shower	Each	25.00		
22	19/52 (ii)	Providing and fixing CP bath Room Set made of Sonex/ Master/ Faisal comprising of 3-No Tee stop cocks, lever type Basin Mixer, double Bib Cock, open wall shower, Muslim shower, waste coupling and bottle trap etc. complete in all respect as approved and directed by the Engineer in charge. (ii) Lever Type Basin Mixer	Each	70.00		
23	19/25 (ii)	Providing and fixing chromium plated stop cock,heavy:- ii) 1.5 cm (1/2")	Each	160.00		
24	19/27 (ii)	Providing and fixing chromium plated bib cock:- ii) 1.5 cm (1/2")	Each	56.00		
25	Ch 23/47	<u>WATER SUPPLY PIPES AND FITTINGS</u>				
		Providing, laying, testing and commissioning of POLYPROPYLENE RANDOM COPOLYMER (PPRC) water supply pipe made of (Dadex /Popular/ Beta / BBJ) with specified pressure rating PN (PRESSURE NOMINAL)and conforming to DIN 8077-8078 code i/c cost of solvent, specials,making jharries complete in all respect as approved and directed by Engineer Incharge.(Internal/External Diameters mentioned) b) PN-20 pipe				
	i	20 mm dia.	P.Rft	1,800.00		
	ii	25 mm dia.	P.Rft	4,500.00		
	iii	32 mm dia.	P.Rft	2,500.00		
	iv	40 mm dia.	P.Rft	2,200.00		
	v	50 mm dia.	P.Rft	400.00		
	vi	63 mm dia.	P.Rft	750.00		
26	Ch 19/47	<u>SOIL, WASTE, VENTILATING PIPES & FITTINGS</u>				
		Providing, fixing, testing and commissioning of μ -PV C (Unplasticized Polyvinyl Chloride) Nikasi/SWV pipe, Dadex/Popular /Beta or approved equivalent manufacturer, plain / Bell Ended / Z-Joints conforming to BS 4514 / BS 5255 - EN 1329 including the cost of specials and Solvents complete in all respects, as per drawings & specificationsand/or as approved and directed by the Engineer Incharge				
	iv	82 mm dia.	P.Rft	3,000.00		

SR. NO.	ITEM NO.	DESCRIPTION	UNIT	QTY	RATE (RS)	AMOUNT (RS)
	v	110 mm dia.	P.Rft	4,500.00		
27		VALVES				
	Ch 23/45	Providing and fixing CP heavy duty brass Ball valve with CP handle of specified diameter made of Faisal/Sonex / Master best quality or equivalent complete in all respect as approved and directed by the Engineer Incharge.				
	i	1/2 inch	Each	10.00		
	ii	3/4 inch	Each	14.00		
	iii	1 inch	Each	129.00		
	iv	1-1/4 inch	Each	57.00		
	v	1-1/2 inch	Each	21.00		
		GEYSER				
28	Ch 19/56 (i)	Supply & Installation of Duel (Electric and Gas Water Heaters) with factory-installed pressure relief valve, adjustable water temperature control thermostate,Copper connections for specific capacity having leaving water temperature 140 deg F & working pressure 15 PSI ,Ambasador/Canon or approved manufacturer i/c cost of all accessories to complete the job as per specification and standards & making connection,complete in all respect as approved and /or directed by Engineer Incharge. (i) 35 Gallon Capacity	Each	9.00		
29	Ch 19/56 (ii)	Supply & Installation of Duel (Electric and Gas Water Heaters) with factory-installed pressure relief valve, adjustable water temperature control thermostate,Copper connections for specific capacity having leaving water temperature 140 deg F & working pressure 15 PSI	Each	1.00		
	Ch 24/1	Providing, laying, cutting, jointing, testing and disinfecting G.I. pipeline in trenches, with socket joints, using G.I. pipes of B.S.S. 1387-1967 complete in all respects, with specials and valves.				
	2	Medium Quality				
	c	1 inch	Each	190.00		
	f	2 inch	Each	90.00		
		FIRE EXTINGUISHER				
	Ch 23/33-a)	Providing and fixing, air valve 2½ (65mm) dia of B.S.S.quality and weight (complete with jointing material).	Each	3.00		
30		VALVES				
	Ch 23/45	Providing and fixing CP heavy duty brass Ball valve with CP handle of specified diameter made of Faisal/Sonex / Master best quality or equivalent complete in all respect as approved and directed by the Engineer Incharge.				
	i	1/2 inch	Each	10.00		
	ii	3/4 inch	Each	14.00		
	iii	1 inch	Each	129.00		
	iv	1-1/4 inch	Each	57.00		
	v	1-1/2 inch	Each	21.00		
31	23/33-a	Providing and fixing, air valve 2½ (65mm) dia of B.S.S. quality and weight (complete with jointing material).	Each.	3.00		
32	23-61	Providing, laying, testing and commissioning of Grade-B,MS Seamless Schedule pipe of nominal diameter, conforming to ASTM-A106, Lontrin/ Hufaz / Peficbaol ai or approved equivalent manufacturer, duly welded i/c the cost of specials complete as approved and directed by the Engineer Incharge.				
	vii	2-1/2"	Rft.	677.00		
	ix	4" dia	Rft.	812.00		
33	23-64	Providing and fixing of fire extinguishers and fire blanket of following type and capacities complete in all respect as approved and directed by the Engineer Incharge.				
	i	Dry Chemical Powder capacity 6 K g	Each	6.00		
	ii	CO2 Capacity 5 kg	Each	6.00		
34	NSI	Providing and fixing, floor trap of PVC, including concrete chamber all round, and C.I. grating:- (Master, sonex or Equivalent).	Each	2.00		

SR. NO.	ITEM NO.	DESCRIPTION	UNIT	QTY	RATE (RS)	AMOUNT (RS)
35	NSI	Providing and fitting Chromium plated floor Trap Jali 6"x6" double filter National and as approved by the Engineer incharge complete in all respect.	Each	2.00		
36	NSI	Supply and fixig, Motor Pump 1 Hp Shahzad company or Equivalent complete in all respects as approved by the Engineer Incharge.	Each	2.00		
37	NSI	Providing and fixing of Pedrollo F 32/200C 5.5 HP Centrifugal motor pump or Equivalent having 50mm suction and 200m head (non-automatic) from approved manufacturer complete in all respect as per approval of Engineer Incharge.	Each	2.00		
38		MANHOLE				
39	NSI	Making of manhole size 3'x2-1/2'x3' brick work, plaster complete as requirment including RCC manhole cover 22" dia with Tee shape C.I frame complete in all respect as per engineer Incharge.	Job	10.00		
40	NSI	Providing, Installing, testing and commissiong fire hose reel cabinets, swing type hose reel in cabinet, Dia 1" x 100' long, swing type with imported high pressure PE pipe house, and imported jet/spray/shut nozzle, in steel cabinet (34" x 32" x 10.5") where indicated on drawings including all necessary accessories required for installation, complete in all respect as per specifications and drawings as well as directed by the Engineer.	No.	12.00		
41	NSI	Providing, Fixing ,testing & installing pump set for water booster with VFD of the followig capacity Pressure booster (Multistage) pump with 20 GPM flow, 30 ft head provided with strainer, NRV, Gate Valve, bypass valve, flow meter, dry run protection, low voltage protection, phase reversal protectionn IP 54, including main switch, all required fuses,, provided with all necessary accessories.	Nos.	1.00		
GRAND TOTAL OF PUBLIC HEALTH WORKS						

CONSTRUCTION OF GIRLS HOSTEL AT PAKISTAN INSTITUTE OF FASHION AND DESIGN, LAHORE

(COVERED AREA = 47000 SFT)

BILL OF QUANTITIES

ELECTRICAL WORKS

BILL OF QUANTITIES

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
1		<u>WIRING IN CONCEALED CONDUITS</u>				
i)	ch/24-11(a-i)	Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only). (3.029)	Rft.	48,363.00		
a	ch/24-11(a-iii)	Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only). (7.029)	Rft.	1,584.00		
ii)	ch/24-11(a-iv)	Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only). (7.036)	Rft.	21,371.00		
	ch/24-3(ii)	Supply and erection of PVC pipe for wiring recessed in walls, including bends, inspection joints, boxes, pull boxes, hook, cutting and repair surface etc. completed with all specified. (20 mm i/d)	Rft.	18,400.00		
ii)	ch/24-3(iii)	Supply and erection of PVC pipe for wiring recessed in walls, including bends, inspection joints, boxes, pull boxes, hook, cutting and repair surface etc. completed with all specified. (25 mm i/d)	Rft.	12,472.00		
2		<u>LT CABLES</u>				
		Supply at site, installation, testing and commissioning of PVC insulated armoured copper conductor cable 600 / 1000 Volt grade (or otherwise mentioned in cable description) in prelaid conduits / trenches to be installed as per routes shown on drawings including cost of all necessary materials, connections, identification tags, cables lugs properly crimped at both ends for the following sizes complete in all respects. Actual length of cables to be installed shall be practically measured at site by the Contractor, duly authenticated by the Engineer before placing the order with the manufacturer, however, approximate length of cables are shown herewith. Payments shall be made as per actual length installed. Cable should be of FAST, Newage or universal cables and conduit should be of Solo,popular,easyfit or equivalent as approved by engineer incharge				
ii)	ch/24/14 (c-vi)	Supply and erection of copper conductor cables for service connection, in prelaid pipe/G.I. wire/trenches, etc. (rate for cable only):- c) PVC insulated, PVC sheathed 4 core, 660/1100 volt non armoured cable:- vi) 10 mm sq (7/0.052")	R.Ft	360		
	ch/24/14 (c-vii)	Supply and erection of copper conductor cables for service connection, in prelaid pipe/G.I. wire/trenches, etc. (rate for cable only):- c) PVC insulated, PVC sheathed 4 core, 660/1100 volt non armoured cable:- vii) 16 mm sq (7/0.064")	R.Ft	90		
iv)	ch/24/14 (c-xiii)	Supply and erection of copper conductor cables for service connection, in prelaid pipe/G.I. wire/trenches, etc. (rate for cable only):- c) PVC insulated, PVC sheathed 4 core, 660/1100 volt non armoured cable:- ix) 25 mm sq (19/0.052")	R.Ft	50		

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
	ch/24/14 (c-xvi)	Supply and erection of copper conductor cables for service connection, in prelaid pipe/G.I. wire/trenches, etc. (rate for cable only):- c) PVC insulated, PVC sheathed 4 core, 660/1100 volt non armoured cable:- xiii) 240 mm sq (37/0.114")	R.Ft	200		
3		<u>GROUNDING SYSTEM</u>				
i)		<u>Grounding Cables</u>				
		Supply at site, installation, testing and commissioning of PVC insulated non armoured copper conductor cable 450/ 750 Volt grade (or otherwise mentioned in cable description) in prelaid conduits / trenches to be installed as per routes shown on drawings including cost of all necessary materials, connections, identification tags, cables lugs properly crimped at both ends for the following sizes complete in all respects. Actual length of cables to be installed shall be practically measured at site by the Contractor, duly authenticated by the Engineer before placing the order with the manufacturer, however, approximate length of cables are shown herewith. Payments shall be made as per actual length installed. Cable should be of FAST, Newage or universal cables and conduit should be of Solo,popular,easyfit or equivalent as approved by engineer incharge				
a	ch/24/13 (ii)	Supply and erection of single core PVC insulated, PVC sheathed copper conductor, 660/1100 volts grade cable, in prelaid G.I. pipe/M.S. conduits/PVC pipe/G.I. wire/trenches, etc (rate for cable only):- iii) 10 mm sq (7/0.052")	R.ft	450		
a	ch/24/13 (iv)	Supply and erection of single core PVC insulated, PVC sheathed copper conductor, 660/1100 volts grade cable, in prelaid G.I. pipe/M.S. conduits/PVC pipe/G.I. wire/trenches, etc (rate for cable only):- iv) 16 mm sq (7/0.064")	R.ft	50		
c	ch/24/13 (ix)	Supply and erection of single core PVC insulated, PVC sheathed copper conductor, 660/1100 volts grade cable, in prelaid G.I. pipe/M.S. conduits/PVC pipe/G.I. wire/trenches, etc (rate for cable only):- viii) 95 mm sq (37/0.072")	R.ft	200		
4		<u>CONDUITS, PIPES, DUCT , CABLE TRAYS, FIXING CLAMPS AND FIXING ARRANGEMENTS</u>				
		Supply, installation, testing and commissioning of following conduits laid under floor for telephone/ data cables , optical fiber cables, Sub main power cables & earth cables including all conduit accessories. The PVC conduits shall be laid under floor including chiseling and cutting of floor for required dimensions, laying of conduit, backfilling of remaining cavity with CC as specified for floor in that area, making good, complete in all respect. conduit made of solo, popular, easyfit or equivalent as approved by engineer incharge.				
i)		<u>PVC Conduit</u>				
a	ch/24/3 (v)	Supply and erection of PVC pipe for wiring recessed in walls, including inspection boxes, pull boxes, hooks, cutting jharries, and repairing surface, etc., complete with all specials. iii) 40 mm i/d	Rft	300		
b	ch/24/6 (i)	Supply and erection of PVC pipe for wiring recessed in wall including inspection boxes pull boxes, hooks, cutting jharries, and repairing surface, etc, complete with all specials ii) Cost of 50mm	Rft	400		
c	ch/24/6 (iii)	Supply and erection of PVC pipe for wiring recessed in wall including inspection boxes pull boxes, hooks, cutting jharries, and repairing surface, etc, complete with all specials ii) Cost of 50mm	Rft	240		
5		<u>DISTRIBUTION BOARDS</u>				

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
		Supply at site, fabrication, installation, testing and commissioning of Distribution Board (DB) , made of sheet steel 16 SWG, degreased and derusted, with 2 coats of antirust paint, 2 coats of powder coated paint of approved colour, protection classification IP-44, totally enclosed indoor floor mounting cubicle type in free standing design, with hinged door, handle including cost of all auxiliaries, internal wiring, designation lables on MCCBS, grounding bar suitable for system Voltage 415 V, 50 Hz, 3 Phase and neutral bus bars of 99.9% electrolytic copper, including cost of cable terminal blocks wiring from breakers, brass cable glands, all accessories complete in all respects. All incoming and outgoing breakers shall be accessible only by opening the front door having further M.S. sheet cover gaskets shall also be provided where necessary. Panel should be compeltely made in certified factory. ie PEL, Green T & D, Mazcorp engineering or equivalent approved by engineer incharge.				
		All MCCBs shall be suitable to operate without any derating at 40°C ambient temperature and shall be of one make only. The sides of MDB shall also have louvers at bottom and top on sides of panel for hot air exhaust, wire mesh etc. The back of the panel shall be lockable door instead of bolted and shall conform to single line diagram. item should be of Schneider, Terasaki or equivalent approved by engineer incharge				
i)		<u>MAIN-DB</u>				
	ch24-94(a-i)	P/F floor mounted Electric Panel board of required depth and size, fabricarted with 14SWG M.S sheet (Indoor/Outdoor Type),derusting, zinc Phosphated, finish with electro static powder coating in approved colour i/c the cost of Lock, Indication lights,thimbles, Copper Comb, Wiring, Netural & Earth Bar, glands,Current Transformers of specified capacity ,Door Earthing, Brass glands,bus bars,controles complete in all respects as approved and directed by the Engineer Incharge (Breakers will be Paid Separately). i) LT Switchboards (a) 2.50 Ft deep (i) 300-600A	CFT	9		
		<u>INCOMING</u>				
	ch24-89/(a-x)	Supplying ,Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge. a) Tripple Pole (x) 300-630 Amp (36 KA)	Each	1		
		<u>OUTGOING</u>				
		Supplying ,Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge				
	ch24-89/(a-ii)	a) Triple Pole (ii) 15-100 Amp (10 KA, 15 KA)	Each	16		
	ch24-88/(b-ii)	a) Double Pole (MCB) (ii) 6-63 Amp (6 KA)	Each	2		
ii)		<u>LP-DBs</u>				
	ch24-93(a-ii)	P/F wall mounted DB (Distribution Board) made with 16SWG Sheet (Recessded/Surface mounted Type), Powder coated Paint, i/c the cost of Lock, Indication lights,Thimble, Copper Comb, Wiring, Netural &	P.CFT	18		

