

DNIT
CONSTRUCTION OF NEW FACULTY BUILDING (NO.1) AT BJ CAMPUS, IUB
NEW FACULTY BUILDING
ENGINEER'S COST ESTIMATE
CIVIL WORKS

Item No.	REF. Nos CH/ITEM	Description of Items	Qty		Unit	Rate (Rs.)	Amount (Rs.)
MRS, 1st BI-ANNUAL-2021 (1st JANUARY-2021 to 30th JUNE -2021) DISTRICT BAHAWALPUR							
		SCHEDULE ITEMS-A					
		Earth Work					
1	CH:3 item 47(a) P-33	Jungle clearance and removing within 100 ft. (30 m).a) light	74,000.00		1000 Sft		
2	CH:3 item 21(b) P-30	Excavation in foundation of building and other sructures, including debelling,dressing,refilling around structure with excavated eart,watering and ramming lead upto one chain 100ft and lift upto 5 ft.in ordinary soil.	317,563.31		1000 Cft		
3	CH:3 item 15	Filling, watering and ramming earth under floors:					
3.1	CH:3 item 15(i) P-29	i) with surplus earth from foundation, etc.	211,708.88		1000 Cft		
3.2	CH:3 item 2+17 (a,b &c)	Earthwork excavation in ashes, sand and soft soil or silt clearance, undressed lead upto 2 km (2000 metre).	621,600.00		1000 Cft		
3.3	CH:3 item 25 (i) P-30	Compaction of earthwork with power road roller, including ploughing, mixing, moistening earth to optimum moisture) content in layers, etc. complete: i) 95% to 100% maximum modified AASHO dry density.	248,708.88		1000 Cft		
		Anti-Termite					
4	CH:25 item 42	Spraying anti-termite liquid mixed with water in the ratio of 1:40.	299,411.44		100 Sft		
		Plain and Reinforement Concrete					
5	CH:6 item 5 P-42	Cement concrete plain including placing, compacting , finishing and curing complete (including screening and washing of stone aggregate):-					
5.1	(i)	Ratio 1: 4: 8	25,680.65		100 Cft		
5.2	(f)	Ratio 1: 2: 4	24,089.69		100 Cft		
6	CH:6 item 6 P-42	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.):-					
6.1	(a)(ii)	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 i) above not requiring form work (i.e. horizontal shuttering) complete in all respects:-					
		Foundation					
6.1.1	(2)	Type B (nominal mix 1: 1½: 3)	90,758.11		Per Cft		
6.2	(a)(i)	Reinforced cement concrete slabs, beams, girders, Lintels and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects;-					
		GROUND FLOOR					
6.2.1	(a)(i)(2)	Type B (nominal mix 1: 1½: 3)	118,788.72		Per Cft		
		FIRST FLOOR					
6.2.2	(a)(i)(2)+(d)	Type B (nominal mix 1: 1½: 3)	75,528.35		Per Cft		
		MUMTY					
6.2.3	(a)(i)(2)+(dx2	Type B (nominal mix 1: 1½: 3)	6,914.72		Per Cft		
		Carriage					
7	CH:1 item 1 P-3	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 366 kms From Sargodha (or approved quarry) to site of work)	75,996.03		100 Cft		
		Steel Reinforcement					
8	CH:6 item 9 (c) P-44	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) (c) Deformed bar (Grade 60)	1,225,380.44		100Kg		

9	CH:6 item 33 (b)(i) P-47	Providing and laying damp proof course of cement concrete 1:2: 4(using cement, sand and shingle), b) with 2 coats of bitumen :- i) 1½" thick (40 mm)	189.20		100 Sft		
10	CH:6 item 25 P-46	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:-					
10.1	a)	On interior surface (without mastic strip)	722.40		Per/Rft		
10.2	b)	On exterior surface (with mastic strip)	729.23		Per/Rft		
11	CH:6 item 32 (b) P-47	Providing and fixing thermopore (foamed polythene) sheet in horizontal and vertical expansion joints:					
11.1		b) 1½" (40 mm) thick thermopore sheet	9,941.40		Per/Sft		
12	CH:6 item 12	Providing and fixing ornamental cement jali 2" (50 mm) thick	3,402.00		Per Sft		
		Brick Work					
13	CH:7 item 4 (i) P-51	Pacca brick work in foundation and plinth in:-Cement, sand mortar:-Ratio 1:6	20,162.26		100 Cft		
14	CH:7 item 4 (i) P-51	Pacca brick work in foundation and plinth in:-Cement, sand mortar:-Ratio 1:4	2,175.76		100 Cft		
		GROUND FLOOR					
15	CH:7 item 5 (i) P-52	Pacca brick work in ground floor :- Cement, sand mortar:-Ratio 1:6	71,374.26		100 Cft		
16	CH:7 item 5 (i) P-52	Pacca brick work in ground floor :- Cement, sand mortar:-Ratio 1:4	2,049.86		100 Cft		
		FIRST FLOOR					
17	Ch-7 item 5 (i) & 6 (i) P-	Pacca brick work in first floor:- Cement, sand mortar:-Ratio 1:6	78,428.87		100 Cft		
18	CH:7 item 5 (i) P-52	Pacca brick work in first floor :- Cement, sand mortar:-Ratio 1:4	2,049.86		100 Cft		
		MUMTY					
19	Ch-7 item 5 (i) & 6 (ii) P-	Pacca brick work in second floor:- Cement, sand mortar:-Ratio 1:6	2,416.05		100 Cft		
20	Ch-7 item 9 P-53	Extra labour for arch work in brick masonry, including labour for centring and decentring.	140.96		100 Cft		
21	Ch-7 item 13 P-53	Extra for face work (half brick thick) using special bricks instead of first class bricks.	16,637.37		100 Cft		
		Flooring					
22	Ch-7 item 30 P-56	Supplying and filling sand under floor; or plugging in wells	25,727.39		100 Cft		
23	Ch-10 item 3 P-66	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	44,235.08		100 Cft		
24	Ch-10 item 23 P-68	Providing and laying floor of mosaic marble chips tiles 1"(25 mm) thick of approved quality and shade, laid in white cement and pigment, over ¾"(20 mm) thick bedding of cement sand mortar 1:2, including finishing and polishing, complete.	2,973.60		100 Sft		
25	Ch-10 item 35 (b) P-69	Tile skirting laid in 1:2 cement mortar, over ¾"(20 mm) thick cement mortar, 1:2 including cement washing and filling joints complete:- (b) mosaic tiles	226.80		100 Sft		
26	Ch-10 item 42 (a) P-70	Providing and fixing marble strip of any shade for dividing the mosaic flooring into panels a) Size 1½" x 3/8" (40 x 10 mm)	1,873.37		Per Rft		
27	Ch-10 item 43 (a) P-70	Providing and layingTuff pavers ,having 7000 PSI, crushing strength of approved manufacturer, over 2" to 3" sand cushion i/c grouting with sand in joints i/c finishing to require slope . complete in all respect.(50% Grey / 50% Coloured) a) 50-mm thick	7,875.00		P.Sft		
		Surface Rendring					
28	Ch-11 item 10 (b) P-72	Cement plaster ratio 1:3 under soffit of RCC roof slabs only , upto 20' height. 3/8" (10 mm) thick. (ceiling plaster)	79,178.73		100 Sft		
29	Ch-11 item 9 (b) P-72	Cement plaster 1:4 on internal walls upto 20' (6 m) height, 1/2" (13 mm) thick.	349,822.91		100 Sft		
30	Ch-11 item 9 (c) P-72	Cement plaster 1:4 on external walls upto 20' (6 m) height, 3/4" (20 mm) thick.	17,668.35		100 Sft		
31	Ch-11 item 9 (c) & 28 P-72-74	Cement plaster 1:4 on external walls upto 30' (9 m) height, 3/4" (20 mm) thick.	3,788.40		100 Sft		
32	Ch-11 item 9 (c) & (28x2) P-72-74	Cement plaster 1:4 on external walls upto 40' (12 m) height, 3/4" (20 mm) thick.	14,165.55		100 Sft		
		Wood Work					
33	Ch-12 item 18 (iii) P-78	Providing and fixing sliding bolt to doors:- iii) brass sliding bolt, 10" (250 mm) long	416.00		Each		
		Painting and Warnishing					

34	Ch-13 item 31 (a)+(bx2) P-89	Preparing surface and painting with emulsion paint:- 3 Coats New Surface	456,830.79		100 Sft		
35	Ch-13 item 32A (a)(i+ii) P-89	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:- 2 Coats New Surface	37,403.42		100 Sft		
36	Ch-13 item 7 P-87	French polishing complete:-	24,351.60		100 Sft		
		Roofing & Water Proofing					
37	Ch-9 item 45 (c) P-65	Providing and Laying Insulation material of Extruded Polystyrene XPS in Rigid Insulation / Foam Board on roof or walls, Density 32-38 Kg/M, compressive strength 250-400kpa,R-value 5 per inch thickness and water absorption (1% by volume, cell structure clored cell) i/c cutting and placing in position. complete in all respect.c) 2" thick	82,692.88		100 Sft		
38	Ch-9 item 5 P-60 + Ch-26 item 37(iix2) P-163	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.i/c P/L double layer polythene sheet 500 gauge	82,692.88		100 Sft		

39	Ch-9 item 15 P-62	Khuras on roof 2'x2'x6" (600 x 600 x 150 mm).	52.00		Each		
40	Ch-9 item 16 P-62	Bottom Khuras of brick masonry in cement mortar 1:6, 4'x2'x4½" (1200x600x113 mm) over 3" (75 mm) cement concrete 1:4:8.	52.00		Each		
	Total "A"(Schedule items) C/o to Summary of Cost:						
		NON SCHEDULE ITEMS-B					
		Flooring					
		Excavation Upto any Depth					
1	N.S	Structural excavation in any kind of soil above / below water level for levelling and grading of building, for raft / foundations and other structures upto any depth, and disposal of unsuitable / surplus excavated material outside the project premises at any lead, including restoration of any damages during excavation is the responsibility of contractor complete in all respects as per Specifications and as per approval of The Engineer.	216,657.10		Per/Cft		
2	N.S	Providing and laying structural pad of granular fill material mixture of 50% sand and 50% crushed stones compacted to 95% maximum modified "AASHO" dry density i/c carriage of all materials at site complete in all respect as approved by The Engineer.	62,567.66		Per/Cft		
		Flooring					
3	N.S	Providing and laying Porcelain tiles flooring (full body) 16" x 16" Master, or approved equivalent laid over 3/4" thick cement sand mortar (1:3) including setting the tiles with Bond (Stile, or approved equivalent) i/c filling joints with Grout (Stile, or approved equivalent) of matching color i/c cutting, leveling, washing and curing complete in all respect as per Specifications, and as per sample approved by The Engineer. (Imperial (IMPG) Dark Color Polished SB)	99,042.64		Per/Sft		

4	N.S	Providing and laying Granite tiles flooring (full body) 24" x 24" Master, or approved equivalent laid over 3/4" thick cement sand mortar (1:3) including setting the tiles with Bond (Stile, or approved equivalent) i/c filling joints with Grout (Stile, or approved equivalent) of matching color i/c cutting, leveling, washing and curing complete in all respect as per Specifications, and as per sample approved by The Engineer. (Granite with dry/wet/venied application,DWV series Polished (Light color)class SB)	42,400.97		Per/Sft		
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		Skirting / Dado					
5	N.S	Providing and laying Porcelain tiles flooring (full body) 16" x 4" Master, or approved equivalent laid over pre-plastered surface including setting the tiles with Bond (Stile, or approved equivalent) i/c filling joints with Grout (Stile, or approved equivalent) of matching color i/c cutting, leveling, washing and curing complete in all respect as per Specifications, and as per sample approved by The Engineer. (Imperial (IMPG) Dark Color Polished SB)	35,118.83		Per/Sft		
6	N.S	Providing and laying Granite tiles flooring (full body) 24" x 4" Master, or approved equivalent laid over pre-plastered surface including setting the tiles with Bond (Stile, or approved equivalent) i/c filling joints with Grout (Stile, or approved equivalent) of matching color i/c cutting, leveling, washing and curing complete in all respect as per Specifications, and as per sample approved by The Engineer. (Granite with dry/wet/venied application,DWV series Polished (Light color)class SB)	2,767.83		Per/Sft		
		Windows Sill					
7	N.S	Providing and fixing 3/4" thick Pre-polished Granite Marble Slab uniform texture full width and length laid over 3/4" thick cement sand mortar (1:3) including setting the tiles with Bond (Stile, or approved equivalent) i/c filling joints with Grout (Stile, or approved equivalent) of matching color i/c cutting, leveling, washing, curing and beveling charges on exposed edges complete in all respect as per Specifications, and as per sample approved by The Engineer.	2,349.90		Per/Sft		
		Entrance Steps / Podium					
8	N.S	Providing and fixing 3/4" thick pre-polished Granite Marble Slab uniform texture full width laid over 3/4" thick cement sand mortar (1:3) including setting the tiles with Bond (Stile, or approved equivalent) i/c filling joints with Grout (Stile, or approved equivalent) of matching color i/c cutting, leveling, washing, curing and beveling charges on exposed edges complete in all respect as per Specifications, and as per sample approved by The Engineer.	1,228.50		Per/Sft		
		Stair Steps					
9	N.S	Providing and laying Pre-polished Black Granite (supreme quality) slabs laid over 3/4" thick cement sand mortar (1:3) including setting the tiles with Bond (Stile, or approved equivalent) i/c filling joints and washing the tiles with Grout (Stile, or approved equivalent) of matching color i/c cutting, leveling, washing, curing and beveling charges on exposed edges, i/c anit-slip treads with carborundum powder and silicon mixture in thee rows complete in all respect as per Specifications, and as per sample approved by The Engineer.					
9.1	a)	3/4" thick Pre-polished Black Granite (supreme quality) one-piece slab of length and width as shown on drawings, rounded smooth of stairs and entrance steps.	2,629.46		Per/Sft		
9.2	b)	3/4" thick Pre-polished Black Granite (supreme quality) slabs of length and height as shown on drawings, over risers of stairs and entrance steps.	1,018.24		Per/Sft		
		Laminated Wooden Flooring					
10	N.S	Providing and laying, jointing etc. Laminated Wooden Floor (200mmX1200mmx8mm) (Malaysian, turkey or approved equivalent) of approved color and shade at floor i/c the cost of jumbo lawn, Nail, edging & Fixing etc. as approved by The Engineer, complete in all respects.	3,939.60		Per/Sft		
11	N.S	Providing and laying, jointing etc. Laminated Wooden Floor (200mmX1200mmx8mm) (Malaysian, turkey or approved equivalent) of approved color and shade at floor i/c the cost of jumbo lawn, Nail, edging & Fixing etc. as approved by The Engineer, complete in all respects.Dado/ Skirting	846.30		Per/Rft		
		Vanity / Kitchen Counter Top					
12	N.S	Providing and fixing 3/4" thick pre-polished Black Granite one-piece marble slabs Kitchen / Vanity Counter etc; laid over 3/4" thick cement sand mortar (1:3) including setting the tiles with Bond (Stile, or approved equivalent) i/c filling joints and washing the tiles with Grout (Stile, or approved equivalent) of matching color i/c cutting, leveling, washing, curing and beveling charges on exposed edges complete in all respect as per Specifications, and as per sample approved by The Engineer.	697.20		Per/Sft		
		Miscellenious					

13	N.S	Providing and fixing 1-1/2" Oak Wood Door shutter (Red Oak-859 imported) With Oak wood architraves on both sides, including polishing with lacquer polish (including preparation of surface, applying priming coat, rubbing etc.); or approved equal; all rough and finished hardware complete in all respects as per drawings and Specifications, including handles, tower bolt 18" (A/B Heavy) etc., as per sample approved by The Engineer.	12,175.80	Per/Sft		
14	N.S	Providing and fixing uPVC Door, including PVC door frame, with hinges, latch lock, tower bolt, handle & hardware manufactured by ("FRAMEZ, ZEALCON" or approved equivalent) complete in all respects, and as per sample approved by The Engineer.	1,176.00	Per/Sft		
15	N.S	Providing and fixing imported Handle Locks with 3 keys, to wooden doors (Hungry" or approved equivalent) complete in all respects, and as per sample approved by The Engineer.	416.00	Per/Sft		
16	N.S	Providing and fixing M.S. Sheet hollow pressed 'frame of doors, '(Chowkhat only) of 16 SWG welded / supported with M.S. flat 1-1/4"x1/8" (7-Nos.) i/c screwed 4" (100mm) long iron hinges including fitting chowkhat with cement sand mortar 1:8 and embedding hold fast in cement concrete 1:2:4 complete in all respects, as approved and directed by The Engineer.	2,785.65	Per/Sft		
17	N.S	Providing and fixing M.S grill consisting of 1" x 1", 16-SWG M.S square pipe frame with 2 rows of horizontally & equal dividing panels vertically in the same frame and 1/2" M.S square bars 5" c/c welded to each an other & frame horizontally with 2 rows of equal dividing in three panels vertically as per approved drawing and design in windows i/c hold fast, grouting hold fast in cement concrete (1:2:4) and enamel painting 3-coats with one base coat of red oxide paint complete in all respect as approved and directed by The Engineer.	11,491.20	Per/Sft		
18	N.S	Providing and fixing all types of double glazed aluminium windows / ventilator of approved colour partly fixed and partly sliding using deluxe section of approved manufacturer having Frame of size 100mm x 30mm using frame at bottom, at top and side leaf leaf frame sections of 60mm x 23mm at top & bottom and size 45mm x 25mm at center and size 45mm x 25mm at sides, Jali leaf frame size 43mm x 13mm i/c fine quality aluminum jali, (5 mm + 8 mm AGU+ 5 mm) imported tinted glass with rubber gasket using approved standard latches, wheel, stopper, brush channel angle joint and hardware etc. complete in all respect. 2 mm thick	11,491.20	Per/Sft		
19	N.S	Providing and fixing stainless steel non-magnetic railing consisting of main pipe 2" dia 16 SWG imported (China) & 3' height balustrades @ 2' C/C consisting of 1-1/2" to 2" wide and 3/16" thick 2-No stainless steel strips with studs i/c 3/4" dia 16 SWG 3-No stainless steel pipes longitudinally passing in between the strips of balustrades i/c bends, base plate etc with Bottom stainless steel "tiki" & cover, fixing with rowal bolt (3" to 2 1/2" long) i/c steel polishing etc complete in all respect as approved by the Engineer Incharge (All members will be of non magnetic).	640.50	Per/Rft		
20	N.S	Providing and fixing Kitchen Cabinets comprising of 3/4" thick MDF Laminated (both sides laminated) for front shutter of approved colour and texture with kail wood frame (3"x1") and best quality hardware's (handles, locks, latches, Hinges & screws etc.) with deodar wood lipping(1/2"x3/4") and polishing / enamel painting, termite proofing including all type of labour, as shown on drawings complete in all respects as per sample approved by The Engineer. (Floor Mounted Cabinet)	184.80	Per/Sft		
21	N.S	Providing and fixing Kitchen Cabinets comprising of 3/4" thick MDF Laminated (both sides laminated) for front shutter of approved colour and texture including 3/4" (20 mm) thick Vin Board Sheet boxing and hard board for back with kail wood frame (3"x1") and best quality hardware's (handles, locks, latches, Hinges & screws etc.) with deodar wood lipping(1/2"x3/4") and polishing / enamel painting, termite proofing including all type of labour, as shown on drawings complete in all respects as per sample approved by The Engineer. (Wall Mounted Cabinet)	134.40	Per/Sft		
22	N.S	Providing and Fixing Gypsum board 24"x24" false ceiling make DFB or Approved Equivalent with 10mm thinness with aluminum foil on the back of tile fixed on imported CKM Tees and Fittings and supported with local angle with G.I 16 Guage at appropriate distance i/c cost of hooks, clamps, carriage and labour charges at any height etc complete in all repect and as per satesfaction of The Engineer.	54,356.40	Per/Sft		

23	N.S	Providing and Fixing Decorative Gypsum Board False-Ceiling (4'x8'x3/8") of approved design by The Engineer, including approved support and hanging system and all accessories by (Thermec or approved equivalent) and as per Specifications, as shown on drawing complete in all respect as per Manufacturer's instructions, including all strengthening and edge trimming for supports for light fittings, diffusers etc., and for making openings, complete including cleaning and finishing, as per sample approved by The Engineer.	6,075.30	Per/Sft		
24	N.S	Providing and fixing Stone Texture Tile on facing of approved size color and shade laid over pre-plastered surface including setting the tiles with Bond (Stile, or approved equivalent) i/c filling joints with Grout (Stile, or approved equivalent) of matching color i/c cutting, leveling, washing, curing and cost of scaffolding fixing at any height in any floor, complete in all respect as per Specifications, as approved by The Engineer.	982.80	Per/Sft		
25	N.S	Providing and Fixing Chicken Wire Mesh (12" Wide) for horizontal and vertical joints of masonry and concrete with nails and screws i/c all cost of labour and material complete in all respects, as approved by The Engineer.	35,837.55	Per/Rft		
26	N.S	Providing and laying wall ties (anchor bars) 2/8"dia placed at horizontal and vertical spacing in cavity wall of any description in any floor at any height, and make joint b/w concrete and brick work i/c drilling hole in R.C.C columns tying with brick masonry wall , 3-#2 @ every 4th horizontal and vertical course complete in all respects as shown in drawings and approved by The Engineer.	22850.10	Each		
27	N.S	Providing and fixing Steel Lockers 2' deep consisting of M.S angle iron frame 1" x 1" x 1/8" with leaf frame of M.S angle iron 1" x 1" x 1/8" with M.S sheet of 20-SWG front shutter, top, bottom, left, right & back and best quality hardware's (handles, locks, latches, Hinges & screws etc.) i/c welding charges with 3-coat of hammer paint, complete in all respect as approved by The Engineer.	330.75	Per/Sft		
28	N.S	Supply, provide and fix in position uPVC rain water down pipe lines conforming to ISO 3633:1991 and BS 3505 1968 (wall thickness 3.2mm) including proper joints complete in all respects, and system leak-free:				
		4" dia	1,411.20	Per/Rft		
29	N.S	Provide and fix uPVC plain bends with grating (as rain water inlets at roof), water tight connection leak-free:				
		4" dia	52.00	Each		
30	N.S	Provide and fix uPVC shoe bends (as rain water outlets), water tight connection leak-free				
		4" dia	52.00	Each		
		Total "B"(Schedule items) C/o to Summary of Cost:				
		Net Total (A+B)				