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
		INCOMING				
	ch24-89/(a-ii)	Supplying ,Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge. a) Tripple Pole (ii) 15-100 Amp (10 KA,15KA)	Each	7		
		OUTGOING				
		Suppling,Installation and comissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY /SIEMEN GERMAN/TERASAKI JAPAN/ ABB SWITZERLAND in prelaid DBs and Panels i/c the cost of screws,necessary wire complete in all respect as approved and directed by the Engineer Incharge.				
	ch24-88/(a-ii)	a) Single Pole (ii) 6-40 Amp (6 KA)	Each	140		
ii)		AC-DBs				
	ch24-93(a-ii)	P/F wall mounted DB (Distribution Board) made with 16SWG Sheet (Recessded/Surface mounted Type), Powder coated Paint, i/c the cost of Lock, Indication lights,Thimble, Copper Comb, Wiring, Netural & Earth Bar, Door Earthing, Digital Voltmeter,Digital Ammeter,Volt Selector Switch,Ammeter selector switch,Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately). (a) 6" deep (ii) 75~100A	P.CFT	18		
		INCOMING				
	ch24-89/(a-ii)	Supplying ,Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge. a) Tripple Pole (ii) 15-100 Amp (10 KA,15KA)	Each	6		
		OUTGOING				
		Suppling,Installation and comissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY /SIEMEN GERMAN/TERASAKI JAPAN/ ABB SWITZERLAND in prelaid DBs and Panels i/c the cost of screws,necessary wire complete in all respect as approved and directed by the Engineer Incharge.				
	ch24-88/(a-ii)	a) Single Pole (ii) 6-40 Amp (6 KA)	Each	125		
6		MISCELLANEOUS FITTINGS				
		Providing and fixing Pakistan Energy Label NEECA approved Copper winded Ceiling Fan i/c the cost of necessary cable and hardware for connection as approved and directed by Engineer Incharge.				
	ch24-107/(iii)	(a) Ceiling Fan (iii) 56" dia	Each	171		
	ch24-106/(ii)	(a) Bracket Fan (ii) 24" sweep dia	Each	2		
	ch24-105/(a-ii)	(a) Plastic body (ii) 12" dia	Each	11		
7		WIRING ACCESSORIES				

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
		P/F PVC double layer Switch kit Faceplate with specified switch holes i/c the cost of switches / sockets / dimmer made of Legrand / ABB / Schenider or approved equivalent manufacturer, screws complete as approved and directed by the Engineer Incharge				
		(a) One way Gange Switch				
	ch24-108 (a-vi)	(vi) Fan Dimmer	No.	171		
	ch24-108 (a-ii)	Small (ii) 02 Gange	No.	25		
	ch24-108 (a-iii)	Small (ii) 03 Gange	No.	65		
	ch24-108 (a-iv)	(iv) Three pin Light Plug 10/13 Amp	No.	461		
	ch24-108 (b-i)	Large (i) 04 Gange	No.	135		
	ch24-108 (b-iii)	Large (iii) 06 Gange	No.	115		
	ch24-108 (a-viii)	(viii) Three Pin Power Plug 15-32 Amp	No.	21		
	ch24-108 (a-ix)	20A DP switch for AC	No.	35		
	ch24-108 (c-i)	Two way Gange Switch (Small) (i) 01 Gange Two way	No.	18		
		P/F PVC concealed Switch kit Box i/c the cost of screws complete as approved and directed by the Engineer Incharge				
	ch24-110 (i)	(i) Small	No.	261		
	ch24-110 (ii)	(ii) Large	No.	250		
8		<u>Fire Alarm System</u>				
		<u>Manual Call Point</u>				
	ch 24-166	Supply,Installation and commissioning with Addressable BreakGlassunit, (Manual Call Point) withkey typeEN-54 having a built inshort circuit isolator and microprocessor to ensure are sponse time of max.1 second,having an indication LED flash after pressing the button to acknowledge the activation and a key operation facility for testing purposes. made of Honeywell/Bosch/Eaton(UK) or as approved and directed by the Engineer Incharge	Each	20		
		<u>Sounder</u>				
	ch 24-167 (i)	Supply,Installation and commissioning with Addressable type Indoor Loop Powered electronic Sounder/ Flasher/ Bell EN-54 with minimum sound output 100 dB at 1meter with frequencies of variety of sounds as required and shall be loop wired and loop signaled, built inshortcircuit isolator,configured via software made of Honeywell/Bosch/Eaton(UK) or as approved and directed by the Engineer Incharge (i) With Buzzer	Each	20		
		<u>Smoke Detector</u>				
	ch 24-168 (ii)	Supply, installation and commissioning of Addressable Optical Smoke Detectors EN-54, incorporating an LED indication located inlabyrinth within the housing of the detector.Sensing unit,adjustable via software between 0-90 seconds having built inshort circuit isolators on both inputs. makeHoneywell/ Bosch/Eaton(UK), or equivalent including the cost of all other accessoriesas required, approved and directed by the Engineer Incharge. ii) Dual Detector	Each	146		

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
		<u>Heat Detector</u>				
	ch 24-168 (ii)	Supply, installation and commissioning of Addressable Heat Detectors incorporating an LED indication located in labyrinth with in the housing of the detector.adjustable Sensing unit via software between 0-90seconds. The detector shall have built in short circuit isolators on both inputs.made of Ademco/ Honeywell/ Bosch/ Eaton (UK) or equivalent as approved and directed by the Engineer Incharge. ii) Rate of Rise (ROR) Heat Detector to sense sudden increase in Temp.	Each	5		
		<u>FACP</u>				
	ch 24-171 (ii)	Supply, installation and commissioning of wired/wireless Addressable Micro processor based Fire Alarm Control Panel (FACP) capable of PC interface with window conforming to EN-54, consisting of specified loop circuits having 240 device per loop, indicating circuits,built in power supply with backup batteries,alarm and trouble indication,silence alarm and reset system, general alarm and reset system,general alarm facility.Made of Eurotech Fire UK, NotifireUSA, SimplexUSA. complete in all respect as approved and directed by Engineer Incharge. (ii) FACP2-Loop	Each	1		
		<u>Cable</u>				
		Supply,Installation and commissioning of wiring with specified Fire Resistant Shielded Cable (Fire Rating for 2hours) of required size from respective DB to Fire Alarm FACP (Fire Alarm Control Panel) in pre-laid conduit/duct. Make Pony/ Belden/ Covican (Italy) or equivalent as				
	ch 24-165 (ii)	2C,1.5 mm sq	Rmtr	1,150		
7		<u>Air Conditioning</u>				
		Providing, shifting, fixing, testing, commissioning, adjusting and balancing of standard (Cool only) DC inverter technology air conditioning units, including indoor evaporating and out door condensing unit, the indoor units wall mounted of capacities as specified below, complete with factory charged refrigerant, piping insulation including condensate copper piping connection, between indoor/outdoor units conduiting and any additional charge of refrigerant accessories, and Drain piping upto nearest drain water line included in these rates making the job complete in all respect. AC should be of Haier,dawlance, gree or equivalent, copper piping should be of muller, trox and insulation of Durkflex or equivalent, Drain pipe should be 3/4" dia pvc pipe of master, turkplast or equivalent as approved by engineer incharge				
		1/4 and 1/2 copper piping should be used till 1.5 ton AC and 5/8 and 3/8 piping should be used for 2 ton AC and 3/8 and 1/2 for 4 ton AC between indoor and outdoor unit.				
		The AC Unit should maintain approx 11 BTU per cubic feet plus addition of 3000BTU in the total amount for persons and devices				
9		<u>AC Copper Piping</u>				
		Supply & installation closed cell type Aluminium foil faced XLPE (Cross linked polyethelene) polyolefin pipe insulation tube of density 25 Kg/m ³ of specified thickness & thermal conductivity 0.035 w/m °C and fire retardent of Class "o" rating as specified for refrigerant copper piping as approved by the Engineer Incharge. a) 20 mm thick				
	ch27-21(a-i)	(i) 1/4" dia	MTR	75		
	ch27-21(a-ii)	(ii) 3/8" dia	MTR	100		
	ch27-21(a-iii)	(iii) 1/2" dia	MTR	75		
	ch27-21(a-iv)	(iv) 5/8" dia	MTR	100		
10		<u>Control Wire</u>				

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
	ch24-13(b-iii)	Supply and erection of copper conductor cables for serviceconnection, in prelaid pipe/G.I. wire/trenches, etc. (rate for cable only):- b) PVC insulated, PVC sheathed 3 core, 660/1100 volt cable: iii) 7/0.74 mm (7/0.029")	MTR	45		
11		<u>Drain Pipe</u>				
	ch23/47(a-i)	Providing,laying,testing and commissioning of POLY PROPYLENE RANDOM COPOLYMER (PPRC) water supply pipe made of (Dadex/Popular/Beta/BBJ) with specified pressure rating PN (PRESSURE NOMINAL) and conforming to DIN8077 code i/c cost of solvent, specials, making jharries complete in all respect as approved and directed by Engineer Incharge.(Internal/External Diameters mentioned). a)PN-16 pipe (i)(1/2") 20 mm	MTR	150		
12		<u>Fixtures & Fittings</u>				
	NSI	Supply, Installation, testing and commissioning of following light fittings, ceiling, surface mounted made of MS body 22 SWG degreased and derusted with white enameled non yellowing paint. Complete with electronic blast, lamp holders, power factor correction capacitor, internal wiring, earthing terminal, complete in all respects, fittings shall be duly approved by Architect / Engineer. (Recesssed Ceiling Light 18 W Essential SmartBright LED Gen2 DN027C 900 Lumens 11W or equivalent)	No.	170.00		
	NSI	Supply, Installation, testing and commissioning of following light fittings, ceiling, recessed mounted made of MS body 22 SWG degreased and derusted with white enameled non yellowing paint. Complete with electronic blast, lamp holders, power factor correction capacitor, internal wiring, earthing terminal, complete in all respects, fittings shall be duly approved by Architect / Engineer. (Recesssed Ceiling Light 18 W Essential SmartBright LED Gen2 DN027B or equivalent)	No.	310.00		
	NSI	Supply, Installation, testing and commissioning of following light fittings, ceiling, wall mounted made of MS body 22 SWG degreased and derusted with white enameled non yellowing paint. Complete with electronic blast, lamp holders, power factor correction capacitor, internal wiring, earthing terminal, complete in all respects, fittings shall be duly approved by Architect / Engineer. (Recesssed Ceiling Light 18W Essential SmartBright LED Gen2 DN027B Warm Light or equivalent)	No.	66.00		
	NSI	Supply, Installation, testing and commissioning of following Self contained battery operated "Emergency light" with 1x10 Watts rod make Pierlite, Menvier, Gent or approved equivalent to be installed on wall or as shown on drawings.	No.	63.00		
	NSI	Supply, Installation, testing and commissioning of following Outdoor Water Proof IP Rated with metal finish casing with 12W LED Bulb comeplete in all aspect.	No.	23.00		
	NSI	Supply, Installation, testing and commissioning of following Planter Light Point along with Flood Light .30 W Make Sunlight/ Osaka/	No.	16.00		
	NSI	Supply, Installation, testing and commissioning of following Flanged Type IP-44 16 A 3 Pole Socket with all mounting acessories complete in all aspect	No.	8.00		
13		<u>Telephone System</u>				

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
	NSI	Wiring for each telephone point in M.S box on wall with 4 pair telephone cable Cat. 5e UTP, manufactured by KRONE, CLIPSAL, 3M from respective EPABX's/TJB's to telephone point in and including cost of 25mm dia. PVC conduit heavy duty make Dadex, Beta or as specified in Annexure "A" recessed in slabs, walls, columns or above false ceiling or as required as per site conditions, including RJ11 Face plat make clipsal, Krone or approved equivalent with back box, complete in all respects. Maximum 4 telephone cables each of 4 pairs can be pulled through 25mm dia PVC conduit.	No.	12.00		
	NSI	Supply, Installation, testing and commissioning of 25 Pair telephone junction box along with 25 Pair Cable (TJB) made of 16 SWG sheet metal steel, Powder coated and having hinge cover with lock suitable arrangement for incoming and out going cables with patching arrangement to make system operational complete in all respects as per specifications and to the entire satisfaction of the Engineer.	No.	1.00		
	NSI	Supply, Installation, testing and commissioning of Telephone Extension System (PABX)capable of supports Upto 3 or more CO lines and 24 extensions with Direct inward system access (DISA) with mesaage,3-level automatic reception with voice guidance Uniform call distribution (UCD) with message Day/Night/Lunch mode,Caller ID Display on SLT,Build-in voice message. MAKE Panasonic	No.	1.00		
14		<u>Data Networking & Wifi System</u>				
	NSI	Wiring for each data point in M.S box on wall with 4 pair Data Cable Cat. 6 UTP, manufactured by KRONE, CLIPSAL, 3M from respective EPABX's/TJB's to telephone point in and including cost of 25mm dia. PVC conduit heavy duty make Dadex, Beta or as specified in Annexure "A" recessed in slabs, walls, columns or above false ceiling or as required as per site conditions, including RJ45 Face plate make clipsal, Krone or approved equivalent with back box, complete in all respects. Maximum 4 telephone cables each of 4 pairs can be pulled through 25mm dia PVC conduit.	No.	170.00		
	NSI	Supply at site, installation, testing and commissioning of 10/100/1000 24 ports Gigabit Smart Switch have a facility of power over ethernet (PoE) complete in all respects, as per drawings and specification.MAKE TPLINK, DLINK/ Huwaei equivalent	No.	9.00		
	NSI	Supply at site, installation, testing and commissioning of 24 Ports CAT 6 UTP Patch Panel With Rear Cable Management Tray, Patch Cords CLIPSAL or 3M or equivalent	No.	9.00		
	NSI	Supply at site, installation, testing and commissioning of wireless access point capable of coverage along corridors of 450Mbps, 2.4GHz 450Mbps, 5Ghz 867 Mbps Contractor should perform coverage anaylsis before installing access points. Should be complete in all aspect with all mounting accessories. MAKE Ubiquiti/ TPlink or equivalent	No.	16.00		
	NSI	Supply at site, installation, testing and commissioning of Desktop computer/Server CPU as per requirements of Wireless solution provider including 19" monitor, IO devices for managing the controller with suitable power supply backup UPS for 2 hours battery backup including all necessary accessories complete in all respect.	No.	1.00		
	NSI	Supply at site and installation of following sizes Data racks for the fixing of network switches, Patch Panels with cable organizer, splice trays, perforated doors with locks, mounting rails, leveling feet, 2 removable side door, PDU, exhaust fans etc including all installation accessories as per specification complete in all respect to the approval of engineer. Data Rack 9 U	No.	1.00		