INTERNAL PUBLIC HEALTH WORK

Item No.	REF. Nos CH/ITEM	Description of Items	Qty	Unit	Rate (Rs.)	Amount (Rs.)
MRS, 1st BI-ANNUAL-2021 (1st JANUARY-2021 to 30th JUNE -2021) DISTRICT BAHAWALPUR						
		Schedule Items (A)				
		Plumbing Fixtures				
1	Ch 19 item 17/P-113	Providing and fixing, chromimum plated toilet paper holder	92	Each		
2	Ch 19 item 18(i)/P-114	Providing and fixing, chromium plated towel rail:- i) 60 cm (24") long, and 2 cm (¾") dia	44	Each		
3	Ch 19 item 22(iv)/P-114	Providing and fitting:- iv) plastic shelf 60x13 cm (24"x5") with bracket and railing.	20	Each		
4	Ch 19 item 19/P-114	Providing and fixing looking glass 55x40 cm (22"x16") size and 5 mm thick, first quality. (For pedestal)	20	Each		
5	Ch 19 item 15/P-113	Providing and fixing, chromium plated soap dish.	84	Each		
Total "A"(Schedule items) C/o to Summary of Cost:						
		Non Schedule Items (B)				
		Plumbing Fixtures				
1	NS	Providing and fixing European type ceramics ware coupled water closet, white / light colour, including 3 gallons cistern, P/S trap, C.P tee stop cock with wall cups, connection pipes, "Porta or Approved Equivalent", hinged double bacolite seat and cover of best quality, all joints to services and drains, plugging and screwing as necessary to the structure and make good the same, complete in all respect as per specifications and drawings.	52.00	Each		
2	NS	Providing and fixing European type ceramics ware coupled water closet, white / light colour, including 3 gallons cistern, P/S trap, C.P tee stop cock with wall cups, connection pipes, "Porta or Approved Equivalent", hinged double bacolite seat and cover of best quality, all joints to services and drains, plugging and screwing as necessary to the structure and make good the same, complete in all respect as per specifications and drawings.(for Disable)	8.00	Each		

3	NS	Providing and fixing Asiatic/Orissa pattern glazed earthen ware W.C with integral foot rest,white / light colour, with 3 gallons low level flushing tank system, 1-1/2" dia, PVC (D-type) flush pipe, "P" or "S" trap best quality "Porta or Approved Equivalent" make, C.P tee stop cock with wall cups, "SONEX", "MASTER" painted M.S. wall brackets with nuts and bolts, complete in all respect as per specifications and drawings.	32.00	Each		
4	NS	Providing and fixing wash hand basin vanity, white / light colour, C.P. tee stop cock with wall cups, "Porta or Approved Equivalent", waste couplien, plug with C.P. brass chain, 1-1/2" dia. P.V.C. (D-type) Waste pipe, connections to water lines, C.P. brass union, nuts, washers, C.P. grating including C.P. bottle trap etc.Complete in all respect as per specifications and drawings.	64.00	Each		
5	NS	Providing,Installing and fixing wash hand basin Padestal type "Porta or Approved Equivalent" with waste coupling ,cp nozzle & which includes but not limited to fixing, connection pipes, connections to water lines,C.P. brass union, nuts, washers, etc. complete in all respect as per specifications and drawings and as directed by the Engineer.	12.00	Each		
6	NS	Providing,Installing and fixing wash hand basin Padestal type "Porta or Approved Equivalent" with waste coupling ,cp nozzle & which includes but not limited to fixing, connection pipes, connections to water lines,C.P. brass union, nuts, washers, etc. complete in all respect as per specifications and drawings and as directed by the Engineer.(for Disable)	8.00	Each		
7	NS	Providing and fixing stainless steel kitchen sink of 20 gauge of "Porta or Approved Equivalent" including, brackets, screws,15 mm dia. C.P. brass T. stop cocks of Master, Sonix, 40 mm dia heavy duty waste coupling and PVC flexible waste pipe of approved make and quality complete all respects.	8.00	Each		
8	NS	Providing and fixing C.P. Muslim Shower with double bib cock of best quality, with C.P. flexible pipe of "Porta or Approved Equivalent", complete in all respect as per specifications and drawings.	92.00	Each		
9	NS	Providing and fixing 15 mm dia C.P. mixer with C.P pipe 15 mm dia, of "Porta or Approved Equivalent", Porta or approved equal complete including pipe connections, all fittings, testing etc.				
		a) Wash basin mixer	84.00	Each		
		b) Sink mixer	8.00	Each		
		c) Ablution Double bib cock	16.00	Each		
10	NS	Providing and fixing best quality distortion free imported Belgium glass (beveled) mirrors 5mm thick with hard board backing, chromium plated screws/brackets, complete in all respects as per specifications and drawings.(for vanity)	320.00	Sft		
		Water Supply System				
11	NS	Providing, fixing, jointing and testing Polypropylene Random (PPR) pipes, VODA PIPES/(Polydex by DADEX) or approved equivalent, pressure pipe for cold/hot water as per DIN 8077-8078,PN-20 for pipes and DIN 16962,PN-25 for fittings (polyfusion welded joints) inside building including fittings and specials (sockets, tees, elbows, bends, crosses, reducers, adaptor, plugs and union etc.) supported on walls or suspended from roof slab or run in chases including pipe hangers, supports, cutting and making good the chases and holes, complete in all respects.				
		25mm dia	715	Rft		
		32mm dia	902	Rft		
		40mm dia	627	Rft		
		50mm dia	193	Rft		
12	NS	Providing and installing ball valves of following nominal dia, Scon/Kitz make or approved Equaivalent, including jointing, fitting, painting, testing, complete in all respects to match with PPR and PE pipes of following diameters.				
		25 mm	0	Nos.		
		32 mm	16	Nos.		
		40 mm	16	Nos.		
		50 mm	0	Nos.		
		Sewerage System				
13	NS	Providing, laying, fixing and testing uPVC Nicasi soil, waste, vent and rain water as per ISO 3633:1991 or equivalent BS specifications including uPVC fittings with solvent cement jointing or rubber ring joints,VODA PIPES/DADEX Or Approved Equivalent make as approved by the Engineer complete in all respects, including clamps, bends, tees, Y-tees, cowls, reducers, sleeves, clean out, waterproof sleeves, roof drain, etc., embedded in floors and walls, clamped to walls, suspended from slab (common hanger shall be used for pipe hanging and fiber glass tray under pipes), painted MS horizontal and vertical pipe hangers of approved design making requisite no. of holes and making good the same complete in all respect as per specifications and drawings.				
		2" i.d	1,020	Rft		
		3" i.d	1,791	Rft		
		4" i.d	2,522	Rft		
14	NS	Providing, fixing, cutting, jointing and testing uPVC Vent Cowel on Vent Pipes with solvent cement jointing, VODA PIPES/DADEX or approved equivalent, rates include cost of cutting & pipe fittings of the following diameter:				
		2" i.d	48.00	Nos		
15	NS	Providing, laying, fixing and testing floor drain (multifloor trap) uPVC including extension grating and stainless steel cover grating best quality local make Porta or Approved Equivalent as approved Engineer, complete in all respect as per specifications and drawings.	160.00	Nos.		
16	NS	Providing and fixing clean out with threads ferule fixed in pipe with the help of solvent, as shown on drawing, complete in all respects as per specifications and drawings.				
		3" i.d	50.00	Nos.		
		4" i.d	28.00	Nos.		
17	NS	Providing and making top khurra/R.W.C.B using 3" thick plain cement concrete 1:2:4 matching with roof tiles with steel trowel finishing at desired level including curing, finishing, complete in all respect as per specifications and drawings.				
		i) 1'x1'.	22.00	Nos.		

		ii) 2'x2'.	24.00		Nos.		
		Gas Supply System					
18	NS	Providing, laying, fixing, testing (at 90 psi) and disinfecting, galvanized iron pipelines for sui gas supply of "Jamal pipe Or Approved Equivalent", as per BSS 1387 medium quality, "IIL", and "KPM" as approved by the Engineer complete in all respects to their entire satisfaction, including specials such as tee, cross, reducer, bend, union, elbow, plug, socket etc., supported on walls or suspended from slab, including painted MS horizontal and vertical pipe hangers of approved design, supports, cutting and making good the same as necessary to the structure including two layers of anticorrosive bitumen tape overlapped 6mm at edges to all buried pipes, complete in all respect as per specifications and drawings.					
		3/4" i.d	230		Rft		
19	NS	Providing and installing ball valves of following nominal dia, Kitz make, including jointing, fitting, painting, testing, complete in all respects to match with following G.I pipe diameters.					
		3/4" i.d	8.00		No.		
20		Fire Extinguisher System					
		Providing, fixing, testing fire existuishers of following type, complete in all respects as per design drawings and as per satisfaction of the Engineer incharge					
20.1	NS	Dry Chemical Powder Type Fire Extinguisher Portable 4 kg ABC Powder Model PD4D	32.00		Each		
20.2	NS	CO2 Type Fire Extinguisher Portable 5 kg CO2 Model CD5D	32.00		Each		
20.3	NS	Fire Exit Lights Ceiling Mounted (Self Contained)	66.00		Each		
Total "B"(Schedule items) C/o to Summary of Cost :							
Net Total (A+B) :							

EXTERNAL PUBLIC HEALTH WORK

Item No.	REF. Nos CH/ITEM	Description of Items	Qty		Unit	Rate (Rs.)	Amount (Rs.)
MRS, 1st BI-ANNUAL-2021 (1st JANUARY-2021 to 30th JUNE -2021) DISTRICT BAHAWALPUR							
		<u>Schedule Items (A)</u>					
		Plumbing Fixtures					
		Water Supply System (For Pipe Line)					
1	Ch.3 Item 44/P-33	Excavation of trenches in all kinds of soil, except cutting rock, for watersupply pipelines upto 5 ft. (1.5 m) depth **8.1 after laying of pipe line, which is from ground level, including trimming, dressing sides, payable separately. leveling the beds of trenches to correct grade and cutting pits for joints, etc. complete in all respects.	8281		1000 Cft		
		Gas Supply System (For Pipe Line)					
2	Ch.3 Item 44/P-33	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.	5150		1000 Cft		
		Sewerage System (For Pipe Line)					
		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:- (FOR PIPES)					
3	Ch 3 item 42(i)/P-32	i) 0 ft. to 7.0 ft. (0 to 2.10 m) depth	10359		1000 Cft		
4	Ch 7 item 30/P-56	Supplying and filling sand under floor; or plugging in wells	1011		100 Cft		
		Septic Tank (2 Nos.)					
5	Ch.3 Item 42(i)/P-32	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	847		1000 Cft		
6	Ch.3 Item 42(ii)/P-32	ii) 7-01 ft. to 15.0 ft. (2.15 to 4.5 m) depth	363		1000 Cft		
7	Ch.6 Item5(i)/P-42	Cement concrete plain including placing compacting, finishing and curingcomplete (including screening and washing of stone aggregate): Nominal mix (1: 4: 8) having minimum 1500 Psi cylindrical compressive strength at 28 day	40		100 Cft		
8	Ch.6 item 6a(ii)2 /P-42	Providing and laying reinforced cement concrete (including prestressed concrete), using coarse sand and screened surface smooth, and the plastering graded and washed aggregate, in required shape and design, done for making up all surfaces including forms, moulds, shuttering, lifting, compacting, after removing centring. curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):-(a)(ii) 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) having minimum 3000 Psi cylindrical compressive strength at 28 days.	438		Per Cft		
9	Ch.6 item 6a(i)2 /P-42	(a) (i) 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) having minimum 3000 Psi cylindrical compressive strength at 28 days.	85		Per Cft		
10	Ch.6 Item 9(c)/P-44	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and chairs, etc.and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars):- ('c) Deformed bars (Grade-60)	1465		100 Kg		