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
	NSI	Supply at site and installation of following sizes Data racks for the fixing of network switches, Patch Panels with cable organizer, splice trays, perforated doors with locks, mounting rails, leveling feet, 2 removable side door, PDU, exhaust fans etc including all installation accessories as per specification complete in all respect to the approval of engineer. Data Rack 6 U	No.	5.00		
15		<u>TV System</u>				
	NSI	Supply, installation, testing and commissioning of RG-6 co-axial cable and wiring for MATV system from TV Junction Box (TVJB) on floor as shown in riser to room TV outlet face Plate, back box 16 SWG 2 coats of antirust paint, PVC conduit 25mm dia from splitter to TV outlet complete in all respects, as per the specifications and drawings and approval by the Engineer.	No.	16.00		
	NSI	Supply, wiring and conduiting of RG-11 co-axial cable from Main JB and to booster and from splitter to splitter in 25 mm dia PVC conduit/Cable Tray, complete with all installation accessories along with booster 8 and 4 and 2 way way splitters, as per the specifications and drawings and approval by the Engineer.	No.	1.00		
16		<u>WIRING ACCESSORIES</u>				
		Supply at site, installation, testing and commissioning of the following wiring accessories, complete in all respects. Made of TJ, HiLife or equivalent approved by engineer incharge				
i)	NSI	Appropriate size of plastic body fan box and ceiling fan rod 24" in length	Nos	171		
17		<u>Fire Alarm System</u>				
i)		<u>Programming, Testing and Commissioning</u>				
	NSI	Programming, Testing and Commissioning of Complete system by authorized certified company complete in all respects as per instructions of the Engineer.	Job	1		
18		<u>Fire Extinguishers</u>				
	NSI	Supply & installation of 1 x 6kg DCP CO2 Fire Extinguishers installed as per instructions of Cleint, complete with wall hanging and mounting arrangement complete in all respects. Complete in all respect as per instructions by site engineer	Nos.	30		
19		<u>GROUNDING SYSTEM</u>				
i)		<u>Grounding Plate</u>				
	NSI	Ground electrode for the Grounding of LT electrical system . The Ground electrode shall comprise 600 x 600 x 6mm Thick Copper plate with Four nos. 1/2 inch dia copper nuts, bolts and washers, 02 Nos 70sqmm bare stranded Copper wire as Grounding leads, TWO inch dia GI pipe (15 feet long), lime and charcoal (Ratio 1:3), inspection chamber (CC 1:4:8), light duty CI cover, excavation & backfilling, all accessories as per site requirements & as directed by the Engineer, complete. A pit of dimensions 4 feet x 4 feet & 15 feet deep shall be excavated in the ground. The lime and charcoal shall be mixed thoroughly in the ratio of 1:3 with ONE foot thick hard packed bed in pit. The Copper plate with Grounding leads shall be placed vertically above the lime and charcoal bed. The 2nos. 70sqmm single core stranded Grounding leads shall be connected diagonally to the nuts and bolts on the copper plate, brought out through the GI pipe upto the first grounding connection point.	No.	1		
20		<u>Grounding Connection Point</u>				
	NSI	Supply of Grounding connecting points consisting of copper plate 300mm long x50mm wide x 6mm thick to be installed, complete with fixing arrangement, brass nuts bolts, washers, lugs, 12.5mm dia. holes to facilitate connections of Incoming copper strips / copper conductors.	Nos.	1		
iii)		<u>Testing and commissioning</u>				

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
	NSI	Testing and commissioning of the earthing system in the presence of site engineer with electronic devices such as megger etc, making so report with after approximating 3 time testing and the grounding ohm must be less than or upto 3 ohms	Nos.	1		
21		Duct Panel				
		Supply at site and installation of dura duct on wall where necessary on per instruction of engineer incharge				
i)	NSI	16 x 16 mm	Rmtr	250		
ii)	NSI	16 x 25 mm	Rmtr	150		
22		Air Conditioner				
		Supply at site with installation, testing and commissioning of Split AC Unit				
	NSI	1.5 Ton	Nos.	16.00		
	NSI	2 Ton	Nos.	24.00		
23		Passenger Lift				
	NSI	Supply, installation, testing and commissioning of brand new fully imported Edunburgh Brand,Orion or Equivalent as per specifications. 1 Elevator Type Passenger Motor Drive Elevator A.2 Application College Building A.3 Shaft Structure Concrete Shaft A.4 Shaft Size 8.9 Feet x 6 Feet A.5 Machine Room Directly above the shaft A.6 Mechanism Gearless A.7 Travel Height 27.5 meter Approx A.8 Elevator Capacity 630 Kg A.9 Floors/Doors/Stops 7 Floors / 7 Doors / 7 Stops A.10 Elevator Machine 3.9 Kw, Motor Drive A.11 Control System VVV3F, Collective Selective, 380v AC, 24v DC Operation. A.12 Cab & Door Interior Cabin & Door Full support of tempered glass with HSS Frame Center Opening Fully Auto full SS door A.13 Standard This elevator as designed according to EN81-1 & meet all the requirements of CE certification A.14 Safety Standard EN-81-1 (C Union Safety Code for Elevators) as approved or directed by engineer incharge.	Job	1		
24		Cargo Lift				
	NSI	Supply, installation, testing and commissioning of brand new fully imported Edunburgh Brand,Orion or Equivalent as per specifications. 1 Elevator Type Passenger Motor Drive Elevator A.2 Application College Building A.3 Shaft Structure Concrete Shaft A.4 Shaft Size 8.9 Feet x 8.3 Feet A.5 Machine Room Directly above the shaft A.6 Mechanism Gearless A.7 Travel Height 27.5 meter Approx A.8 Elevator Capacity 1600 Kg A.9 Floors/Doors/Stops 7 Floors / 7 Doors / 7 Stops A.10 Elevator Machine 3.9 Kw, Motor Drive A.11 Control System VVV3F, Collective Selective, 380v AC, 24v DC Operation. A.12 Cab & Door Interior Cabin & Door Full support of tempered glass with HSS Frame Center Opening Fully Auto full SS door A.13 Standard This elevator as designed according to EN81-1 & meet all the requirements of CE certification A.14 Safety Standard EN-81-1 (C Union Safety Code for Elevators) as approved or directed by engineer incharge.	Job	1		
GRAND TOTAL OF ELECTRICAL WORKS						

**CONSTRUCTION OF GIRLS HOSTEL AT PAKISTAN INSTITUTE OF FASHION
AND DESIGN, LAHORE**

(COVERED AREA = 47000 SFT)

BILL OF QUANTITIES

GUARD ROOM

SUMMARY OF COST

MRS, 1st BI-ANNUAL-2025 (01.01.2025 to 30.06.2025) DISTRICT LAHORE

Sr. No.	DESCRIPTION	AMOUNT
1.	CIVIL WORKS	
2.	PUBLIC HEALTH WORKS	
3.	ELECTRIC WORKS	
	TOTAL OF GUARD ROOM	

CONSTRUCTION OF GIRLS HOSTEL AT PAKISTAN INSTITUTE OF FASHION AND DESIGN, LAHORE

(COVERED AREA = 47000 SFT)

BILL OF QUANTITIES

CIVIL WORKS

MRS, 1st BI-ANNUAL-2025 (01.01.2025 to 30.06.2025) DISTRICT LAHORE

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
1	C-3/21(2)-(ii)	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain (30 m) and lift upto 5 ft. (1.5 m) b) in ordinary soil.	%0Cft	1157.50		
2	3/13/a	a) Lead upto a single throw of Kassi, phaorah or shovel	%0Cft	578.75		
3	C-26/44	Spraying anti termite proofing by using liquid FMC Biflex 2.5%EC Per Sft 1.20 10.00 Sq.m 13.00 107.50 Mixing Ratio 1:50=137-Sft or using liquid MIRAGE Ali Akbar /RANGERS Auriga 5% SC Mixing Ability-HEXTAR Ratio 1:110=205-Sft or any other equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10- years complete in all respect .as approved by the Engineer Incharge	P.Sft	1515.00		
4	6/5/i	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):(i) Ratio 1: 4: 8	%Cft	252.50		
5	C-7/4(i)	Pacca brick work in foundation and plinth in Cement,sand mortar. Ratio 1:6	%Cft	886.88		
6	C-6/37(a-ii)	Providing and laying damp proof course of cement concrete 1:2: 4 (using cement, sand and shingle), including bitumen coating :- (a) with one coat bitumen and one coat polythene sheet 500gauge ii) 2" thick (50 mm)	%Sft	292.50		
8	C-6/39(a-ii)	Providing and laying Vertical damp proof course with cement sand plaster and bitumen coating:- (a) with one coat of bitumen and one coat of polythene sheet 500 gauge :- ii) Ratio 1:3 b) ¾ " thick (20mm)	%Sft	240.00		
10	C-7/5(i)	Pacca brick work in Ground Floor cement, sand mortar Ratio 1:5	%Cft	1302.23		
11	C-7/5(i) + 6(i)	Pacca brick work in first floor cement, sand mortar Ratio 1:5	%Cft	418.50		
12	C-6/6 a-2	Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- Type B (nominal mix 1: 1.5: 3), Ground Floor	Cft	339.83		

CONSTRUCTION OF GIRLS HOSTEL AT PAKISTAN INSTITUTE OF FASHION AND DESIGN, LAHORE

(COVERED AREA = 47000 SFT)

BILL OF QUANTITIES

CIVIL WORKS

MRS, 1st BI-ANNUAL-2025 (01.01.2025 to 30.06.2025) DISTRICT LAHORE

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
13	C-6/13 b-ii	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars):- Deformed bars (Grade-60)	100Kg	1395.01		
14	C-11/10(b) + 28	Cement plaster 3/8" thick under soffit or R.C.C. roof slab only Ground Floor ratio 1:3.	%Sft	725.00		
15	C-11/9(b)	Cement plaster 1:4 upto 20' (6.00 m) height:- ½" (13 mm) thick. (Internal Ground Floor + First Floor)	%Sft	2480.31		
16	C-11/9(c)	Cement plaster 1:4 upto Ground Floor Slab:- c) ¾" (20 mm) thick. (External)	%Sft	2673.00		
17	10/3	Supplying and filling sand under floor; or plugging in wells.	%Cft	297.50		
18	6/2	Dry rammed brick or stone ballast, 1½" to 2"(40 mm to 50 mm) gauge.	%Cft	241.04		
19	6/5/f	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): (f) Ratio 1: 2: 4	%Cft	121.27		
20	C-10/23(a)	1½"(40 mm) thick mosaic flooring, consisting of ½ "(13 mm) mosaic topping of one part of cement and marble powder in the ratio of 3:1 and two parts of marble chips, laid over 1"(25 mm) thick floor of 1:2:4 cement concrete, including rubbing and polishing complete with finishing :- (a) using grey cement. Ground Floor	%Sft	600.00		
21	C-10/37 (a-ii)	Mosaic dado or skirting with one part of cement and marble powder in the ratio of 3:1 and two parts of marble chips, laid over ½"(13 mm) thick cement plaster 1:3, including rubbing and polishing, complete with finishing: (a) using grey cement : ii) ½"(13 mm) thick Ground Floor	%Sft	124.74		
22	C-13/46	Providing and applying wall putty of 2mm thickness over plastered surface (new surface) to prepare the surface even and smooth complete in all respect.	%Sft	3673.00		
23	C-13/31 (a+b)	Preparing surface and painting with emulsion paint three coats.	%Sft	3673.00		
24	C-13/33-a- (i+ii)	Providing and applying weather shield paint of approved quality on external surface of building including preparation of surface, application of primer complete in all respect: a) new surface: Two coats	%Sft	2398.00		

CONSTRUCTION OF GIRLS HOSTEL AT PAKISTAN INSTITUTE OF FASHION AND DESIGN, LAHORE

(COVERED AREA = 47000 SFT)

BILL OF QUANTITIES

CIVIL WORKS

MRS, 1st BI-ANNUAL-2025 (01.01.2025 to 30.06.2025) DISTRICT LAHORE

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
25	12/49/i	Providing and fixing 1½" (40 mm) thick hollow flush doors and windows with commercial ply (3 ply) on both faces of deodar wood shutter frame 1¼" (30 mm) thick and partial wood braces at about 3" (75 mm) apart and deodar wood lipping 1½"x3/8" (40 mmx10 mm) fixed with M.S. chowkat (frame) including chromium plated fittings, etc. complete in all respects (without sliding bolt or lock):- i) M.S. angle iron 1½"x1½"x¼", welded (40 mmx40 mmx 6mm) with M.S. flat 2"x¼" (50 mm x 6 mm)	P Sft	119.00		
26	12/59	Providing and fixing Vin board cabinet ¾" thick with drawers 3" deep in 'Kitchen including termite proofing and polishing with synthetic enamel as specified, with handles hinges,screws etc., complete in all respects.iv) 2' deep,with back	P Sft.	20.00		
27	25/31	Making and fixing steel grated door with 1/16" thick (1.5mm) sheeting, including angle iron frame 2"x2"x3/8" (50x50x10 mm) and ¾" (20 mm) square bars 4" (100 mm) centre to centre, with locking arrangement.	P Sft.	63.00		
28	C-12/60(b) - (ii)	P/F ¾" dia heavy duty sliding bolt of specified material i/c the cost of hardware complete in all respect as approved and directed by theEngineer Incharge. (ii) 12" (300 mm) long	Each.	4.00		
29	C-12/22	Providing and fixing, approved quality mortice lock	Each.	4.00		
30	C-13/5 c(i+ii)	Painting new surface:- c) Preparing surface and painting of doors and windows any type (including edges):- 3 coats	%Sft	364.00		

CONSTRUCTION OF GIRLS HOSTEL AT PAKISTAN INSTITUTE OF FASHION AND DESIGN, LAHORE

(COVERED AREA = 47000 SFT)

BILL OF QUANTITIES

CIVIL WORKS

MRS, 1st BI-ANNUAL-2025 (01.01.2025 to 30.06.2025) DISTRICT LAHORE

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
31	C-25/52	Providing and fitting all types of glazed aluminium windows of anodised bronze colour partly fixed and partly sliding using delux sections of approved manufacturer having frame size of 100 x 30 mm (4"x1-1/4") and leaf frame sections of 50 x 20 mm (2"x3/4"), all of 1.6mm hickness including 5 mm thick imported tinted glass with rubber gasket using approved standard latches, hardware etc., as approved by the Engineer in-charge.	P Sft.	90.69		
32	C-25/53	Providing and fixing Aluminum Fly screen comprising of Fiber / Aluminum wire gauze (Malasian) fixed in aluminum frame of approved manufacturer brownze colour / powder coated of size 1-1/2" x 1/2" and 1.6mm thick with rubber gasket i/c cost of hardwares as approved and directed by the engineer incharge complete in all respect.	P Sft.	90.69		
33	Ch-25/59-(ii)	Providing and fixing M.S. grill fabricated with MS Square polished Vertical/ horizontal Bars of specified size @ 4" c/c ' passed through punched holes in MS Patti of 1-1/4"x1/8" i/c the cost of 1-1/4"x1/8" MS patti for Frame of windows and painting 3 coat complete in all respect as approved and directed by the Engineer Incharge. (ii) 1/2" Squar Bars	P Sft.	90.69		
34	9/35/iii	Providing and laying roof insulation, comprising of single layer of tiles 9"x4½"x1½" (225x113x40 mm) grouted with cement sand mortar 1:3 laid over 2" (50 mm) thick earth (including mud plaster) over thermopore sheet, over polythene sheet 300 gauge over a layer of bitumen, complete in all respects:- iii) Thermopore sheet 1" (25 mm) thick	%Sft	595.00		
35	9/15	Khuras on roof 2'x2'x6" (600 x 600 x 150 mm)	Each.	4.00		
36	9/16	Bottom Khuras of brick masonry in cement mortar 1:6, 4'x2'x4½" (1200x600x113 mm) over 3" (75 mm) cement concrete 1:4:8.	Each.	4.00		
37	C-10/24 (i)	Providing and laying superb quality Ceramic tile floors of Master brand of specified size, Glossy/Matt/Texture of approved Color and Shade as per approved design with adhesive bond, over 3/4" thick (1;2) cement sand plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects and as approved and directed by the Engineer Incharge. i) 12"x18"/12"x24"/10"x24"/8"x24"/12"x36"	Sft	125.00		

CONSTRUCTION OF GIRLS HOSTEL AT PAKISTAN INSTITUTE OF FASHION AND DESIGN, LAHORE**(COVERED AREA = 47000 SFT)****BILL OF QUANTITIES****CIVIL WORKS****MRS, 1st BI-ANNUAL-2025 (01.01.2025 to 30.06.2025) DISTRICT LAHORE**

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
38	C-10/25 (i)	Providing and laying superb quality Ceramic tiles dado of Master brand of specified size, Glossy/Matt/Texture skirting/dado of approved Color and Shade with adhesive bond over 1/2"thick (1:2) cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects as approved and directed by the Engineer Incharge. i) 12"x18"/12"x24"/10"x24" /8"x24"/12"x36"	Sft	400.00		
39	C-10/52 (i)	Providing and laying Prepolished Granite of specified thickness and shade of full width of approved quality laid with adhesive bond over 3/4" thick (1:2) cement sand mortar bed , complete in all respect as approved and directed by the Engineer Incharge. (i) 3/4" thick	Sft	13.31		
40	C-7/37	Providing and laying fair face Gutka cladding laid in (1:2) cement / red posso mortar having 1/4" thick groove finish i/c cost of 8 SWG wire in shape of 8 placed horizontally and vertically at 36" and 18" c/c respectively i/c cutting charges as per approved drawing , complete in all respect as approved and directed by the Engineer Incharg i. 2-1/4" x 2-1/4" x 9"	Sft	528.00		
GRAND TOTAL OF CIVIL WORKS						

**CONSTRUCTION OF GIRLS HOSTEL AT PAKISTAN INSTITUTE OF FASHION AND DESIGN,
LAHORE**

(COVERED AREA = 47000 SFT)

BILL OF QUANTITIES

PUBLIC HEALTH WORKS

MRS, 1st BI-ANNUAL-2025 (01.01.2025 to 30.06.2025) DISTRICT LAHORE

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
1	Ch 19/4	Providing and fitting glazed earthen ware water closet, squatter type (Orisa pattern), combined with foot rest. i) white	Each.	2		
2	Ch 19/13 (i)	Providing and fitting plastic made low down flushing cistern 13.63 litre (3 gallons) capacity, including bracket set, copper connection, etc. complete. i) white	Each.	2		
3	Ch 19/10- (i)	Providing and fixing glazed earthen ware sink, including bracket set, waste pipe and waste coupling:- i) 60x45 cm (24"x18")	Each.	1		
4	19/29/ii	Providing and fixing chromium plated shower rose:- ii) 2x15 cm (¾"x6")	Each.	1		
5	19/30	Providing and fixing, chromium plated mixing valve, for wash hand basin, sink or shower.	Each.	2		
6	19/24/ii	Providing and fixing chromium plated pillar-cock, heavy:- ii) 1.5 cm (½")	Each.	2		
7	19/28	Providing and fixing chromium plated tee stop cock 15mm (½").	Each.	2		
8	19/18	Providing and fixing chromium plated toilet paper holder.	Each.	2		
9	19/19 (i)	Providing and fixing, chromium plated towel rail:- i) 60 cm (24") long, and 2 cm (¾") dia.	Each.	1		
10	19/36	Providing and fitting 10 cm (4") gully trap, including cement concrete, cost of PVC grating 15x15 cm (6"x6") and masonry chamber 30x30 cm (12"x12").	Each.	2		
11	19/34	Providing and fixing, floor trap of cast iron, including concrete chamber all round, and C.I. grating:-ii) 10x7.5 cm (4"x3")	Each.	4		
12	19/35 (ii)	Providing and fitting "P" trap:ii) 10 cm (4") glazed.	Each	4		
13	19/27/i	Providing and fixing chromium plated bib cock:- i) 2 cm (¾")	Each.	2		
14	19/32/ii	Providing and fitting, chromium plated or brass oxidised, swan neck cock 15 mm (½") dia. ii) two way	Each.	1		
15		WATER SUPPLY PIPES AND FITTINGS				
	Ch 23/48	Providing, laying, testing and commissioning of POLYPROPYLENE RANDOM COPOLYMER (PPRC) water supply pipe made of (Dadex /Popular/ Beta / BBJ) with specified pressure rating PN (PRESSURE NOMINAL)and conforming to DIN 8077-8078 code i/c cost of solvent, specials,making jharries complete in all respect as approved and directed by Engineer Incharge.(Internal/External Diameters mentioned) b) PN-20 pipe				

**CONSTRUCTION OF GIRLS HOSTEL AT PAKISTAN INSTITUTE OF FASHION AND DESIGN,
LAHORE**

(COVERED AREA = 47000 SFT)

BILL OF QUANTITIES

PUBLIC HEALTH WORKS

MRS, 1st BI-ANNUAL-2025 (01.01.2025 to 30.06.2025) DISTRICT LAHORE

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
	i	20 mm dia.	P.Rft	15		
	ii	25 mm dia.	P.Rft	26		
	iii	32 mm dia.	P.Rft	62		
	iv	40 mm dia.	P.Rft	15		
16		SOIL, WASTE, VENTILATING PIPES & FITTINGS				
	Ch 19/48	Providing, fixing, testing and commissioning of μ -PV C (Unplasticized Polyvinyl Chloride) Nikasi/SWV pipe, Dadex/Popular /Beta or approved equivalent manufacturer, plain / Bell Ended / Z-Joints conforming to BS 4514 / BS 5255 - EN 1329 including the cost of specials and Solvents complete in all respects, as per drawings & specifications and/or as approved and directed by the Engineer Incharge				
	iv	82 mm dia.	P.Rft	15		
	v	110 mm dia.	P.Rft	50		
17		VALVES				
	Ch 23/45	Providing and fixing CP heavy duty brass Ball valve with CP handle of specified diameter made of Faisal/Sonex / Master best quality or equivalent complete in all respect as approved and directed by the Engineer Incharge.				
	iii	1 inch	Each	3		
	iv	1-1/4 inch	Each	4		
18	NSI	Making of manhole size 3'x2-1/2'x3' brick work, plaster complete as requirement including RCC manhole cover 22" dia with Tee shape C.I frame complete in all respect as per engineer Incharge.	Job	2		
GRAND TOTAL OF PUBLIC HEALTH WORKS						

CONSTRUCTION OF GIRLS HOSTEL AT PAKISTAN INSTITUTE OF FASHION AND DESIGN, LAHORE

(COVERED AREA = 47000 SFT)

BILL OF QUANTITIES

ELECTRICAL WORKS

MRS, 1st BI-ANNUAL-2025 (01.01.2025 to 30.06.2025) DISTRICT LAHORE

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
1		WIRING IN CONCEALED CONDUITS				
	ch/24-11(a-i)	Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only). (3.029)	Rft.	690		
	ch/24-11(a-iii)	Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only). (7.029)	Rft.	130		
	ch/24-11(a-iv)	Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only). (7.036)	Rft.	250		
	ch/24-3(ii)	Supply and erection of PVC pipe for wiring recessed in walls, including bends, inspection joints, boxes, pull boxes, hook, cutting and repair surface etc. completed with all specified. (20 mm i/d)	Rft.	115		
	ch/24-3(iii)	Supply and erection of PVC pipe for wiring recessed in walls, including bends, inspection joints, boxes, pull boxes, hook, cutting and repair surface etc. completed with all specified. (25 mm i/d)	Rft.	240		
2		LT CABLES				
		Supply at site, installation, testing and commissioning of PVC insulated armoured copper conductor cable 600 / 1000 Volt grade (or otherwise mentioned in cable description) in prelaid conduits / trenches to be installed as per routes shown on drawings including cost of all necessary materials, connections, identification tags, cables lugs properly crimped at both ends for the following sizes complete in all respects. Actual length of cables to be installed shall be practically measured at site by the Contractor, duly authenticated by the Engineer before placing the order with the manufacturer, however, approximate length of cables are shown herewith. Payments shall be made as per actual length installed. Cable should be of FAST, Newage or universal cables and conduit should be of Solo,popular,easyfit or equivalent as approved by engineer incharge				
	ii) ch/24/14 (c-vi)	Supply and erection of copper conductor cables for service connection, in prelaid pipe/G.I. wire/trenches, etc. (rate for cable only):- c) PVC insulated, PVC sheathed 4 core, 660/1100 volt non armoured cable:- vi) 10 mm sq (7/0.052")	R.Ft	50		
3		GROUNDING SYSTEM				
i)		Grounding Cables				

		Supply at site, installation, testing and commissioning of PVC insulated non armoured copper conductor cable 450/ 750 Volt grade (or otherwise mentioned in cable description) in prelaid conduits / trenches to be installed as per routes shown on drawings including cost of all necessary materials, connections, identification tags, cables lugs properly crimped at both ends for the following sizes complete in all respects. Actual length of cables to be installed shall be practically measured at site by the Contractor, duly authenticated by the Engineer before placing the order with the manufacturer, however, approximate length of cables are shown herewith. Payments shall be made as per actual length installed. Cable should be of FAST, Newage or universal cables and conduit should be of Solo,popular,easyfit or equivalent as approved by engineer incharge				
a	ch/24/13 (ii)	Supply and erection of single core PVC insulated, PVC sheathed copper conductor, 660/1100 volts grade cable, in prelaid G.I. pipe/M.S. conduits/PVC pipe/G.I. wire/trenches, etc (rate for cable only):- iii) 10 mm sq (7/0.052")	R.ft	50		
4		<u>DISTRIBUTION BOARD</u>				
		<u>INCOMING</u>				
	ch24-89/(a-ii)	Supplying ,Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge. a) Tripple Pole (ii) 15-100 Amp (10 KA,15KA)	Each	1		
		<u>OUTGOING</u>				
		Suppling,Installation and comissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY /SIEMEN GERMAN/TERASAKI JAPAN/ ABB SWITZERLAND in prelaid DBs and Panels i/c the cost of screwes,necessary wire complete in all respect as approved and directed by the Engineer Incharge.				
	ch24-88/(a-ii)	a) Single Pole (ii) 6-40 Amp (6 KA)	Each	3		
5		<u>MISCELLANEOUS FITTINGS</u>				
		Providing and fixing Pakistan Energy Label NEECA approved Copper winded Ceiling Fan i/c the cost of necessary cable and hardware for connection as approved and directed by Engineer Incharge.				
	ch24-107/(iii)	(a) Ceiling Fan (iii) 56" dia	Each	2		
	ch24-106/(ii)	(a) Bracket Fan (ii) 24" sweep dia	Each	2		
	ch24-105/(a-ii)	(a) Plastic body (ii) 12" dia	Each	2		
6		<u>WIRING ACCESSORIES</u>				
		P/F PVC double layer Switch kit Faceplate with specified switch holes i/c the cost of switches / sockets / dimmer made of Legrand / ABB / Schenider or approved equivalent manufacturer, screws complete as approved and directed by the Engineer Incharge				
		(a) One way Gange Switch				
	ch24-108 (a-vi)	(vi) Fan Dimmer	No.	2		
	ch24-108 (a-ii)	Small (ii) 02 Gange	No.	1		

	ch24-108 (a-iv)	(iv) Three pin Light Plug 10/13 Amp	No.	3		
	ch24-108 (b-i)	Large (i) 04 Gauge	No.	2		
	ch24-108 (a-viii)	(viii) Three Pin Power Plug 15-32 Amp	No.	1		
		P/F PVC concealed Switch kit Box i/c the cost of screws complete as approved and directed by the Engineer Incharge				
	ch24-110 (i)	(i) Small	No.	3		
	ch24-110 (ii)	(ii) Large	No.	2		
8		Fixtures & Fittings				
	NSI	Supply, Installation, testing and commissioning of following light fittings, ceiling, surface mounted made of MS body 22 SWG degreased and derusted with white enameled non yellowing paint. Complete with electronic blast, lamp holders, power factor correction capacitor, internal wiring, earthing terminal, complete in all respects, fittings shall be duly approved by Architect / Engineer. (Recesssed Ceiling Light 18 W Essential SmartBright LED Gen2 DN027C 900 Lumens 11W or equivalent)	No.	6		
	NSI	Supply, Installation, testing and commissioning of following light fittings, ceiling, recessed mounted made of MS body 22 SWG degreased and derusted with white enameled non yellowing paint. Complete with electronic blast, lamp holders, power factor correction capacitor, internal wiring, earthing terminal, complete in all respects, fittings shall be duly approved by Architect / Engineer. (Recesssed Ceiling Light 18 W Essential SmartBright LED Gen2 DN027B or equivalent)	No.	4		
	NSI	Supply, Installation, testing and commissioning of following light fittings, ceiling, wall mounted made of MS body 22 SWG degreased and derusted with white enameled non yellowing paint. Complete with electronic blast, lamp holders, power factor correction capacitor, internal wiring, earthing terminal, complete in all respects, fittings shall be duly approved by Architect / Engineer. (Recesssed Ceiling Light 18W Essential SmartBright LED Gen2 DN027B Warm Light or equivalent)	No.	6		
GRAND TOTAL OF ELECTRICAL WORKS						

**CONSTRUCTION OF GIRLS HOSTEL AT PAKISTAN INSTITUTE OF FASHION
AND DESIGN, LAHORE**

(COVERED AREA = 47000 SFT)

BILL OF QUANTITIES

SUMMARY OF COST

MRS, 1st BI-ANNUAL-2025 (01.01.2025 to 30.06.2025) DISTRICT LAHORE

Sr. No.	DESCRIPTION	AMOUNT
3.	EXTERNAL DEVELOPMENT	
i	TUBEWELL ROOM WITH MECHANICAL WORKS	
ii	BOUNDARY WALL	
iii	PARKING AND LANDSCAPING AREA	
iv	DRAINAGE	
v	FIRE FIGHTING PUMP ROOM	
vi	EXTERNAL PLUMBING WORKS	
vii	EXTERNAL ELECTRICAL WORKS	
	External Civil Works TOTAL	

**CONSTRUCTION OF GIRLS HOSTEL AT PAKISTAN INSTITUTE OF FASHION AND
DESIGN, LAHORE**

(COVERED AREA = 47000 SFT)

TUBEWELL ROOM WITH MECHANICAL WORKS

BILL OF QUANTITIES

SUMMARY OF COST

MRS, 1st BI-ANNUAL-2025 (01.01.2025 to 30.06.2025) DISTRICT LAHORE

Sr. No.	DESCRIPTION	AMOUNT
1.	CIVIL WORKS	
2.	PLUMBING WORKS	
3.	MECHANICAL WORKS	
4.	ELECTRICAL WORKS	
	TOTAL OF TUBEWELL ROOM WITH MECHANICAL WORKS	

CONSTRUCTION OF GIRLS HOSTEL AT PAKISTAN INSTITUTE OF FASHION AND DESIGN, LAHORE

(COVERED AREA = 47000 SFT)