11	Ch 21 Item, 15-A/P-124	Providing and fixing 6" thick R.C.C. manhole cover with tee shaped C.I. frame of 22" l/d (frame weighing 37.324 Kg. or one maund as per Standard Drawing STD/PD No. 6, of 1977, complete in all respect.	4		Per Set		
12	Ch 6 Item 28/P-46	Providing embedding 10" (250 mm) wide ¼" (6 mm) thick rubber water stopper in expansion joints of R.C.C. roof slab complete in all respects.	54		Rft		
13	Ch.13 Item 9/P-87	Bitumen coating to plastered or cement concrete surface					
		(i) 20 lbs. per 100 sft.	270		100 Sft		
14	Ch 10 Item 39/P-70	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: i) 3/8"(10 mm) thick	556		100 Sft		
		Gully Trap					
15	Ch 21 item 7(b)/P-123	Constructing gully grating chamber,12"x12", (300x300 mm) complete in all respects: b) concrete Gully trap.	20		Each		
Total "A"(Schedule items) C/o to Summary of Cost:							
		Non Schedule Items (B)					
		Water Supply System					
1	NS	Providing, fixing, jointing and testing Polypropylene Random (PPR) pipes, VODA PIPES/(Polydex by DADEX) or approved equivalent, pressure pipe for cold/hot water as per DIN 8077-8078,PN-20 for pipes and DIN 16962,PN-25 for fittings (polyfusion welded joints) inside building including fittings and specials (sockets, tees, elbows, bends, crosses, reducers, adaptor, plugs and union etc.) supported on walls or suspended from roof slab or run in chases including pipe hangers, supports, cutting and making good the chases and holes, complete in all respects.					
		63mm dia	2,070		Rft		
2	NS	Providing and installing ball valves of following nominal dia, Scon/Kitz make or approved Equaivalent, including jointing, fitting, painting, testing, complete in all respects to match with PPR and PE pipes of following diameters.					
		63 mm	1		Nos.		
		Sewerage System					
3	NS	Providing and fixing 1" malleable dia cast iron step, in Under ground tank , manhole, including carriage and setting the same in work to correct lines and levels.(for tanks)	28		Nos.		
4	NS	Providing, laying, fixing and testing uPVC Nicasi soil, waste, vent and rain water as per ISO 3633:1991 or equivalent BS specifications including uPVC fittings with solvent cement jointing or rubber ring joints,VODA PIPES/DADEX Or Approved Equivalent make as approved by the Engineer complete in all respects, including clamps, bends, tees, Y-tees, cowls, reducers, sleeves, clean out, waterproof sleeves, roof drain, etc., embedded in floors and walls, clamped to walls, suspended from slab (common hanger shall be used for pipe hanging and fiber glass tray under pipes), painted MS horizontal and vertical pipe hangers of approved design making requisite no. of holes and making good the same complete in all respect as per specifications and drawings.					
		6" i.d	949		Rft		
		8" i.d	583		Rft		
5	NS	Providing and constructing 2'x2' manhole with brick work including excavation, backfilling, RCC work PCC 1:2:4 cambering, plastering in 1:4 inside & outside, water proofing etc., upto 6' depth and size including ladder top slab, 18" heavy duty C.I. Manhole cover with frame "ALPINE INDUSTRIAL CON", "CME", "NPC SUPER" as shown on the drawings, complete in all respect as per specifications and drawings.	30.00		Nos.		
		Gas Supply System					
6	NS	Providing, laying, fixing, testing (at 90 psi) and disinfecting, galvanized iron pipelines for sui gas supply of "Jamal pipe Or Approved Equivalent", as per BSS 1387 medium quality, "IIL", and "KPM" as approved by the Engineer complete in all respects to their entire satisfaction, including specials such as tee, cross, reducer, bend, union, elbow, plug, socket etc., supported on walls or suspended from slab, including painted MS horizontal and vertical pipe hangers of approved design, supports, cutting and making good the same as necessary to the structure including two layers of anticorrosive bitumen tape overlapped 6mm at edges to all buried pipes, complete in all respect as per specifications and drawings.					
		3/4" i.d	1,288		Rft		
7	NS	Providing and installing ball valves of following nominal dia, Kitz make, including jointing, fitting, painting, testing, complete in all respects to match with following G.I pipe diameters.					
		3/4" i.d	1.00		No.		
8	NS	Providing, fixing & testing Gas meter as per Sui Northern gas with All Accessories.complete in all respect as per drawings,Specification & Engineer In Charge.	1.00		No.		
Total "B"(Schedule items) C/o to Summary of Cost :							
Net Total (A+B) :							

ELECTRICAL WORKS

Item No.	REF. Nos CH/ITEM	Description of Items	Qty		Unit	Rate (Rs.)	Amount (Rs.)
MRS, 1st BI-ANNUAL-2021 (1st JANUARY-2021 to 30th JUNE -2021) DISTRICT BAHAWALPUR							
		SCHEDULE ITEM-A					
		Internal Electrification					
A.01		Light Circuits					

		Supply, installation and commissioning of light circuit wiring, to be wired with 3x2.5mm sq. (1P+1N+1PE) PVC insulated 300/500 V grade wire make Pakistan Cable, Newage, Fast Cables, in and including cost of 1" dia. heavy duty PVC conduit make Beta , Popular recessed in , walls, Roof slab, or on surface or above false ceiling or as required as per site conditions, all PVC conduit accessories, pull boxes, steel pull wires , complete in all respects. Each circuit shall have independent PE.				
	CH: 24 Item 10 (a)-iii P-144	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 and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x 2.5 mm (7/0.029")	13,950.00		Rft	
	CH: 24 Item 3 (iii) P-143	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 25mm	3,487.50		Rft	
A.02		UPS Light Circuits				
		Supply, installation and commissioning of UPS light circuit wiring, to be wired with 1x2.5mm sq. (1UPS) PVC insulated 300/500 V grade wire make Pakistan Cable, Newage, Fast Cables, in pre installed 1" dia. heavy duty PVC conduit make Beta , Popular recessed in , walls, Roof slab, or on surface or above false ceiling or as required as per site conditions, all PVC conduit accessories, pull boxes, steel pull wires , complete in all respects				
	CH: 24 Item 10 (a)-iii P-144	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 and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x 2.5 mm (7/0.029")	3,750.00		Rft	
A.03		1-Light Point Controlled By One Switch				
		Wiring of one light point controlled by one switch and wired with 3x1.5 mm sq. (P+N+PE) PVC insulated wires 300/500 V. grade make Pakistan Cable, Newage, Fast Cables, in and including cost of 3/4" dia. heavy duty PVC conduit make Beta , Popular installed on RCC slab, above false ceiling, recessed in wall, columns slabs or above light carrier all PVC conduit accessories, 3" high PVC junction boxes, pull boxes, steel pull wires, PVC flexible conduit from ceiling junction box to light fixture flush type plate switches, including cost of back boxes and switches of 10 Amps.				
	CH: 24 Item 10 (a)-i P-144	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 and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x 1.5 mm (3/0.029")	44,450.00		Rft	
	CH: 24 Item 3 (ii) P-143	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 20mm	14,816.67		Rft	
A.04		Point -Point Wiring				
		Same as per item No. A.03 but Loop wiring of a light point from first light point on same switch circuit, complete in all respects.				
	CH: 24 Item 10 (a)-i P-144	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 and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x 1.5 mm (3/0.029")	62,195.00		Rft	
	CH: 24 Item 3 (ii) P-143	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 20mm	20,731.67		Rft	
A.05		Exhaust Fan Point				
		Same as Item No. A.03 mentioned above but wiring of exhaust fan point including cost of 10 Amp switch with M.S box 16 SWG with earth terminal.				
	CH: 24 Item 10 (a)-i P-144	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 and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x 1.5 mm (3/0.029")	4,000.00		Rft	
	CH: 24 Item 3 (ii) P-143	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 20mm	1,333.33		Rft	
A.06		Ceiling Fan Point				
		Same as Item No. A.03 mentioned above but wiring of Ceiling fan point including cost of 10 Amp switch with M.S box 16 SWG with earth terminal.				
	CH: 24 Item 10 (a)-i P-144	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 and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x 1.5 mm (3/0.029")	23,880.00		Rft	
	CH: 24 Item 3 (ii) P-143	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 20mm	7,960.00		Rft	
A.07		Wall Bracket Fan				
		Same as Item No. A.03 mentioned above but wiring of Wall Bracket fan point including cost of 10 Amp switch with M.S box 16 SWG with earth terminal.				
	CH: 24 Item 10 (a)-i P-144	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 and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x 1.5 mm (3/0.029")	360.00		Rft	
	CH: 24 Item 3 (ii) P-143	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 20mm	120.00		Rft	
A.08		1-13 Amps Switch Socket				

		Supply and wiring of one 3pin 13 Amps light plug socket outlet point from distribution board with single core 2x4mm2(P+N) PVC insulated 300/500 volt grade cable in & including PVC conduit recessed in walls/R.C.C. slab, or installed on surface of Ceiling, all conduits accessories, junction boxes, pull boxes etc. 2.5mm2 cable as PC excluding cost of 3 pin 13 Amps switch & socket outlet make CLIPSAL, Legrand , ABB or approved equivalent installed on & including 16 SWG sheet steel board recessed in walls complete in all respects and as per specifications & drawings.				
	CH: 24 Item 10 (a)-iv P-144	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 and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x 4 mm (7/0.036")	24,840.00		Rft	
	CH: 24 Item 10 (a)-iii P-144	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 and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x 2.5 mm (7/0.029")	8,280.00		Rft	
	CH: 24 Item 3 (iii) P-143	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 25mm	8,280.00		Rft	
A.09		Loop-Loop- 13 Amps Switch Socket				
		Same as item No.A.12 above but loop wiring of 13A power socket outlet with 2x4mm2(P+N) & 1x2.5mm2 as CPC from point to point excluding cost of one 15A 3 pin switch socket outlets with make CLIPSAL, Legrand, ABB or approved equivalent installed on & including 16 SWG sheet steel boards recessed in walls /columns.				
	CH: 24 Item 10 (a)-iv P-144	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 and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x 4 mm (7/0.036")	7,980.00		Rft	
	CH: 24 Item 10 (a)-iii P-144	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 and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x 2.5 mm (7/0.029")	2,660.00		Rft	
	CH: 24 Item 3 (iii) P-143	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 25mm	2,660.00		Rft	
A.10		Loop-Loop- 5 Amps Switch Socket				
		Same as item No.A.12 above but loop wiring of 5A power socket outlet with 2x4mm2(P+N) & 1x2.5mm2 as CPC from point to point excluding cost of one 15A 3 pin switch socket outlets with make CLIPSAL, Legrand, ABB or approved equivalent installed on & including 16 SWG sheet steel boards recessed in walls /columns.				
	CH: 24 Item 10 (a)-iv P-144	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 and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x 4 mm (7/0.036")	21,000.00		Rft	
	CH: 24 Item 10 (a)-iii P-144	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 and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x 2.5 mm (7/0.029")	7,000.00		Rft	
	CH: 24 Item 3 (iii) P-143	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 25mm	7,000.00		Rft	
A.11		1-15 Amps Switch Socket				
		Supply and wiring of one 3pin 15 Amps Power plug socket outlet point from distribution board with single core 2x4mm2 (P+N) PVC insulated 300/500 volt grade cable in & including PVC conduit recessed in walls/R.C.C. slab, or installed on surface of Ceiling including all conduits accessories, junction boxes, pull boxes etc. 4mm2 cable as PC including cost of 3 pin 20 Amps switch & socket out let make CLIPSAL, Legrand, ABB or approved equivalent installed on & including 16 SWG sheet steel board recessed in walls complete in all respects and as per specifications & drawings.				
	CH: 24 Item 10 (a)-iv P-144	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 and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x 4 mm (7/0.036")	1,350.00		Rft	
	CH: 24 Item 10 (a)-iii P-144	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 and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x 2.5 mm (7/0.029")	450.00		Rft	
	CH: 24 Item 3 (iii) P-143	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 25mm	450.00		Rft	
A.12		Power Cables and PVC Conduit				
		L.T. Power Cables				
		Supply at site, installation, testing and commissioning of PVC insulated armoured copper conductor cable 600 / 1000 Volt grade 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 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.make Pakistan Cable, Newage Cable, Fast Cable or eqv..				
a)		PVC insulated, PVC sheathed 4 core 660/1100 volt grade cable, armoured with G.I. wire 16 SWG.				