BILL OF QUANTITIES

CIVIL WORKS

MRS, 1st BI-ANNUAL-2025 (01.01.2025 to 30.06.2025) DISTRICT LAHORE

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
1	C-3/21 (1)-ii	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain (30 m) and lift upto 10 ft. (1.5 m) a) By Manual or Excavator: in ordinary soil.	%0 Cft	819.02		
2	C-26/45	Spraying anti termite proofing by using liquid FMC Biflex 2.5%EC Per Sft 1.20 10.00 Sq.m 13.00 107.50 Mixing Ratio 1:50=137-Sft or using liquid MIRAGE Ali Akbar /RANGERS Auriga 5% SC Mixing Ability-HEXTAR Ratio 1:110=205-Sft or any other equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10- years complete in all respect .as approved by the Engineer Incharge	P.Sft	1,181.40		
3	C-6/5 (i)	Cement concrete plain including placing,compacting, finishing and curing complete (including screening and washing of stone aggregate) (i) Ratio 1: 4: 8	% Cft	151.39		
4	C-6/6 (a) (i) & (ii) - 3	Reinforced cement concrete in slab of rafts / strip foundation, base slab of column and retaining walls; etc and other structural members other than those mentioned above not requiring form work (i.e. horizontal in shuttering) complete in all respects:- Type C (nominal mix 1: 2: 4)	P.Cft	66.83		
5	C-6/6 a-i (3)	Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- Type C (nominal mix 1: 2: 4), Ground floor	P.Cft	127.54		
6	C-6/12 b-ii	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars):- Deformed bars (Grade-60)	% Kg	1,979.40		
7	C-7/4(i)	Pacca brick work in foundation and plinth in Cement,sand mortar. Ratio 1:6	% Cft	596.48		
8	C-3/15(i)	Filling, watering, ramming earth under floors (with surplus earth foundation).	%0Cft	273.01		
9	C-3/15(ii)	Filling, watering and ramming earth under floors:-ii) with new earth excavated from outside lead upto one chain (30 m).	%0Cft	650.53		
10	C-3/17	Transportation of earth all types when the total distance, this rate will be paid inaddition to the including the lead covered in the item of work, is more than rate of earthwork, without deducting 1000 ft. (300 m) (Lead will be paid as per actual but not more than 7km)				
	a	upto ¼ mile (400 m).	%0Cft	650.53		
	b	for every 330 ft. (100 m) additional lead or part thereof, beyond ¼ mile (400 m) upto one mile. (1.6 Km.)	%0Cft	650.53		
	c	for every ¼ mile (400 m) additional lead or part thereof, beyond one mile (1.6 Km.) upto 5 mile (8 Km).	%0Cft	650.53		
11	C-7/4(i)	Pacca brick work in ground floor cement, sand mortar Ratio 1:5	% Cft	622.88		
12	C-11/11(b)	Cement plaster 1:5 upto 20' (6.00 m) height:- ½" (20 mm) thick. (Internal Ground Floor	%Sft	712.80		
13	C-11/9(b)	Cement plaster 1:4 upto 20' (6.00 m) height:- c) ¾" (20 mm) thick. (External)	%Sft	49.30		
14	C-11/18(b)	Cement pointing struck joints, on walls, upto 20' (6.00 m) hieght:-b) ratio 1:3	%Sft	1,190.20		

CONSTRUCTION OF GIRLS HOSTEL AT PAKISTAN INSTITUTE OF FASHION AND DESIGN, LAHORE

(COVERED AREA = 47000 SFT)

BILL OF QUANTITIES

CIVIL WORKS

MRS, 1st BI-ANNUAL-2025 (01.01.2025 to 30.06.2025) DISTRICT LAHORE

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
15	C-11/10(b)	Cement plaster 3/8" thick under soffit or R.C.C. roof slab only Ground Floor ratio 1:3.	%Sft	200.48		
16	C-11/31	Extra cost of labour and material for red oxide pigment in cement pointing to match with the colour of bricks.	% Sft	1,309.22		
17	C-11/23-a-(iii)	Preparing surface and painting with emulsion paint three coats.	%Sft	1028.00		
18	C-11/22	Priming coat of chalk under distemper.	% Sft	1,826.55		
19	C-10/4	Providing, laying, watering and ramming brick ballast 1½" to 2"(40 mm to 50 mm) gauge mixed with 25% sand, for floor foundation, complete in all respects.	%Cft	322.96		
20	C-6/5(f)	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):(f) Ratio 1: 2: 4	%Cft	161.48		
21	C-10/16(e)	Providing and laying topping of cement concrete 1:2:4, including surface finishing and dividing in panels. 2" (50mm) thick topping of plinth protection.	% Cft	341.29		
22	C-9/5	Single layer of tiles 9"x4½"x1½" (225x113x40 mm) laid over 4"(100 mm) earth and 1" (25 mm) mud plaster without Bhoosa, grouted with cement sand 1:3 on top of RCC roof slab, provided with 34 lbs. per %Sft. or 1.72 Kg/Sq.m bitumen coating sand blinded.	% Sft	200.48		
23	C-9/15	Khuras on roof 2'x2'x6" (600 x 600 x 150 mm)	Each	2.00		
24	C-10/23(a)	1½"(40 mm) thick mosaic flooring, consisting of ½ "(13 mm) mosaic topping of one part of cement and marble powder in the ratio of 3:1 and two parts of marble chips, laid over 1"(25 mm) thick floor of 1:2:4 cement concrete, including rubbing and polishing complete with finishing :- (a) using Grey cement. Ground Floor	%Sft	200.48		
25	C-10/44(a)	Providing and fixing marble strip of any shade for dividing the mosaic flooring into panels. Size 1½" x 3/8" (40 x 10 mm)	P.Rft	143.34		
26	C-10/37 (a-ii)	Mosaic dado or skirting with one part of cement and marble powder in the ratio of 3:1 and two parts of marble chips, laid over ½"(13 mm) thick cement plaster 1:3, including rubbing and polishing, complete with finishing: (a) using Grey cement : ii) ½"(13 mm) thick	%Sft	19.60		
27	C-10/48 (ii)	Providing and laying flooring with China Verona Marble having uniform texture (Spotless) of required size and specified thickness, with adhesive bond over 3/4" thick bedding of (1:2) cement sand mortar i/c the cost of matching sealer, cutting, grinding and chemical polishing complete in all respect as approved and directed by the Engineer Incharge. ii) 3/4" thick (12"x24"/12"x36") (Tread)	P.Sft	19.80		
28	C-10/48 (i)	Providing and laying flooring with China Verona Marble having uniform texture (Spotless) of required size and specified thickness, with adhesive bond over 3/4" thick bedding of (1:2) cement sand mortar i/c the cost of matching sealer, cutting, grinding and chemical polishing complete in all respect as approved and directed by the Engineer Incharge. i) 1/2" thick(12"x12"/12"x24") (Riser)	P.Sft	9.90		
29	C-25/62	P/F Iron door comprising of specified leaves made of 1-1/4"x1-1/4"x3/16" MS angle iron for leaf frame, diagonal and horizontal braces duly welded with MS. sheet 18-SWG i/c the cost of sliding bolt, tower bolt and painting 3-coats but excluding the cost of Chowkat complete in all respect as approved and directed by the Engineer incharge (ii) Double Leaf	P.Sft	30.80		

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BILL OF QUANTITIES

CIVIL WORKS

MRS, 1st BI-ANNUAL-2025 (01.01.2025 to 30.06.2025) DISTRICT LAHORE

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
30	C-25/42(b)	Providing and fixing steel windows using M.S. sheet (16 SWG) moulded tubular pipe 1-1/2"x1-1/2" (40x40mm) for frame and 1-1/4"x1-1/4" (30x30mm) for leaves including M.S square bars 1/4"x1/4" (6x6mm) welded around each panel of frame, 5mm thick glass panes fixed with double M.S square tubular pipe 3/8"x3/8" (10x10mm) (22 SWG) beading with U shaped rubber lining, brass fitting, holdfast, including painting three coats complete in all respects.For fixed panels without wire gauge.	P.Sft	18.48		
31	C-13/5 c(i+ii)	Painting new surface:- c) Preparing surface and painting of doors and windows any type (including edges):- i) priming coat ii) 2 subsequent coat of paint.	%Sft	158.40		
32	C-13/9(i)	Bitumen coating to plastered or cement concrete surface:-i) 20 lbs. per 100 Sft. (9.07 Kg per Sq.m)	%Sft	66.83		
33	C-26/39(ii)	Supplying and laying polythene sheet over D.P.C. under floors and on roofs, etc.ii)500 gauge (.005" thick)	P.Sft	588.06		
34	C-9/36	Providing and fixing AC rain water down pipe 4" (100 mm) dia, with shoe, T-bend, clamp, etc.	P.Rft	25.00		
35	C-23/61	Providing and fixing Chain Pulley Block of 5 ton capacity with 5 meter length of chain, as per required specifications complete in all respect and as approved by the Engineer Incharge	Each	1.00		
36	C-1/1	Carriage of 100 Cft. (2.83 cu.m) of all materials like stone aggregate, spawl, kankar lime (unslaked), surkhi, etc. or 150 Cft. (4.25 cu.m) of timber, by truck or by any other means owned by the contractor. (Lead will be Paid as Actual but not more than 220 Km (Sargodha Pull 111 to PKLI Site)	%Cft	458.10		
37	C-6/55	Providing and mixing super plasticizer (water reducing admixture) as defined in ASTM C-94 in order to achieve the required consistency / workability measured by the slump, used in the ratio of (0.05% to 1.00%) by weight of cement as proposed by the designer etc complete in all respect.	P.Ltr	44.00		
38	NSI	Providing and fixing metal mesh of 16 guage fixed with nails for concrete and bricks joint complete in all respect and as approved and directed by the Engineer Incharge.	P.Sft	150.00		
39	NSI	Arrangement of the water pit for tubewell boring, with restoration to its original condition post-boring. This includes the application of two coats of polythene sheet in reservoir / well to prevent water penetration into the earth, completed in all respects as per the approval of the engineer in charge.	P.Job	1.00		
40	NSI	Providing and installing RS joist girder W 8x6.5x24 complete as per in all respect, W 8x6.5x24 means joist of 8" depth 6.5 web and 30 lbs/ft weight.	P.Rft	15.00		
41	NSI	Providing and fixing in place M.S cover sheet with frame embedded in slab and 3mm thick 4'-0"x4'-0" M.S plate fixed on it with locking arrangement including 1/2" dia M.S lifting hook, enamel paint complete as per drawing.	Each	1.00		
GRAND TOTAL OF CIVIL WORKS						

CONSTRUCTION OF GIRLS HOSTEL AT PAKISTAN INSTITUTE OF FASHION AND DESIGN, LAHORE

(COVERED AREA = 47000 SFT)

BILL OF QUANTITIES

PLUMBING WORKS

MRS, 1st BI-ANNUAL-2025 (01.01.2025 to 30.06.2025) DISTRICT LAHORE

SR. NO.	ITEM NO.	DESCRIPTION	UNIT	QTY	RATE (RS)	AMOUNT (RS)
1	19/35(ii)	Providing and fixing P.Trap 10 cm (4") glazed	Each	1		
2	C-19/47	Providing, fixing, testing and commissioning of μ -PV C (Unplasticized Polyvinyl Chloride) Nikasi/ SWV pipe, D adex / Popular / Beta or approved equivalent manufacturer, plain / Bell Ended / Z - Joints conforming to BS 4514 / BS 5255 - EN 1329 including the cost of specials and Solvent s complete in all respects, as per drawings & specifications and / or as approved and directed by the Engineer Incharge				
	iii)	a) 50mm dia	Rft	13		
	iv)	b) 82mm dia	Rft	8		
	v)	c) 110mm dia	Rft	18		
	vii)	d) 200mm dia	Rft	18		
3	3/42 (i)	Earthwork excavation in open cutting for sewers and manholes as shown in drawing including shuttering and timbering, dressing to correct section and dimensions according to templates and levels, and removing surface water, in all types of soil except shingle, gravel and rock. 0' to 7'-0" (0 to 2.10m) depth	1000 Cft	280.00		
4	C-3/25 + C-3/15(i)	Compaction of earthwork with power road roller, including ploughing, mixing, moistening earth to optimum moisture 95% to 100% maximum modified AASHTO dry density. (a)content in layers, etc. complete :Filling, watering, ramming earth under floors (with surplus earth foundation).	1000 Cft	120.00		
5	C-10/3	Supply, filling and compacting sand under and around/over the pipes.	100 Cft	80.00		
6	6/5(i)	Cement concrete plain including placing, compacting, finishing and curring complete (including screening and washing of stone).Ratio 1:4:8	100 Cft	7.00		
7	7/7(i)	Pacca brick work other than building 1:3	100 Cft	36.00		
8	11/8(b)	Cement plaster 1/2" thick 1:3	100 Sft	37.00		
9	21/9	Extra for making and finishing benching floor work in manhole chamber, with 1/8" thick cement finish.	100 Sft	6.00		
10	21/17	Providing and fixing, 6" (150mm) thick R.C.C. manhole cover with 3"x3"x1/4" (75x75x6mm) angle iron frame, 22" (550mm) i/d as per standard drawing STD/PD No. 7 of 1977, complete in all respects.	No.	1		
11	C-21/13	Providing and fixing 1 1/4"x1 1/4"x3/16" (31x31x5 mm) angle iron step, in manhole chambers, including carriage and setting the same in work to correct lines and levels.	No.	3		
GRAND TOTAL OF PLUMBING WORKS						

CONSTRUCTION OF GIRLS HOSTEL AT PAKISTAN INSTITUTE OF FASHION AND DESIGN, LAHORE

(COVERED AREA = 47000 SFT)

BILL OF QUANTITIES

MECHANICAL WORKS

MRS, 1st BI-ANNUAL-2025 (01.01.2025 to 30.06.2025) DISTRICT LAHORE

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
1	C-23/5 (a) (ii)	Direct Rotary / Reverse Rotary drilling of bore for tubewells, in all types of soil except shingle, gravel and rock:- from ground level to 151 ft. (46m) below ground level:- ii) 20" to 26" (500 to 650mm) i/d	P.Rft	151		
2	C-23/5(b) (i)	Exceeding 151 ft. (46m) depth below ground level:- ii) 15" to 18" (375 to 450mm) i/d	P.Rft	600		
3	C-23/7	Provide strong substantially built box of deodar wood 4'x2-1/2'x9" (1200x750x225mm), with compartments, lock and locking arrangement for preserving samples of strata from bore hole.	P.Job	1		
4	C-23/8	Furnishing sample of water from bore hole.	P.Set of 2-Bottles	2		
5	C-23/19 (i)	Testing and developing of tubewell of size 6" (150mm) i/d and above continuously. ii) Upto 1.5 Cusec Discharge	P.Hour	65		
6	C-23/20	Shrouding with graded pea gravel 3/8" to 1/8" (10 to 3mm), around tubewell in bore hole.	P.Cft	2652		
4	C-23/43	Providing & mixing bentonite clay / powder haveswelling factor of 1200% for lining /seal and plug earthen bore holes / ponds in the specified ratio conforming to IS:6186 for stabilization of soil as specified by the designer etc complete in all respect.	P.Kg	80		
7	C-23/22 (ii) (f)	Supply and install G.I. pipe for gravel make extra shrouding of 2" dia.	P.Rft	280		
8	C-23/53-b(xi)	Providing and fixing heavy duty Check valve of specified diameter and material for pressure rating PN-16 made of Crane (USA), Hatersly (UK) or Scon (Pakistan) i/c the cost of all accessories flanges,nut/bolt and gasket where required complete in all respect as approved and directed by the Engineer Incharge.(b) Flange Ended Ductile Iron Valve(xi) 6" dia	EACH	1		
9	C-23/51-b(xi)	Providingand fixing heavy duty Gate valve of specified diameter and material for pressure rating PN-16 mde of Crane (USA), Hatersly (UK) or Scon (Pakistan) i/c the cost of all accessories flanges,nut/bolt and gasket where required complete in all respect as approved and directed by the Engineer Incharge (b) Flange Ended Ductile Iron Valve(xi) 6" dia	EACH	1		
10	C-23/55-v	Providing and fixing heavy duty Pressure Relief Valve of specified diameter and material for pressure rating PN-16 made of Crane (USA), Hatersly (UK) or Scon (Pakistan) integral device with a pressure setting, a restrictor and a sensor all in the one body, i/c the cost of all accessories flanges,nut/bolt and gasket where required complete in all respect as approved and directed by the Engineer Incharge. (v) 2-1/2" ia	EACH	2		
11	C-23/28-b(i)	Providing and fixing cast iron specials of B.S.S. Class 'B'(such as bend, tee, cross collar, reducer, tail piece,flanged socket, flanged spigot, cap, taper, angle branch and rubber ring. complete.i) 3" to 6" (75 to150 mm) i/d	P.Kg	350		
12	C-23/24-3(k)	Providing, laying, cutting, jointing, testing and disinfecting G.I. pipe line in trenches, with flanged joints, using G.I. pipe of B.S.S. 1387-1967 complete in all respects including specials and valves:ii) C.I. flanged joints (Heavy Quality) f) 6" i/d (150 mm)	P.Rft	120		