i)	CH: 24 Item 12-vii P-145	1 core 185mm sq. (37/0.103") cable from MPB to MPB-E	360.00		Rft		
ii)	CH: 24 Item 13 (c)-vii P-145	4 core 25mm sq. cable from Meter Panel Board to DBs.	1,310.00		Rft		
iii)	CH: 24 Item 13(c)-vi P-146	4 core 16mm sq. cable from Meter Panel Board to DBs.	1,570.00		Rft		
b)		single core PVC insulated, PVC sheathed copper conductor, 660/1100 volts grade cable Circuit Protective Conductor (CPC)					
i)	CH: 24 Item 12 (iv) P-145	1 core 70mm sq.	360.00		Rft		
ii)	CH: 24 Item 12 (i) P-145	1 core 16mm sq.	1,310.00		Rft		
iii)	CH: 24 Item 11 (v) P-144	1 core 6mm sq.	1,570.00		Rft		
A.13		PVC Conduit					
		Supply at site of PVC conduit heavy duty to be concealed in RCC slabs, walls, floor, columns above false ceiling or as required as per site conditions including cost of all PVC conduit accessories, steel pull wires, complete in all respects.					
i)	CH: 24 Item 6 (i) P-143	2" DIA PVC Conduit	600.00		Rft		
ii)	CH: 24 Item 3(iii) P-143	25 mm i/d	400.00		Rft		
		Total "A"(Schedule items) C/o to Summary of Cost:					
		NON SCHEDULE ITEM-B					
B.01		Switch & Sockets.					
i	Appendix ' c' Page No-1	Providing and fixing of 2 gang switch 10 Amp with back box (6"x3"). Make Clipsal Austrila, Philips or eqv.	20.00		Each		
ii	Appendix ' c' Page No-2	Providing and fixing of 4 gang switch 10 Amp with back box (6"x3"). Make Clipsal Austrila, Philips or eqv.	142.00		Each		
iii	Appendix ' c' Page No-3	Providing and fixing of 6 gang switch 10 Amp with back box (6"x3"). Make Clipsal Austrila, Philips or eqv.	110.00		Each		
iv	Appendix ' c' Page No-4	Providing and fixing of 8 gang switch 10 Amp with back box (6"x3"). Make Clipsal Austrila, Philips or eqv.	50.00		Each		
v	Appendix ' c' Page No-5	Providing and Fixing of Switched Socket 5 Amp with back box (3"x3"). Make Clipsal Austrila, Philips or eqv.	600.00		Each		
vi	Appendix ' c' Page No-6	Providing and Fixing of Universal Switched Socket 13 Amp with back box (3"x3"). Make Clipsal Austrila, Philips or eqv.	504.00		Each		
vii	Appendix ' c' Page No-7	Providing and Fixing of Universal Switched Socket 20 Amp with back box (3"x3"). Make Clipsal Austrila, Philips or eqv.	15.00		Each		
B.02		Fitting and Fixtures.					
		Incandescent Fittings					
		Supply, instalation, testing and commissioning of LED road light with imported chip , campitble imported driver with IP 66 rating , built in Aluminium Alloy + lens housing , input voltage AC 85-285V Frequency 50-60 Hz , beam angle 140° LED Life span 60000 Hours, colour Warm white 3000K ,as per specifications and to the approval of the Consultant/ The Engineer, Make Philips, SunLight, Lumilux eqv.					
i)	Appendix ' c' Page No-8	Supply & installation of LED 17W Down Light (6" Surface Mounted, 220V~) i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips Meson or Equivalent)	1,696.00		Nos.		
ii)	Appendix ' c' Page No-51	Supply & installation of LED 2'x 2' Ceiling Panel Light 36W (220V~, CW or WW) i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips 36S/865 PSU W60L60 GM G2 or Equivalent)	874.00		No		
iii)	Appendix ' c' Page No-53	Supply, Installation and connection of LED Search light (100W, 240~, Day light) i/c PVC wire connector 16A and any accessories (i.e. screw. Rawl plug or steel nail, etc.) at site. Complete in all as approved by the Engineer incharge. (Osaka-E018E or equivalent).	8.00		No		
iv)	Appendix ' c' Page No-54	Supply and installation of outdoor LED Bollard Light 12 Watt, complete with all necessary materials / accessories, complete in all respects	36.00		No		
v)	Appendix ' c' Page No-55	Supply and installation of outdoor LED Garden Light Warm 05 Watt, complete with all necessary materials / accessories, complete in all respects	57.00		Nos.		
B.03		Exhaust Fans					
		Supply, installation and commissioning of Exhaust Fans of following sizes Matic body, louvers, all necessary fixing accessories, make Lahore Fan, PAK Fan , GFC Fan complete in all respects.					
a)	Appendix ' c' Page No-12	12" dia (Plastic Body).	100.00		No		
B.04		Ceiling Fan					
i)	Appendix ' c' Page No-52	Supply & installation of PVC Fan Box with iron bar i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge. (GM, Bita or equivalent)	197.00		Nos.		
ii)	Appendix ' c' Page No-13	Supply & installation of Ceiling Fans, 56" sweep (As per "Pakistan Energy Lable" certified manufacturers) i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge	197.00		Nos.		
		TOTAL AMOUNT - Part - B (PKR) (CARRIED FORWARD TO SUMMARY)					
iii)	Appendix ' c' Page No-9	Supply & installation of 2' x 2' False Ceiling Fan 14" swipe (99.99% Copper), remote controlled i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Royal, Super-asia or Equivalent)	400.00		Nos.		
B.05		Wall Bracket Fan					

Appendix ' c' Page No-56	Supply & installation of Wall Bracket Fan 18" (99.99% Copper) i/c any accessories (i.e. mounting screws & etc) as required at site. Complete in all respect as directed and approved by the Engineer Incharge (Younis, Tamoor, Pakfan or Equivalent)	8.00	Nos.			
B.06	L.T. Switchgear Main Panel Board-WAPDA Fabrication, supply at site, installation at designated location, testing and commissioning of Main Panel Board (MPB) comprising of cubicles, frame made of sheet steel 12 SWG and doors of 14 SWG, with flexible earthing straps, degreased and de-rusted, finished with electro-static powder coating of 50 micron thickness in approved color, panel housing to comply with protection class IP-54, indoor floor mounting, in free standing design, with hinged door, lockable handle, all auxiliaries, internal wiring, designation labels on MCCBs, earthing bar, numbering beads on the control wires, panel suitable for system Voltage 415 V, 50 Hz, 3 Phase and neutral, bus bars of 99.8% purity electrolytic copper, including cost of cable termination lugs, brass cable glands for incoming & outgoing cables, wiring from breakers, indication lamps, instruments and control all accessories complete in all respects. All incoming and outgoing breakers shall be accessible by opening the front door having additional M.S. sheet cover. Gaskets shall also be provided where necessary. All MCCBs shall be suitable to operate without any de-rating at 50°C ambient temperature and shall be of one make only and not a mixture of more than one make. The front and back sides of MPB shall also have louvers at bottom and sides of panel for hot air exhaust. The panel shall have a front access. Circuits layout shall conform to the single line diagrams. Main Panel Board shall be manufactured by PEL, Technobuild, Ibbad Switchgear or Eqv. <u>Incoming From WAPDA</u> 1- 2500 Amps 3 pole Motorized Air Circuit Breaker (ACB) with adjustable overload and short circuit protection RC: 47 KA with Electronic Protection Unit, Aux Contact = 4No + 4NC. Copper Bus Bars of electrolytic copper 99.9% size not less than 2x120x10mm for each phase and neutral (3P+N) on incoming side of breaker of facilitate connection cables. Main copper bus bars of electrolytic copper 99.9% size not less than 2x120mm x 10mm for each phase and neutral (3P+N) + 120mm x 10mm for earth. 3-Air cooled ring type current transformer ratio 2500/5 Amps having suitable output and accuracy. 3-Digital Ammeter scaled 0-2500 Amps of appropriate size. 3-Digital Voltmeter scaled 0-500 Volts. 3-Phase indication lamps of colour Red, Yellow, Blue. 2-Breaker ON-OFF indication lamp. 1- Surge Protective Device (SPD) arrester 45 KA class:1 make Phoenix / ABB/ Iskra or approved equivalent. 1- Energy analyzer make Smart controller type X - 485. <u>Brass Cable Glands</u> As per SLD <u>Earthing Bar and Earth Terminal</u> Earthing bar with necessary punched holes, nuts, bolts and washers, etc. Earthing terminals, all earth leads to have green base with yellow strip. <u>Exhaust Fan</u> Each cubicle to have 2 thermostatically controlled 230 Volts robust exhaust fans 6"/8" dia. to be installed on back side or on top of MPB for hot air exhaust, including cost of thermostat ON/OFF switches wire mesh, cleanable filter and all necessary accessories / wiring, complete in all respects. <u>Tube Light</u> Each cubicle to have a tube light of 2 ft. rod to be installed inside the cubicle alongwith micro switch on each door. <u>Outgoing</u> 1- 2000 Amps 3 pole Motorized Air Circuit Breaker (ACB) with adjustable overload and short circuit protection RC: 47 KA with Electronic Protection Unit, Aux Contact = 4No + 4NC. 1- 1000 Amps 3 pole Adjustable Moulded Case Circuit Breaker (MCCB) RC=> 25 KA 1- 100 Amps 3 pole Moulded Case Circuit Breaker (MCCB) RC=> 16 KA					

	Appendix ' c' Page No-14	Spaces for installation of MCCBs of rating 60/125 ATP in future but <u>EXCLUDING</u> the cost of MCCBs.	1.00	Each		
B.07		<p>Main Panel Board- Emergency (MPB-E) Conforming to same constructional specifications as per item No. 1.02 mentioned above but equipped with the following:</p> <p><u>Incoming</u></p> <p>2- 1000 Amps 3 pole Adjustable Moulded Case Circuit Breaker (MCCB) RC=> 25 KA. Both are Electrical & Mechanical Interlocking System</p> <p>Copper Bus Bars of electrolytic copper 99.9% size not less than 80x10mm for each phase and neutral (3P+N) on incoming side of breaker of facilitate connection cables.</p> <p>Main copper bus bars of electrolytic copper 99.9% size not less than 80mm x 10mm for each phase and neutral (3P+N) + 40mm x 10mm for earth.</p> <p>3-Air cooled ring type current transformer ratio 1000/5 Amps having suitable output and accuracy.</p> <p>3-Digital Ammeter scaled 0-1000 Amps of appropriate size.</p> <p>3-Digital Voltmeter scaled 0-500 Volts.</p> <p>3-Phase indication lamps of colour Red, Yellow, Blue.</p> <p>2-Breaker ON-OFF indication lamp.</p> <p>2- Energy analyzer make Smart controller type X - 485.</p> <p><u>Brass Cable Glands</u></p> <p>As per SLD</p> <p><u>Earthing Bar and Earth Terminal</u></p> <p>Earthing bar with necessary punched holes, nuts, bolts and washers, etc.</p> <p>Earthing terminals, all earth leads to have green base with yellow strip.</p> <p><u>Exhaust Fan</u></p> <p>Each cubicle to have 2 thermostatically controlled 230 Volts robust exhaust fans 6"/8" dia. to be installed on back side or on top of MPB for hot air exhaust, including cost of thermostat ON/OFF switches wire mesh, cleanable filter and all necessary accessories / wiring, complete in all respects.</p> <p><u>Tube Light</u></p> <p>Each cubicle to have a tube light of 2 ft. rod to be installed inside the cubicle alongwith micro switch on each door.</p> <p><u>Outgoing</u></p> <p>26- 50 / 60 / 75 / 100 Amps 3 pole Moulded Case Circuit Breaker (MCCB) RC=> 16 KA</p>	1.00	Each		
B.08	Appendix ' c' Page No-57	Spaces for installation of MCCBs of rating 60/125 ATP in future but <u>EXCLUDING</u> the cost of MCCBs.	1.00	Each		
		<p>Distribution Board <u>(DBL1-GF,DBL2-GF,DBL4-GF,DBL5-GF,DBL1-1F,DBL2-1F,DBL4-1F,DBL5-1F)</u> Fabrication, supply at site, installation, testing, commissioning and connections of wires / cables of Distribution Boards "Light / Power" concealed / open 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 50 micron thickness in approved colour, DB housing to comply with protection class IP-44 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. DBs shall be manufactured by PEL, Technobuild, Ibbad Switchgear or Eqv.</p> <p><u>Incoming</u></p> <p>1- 50 Amps 3 pole Moulded Case Circuit Breaker (MCCB) RC: 16 KA.</p> <p><u>Outgoing</u></p> <p>18- 10 Amps Single Pole MCB RC: 6 KA</p> <p><u>Incoming From UPS</u></p> <p>1- 30 Amps 3 pole Moulded Case Circuit Breaker (MCCB) RC: 16 KA.</p> <p><u>Outgoing</u></p>				

	Appendix ' c' Page No-15	11- 10 Amps Single Pole MCB RC: 6 KA 1- Internal power wiring, and control wiring, thimbles, tie, and cable tray. Backled & safety sheet for live equipment. Provision of spaces for future MCB's of rating 10 Amps but EXCLUDING the cost of breakers.	8		No.		
B.09	Appendix ' c' Page No-16	<u>(DBL3-GF,DBL3-1F)</u> Conforming to same constructional specifications as per item No. B.14 mentioned above but equipped with the following: <u>Incoming</u> 1- 50 Amps 3 pole Moulded Case Circuit Breaker (MCCB) RC: 16 KA. <u>Outgoing</u> 21- 10 Amps Single Pole MCB RC: 6 KA <u>Incoming From UPS</u> 1- 30 Amps 3 pole Moulded Case Circuit Breaker (MCCB) RC: 16 KA. <u>Outgoing</u> 11- 10 Amps Single Pole MCB RC: 6 KA 1- Internal power wiring, and control wiring, thimbles, tie, and cable tray. Backled & safety sheet for live equipment. Provision of spaces for future MCB's of rating 10 Amps but EXCLUDING the cost of breakers.	2		No.		
B.10	Appendix ' c' Page No-59	<u>(DBP1-GF,DBP2-GF,DBP4-GF,DBP5-GF,DBP1-1F,DBP2-1F,DBP4-1F,DBP5-1F)</u> Conforming to same constructional specifications as per item No. B.14 mentioned above but equipped with the following: <u>Incoming</u> 1- 75 Amps 3 pole Moulded Case Circuit Breaker (MCCB) RC: 16 KA. <u>Outgoing</u> 33- 16/20 Amps Single Pole MCB RC: 6 KA 1- Internal power wiring, and control wiring, thimbles, tie, and cable tray. Backled & safety sheet for live equipment. Provision of spaces for future MCB's of rating 10 Amps but EXCLUDING the cost of breakers.	8		No.		
B.11	Appendix ' c' Page No-60	<u>(DBP3-GF,DBP3-1F)</u> Conforming to same constructional specifications as per item No. B.14 mentioned above but equipped with the following: <u>Incoming</u> 1- 60 Amps 3 pole Moulded Case Circuit Breaker (MCCB) RC: 16 KA. <u>Outgoing</u> 21- 16/20 Amps Single Pole MCB RC: 6 KA 1- Internal power wiring, and control wiring, thimbles, tie, and cable tray. Backled & safety sheet for live equipment. Provision of spaces for future MCB's of rating 10 Amps but EXCLUDING the cost of breakers.	2		No.		
B.12		L.T. Power Cables					
		Supply at site, installation, testing and commissioning of PVC insulated armoured copper conductor cable 600 / 1000 Volt grade in prelaidd 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 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.make Pakistan Cable, Newage Cable, Fast Cable or eqv.					
a)		PVC insulated, PVC sheathed 4 core 660/1100 volt grade cable, non armoured with G.I. wire 16 SWG.					
i)	Appendix ' c' Page No-61	1 core 400mm sq. cable from MPB to HVAC	750.00		Rft		
B.13		BUS-TIE-DUCT (BTD) (Form Transformer to Main Panel Boards.					
	Appendix ' c' Page No-62	Supply and installation of Compacted Bus Tie Duct consists of 2500 A TP&N Copper Bus Tie Duct complete with 14SWG duly MS sheet powder painted casing and necessary insulated mounting etc as per site requirement with fixing / hanging arrangements, Exhaust Fans complete in all respect as per satisfaction of Electrical Engineer.	60		Rft		
B.14		Powder Coated Ceiling Suspended / Horizontal Cable Tray in Corridor					

		Fabrication, supply at site and installation of perforated cable tray made of M.S. sheet 14 SWG 8 ft. to 10 ft. long with sides 3" high with cover of cable tray made of 18 SWG M.S sheet to be installed on wall, or in vertical, or above false ceiling in horizontal position or as shown on drawing, including cost of the following:- 2 M.S threaded hanging rod 1/2" dia. Length 12" or as required as per site. M.S strip 2" wide x 1/4" thick. Hilti rawal bolts as per required quantity & size. 2 coats of antirust paint. 2 coats of powder coating of approved colour. Complete hanging system shall be installed at every 36". The above mentioned cable tray shall be complete in all respects including cost of all accessories / materials. Cable tray shall be of the following sizes.				
	Appendix ' c' Page No-63	a) 6" wide x 3" high with cover.	400.00	Rft		
	Appendix ' c' Page No-64	b) 9" wide x 3" high with cover.	765.00	Rft		
	Appendix ' c' Page No-65	c) 12" wide x 3" high with cover.	90.00	Rft		
B.15		<u>Wall Mounted Fire Extinguisher</u>				
		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 or as mentioned below:				
	Appendix ' c' Page No-66	Electrical Room	2	Nos.		
B.16		<u>FIRE ALARM SYSTEM</u>				
i		<u>FIRE ALARM CABLE</u>				
a	Appendix ' c' Page No-17	Supply, Installation and commissioning of wiring for FACP Power from respective DB to Fire Alarm FACP with 3C, 2.5 Sq.mm with drain wire, Fire Resistant Shielded Cable (Fire Rating for 2 hours) in prelaid conduit from preliad Conduit. Make Delpro (UK), Belden as approved by consultants, Complete in all respect	150.00	Rft		
b	Appendix ' c' Page No-18	Supply, Installation and commissioining of wiring for FACP to Fire Alarm System as per drawing wired with 2C, 1.5 Sq.mm with drain wire, Fire Resistant Shielded Cable (Fire Rating for 1 hours) in prelaid conduit from fire Alarm Control Panel to all Smoke Detector/ Heat Detector / Sounder & Maunal Devices, Devices upto 180 units in one Loop, including all installation accessories.Make Delpro (UK) / Belden/ Covican (Italy) or approved equilvent approved by consultants, Complete in all respect	9,680.00	Rft		
ii		<u>MANUAL CALL POINTS</u>				
	Appendix ' c' Page No-19	Supply, installation and connecting of non-addressable manual call stations press glass type with test dey, suitable for surface or flush mounting Model DL-MCP-1010 make Delpro (UK), or Honeywell (Esser) including cost of all other accessories as required. All equipped as per specifications, complete in all respects.	20.00	Nos.		
iii		<u>ALARM SOUNDER /BUZZER</u>				
	Appendix ' c' Page No-20	Supply, installation and connections of Non- Addressable Type Indoor Loop Powered electronic Sounder/ Buzzer Model DL-BZ-1121 and minimum sound output 100dB at 1 meter with frequencies for variety of sounds as required. make Delpro (UK) or Honeywell (Esser) including cost of all other accessories as required. All equipped as per specifications, complete in all respects.	20.00	Nos.		
iv		<u>OPTICAL SMOKE DETECTOR</u>				
	Appendix ' c' Page No-21	Supply, installation and connections of Supply, installation and connections of Non- Addressable Optical Smoke Detectors Model DL-SM-1221 incorporating an LED indication located in labyrinth with in the housing of the detector. Sensing unit. make Delpro (UK), or Honeywell (Esser) including cost of all other accessories as required. All equipped as per specifications, complete in all respects.	214.00	Nos.		
v		<u>HEAT DETECTOR</u>				
	Appendix ' c' Page No-22	Supply, installation and connections of Non-Addressable Heat Detectors Model DL-HD-1225 incorporating an LED indication located in labyrinth with in the housing of the detector. Sensing unit. make Delpro (UK), or Honeywell (Esser) including cost of all other accessories as required. All equipped as per specifications, complete in all respects.	8.00	Nos.		
vi		<u>FIRE ALARM CONTROL PANEL</u>				
	Appendix ' c' Page No-23	Supply, installation and connecting of non-addressable fire alarm of following mentioned channel / zone. Separate bell alarming in each zone indication of point 48 to 72 hours power backup. Short/open circuit indications LED display / power fault, zone isolated test make Model DL-FAP-2414 or Honeywell (Esser) including cost of all other accessories as required. All equipped as per specifications, complete in all respects. as per NFPA-72/EN-54 12 Zone	1.00	Nos.		
vii		<u>FIRE ALARM JUNCTION BOX</u>				
	Appendix ' c' Page No-24	Supply, installation, testing and factory fabricated of PVC / MS junction box 16 SWG duly painted with antirust paint and further two coats of enamelled paint of approved colour including cost of earth terminal making holes of all sides to pull Fire Alarm cables complete. 4"x7". manufactured by PEL, Technobuild, Ibbad Switchgear or Eqv.	1.00	No.		
B.17		<u>CCTV System IP Base</u>				
i		<u>Data Wiring of Camera</u>				