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
13	C-23/13-vi	Providing and installing Fiberglass Reinforced Polypropelene (FRP) strainer of specifid wall thickness having slot size of 0.9 mm to 1.10 mm in Tubewell borehole i/c the cost of male/female coupling with Nylone Strip.studs complete in all respect as approved and directed by theEngineer Incharge.. 10"dia (6.35mm thickness)	P.Rft	250		
14	C-23/14-vi	Providing and installing Fiber glass Reinforced Polypropelene (FRP) bail plug of specified wall thickness having slot size of 0.9 mm to 1.10 mm in Tubewell boreholei/c thecost of male/ femalecoupling with NyloneStrip, studs complete in all respect as approved and directed by the Engineer Incharge. 10"dia (6.35mm thickness)	P.Rft	15		
15	C-23 / 33-b	Providing and fixing, air valve 2½ (65mm) dia of B.S.S quality and weight (complete with jointing material). b) double	Each	1		
16	NSI	Provide and fix vertical shaft turbine pump for 1.00 cusec Tubewell with 50Hp/1450 rpm vertical solid shaft electrical motor, totally enclosed fan cooled, tropically insulated, 3 Phases, 50 Cycles, 380/400 Volts with non-reverse ratchet, make Siemens, insulation class F and temperature rise 80°C above 40°C ambient temperature, Pump Total Head 280 ft, Riser Pipe 6 inches internal dia with flanged joint, pump assembly of 5 stages with mixed flow type impleller, discharge head with 6 inches discharge branch, with Prelubrication tank, including Cast Iron Butterfly Valve, Reflux Valve 6", Mounting Clamps 6" and Motor Control Unit (MCU) equipped with all necessary protection complete with testing and commissioning, pump made by "Flowpak" or Equivalent complete in all respect as approved by Engineer Incharge.	Each	1		
17	NSI	Testing water samples for human consumption at the time of D&T, including cost of determination following (Results to be quoted in mg/l) 1-pH 2-Conductivity (Microhms) 3-"P" Alkalinity (Ca Co3) 4-"M" Alkalinity 5-Total Hardness (Ca Co3) 6-Calcuim Hardness (Ca Co3) 7-Magnesium Hardness (Mg Co3) 8-Cholride as (Cl) 9-Floride as (F) 10-Sulphate (SO4) 11-Nitrate as (NO3) 12-Iron (Fe) Suspended iron & Dissolved Iron 13-Silica 14-Turbidity 15-Total Solids 16-Suspended Solids 17-Sodium (Na) 18-BOD 19-Micro Biological Contamination(Coliforms) complete in all respect as approved by Engineer Incharge.	Each	3		
18	NSI	Provide, sealing annular space around housing pipe with 1:1 cement slurry (Cement sand mortar) complete in all respect as approved by Engineer Incharge.	P.Cft	412.53		
19	NSI	Furnish and lay 1:2:4 cement concrete block size 3.0'x3.0'x2.0', 2 Nos 1/2" x 6" M.S. flat clamp 3'-3" long laid and fixed with bolts at right angle to each other to support the pump-house casing including 1" dia. holding down bolts complete in all respect as approved by Engineer Incharge.	Each	1		
20	NSI	Provide and fix M.S. cap top plate 13" dia.	Each	1		

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
21	NSI	<p>Provide and fix ADVANCE USA series 480 Model # 481C1 Direct Cylinder Mounted Gas Chlorinator by Pak Hydraulic and Trading Co. All Vacuum Operated, Max Capacity 25,50,100 PPD, Feed Ratio 20:1 with all appurtenances for Chlorination of Potable water.</p> <p>01. Model # VR481C1 Vacuum Regulator with Gas Flow-Meter and Rate Valve, Gas Supply Indicator and Vent for chlorine service consisting of:</p> <ul style="list-style-type: none"> o Lead gasketed positive yoke cylinder clamp o 100 PPD (2 Kg/Hr) flow meter o Manual rate valve o Inlet safety shut-off / regulating valve with filter o Regulating diaphragm assembly o Safety relief venting system o 3/8" vacuum tubing connection o 3/8" vent vacuum tubing connection <p>01. Model # EJ100 C1 Remote Ejector / Check Valve Assembly</p> <ul style="list-style-type: none"> o 100PPD (2 Kg/Hr) max. capacity o Spring-assisted diaphragm check o 3/4" hose water inlet connection o 3/4" NPT 1" hose universal connection o solution outlet connection o 3/8" tubing vacuum inlet connection <p>25'-3/8" Vacuum Tubing 25'-3/8" Vent Tubing 12 – Lead Gaskets 01 Multipurpose Wrench 01 Set of Spares Parts of: 02 x OV-11-008 O-Ring, Rate Valve 02 x G-100-3 Flow-Meter Gasket 01 x BM-1023 Replacement Filter Floss 01 x U-300 Insect Screen</p>	No	1		
22	NSI	Supply and Installation of centralizers as per specifications.	No.	10		
23	NSI	Vertical Wall Mounted Manifold Assembly Model # BM-120-2 with 2 Nos, 3/4 Copper Connector, 01 No. Header Valve, 3/4" Drip Leg, 2 Nos. 3/8" Flexible Copper Connector with Mounting Clamp Local Assembled by Pak Hydraulic and Trading Co., complete in all respects.	No.	2		
24	NSI	Provide and install Fibreglass Housing pipe. Including Joint, Fibreglass reducer (where necessary) in tubewell bore hole, complete as per Manufacturer's Specifications. 14" dia (6.35mm thickness)	Rft	180		
25	NSI	Provide and install Fibreglass blind pipe. Including Joint, Fibreglass reducer (where necessary) in tubewell bore hole, complete as per Manufacturer's Specifications. 10" dia (6.35mm thickness)	Rft	560		
Grand Total of Mechanical Works						

CONSTRUCTION OF GIRLS HOSTEL AT PAKISTAN INSTITUTE OF FASHION AND DESIGN, LAHORE

(COVERED AREA = 47000 SFT)

BILL OF QUANTITIES

ELECTRICAL WORKS

MRS, 1st BI-ANNUAL-2025 (01.01.2025 to 30.06.2025) DISTRICT LAHORE

SR. NO.	ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1		<u>WIRING IN CONCEALED CONDUITS</u>				
		Cable should be of Copper gate, Newage or fast cable and conduit should be of Solo, popular, easyfit or equivalent as approved by engineer incharge				
	ch 24 -11-i	Supply and erection of single core PVC insulated copper conductor 250/440 Volts grade cable 3/0.029"	P.Rft	600		
	ch 24 -11-iii	Supply and erection of single core PVC insulated copper conductor 250/440 Volts grade cable 7/0.029".	P.Rft	80		
	ch 24 -11-v	Supply and erection of single core PVC insulated copper conductor 250/440 Volts grade cable 7/0.044".	P.Rft	50		
	ch 24 -3-ii	Supply and erection of PVC pipe for wiring purpose recessed in walls, including chase etc., 3/4" i/d.	P.Rft	150		
	ch 24 -3-iii	Supply and erection of PVC pipe for wiring purpose recessed in walls, including chase etc., 1" i/d.	P.Rft	60		
	ch 24 -3-vi	Supply and erection of PVC pipe for wiring purpose recessed in walls, including chase etc., 2" i/d.	P.Rft	10		
	ch 24 -6-iii	Supply and erection of PVC pipe for recessed wiring including bends, specials, etc. in floor, wall or trenches, 4" i/d.	P.Rft	170		
2		<u>MS Sheet Box</u>				
	ch 24 -17-i	Supply and erection of M.S. sheet box of 16 SWG, 4" deep, with 3/16" thick bakelite sheet, top etc., complete: 4"x4"	Each	4		
	ch 24 -17-ii	Supply and erection of M.S. sheet box of 16 SWG, 4" deep, with 3/16" thick bakelite sheet, top etc., complete: 7"x4"	Each	3		
3		<u>MISCELLANEOUS ITEMS</u>				
(i)		<u>Wall Bracket Fan</u>				
		Providing and fixing Pakistan Energy Label NEEC Approved Copperwinded bracket Fan i/c the cost of necessary cable and hardware for connection as approved and directed by Engineer Incharge.				
	ch 24 -106-ii	24" sweep dia.	Nos.	1		
(ii)		<u>Exhaust Fan</u>				
		Providing and fixing Pakistan Energy Label NEEC Approved Copperwinded Exhaust Fan i/c the cost of necessary cable and hardware for connection as approved and directed by Engineer Incharge.				
	ch 24 -105-i	10" dia. with plastic body.	Nos.	2		
(iii)		<u>Ceiling Fan</u>				
		Providing and fixing Pakistan Energy Label NEEC Approved Copperwinded ceiling Fan i/c the cost of necessary cable and hardware for connection as approved and directed by Engineer Incharge.				
	ch 24 -107-iii	56" dia	Nos.	1		

SR. NO.	ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
4		L.T. Power Cables				
		Supply at site, installation, testing and commissioning of PVC insulated PVC sheathed non armoured copper conductor power cable 600 / 1000 Volt grade manufactured by any one of the manufacturers as mentioned in Annexure in preinstalled cable tray / trenches cables to be installed as per routes shown on drawings including cost of all necessary materials, connections of cables and identification tags at both ends, cables lugs properly crimped at both ends for the following sizes complete in all respects. Actual length of cables to be installed shall be practically measured at site by the Contractor, duly authenticated by the employers electrical engineer before placing the order with the manufacturer, however, approximate length of cables are shown herewith. Payments shall be made as per actual length installed.				
	ch 24 -13-c-xiii	4 core 25mm.sq. from existing source to Site-I Tubewell and DBL-TWR.	P.Rft	150		
	C-24/13-d(vii)	Supply and erection of copper conductor cables for service connection, in pre-laid pipe/G.I. wire/trenches, etc. (rate for cable only):-d) PVC insulated, PVC sheathed 4 Core, 600/1000 volt :-vii) 50 mm sq (19/0.072)	P.Rft	150		
5		<u>DISTRIBUTION BOARDS</u>				
		<u>Distribution Board "Light/Power" DBL-TWR Installed at Ground Floor</u>				
		Fabrication, supply at site, installation, testing, commissioning and connections of wires / cables of Distribution Boards "Light / Power" concealed type to be installed as and where shown on drawing, made of MS sheet 16 SWG degreased and derusted, zinc phosphated, finished with electro-static powder coating of 15 micron thickness in approved colour with hinged door, flexible earthing strap lockable handle, catcher, earthing bar, neutral strip, internal wiring from MCBs terminating on cable terminal blocks, including cost of all necessary materials complete in all respects. All DBs mentioned below shall have 3 phase indication lamps transformer type of colour Red, Yellow, Blue and 1-Voltmeter scaled 0-500 V. with Voltmeter selector switch of 7 positions. DBs shall be manufactured by any one of the manufacturers as mentioned in Annexure "A".				
		<u>INCOMING</u>				
	NSI	1 Nos 80 Amps 4 pole Molded Case Circuit Breaker (MCCB) (25kA).				
		<u>OUTGOING</u>				
		1 Nos 32 Amps Triple Pole MCBs RC: 6 kA.				
	NSI	6 Nos 10/20 Amps Single Pole MCBs RC: 6 kA for light circuit and power sockets.				
		<u>Automatic Star Delta Starter (ASDS) suitable for 30 HP Tubewell Motor each consisting of:</u>				
		1 Nos 60 Amps 3 phase and neutral MCCB,suitable for motor operation, RC: 10 KA.				
		3 Nos Triple pole contactors duty category AC-3 with 220 V. no Volt coil suitable for 30 HP motor.				
		1 Nos Bimetallic thermal overload relay with single phasing preventor.				
		1 Nos ON indication lamp.				
		1 Nos Set of ON-OFF push buttons.				
		1 Nos Set of control fuses and terminal.				
		1 Nos 0-60 Seconds timer suitable for operation on 220 V. 50Hz AC.				
	NSI	3 Nos Provision of space for future MCBs RC: 6 kA.	No.	1		
6		<u>LIGHT FIXTURES</u>				

SR. NO.	ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
(i)		Fluorescent Fittings				
		Supply at site, Installation, testing and commissioning of the following fluorescent light fittings, ceiling, wall mounted made of MS body 22 SWG degreased and derusted with white enamelled non yellowing paint, complete with ELECTRONIC CHOKES lamp holders, tube rods of colour 86, internal wiring, earthing terminal, to be manufactured by any one of the manufacturers as mentioned in Annexure-"A", including cost of all necessary accessories and materials, complete in all respects.				
	NSI	Make Philips TCW 097/136 or DAMPA with electronic ballast and one rod of 36 Watt	Nos.	4		
(ii)		Incandescent Fittings				
		Supply at site, installation, testing and commissioning of the following incandescent light fittings, complete with brass lamp holders, fixing accessories, earthing terminal, make as specified or by any one of the manufacturers mentioned in Annexure-"A", complete in all respects.				
	NSI	Water tight bulk head light with 20 W. PLCE lamp.	Nos.	4		
7		GROUNDING SYSTEM				
(i)		Earthing System - Bore Type				
		Drilling of earth bore 3" (75mm) dia 80 to 90 ft. deep (24000 to 27000mm) or up to permanent water table, back filling, ramming, complete in all respect. Earthing bores shall be made at 8ft. away from foundation and distance between earth bore shall not be less than 10ft.				
	NSI	Bores for earthing body of DBL-TWR.	Nos.	2		
(ii)		G.I. Pipe				
	NSI	Supply at site and installation of G.I pipe 50mm dia. 14 SWG to be installed in premade bore, all G.I pipe accessories like tees, bends, sockets etc: G.I pipe shall be connected to tinned copper spike as per detail shown on drawing, complete in all respects. Length of pipe shall depend upon the depth of the bore. Payment shall be made as per actual length installed.	RFT	180		
(iii)		Tinned Copper Spike				
	NSI	Supply at site, installation of tinned copper spike make NBI to be manufactured as per detail shown on drawing. Spike shall be installed at bottom of G.I pipe, all G.I nuts and bolts, complete in all respect.	Nos.	2		
(iv)		Copper Conductor				
	NSI	Supply at site, installation and connections of earthing leads consisting of stranded electrolytic copper conductor of purity 99.9%, 25mm.sq. to be installed in pre-laid G.I pipe and connected to tinned copper spike and to test link in man hole and from test link to desired location as per detail shown or as per the instructions of the engineer. 2 Earthing leads shall be installed in G.I pipe, including cost of G.I nuts, bolts, washers, all necessary accessories, complete in all respects. Joints of copper conductor with G.I pipe shall be covered with 3 coats of bitumen. Payment shall be made as per actual length installed.	Rft.	360		
(v)		Earth Connecting Points (ECP)				
	NSI	Supply at site and installation of earth connecting points made of tinned copper plate of size 12" long x 3" wide x 1/2" thick to be installed as and where shown on drawings, complete with fixing arrangement, G.I nuts, bolts, washers, lugs, 1/2" dia. holes to facilitate connections of Incoming copper strips / copper conductors and outgoing circuit protective conductor (CPC).	Nos.	3		
(vi)		Man Hole for Earthing				
	NSI	Construction of man hole 18" x 18" x 24" deep with 9" thick brick wall with cement mortar, internal plaster 1:4, RCC 4" thick man hole cover with lifting hooks and the following words written with paint on manhole cover "EARTHING PIT", complete in all respects. Man holes shall be made on all earthing bores.	Nos.	1		