	Appendix ' c' Page No-25	Supply, Installation and commissioning of wiring as per drawing wired with CAT- 6 23 AWG, UTP Cable UL Listed, run in pre laid conduit from CCTV point to Data Switcher, including all installation accessories. Make Delpro (UK), Belden, Schneider, Actual quantities shall be measured as per site & paid accordingly. Complete in all respects	7,872.00	Rft		
ii		<u>Power Wiring of Network Switch</u>				
	Appendix ' c' Page No-17	Supply, Installation and commissioning of wiring for Power with flexible 3C, 2.5 Sq.mm, Fire Resistant Shielded Cable (Fire Rating for 2 hours) in prelaid conduit from prelaid Conduit. Make Delpro (UK) / Belden/ Covican (Italy), or as specified in appendix-A as approved equivalent by engineer's Incharge or consultants, Actual quantities shall be measured as per site & paid accordingly. Complete in all respects	150.00	Rft		
iii		<u>Network Switch</u>				
	Appendix ' c' Page No-26	Supply, Installation and commissioning of 24 port POE Network Switch Make CISCO, 3M, Schnieder as approved equivalent by engineer's Incharge or consultants, Actual quantities shall be measured as per site & paid accordingly. Complete in all respects	2.00	Nos.		
iv		<u>CAT-6 UTP 1 METER PATCH CORD</u>				
	Appendix ' c' Page No-27	Supply, installation and connections of CAT-6 UTP 1 meter Patch cord Factory Fabricated and UL Listed with anti Snag Boots- Gold over nickel plated. Make Delpro (UK) Schneider as approved Eqavlent by engineer's Incharge or consultants, Actual quantities shall be measured as per site & paid accordingly. Complete in all respects	20.00	No		
v		<u>CAT-6 UTP 3 METER PATCH CORD</u>				
	Appendix ' c' Page No-28	Supply, installation and connections of CAT-6 UTP 3 meter Patch cord Factory Fabricated and UL Listed with anti Snag Boots- Gold over nickel plated. Make Delpro (UK), Schneider as approved Eqavlent by engineer's Incharge or consultants, Actual quantities shall be measured as per site & paid accordingly. Complete in all respects	4.00	No		
vi		<u>CAT-6 UTP 16 PORT SLIDING PATCH PANEL</u>				
	Appendix ' c' Page No-29	Supply, installation & connections of CAT-6 UTP 16 Port sliding Patch Panel loaded with one piece tool less I/O's VDIG112241U-/VDIB17726-U12 having u shaped smart bridle- Must be UL Listed. The patch panel must have two side buttons for locking mechanism .Make Delpro (UK), Schneider or as approved equivalent by engineer's Incharge or consultants, Actual quantities shall be measured as per site & paid accordingly. Complete in all respects	2.00	Rft		
vii		<u>CABLE ORGANIZER MADE WITH METAL</u>				
	Appendix ' c' Page No-30	Supply and installation of Cable Organizer made with metal, high graded epoxy powder coating and slideable top- Should be UL Listed. for Rack-mount Front Cable Organizer ACTRJ1-UC MPM Schneider as approved equivalent by engineer's Incharge or consultants, Actual quantities shall be measured as per site & paid accordingly. Complete in all respects	2.00	Rft		
viii		<u>Dome / Bullet - IP - Camera</u>				
	Appendix ' c' Page No-31	Supply and installation of IP Dome / Bullet Day and Night Vision CCTV, 4MP Model D2404, H.264/H.265 Compatible with 2592x1520 Effective Pixels and Varifocal Lens (2.8~12mm), With upto 40- 50 Meter IR Distance, 40 PCS LED, IP65/66 Weatherproof and Vandalproof, with Humen detection, complete in all respects make make Delpro (UK).	20.00	Nos.		
ix		<u>Network Video Recorder</u>				
	Appendix ' c' Page No-32	Supply, installation and connections of 24 channel NVR Model NC2485 with 4K Display output that support digital video stream with HDMI cable as required at site. Make Delpro (UK), approved equivalent by consultant or Engineer Incharge, including Brand New 4TB Hard drive Sata .Actual quantities shall be measured as per site & paid accordingly. Complete in all respects.	1.00	Nos.		
x		<u>MONITOR</u>				
	Appendix ' c' Page No-33	Supply, installation and connections of 55" SMART BACKLIT LED 1080p monitor with operation capacity of 24/7 wit 3 year warranty. make by Samsung, TCL, LG or as specified in appendix-A approved equivalent by consultant or Engineer Incharge, Complete in all respects Actual quantities shall be measured as per site & paid accordingly. Complete in all respects.	1.00	Nos.		
xi		<u>Close Circuit Junction Box (CCJB)</u>				
		Supply and fabrication of close circuit junction boxes 16 SWG to be concealed in wall with 2 coats of antirust paint, earthing terminal, complete in all respects.				
	Appendix ' c' Page No-24	Junction boxes of appropriate size 4"x7".	1.00	Nos.		
B.18		DATA, WIFI SYSTEM				
i		<u>POWER CABLE</u>				
	Appendix ' c' Page No-17	Supply, Installation and commissioning of wiring for Power with flexible 3C, 2.5 Sq.mm, Fire Resistant Shielded Cable (Fire Rating for 2 hours) in prelaid conduit from prelaid Conduit. Make Delpro (UK), Belden, Covican (Italy), or as specified in appendix-A as approved equivalent by engineer's Incharge or consultants, Actual quantities shall be measured as per site & paid accordingly. Complete in all respects	600	Rft		
ii		<u>Computer Outlet</u>				
	Appendix ' c' Page No-34	Supply and installation of Single Shutter Face Plate with bracket and UTP Cat-6 Keystone Jack make : Delpro, clipsal, 3M,complete in all respect as approved by the site incharge. RJ-45 outlet, included cost of Wall boxes.	270	Each		
iii		<u>Computer Cables</u>				
	Appendix ' c' Page No-25	Supply, Installation and commissioning of wiring as per drawing wired with CAT- 6 23 AWG, UTP Cable UL Listed, run in pre laid conduit from CCTV point to Data Switcher, including all installation accessories. Make Delpro (UK), Belden /Schneider or as specified in appendix-A as approved equivalent by engineer's Incharge or consultants, Actual quantities shall be measured as per site & paid accordingly. Complete in all respects	24300	Rft		
vi		<u>Floor Level Data Cabinet Wall Mounted</u>				

	Appendix ' c' Page No-36	Supply and installation of 12U (600 x 450mm) wall mounted data cabinet with front glass door, two side opening, two way fans with 06 sockets power distribution unit, complete in all respect. Make Norden, Hp, Dell.	16		Each		
viii		<u>WIFI ACCESS POINT</u>					
	Appendix ' c' Page No-67	Supply, installation and connections of wireless wave two Wi-Fi access point or equivalent 2533Mbps dual-band, 802.11 abgn/ac with 20,40,80 MHz Channel width Support 4x4:4 streams, Beam Flex, Dual Polarized Integrated smart Directional antenna array. Auto-sensing 10/100/1000 Mbps, RJ-45 Power over Ethernet (PoE) Integrated 24 Antenna elements with more than 3000 Antenna Patterns, 15db interference mitigation, make Ruckus, Aruba, Linksys or as specified in appendix-A as approved by engineer's Incharge or consultants, Actual quantities shall be measured as per site & paid accordingly. Complete in all respects	17		Each		
ix		<u>Computer Junction Box(CJB)</u>					
		Supply, installation of computer junction box 16 SWG to be concealed in wall with 2 coats of antirust paint, earthing terminal, complete in all respects.					
	Appendix ' c' Page No-24	Computer Junction Box Size: 4"x7"x4" deep.	1		No.		
B.19		TELEPHONE SYSTEM					
i		<u>Telephone Outlet</u>					
a	Appendix ' c' Page No-38	Supply and installation of Single Shutter Face Plate including I/Os with bracket and UTP Cat-6 Keystone Jack make : Norden, clipsal, 3M,complete in all respect as approved by the site incharge. RJ-45 outlet, including Plastic Wall Box Clipsal	298		Each		
b	Appendix ' c' Page No-39	Supply and installation of Double Shutter Face Plate including I/Os with bracket and UTP Cat-6 Keystone Jack make : Norden, clipsal, 3M,complete in all respect as approved by the site incharge. RJ-45 outlet, including Plastic Wall Box Clipsal	12		Each		
ii		<u>CAT-6 CABLE FOR TELEPHONE SYSTEM</u>					
	Appendix ' c' Page No-25	Supply, Installation and commissioning of wiring as per drawing wired with CAT- 6 23 AWG, UTP Cable UL Listed, run in pre laid conduit from CCTV point to Data Switcher, including all installation accessories. Make Delpro (UK), Belden /Schneider or as specified in appendix-A as approved equivalent by engineer's Incharge or consultants, Actual quantities shall be measured as per site & paid accordingly. Complete in all respects	23250		Rft		
iii	Appendix ' c' Page No-40	Supply and installation of 50 Pair Cable UG/PVC (0.4 - 0.5 mm sq) Telephone Cable (From JB to MDF)	3400		Rft		
iv		<u>Telephone Junction Box 50 Pairs (TJB)</u>					
	Appendix ' c' Page No-42	Supply, installation and commissioning of telephone junction box 250/5 make Krone Germany Krone No. 6525/1/022/00 of approved colour, designation label as per drawing, including disconnecting modules of 30 Nos. Type 2/10 LSA Plus Profile Krone Germany No. 6089/1/102/02 for incoming and out going telephone cables, all necessary accessories complete in all respects Telephone Junction Box 50 Pairs (TJB)	10		No.		
B.20		Earthing System					
i		<u>Earthing System - Bore Type</u>					
		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.					
	Appendix ' c' Page No-44	Bores for earthing body	6.00		No		
ii		<u>G.I. Pipe</u>					
	Appendix ' c' Page No-45	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.	600.00		Rft		
iii		<u>Tinned Copper Spike</u>					
	Appendix ' c' Page No-46	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.	6.00		Nos		
iv		<u>Copper Conductor</u>					
	Appendix ' c' Page No-47	Supply at site, installation and connections of earthing leads consisting of stranded electrolytic copper conductor of purity 99.9%, 70mm sq. to be installed in prelaid 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.	1,080.00		Rft		
v		<u>Earth Connecting Points (ECP)</u>					
	Appendix ' c' Page No-48	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).	6.00		Nos		
vi		<u>Man Hole for Earthing</u>					
	Appendix ' c' Page No-49	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.	6.00		Nos		
B.21		<u>HT Consumer / Protection Panel</u>					

	Appendix ' c' Page No-68	Supply , installation , testing and commissioning of HT consumer / protection panel factory fabricated and tested, manufacture by (SIMENS / Tariq Electric / PEL / FICO make only), consist of 12 SWG mild steel sheet fabricated floor mounted free standing one cubical indoor type (I.P 54) total enclosed with hinged front doors, the panel designe suitable for 11KV three phase 50 Hrз AC system, high conductivity, hard drawn electrolytic copper bus bars of adequate curren carrng capacity and short circuit raiting copper interconnections, internal wiring and cables, termination arrangements, using HT Raychem Heat Shrinkable termination kit German for 3 core HT Armoured cable of appropriate size as per wapda spacification and fineshed with RAL- 7032 powder coating baked. Equiped with following compnents (All components used should be from WAPDA approved list). - HT. CONSUMER/PROTECTION PANEL	1.00	Each		
B.22		Power Transformer				
	Appendix ' c' Page No-69	Supply at site, installation, testing and commissioning of new step down power transformer indoor type manufactured according to BSS-171, IEC- 76 or VDE-0532, specifications and consisting of the under mentioned items.Filling device, drain plug, oil level indicator, lifting hooks, bi-directional roller wheels, H.V. & L.V. porcelain bushings, off load tap changer, 2 earthing terminals, conservator and silica gel breather, thermometer pocket with thermometer, imported double float buckholz relay, pressure relief vent, dial type thermometer with alarm & trip contacts, rated Voltage 11000 / 415 / 230 Volts, suitable for an ambient temperature of 50°C, winding temperature 55°C and oil temperature 45°C, impedance 6% or as specified by IEC, system earth: Delta-Y, neutral solidly earthed (DYN-II), transformer oil, I.P - 54. The transformer shall be suitable for loading of 100% continuous maximum rating with “ONAN” cooling without exceeding the thermal limit. all necessary accessories / materials, including submission of technical data sheet, complete in all respects and as approved by the Engineer. - 2000 KVA	1.00	Each		
B.23		HT Power Cables				
	Appendix ' c' Page No-70	Supply, installation and commissioning of XLPE insulated, copper tape screened PVC / SWA / PVC, 11 KV- Aluminum conductor cable manufactured by Pakistan cables , Newage Cables , Fast Cables or Eqv. Cables or approved equivalent, as specified in wapda standerds to be laid in prelaid trenched / in pre-laid conduits including cost of connections conforming to general specification, complete in all respect as per satisfaction of the Engineer Incharge. ii) 3 core 120 mm.sq. 15KV XLPE insulated un armoured cable from HT Protection panel to Transformers	150	Rft		
B.24		Heat Shrinkable Termination Kits				
	Appendix ' c' Page No-71	Supply at work, lying, testing, & commissioning of following HT out door & Indoor heat shrinkable termination kits of Raychem /3-M/Cellpack for 3 core cables already laid under work Sr. No. 0.04 in the trenches including cable glands etc and miscellaneous materials and installation as per requirements, standard specifications, & to the approval of the consultant / Engineer. Outdoor type (for 120mm Sq) Indoor type (for 120mm Sq)	1 3	Each Each		
		Total "B"(Schedule items) C/o to Summary of Cost:				
		Net Total (A+B)				