SR. NO.	ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
(vii)		Testing				
	NSI	Testing of the earthing system with digital "Earth Tester" along with other testing accessories. Testing shall be performed in the presence of the Engineer and written test result duly verified by the Engineer shall be submitted to the Client for his record.	Job	1		
8		TELEPHONE SYSTEM				
(i)		Wiring of Telephone Points on Wall				
	NSI	Wiring for each telephone point on wall with 4 pair telephone cable Cat. 6 UTP, manufactured by any one of the following manufacturers CLIPSAL 3M, MOLEX, from TDB to telephone point but excluding cost of 3/4" or 1" dia. PVC conduit, recessed in slabs, floors, walls, columns or on slab above false ceiling or as required as per site conditions, including cost of RJ-45 socket outlet with face plate and I/O, all necessary materials and accessories, complete in all respects.	No.	1		
9		MISCELLANEOUS ITEMS				
(i)		Wall Mounted Fire Extinguisher				
	NSI	Supply at site, installation of fire extinguisher suitable for fire erupted due to electrical short circuit, make Haseen Habib or approved equivalent, including cost of fixing system of fire extinguishers complete in all respects. Fire extinguishers shall be installed in electric rooms of each floor.	Nos.	2		
(ii)		Electric Shock Chart				
	NSI	Supply of electric shock chart fixed on wooden board and hung on wall as per the requirement of Electrical Inspector. Chart shall be installed at Ground Floor.	Job	1		
10		WIRING ACCESSORIES				
(i)		3 Pin 5 Amps Switch Socket				
	NSI	Supply and installation of 3 pin 5 Amps combined switch sockets of make Clipsal, Legrand, Scame or as specified in Annexure "A", complete in all respects.	Nos.	2		
(ii)		3 Pin 15 Amps Switch Socket				
	NSI	Supply and installation of 3 pin 15 Amps combined switch sockets of make Clipsal, Legrand, Scame or as specified in Annexure "A", complete in all respects.	Nos.	2		
(iii)		1 Gang 10 Amps Switch				
	NSI	Supply and installation of 1 gang 10 Amps switch of make Clipsal, Legrand, Scame or as specified in Annexure "A", complete in all respects.	Nos.	6		
(iv)	NSI	Fan Dimmer 250 watt including appropriate size Plastic back box. with all associated accessories.	Nos.	1		
11		CABLE AND TRENCH				
(i)		Circuit Protective Conductor (CPC)				
	NSI	1 core 16mm sq. PVC insulated colour Green / Yellow.	Rft.	600		
(ii)		Excavation of Trench				
	NSI	Excavation of trench approximately 12" wide and 30" deep for laying of 4" dia. PVC pipe, including cost of 4" thick layer of sand beneath and above PVC pipe, refilling of excavation with sweet earth, ramming, watering, cost of labour, materials all necessary accessories, complete in all respects. Rate to be quoted shall be without 4" dia PVC pipe.	Rft.	270		
(iii)		Warning Tape				
	NSI	Supply at site of warning tape made of plastic sheet of orange colour 10" wide to be installed in trench at 12" below finished floor level, all along the trench, including cost of all necessary materials, complete in all respects.	Rft.	270		
GRAND TOTAL OF ELECTRICAL WORKS						

CONSTRUCTION OF GIRLS HOSTEL AT PAKISTAN INSTITUTE OF FASHION AND DESIGN, LAHORE

(COVERED AREA = 47000 SFT)

BILL OF QUANTITIES

BOUNDARY WALL

MRS, 1st BI-ANNUAL-2025 (01.01.2025 to 30.06.2025) DISTRICT LAHORE

CIVIL WORKS

Sr. No	Item No.	Description	Unit	Quantity	Rate (Rs.)	Total Amount (Rs.)
1	C-3/21(1)-(ii)	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain (30 m) and lift upto 5 ft. (1.5 m) a) By Excavator: in ordinary soil.	%Cft	3040.00		
2	26/42	Spraying anti termite proofing by using liquid FMC Biflex 2.5%EC Per Sft 1.20 10.00 Sq.m 13.00 107.50 Mixing Ratio 1:50=137-Sft or using liquid MIRAGE Ali Akbar /RANGERS Auriga 5% SC Mixing Ability-HEXTAR Ratio 1:110=205-Sft or any other equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10- years complete in all respect .as approved by the Engineer Incharge	P.Sft	3560.00		
3	6/5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate)				
		(i) Ratio 1: 4: 8	%Cft	661.00		
		(f) Ratio 1: 2: 4	%Cft	116.00		
4	7/4/i	Pacca brick work in foundation and plinth in:- i) Cement, sand mortar:- Ratio 1:6	%Cft	1334.00		
5	7/5/i	Pacca brick work in ground floor:- i) cement, sand mortar:- Ratio 1:5 Ratio 1:4	%Cft %Cft	524.00 1838.00		
6		Providing and laying reinforced cement concrete (including prestressed concrete), using coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):-				
	C-6/6 c-(2)	Reinforced cement concrete in slab of rafts / strip foundation, base slab of column and retaining walls; etc and other structural members other than those mentioned in 5(a) (i) above not requiring form work (i.e. horizontal shuttering) complete in all respects:- (2) Type B (nominal mix 1: 1½: 3)	P.Cft	1020.00		
	C-6/6 a-2	Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- (2) Type B (nominal mix 1: 1½: 3)	P.Cft	1903.13		

CONSTRUCTION OF GIRLS HOSTEL AT PAKISTAN INSTITUTE OF FASHION AND DESIGN, LAHORE

(COVERED AREA = 47000 SFT)

BILL OF QUANTITIES

BOUNDARY WALL

MRS, 1st BI-ANNUAL-2025 (01.01.2025 to 30.06.2025) DISTRICT LAHORE

CIVIL WORKS

Sr. No	Item No.	Description	Unit	Quantity	Rate (Rs.)	Total Amount (Rs.)
7	C-6/13 b-ii	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars):- Deformed bars (Grade-60)	%Kg	14767.00		
8	11/9	Cement plaster 1:4 upto 20' (6.00 m) height:-				
		b) ½" (13 mm) thick	%Sft	13300.00		
		c) ¾" (20 mm) thick	%Sft	1200.00		
9	C-13/31 (a+b)	Preparing surface and painting with emulsion paint three coats.	%Sft	16900.00		
10	C-13/33-a- (i+ii)	Providing and applying weather shield paint of approved quality on external surface of building including preparation of surface, application of primer complete in all respect: a) new surface: Two coats				
		i) 1st coat	%Sft	8450.00		
		ii) 2nd coat	%Sft	8450.00		
11	25/73	Providing and fixing barbed wire fencing on compound wall, consisting of 1½"x1½"x3/16" (40x40x5mm) angle iron post 3' (900 mm) long, 4' (1200 mm) apart embedded in cement concrete 1:4:8 base of size 6"x6"x9" (150x150x225 mm) and 4 rows of barbed wire, including binding wire, painting posts, etc. complete in all respects.	%Rft	700.00		
12	C-6/30	Providing and fixing 6 in (150 mm). Wide G.I. sheet 18SWG. stopper to expansion joint.	P. Rft	364.00		
13	C-6/33	Filling expansion joints with bitumen.sand & saw dust in ratio 1:2:2.	P Rft P. inch Width	364.00		
Total of MRS ITEMS						
1	NSI	Providing and fixing M.S. vertical flat 2"x1/4" (50mm x 6mm) grill including horizontal ¾" x ¾" (20 mmx20 mm) M.S. bars, on top of boundary wall of approved design, including painting three coats, complete in all respects.	Sft	900.00	1250.00	
Total of Non MRS ITEMS						
GRAND TOTAL OF BOUNDARY WALL						

CONSTRUCTION OF GIRLS HOSTEL AT PAKISTAN INSTITUTE OF FASHION AND DESIGN, LAHORE

(COVERED AREA = 47000 SFT)

BILL OF QUANTITIES

PARKING AND LANDSCAPING AREA

CIVIL WORKS

MRS, 1st BI-ANNUAL-2025 (01.01.2025 to 30.06.2025) DISTRICT LAHORE

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
1	3/53	Clearing and Grubbing	%Sft	14,980.00		
2	C-3/21(1)-(ii)	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and rammiing lead 'upto one chain (30 m) and lift upto 5 ft. (1.5 m) a) By Excavator: in ordinary soil.	%Cft	10,955.00		
3	3/24/a	Compaction of earthwork (soft, ordinary or hard soil) :-				
4		a) Mixing, moistening earth to optimum moisture content in layers for compaction, etc. complete.	%Cft	10,955.00		
5	6/2	Dry rammed brick or stone ballast, 1½" to 2"(40 mm to 50 mm) gauge.	%Cft	3,648.02		
6	6/5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):				
		(i) Ratio 1: 4: 8	%Cft	225.00		
		(f) Ratio 1: 2: 4	%Cft	1,825.83		
7	7/4/i	Pacca brick work in foundation and plinth in:- i) Cement, sand mortar:- Ratio 1:6	%Cft	675.00		
8	10/45/b	Providing and laying Tuff pavers, having 7000PSI, crushing strength of approved manufacturer, over 2"to3" sand cushion i/c grouting with sand in joints i/c finishing to require slope. complete in all respect. (50% Grey / 50% Coloured)				
		b) 80-mm thick	Sft	10,955.00		
10	C-6/53-b-(ii)	Providing & fixing precast Edge Kerb Stone (4" to 6" thick) and 14" high of Compressive Strength of 3500 PSI laid in cement sand mortar (1:3) over pre-laid brick masonry for drain cum footpath etc complete in all respect.	P.Rft	300.00		
11	3/52	Leveling, dressing and making lawns.	%Sft	4,025.00		
12	3/32	Turfing slopes of banks or lawns with grass sods including ploughing, laying, setting and watering (Turf got from within a distance of 5 miles (8 Km.) and maintenance for 15 days).	%Sft	4,025.00		
13	NSI	Supply and Spreading approved garden soil (sweet earth) in uniform thickness including mixing and breaking clots and dressing fine for grassing including disposal of rubbish within 300 ft complete.	Cft	2,012.50		
GRAND TOTAL OF PARKING AND LANDSCAPING AREA						

**CONSTRUCTION OF GIRLS HOSTEL AT PAKISTAN INSTITUTE OF FASHION AND DESIGN,
LAHORE**

(COVERED AREA = 47000 SFT)

BILL OF QUANTITIES

DRAINAGE WORKS

MRS, 1st BI-ANNUAL-2025 (01.01.2025 to 30.06.2025) DISTRICT LAHORE

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
1	C-3/21(1)-(ii)	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and ramming lead 'upto one chain (30 m) and lift upto 5 ft. (1.5 m) a) By Excavator: in ordinary soil.	%0Cft	2,100.00		
2	6/5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate)				
		(i) Ratio 1: 4: 8	%Cft	346.50		
		(f) Ratio 1: 2: 4	%Cft	346.50		
3	7/4/i	Pacca brick work in foundation and plinth in:- i) Cement, sand mortar:- Ratio 1:6	%Cft	787.50		
4	C-6/6 c-(2)	Providing and laying reinforced cement concrete (including prestressed concrete), using coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):-				
		Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- (2) Type B (nominal mix 1: 1½: 3)	Cft	288.75		
5	C-6/13 b-ii	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars):- Deformed bars (Grade-60)	%Kg	1,100.50		
6	11/9	Cement plaster 1:4 upto 20' (6.00 m) height:- b) ½" (13 mm) thick	%Sft	1,050.00		
GRAND TOTAL OF DRAINAGE WORKS						

CONSTRUCTION OF GIRLS HOSTEL AT PAKISTAN INSTITUTE OF FASHION AND DESIGN, LAHORE

(COVERED AREA = 47000 SFT)

BILL OF QUANTITIES

CIVIL WORKS

MRS, 1st BI-ANNUAL-2025 (01.01.2025 to 30.06.2025) DISTRICT LAHORE

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
1	C-3/21(1)-(ii)	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and rammiing lead 'upto one chain (30 m) and lift upto 10 ft. (1.5 m) a) By Manual or Excavator: in ordinary soil.	%0Cft	5983.90		
2	C-26/44	Spraying anti termite proofing by using liquid FMC Biflex 2.5%EC Per Sft 1.20 10.00 Sq.m 13.00 107.50 Mixing Ratio 1:50=137-Sft or using liquid MIRAGE Ali Akbar /RANGERS Auriga 5% SC Mixing Ability-HEXTAR Ratio 1:110=205-Sft or any other equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10- years complete in all respect .as approved by the Engineer Incharge	%Sft	2705.55		
3	C-6/5(i)	Cement concrete plain including placing,compacting, finishing and curing complete (including screening and washing of stone aggregate):Ratio 1:4:8	%Cft	162.23		
4	C-6/6 c-(3)	Reinforced cement concrete in slab of rafts / strip foundation, base slab of column and retaining walls; etc and other structural members other than those mentioned above not requiring form work (i.e. horizontal in shuttering) complete in all respects:- Type C (nominal mix 1: 2: 4)	P.Cft	455.53		
5	C-6/6 a-(3)	Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- Type C (nominal mix 1: 2: 4), Ground floor	P.Cft	1051.19		
6	C-6/13 b-ii	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars):- Deformed bars (Grade-60)	%Kg	8605.67		
7	C-7/4(i)	Pacca brick work in foundation and plinth in Cement,sand mortar. Ratio 1:6	%Cft	212.28		
8	C-3/15(i)	Filling, watering, ramming earth under floors (with surplus earth foundation).	%0Cft	2194.10		
9	C-7/5(i)	Pacca brick work in Ground Floor cement, sand mortar Ratio 1:5	%Cft	425.70		
10	C-11/11(b)	Cement plaster 1:5 upto 20' (6.00 m) height:- b) ½" (13 mm) thick. (Internal)	%Sft	1496.00		
11	C-11/9(c)	Cement plaster 1:4 upto Ground Floor Slab:- c) ¾" (20 mm) thick. (External)	%Sft	1268.30		
12	C-11/10(b)	Cement plaster 3/8" thick under soffit or R.C.C. roof slab only upto 20' heigh ratio 1:3.	%Sft	374.00		
13	C-13/31 (a+b)	Preparing surface and painting with emulsion paint three coats.	%Sft	2057.00		
14	C-13/46	Providing and applying wall putty of 2mm thickness over plastered surface (new surface) to prepare the surface even and smooth complete in all respect.	%Sft	2262.70		

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
15	C-13/33-a-(i+ii)	Providing and applying weather shield paint of approved quality on external surface of building including preparation of surface, application of primer complete in all respect: a) new surface: Two coats	%Sft	1395.13		
16	C-10/4	Providing, laying, watering and ramming brick ballast 1½" to 2"(40 mm to 50 mm) gauge mixed with 25% sand, for floor foundation, complete in all respects.	%Cft	264.96		
17	C-6/5(f)	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):(f) Ratio 1: 2: 4	%Cft	92.45		
18	C-10/16(e)	Providing and laying topping of cement concrete 1:2:4, including surface finishing and dividing in panels:-(e) 2"(50 mm) thick	%Sft	323.40		
19	C-10/23(b)	1½"(40 mm) thick mosaic flooring, consisting of ½ "(13 mm) mosaic topping of one part of cement and marble powder in the ratio of 3:1 and two parts of marble chips, laid over 1"(25 mm) thick floor of 1:2:4 cement concrete, including rubbing and polishing complete with finishing :- (b) using white cement. Basement Floor	%Sft	264.96		
20	C-10/23(b)	1½"(40 mm) thick mosaic flooring, consisting of ½ "(13 mm) mosaic topping of one part of cement and marble powder in the ratio of 3:1 and two parts of marble chips, laid over 1"(25 mm) thick floor of 1:2:4 cement concrete, including rubbing and polishing complete with finishing :- (b) using white cement. Ground Floor	%Sft	46.06		
21	C-10/16(e)	Providing and fixing marble strip of any shade for dividing the mosaic flooring into panels a) Si ze 1½" x 8" (40 x 10 mm)	P.Rft	186.61		
22	C-10/37(b-ii)	Mosaic dado or skirting with one part of cement and marble powder in the ratio of 3:1 and two parts of marble chips, laid over ½"(13 mm) thick cement plaster 1:3, including rubbing and polishing, complete with finishing: (b) using white cement : ii) ½"(13 mm) thick	%Sft	29.54		
23	C-9/5	Single layer of tiles 9"x4½"x1½" (225x113x40 mm) laid over 4" (100 mm) earth and 1" (25 mm) mud plaster without Bhoosa, grouted with cement sand 1:3 on top of RCC roof slab, provided with 34 lbs. per %Sft. or 1.72 Kg/Sq.m bitumen coating sand blinded.	%Sft	354.83		
24	C-26/39(ii)	Supplying and laying polythene sheet over D.P.C. under floors and on roofs, etc.ii)500 gauge (.005" thick)	P.Sft	354.83		
25	C-9/45-b	Providing and Laying Insulation material of Extruded Polystyrene XPS in Rigid Insulation/ Foam Board on roof or walls, Density 32-38Kg/M, compressive strength 250-400 kpa, R-value 5 per inch thickness and water obsorbtion (1% by volume, cell structure clored cell) i/c cutting and placing in position complete in all respect. (b) 1-1/2" thick	%Sft	354.83		
26	C-25/53	Providing and fixing Aluminum Fly screen comprising of Fiber / Aluminum wire gauze (Malasian) fixed in aluminum frame of approved manufacturer brownze colour / powder coated of size 1-1/2" x 1/2" and 1.6mm thick with rubber gasket i/c cost of hardwares as approved and directed by the engineer incharge complete in all respect.	P.Sft	82.50		
27	C-25/52	Providing and fixing all types of glazed aluminum windows of anodized bronze color partly fixed and party sliding using deluxe sections of approved manufacturer having Frame of size 100mmx20mm (4"x¾") and leaf frame sections of 50 x 20 mm (2"x¾"), all of 1.6mm thickness including 5 mm thick imported tinted glass with rubber gasket using approved standard latches, hardware etc., as approved by the Engineer in-charge.	P.Sft	82.50		

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
28	C-13/5 c(i+ii)	Painting new surface:- c) Preparing surface and painting of doors and windows any type (including edges):- 3 coats	%Sft	105.60		
29	C-9/15	Khuras on roof 2'x2'x6" (600 x 600 x 150 mm)	Each	2.00		
30	C-25/35	Providing and fixing terrace railing of 2" (50 mm) i/d conduit pipe 16 SWG, welded with 5/8"x5/8" (16x16 mm) square bar 2.75 ft. (838 mm) high fixed at 5" (125 mm) centre to centre, in reinforced cement concrete slab with suitable arrangement, complete in all respects, as per design and drawing.	P.Rft	8.25		
31	C-25/10+ 11	Fabrication of heavy steel work, with angle, tees, flat iron round iron and sheet iron for making trusses, girders, tanks, etc., including cutting, drilling, revitting, handling, assembling and fixing, including erection in position. (Covers & Ladder)	%kg	535.74		
32	C-13/5 d(i+ii)	Painting new surface:- d) Preparing surface and painting guard bars, gates of iron bars, gratings, railing (including standards, braces, etc.) and in similar open work:- 3 coats (Covers & Ladder)	%Sft	526.04		
33	C-6/37 a(i)	Providing and laying damp proof course of cement concrete 1:2:4(using cement, sand and shingle), including bitumen coating :- (a) with one coat bitumen and one coat polythene sheet 500gauge i) 1½" thick (40 mm)	%Sft	30.32		
34	C-1/1	Carriage of 100 Cft. (2.83 cu.m) of all materials like stone aggregate, spawl, kankar lime (unslaked), surkhi, etc. or 150 Cft. (4.25 cu.m) of timber, by truck or by any other means owned by the contractor. (Lead will be Paid as Actual but not more than 220 Km (Sargodha Pull 111 to PIFD,Johar Town Lahore)	%Cft	1,480.38		
35	C-6/38 a-ii (b)	Providing and laying vertical damp proof course with cement sand plaster and bitumen coating:- (a) with one coat of bitumen and one coat of polythene sheet 500 gauge: ii) Ratio 1:3 b) ¾" thick (20 mm)	%Sft	17.92		
36	Ch 19/47	<u>SOIL, WASTE, VENTILATING PIPES & FITTINGS</u>				
		Providing, fixing, testing and commissioning of µ-PV C (Unplasticized Polyvinyl Chloride) Nikasi/SWV pipe, Dadex/Popular /Beta or approved equivalent manufacturer, plain / Bell Ended / Z-Joints conforming to BS 4514 / BS 5255 - EN 1329 including the cost of specials and Solvents complete in all respects, as per drawings & specifications and/or as approved and directed by the Engineer Incharge				
	v	110 mm dia.	P.Rft	86.00		
37	C-25/62-ii	P/F Iron door comprising of specified leaves made of 1-1/4"x1-1/4"x3/16" MS angle iron for leaf frame, diagonal and horizontal braces duly welded with MS. sheet 18-SWG i/c the cost of sliding bolt, tower bolt and painting 3-coats but excluding the cost of Chowkat complete in all respect as approved and directed by the Engineer incharge. (ii) Double Leaf	P.Sft	52.00		
38	C-9/46-a	Providing and applying torch-on water proofing bitumenous membrane of specified thickness (made of Roof-Grip/ Euro Bit) duly lapped/connected by heating with Torch over ps-6 primer i/c preparation/smoothen the surface complete in all respect as approved and directed by the Engineer Incharge	P.Sft	976.80		
GRAND TOTAL OF FIRE FIGHTING PUMP ROOM CIVIL WORKS						

**CONSTRUCTION OF GIRLS HOSTEL AT PAKISTAN INSTITUTE OF FASHION AND DESIGN,
LAHORE**

(COVERED AREA = 47000 SFT)

BILL OF QUANTITIES

EXTERNAL PLUMBING

PLUMBING SYSTEM

MRS, 1st BI-ANNUAL-2025 (01.01.2025 to 30.06.2025) DISTRICT LAHORE

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
1	19/31 (i)	Providing and fixing gun metal peet/gate valve (screwed):- i) 30 mm (1¼") dia	Each	2.00		
2	19/31 (ii)	Providing and fixing gun metal peet/gate valve (screwed):-ii) 40 mm(1½") dia	Each	8.00		
3	19/31	Providing and fixing gun metal peet/gate valve (screwed):-				
		iii) 50 mm(2")	Each.	2.00		
		iv) 65 mm(2½") dia	Each.	1.00		
4	21/3 (i)	Providing and laying R.C.C. pipe sewers, moulded with cement concrete 1:1½:3 conforming to ASTM Specification C-76-79, Class II. Wall B, including carriage of pipe from factory to site of work, lowering in trenches to correct alignment and grade, jointing with rubber ring, cutting pipes where necessary, testing, etc., complete i) 310 mm (12") i/d	P.Rft	450.00		
5	3/43 (i)	Earthwork excavation in open cutting for sewers and manholes as shown in drawings including shuttering and timbering, dressing to correct section and dimensions according to templates and levels, and removing surface water, in all types of soil except shingle, gravel and rock: - i) 0 ft. to 7.0 ft. (0 to 2.10 m) depth	%0Cft	4,050.00		
6	3/24 (c)	Compaction of earthwork (soft, ordinary or hard soil) :- c) Ramming earthwork (all types of soil).	%0Cft	4,050.00		
7	3/13 (a)	Rehandling of earthwork: a) Lead upto a single throw of Kassi, phaorah or shovel	%0Cft	4,050.00		
8	23/33-a	Providing and fixing, air valve 2½ (65mm) dia of B.S.S. quality and weight (complete with jointing material).	Each.	3.00		
9	Ch 23/47	WATER SUPPLY PIPES AND FITTINGS				

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PLUMBING SYSTEM

MRS, 1st BI-ANNUAL-2025 (01.01.2025 to 30.06.2025) DISTRICT LAHORE

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
		Providing, laying, testing and commissioning of POLYPROPYLENE RANDOM COPOLYMER (PPRC) water supply pipe made of (Dadex /Popular/ Beta / BBJ) with specified pressure rating PN (PRESSURE NOMINAL)and conforming to DIN 8077-8078 code i/c cost of solvent, specials,making jharries complete in all respect as approved and directed by Engineer Incharge.(Internal/External Diameters mentioned) b) PN-20 pipe				
	iii	32 mm dia.	P.Rft	30.00		
	iv	40 mm dia.	P.Rft	165.00		
	v	50 mm dia.	P.Rft	175.00		
10	Ch 23/45	Providing and fixing CP heavy duty brass Ball valve with CP handle of specified diameter made of Faisal/Sonex / Master best quality or equivalent complete in all respect as approved and directed by the Engineer Incharge.				
	iv	1-1/4 inch	No.	2.00		
11	Ch 19/47	INTERNAL SEWERAGE, VENTS & ROOF DRAINAGE				
	vi	160 mm dia.	P.Rft	450.00		
	vii	200 mm dia.	P.Rft	350.00		
12	N.S	Making of manhole size 3'x2-1/2'x3' brick work, plaster complete as requirment including RCC manhole cover 22" dia with Tee shape C.I frame complete in all respect as per engineer Incharge.				
			No.	10.00		
13	23-61	Provi di ng, laying, testing and commissioning of Grade-B,M S Seamless Schedule pipe of nominal diameter, conformi ng to ASTM-A106, Lontrin/ Hufaz / Pecificbaol ai or approved equival ent manu acturer, duly welded i/c the cost of specials complete as approved and di rected by the Engineer Incharge.				
	ix	4" dia	Rft.	686.00		

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EXTERNAL PLUMBING

PLUMBING SYSTEM

MRS, 1st BI-ANNUAL-2025 (01.01.2025 to 30.06.2025) DISTRICT LAHORE

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
14	23-64	Providing and fixing of fire extinguishers and fire blanket of following type and capacities complete in all respect as approved and directed by the Engineer Incharge.				
	i	Dry Chemical Powder capacity 6 K g	Each	6.00		
	ii	CO2 Capacity 5 kg	Each	6.00		
15	NSI	Providing, Installation, testing and commissioning of Interconnection with Municipal Fire Brigade (Siamese connection), consisting of breach inlet valve and casing, flang 4" dia, complete in all respect as per specifications and drawings as well as directed by the Engineer.	No.	1.00		
16	NSI	Providing, Fixing ,testing & installing pump set for fire fighting of followig capacities.All pumps will be UL listed FM approved including FAT				
		a) Horizontal centrifugal pumpset (50Hz x 380V, 3 phase Motor) 300 GPM @ 7 bar complete with automatic control panel , Pressure switch & Pressure gauge. It should be capable of operating 2 remotest 2 1/2" hydrants 200 GPM each @ min. 4.5 bar pressure				
		b) Horizontal centrifugal engine driven pumpset 300 GPM @ 12 bar complete with automatic control panel , Pressure switch, Pressure gauge & diesel tank. It should be capable of operating 2 remotest 2 1/2" hydrants 200 GPM each @ min. 4.5 bar pressure				
		c) Jockey electric motor driven pumpset (50Hz x 380 V ,3Ph Motor) 25 GPM @ 12.5 bar complete with automatic control panel, pressure switch and pressue gauge.				
		d) Pump control cabinet for above mentioned pump.				
		e) Pump room's fitting and controls i.e. test/return line, gate valves, NRV, expansion joints, headers, pressure reduccing valve, supports and painting.	Set	1		

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EXTERNAL PLUMBING

PLUMBING SYSTEM

MRS, 1st BI-ANNUAL-2025 (01.01.2025 to 30.06.2025) DISTRICT LAHORE

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
17	NSI	Providing, installing, testing and commission,End suction centrifugal pumps of approved make (2 Nos. - 1 running + 1 standby) of capacity 100 gpm each with stainless steel impeller capable of pumping against a total pumping head of 120 ft. coupled with water cooled electric motor of , 440 volts, 3 - phase, 50 Hz. Piping/ joints to be tested at 180ft head.The pump shall be provided with control panel having auto / manual switches, dry running protection, low / high level water controls with alternative standby duty operation system, complete in all respects.	Set	1		
18	NSI	Submercible PumpProviding Installation, testing and commissioning centrifugal submersible pump of capacity 30 gpm at 50 ft head to pump water from plant room to nearest manhole (as shown on drawings) of approved make with auto /manual switches, dry running protection, low / high level water controls,complete in all repects.	Nos.	1		
GRAND TOTAL OF EXTERNAL PLUMBING WORKS						

**CONSTRUCTION OF GIRLS HOSTEL AT PAKISTAN INSTITUTE OF FASHION AND DESIGN,
LAHORE**

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BILL OF QUANTITIES

EXTERNAL ELECTRICAL WORKS

MRS, 1st BI-ANNUAL-2025 (01.01.2025 to 30.06.2025) DISTRICT LAHORE

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
1	NSI	Fabrication, supply at site, installation, testing and commissioning of 200 kVA Oil immersed Step down (11/0.415kV) Distribution Transformer as per WAPDA's standards and specifications as per site requirements including the cost of Pole Mounted Transformer HT Cable extension, energy meter connections, Separate bore type earthing sets to earth body and neutral of transformer and all other necessary installation accessories as per WAPDA Standards complete in all respects.	Each	1.00		
2	NSI	Supply at site, fabrication, installation, testing and commissioning of AMF/ATS Panel Conforming to same constructional specification as per Generator of 200KVA mentioned above with AC3 Magnatic Contactors, Relays, Timer, Protections as per DGSET Manufacture specifications suitable for DGSet as per site requirement for smooth operation as per specifications and entire satisfaction of Engineer complete in all respect.	Each	1.00		
3	NSI	Supply, Installation, testing and commissioning of following IP 65/IP66 Flood Light .50 W Make Philips	No.	7.00		
4	NSI	Fabrication, Supply, installation, testing and commissioning at site of Light control panel for External Lighting IP 68 rated of appropriate size, made of MS Sheet 16 SWG with hinged door, handle, catcher, 2 coats of antirust and powder coated paint of approved colour, megnatic contactor, CBs, toggle switch including cost of all necessary materials complete in all respects, LCP shall be manufactured as per specifications, single line diagram complete in all respect up to the satisfaction of Engineer incharge.	Each	1.00		
5	NSI	Providing and installation of ¾" dia and 10' long copper rod as earth electrode including wires, earth connecting point (ECP), earthing cable-1 core 70mmsq stranded copper conductor from ECP to motor bodies, nuts & bolts and manhole of appropriate size and all accessories to earth bodies of all motors complete in all respects.	No.	2.00		
GRAND TOTAL OF EXTERNAL ELECTRICAL WORKS						