HVAC WOKS

Item No.	REF. Nos CH/ITEM	Description of Items	Qty	Unit	Rate (Rs.)	Amount (Rs.)
		NON SCHEDULE ITEM-B				
1		Supply & Installation of All DC Inverter Controlled Variable Refrigerant Flow (VRF) Heat Pump Type Multi Split A/c System complete with built-in Auto Control System & Central Controller System with display (Tablet) including unloading, Lifting, placing and Fixing at foundation at locations shown on drawing including testing & commissioning, make Zero, Rivast, Sj-Bush, Hechen, Delpro (UK)				
	a)	Outdoor Condensing Units				
		POU-1	9	No.		
		POU-2	4	No.		
		POU-3	2	No.		
		POU-4	1	No.		
		POU-5	2	No.		
		POU-6	1	No.		
		POU-7	2	No.		
		POU-8	1	No.		
		POU-9	2	No.		
	b)	Indoor Units				
		Wall Mounted Type Indoor Units				
		IDU-1	8	Nos.		
		IDU-2	125	Nos.		
		IDU-3	155	Nos.		
		IDU-4	67	Nos.		
2		Supply and Installation of Gas & Liquid Copper Piping & Fittings Complete with 19mm thick Elastomeric Closed Cell nitrile rubber foam insulation protected with PVC Tape, clamps/hangers/supports and all other related material for installation purpose complete in all respect as specified.				
		Ø 1/2"	4337	Rft		
		Ø 1/4"	2309	Rft		
		Ø 3/8"	5904	Rft		
		Ø 5/8"	5676	Rft		
		Ø 3/4"	2092	Rft		

		Ø 7/8"	378		Rft		
		Ø 1"	120		Rft		
		Ø 1-1/8"	2490		Rft		
		Ø 1-3/8"	1329		Rft		
		Ø 1-5/8"	529		Rft		
		Ø 2-1/8"	85		Rft		
	Note:	The Refrigerant pipe sizes as shown in drawing are indicative only. Pipe sizes may be vary brand to brand therefore the equipment supplier is responsible to verify the pipe sizing detail as given in drawings attached in accordance with their selected models of euipment being offered.					
3		Supply, Fabrication & installation of Refrigerant Distributer (Y-Type) Pipe Joints at locations recommended by manufacturer	1		Lot		
4		Supply & installation of 12" wide G.I Sheet Construction Pipe Tray with top covering required to install refrigerant pipes running at exposed roof	758		Rft		
5		Supply, fabrication and installation of PVC. piping & fittings, including hangers, anchor bolts, 6mm thick close cell foam insulation protected with PVC tape etc.					
		Dia 0.75 Inch	7055		Rft		
		Dia 1.0 Inch	2565		Rft		
		Dia 1.25 Inch	3233		Rft		
		Dia 1.5 Inch	536		Rft		
6		Supply & installation of HVAC related Electrical works as specified and as shown on the drawings complete with					
	a)	Electrical Panels					
		ACP-1	1		No		
		ACP-2	1		No		
	b)	Conduiting and wiring onward from ACP panels to HVAC equipment including control wiring	1		Lot		
	c)	Conduiting and wiring onward from outdoor condensing unit to indoor units including control wiring	1		Lot		
7		Painting of metal hangers and metal structures where installed as specified	1		Job		
8		Shop drawings and As-built drawings	1		Job		
9		Related Civil works including wall / slab cutting, patching, plastering etc. and construction of equipment foundations	1		Job		
10		Inspection, testing, Gas Charging and Commissioning of Complete system	1		Job		
		Total "B"(Schedule items) C/o to Summary of Cost:					

SUMMARY OF COST

CONSTRUCTION OF NEW FACULTY BUILDING (NO.2) AT BJ CAMPUS, IUB

NEW FACULTY BUILDING

ENGINEER'S COST ESTIMATE

S/N	DESCRIPTION	AMOUNT (Rs.)
A	SCHEDULED ITEMS	
1	• CIVIL WORK	
2	• INTERNAL PUBLIC HEALTH WORK	
3	• EXTERNAL PUBLIC HEALTH WORK	
4	• ELECTRICAL WORK	
	Sub Total (A) :	
	SCHEDULE ITEMS 430,837,460 /- X _____ % ABOVE / BELOW:	
	Net Total (A) :	
B	NON-SCHEDULED ITEMS	
1	• CIVIL WORK	
2	• INTERNAL PUBLIC HEALTH WORK	
3	• EXTERNAL PUBLIC HEALTH WORK	
4	• ELECTRICAL WORK	
5	• HVAC WORK	
	Sub Total (B) :	
	TOTAL (A+B) :	

CONSTRUCTION OF NEW FACULTY BUILDING (NO.2) AT BJ CAMPUS, IUB

NEW FACULTY BUILDING

ENGINEER'S COST ESTIMATE

CIVIL WORKS

Item No.	REF. Nos CH/ITEM	Description of Items	Qty	Unit	Rate (Rs.)	Amount (Rs.)
MRS, 1st BI-ANNUAL-2021 (1st JANUARY-2021 to 30th JUNE -2021) DISTRICT BAHAWALPUR						
		SCHEDULE ITEMS-A				
		Earth Work				
1	CH:3 item 47(a) P-33	Jungle clearance and removing within 100 ft. (30 m).a) light	74,000.00	1000 Sft		
2	CH:3 item 21(b) P-30	Excavation in foundation of building and other sructures, including debelling,dressing,refilling around structure with excavated eart,watering and ramming lead upto one chain 100ft and lift upto 5 ft.in ordinary soil.	317,563.31	1000 Cft		

3	CH:3 item 15 P-29	Filling, watering and ramming earth under floors:					
3.1	CH:3 item 15(i) P-29	i) with surplus earth from foundation, etc.	211,708.88		1000 Cft		
3.2	CH:3 item 2+17 (a,b &c) P-27 + 29	Earthwork excavation in ashes, sand and soft soil or silt clearance, undressed lead upto 2 km (2000 metre).	621,600.00		1000 Cft		
3.3	CH:3 item 25 (i) P-30	Compaction of earthwork with power road roller, including ploughing, mixing, moistening earth to optimum moisture) content in layers, etc. complete: i) 95% to 100% maximum modified AASHO dry density.	248,708.88		1000 Cft		
		Anti-Termite					
4	CH:25 item 42 P-164	Spraying anti-termite liquid mixed with water in the ratio of 1:40.	299,411.44		100 Sft		
		Plain and Reinforement Concrete					
5	CH:6 item 5 P-42	Cement concrete plain including placing, compacting , finishing and curing complete (including screening and washing of stone aggregate):-					
5.1	(i)	Ratio 1: 4: 8	25,680.65		100 Cft		
5.2	(f)	Ratio 1: 2: 4	24,089.69		100 Cft		
6	CH:6 item 6 P-42	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.):-					
6.1	(a)(ii)	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 i) above not requiring form work (i.e. horizontal shuttering) complete in all respects:-					
		Foundation					
6.1.1	(2)	Type B (nominal mix 1: 1½: 3)	90,758.11		Per Cft		
6.2	(a)(i)	Reinforced cement concrete slabs, beams, girders, Lintels and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:-					
		GROUND FLOOR					
6.2.1	(a)(i)(2)	Type B (nominal mix 1: 1½: 3)	118,788.72		Per Cft		
		FIRST FLOOR					
6.2.2	(a)(i)(2)+(d)	Type B (nominal mix 1: 1½: 3)	75,528.35		Per Cft		
		MUMTY					
6.2.3	(a)(i)(2)+(dx2	Type B (nominal mix 1: 1½: 3)	6,914.72		Per Cft		
		Carriage					
7	CH:1 item 1 P-3	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 366 kms From Sargodha (or approved quarry) to site of work)	75,996.03		100 Cft		
		Steel Reinforcement					
8	CH:6 item 9 (c) P-44	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) (c) Deformed bar (Grade 60)	1,225,380.44		100Kg		
9	CH:6 item 33 (b)(i) P-47	Providing and laying damp proof course of cement concrete 1:2: 4(using cement, sand and shingle), b) with 2 coats of bitumen :- i) 1½" thick (40 mm)	189.20		100 Sft		
10	CH:6 item 25 P-46	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:-					
10.1	a)	On interior surface (without mastic strip)	722.40		Per/Rft		
10.2	b)	On exterior surface (with mastic strip)	729.23		Per/Rft		
11	CH:6 item 32 (b) P-47	Providing and fixing thermopore (foamed polythene) sheet in horizontal and vertical expansion joints:					
11.1		b) 1½" (40 mm) thick thermopore sheet	9,941.40		Per/Sft		
12	CH:6 item 12 P-44	Providing and fixing ornamental cement jali 2" (50 mm) thick	3,402.00		Per Sft		
		Brick Work					
13	CH:7 item 4 (i) P-51	Pacca brick work in foundation and plinth in:-Cement, sand mortar:-Ratio 1:6	20,162.26		100 Cft		
14	CH:7 item 4 (i) P-51	Pacca brick work in foundation and plinth in:-Cement, sand mortar:-Ratio 1:4	2,175.76		100 Cft		
		GROUND FLOOR					
15	CH:7 item 5 (i) P-52	Pacca brick work in ground floor :- Cement, sand mortar:-Ratio 1:6	71,374.26		100 Cft		
16	CH:7 item 5 (i) P-52	Pacca brick work in ground floor :- Cement, sand mortar:-Ratio 1:4	2,049.86		100 Cft		
		FIRST FLOOR					
17	Ch-7 item 5 (i) & 6 (i) P-52	Pacca brick work in first floor:- Cement, sand mortar:-Ratio 1:6	78,428.87		100 Cft		
18	CH:7 item 5 (i) P-52	Pacca brick work in first floor :- Cement, sand mortar:-Ratio 1:4	2,049.86		100 Cft		
		MUMTY					
19	Ch-7 item 5 (i) & 6 (ii) P-52	Pacca brick work in second floor:- Cement, sand mortar:-Ratio 1:6	2,416.05		100 Cft		
20	Ch-7 item 9 P-53	Extra labour for arch work in brick masonry, including labour for centring and decentring.	140.96		100 Cft		
21	Ch-7 item 13 P-53	Extra for face work (half brick thick) using special bricks instead of first class bricks.	16,637.37		100 Cft		
		Flooring					

22	Ch-7 item 30 P-56	Supplying and filling sand under floor; or plugging in wells	25,727.39	100 Cft		
23	Ch-10 item 3 P-66	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	44,235.08	100 Cft		
24	Ch-10 item 23 P-68	Providing and laying floor of mosaic marble chips tiles 1"(25 mm) thick of approved quality and shade, laid in white cement and pigment, over ¾"(20 mm) thick bedding of cement sand mortar 1:2, including finishing and polishing, complete.	2,973.60	100 Sft		
25	Ch-10 item 35 (b) P-69	Tile skirting laid in 1:2 cement mortar, over ¾"(20 mm) thick cement mortar, 1:2 including cement washing and filling joints complete:- (b) mosaic tiles	226.80	100 Sft		
26	Ch-10 item 42 (a) P-70	Providing and fixing marble strip of any shade for dividing the mosaic flooring into panels a) Size 1½" x 3/8" (40 x 10 mm)	1,873.37	Per Rft		
27	Ch-10 item 43 (a) P-70	Providing and layingTuff pavers ,having 7000 PSI, crushing strength of approved manufacturer, over 2" to 3" sand cushion i/c grouting with sand in joints i/c finishing to require slope . complete in all respect.(50% Grey / 50% Coloured) a) 50-mm thick	7,875.00	P.Sft		
		Surface Rendring				
28	Ch-11 item 10 (b) P-72	Cement plaster ratio 1:3 under soffit of RCC roof slabs only , upto 20' height. 3/8" (10 mm) thick. (ceiling plaster)	79,178.73	100 Sft		
29	Ch-11 item 9 (b) P-72	Cement plaster 1:4 on internal walls upto 20' (6 m) height, 1/2" (13 mm) thick.	349,822.91	100 Sft		
30	Ch-11 item 9 (c) P-72	Cement plaster 1:4 on external walls upto 20' (6 m) height, 3/4" (20 mm) thick.	17,668.35	100 Sft		
31	Ch-11 item 9 (c) & 28 P-72-74	Cement plaster 1:4 on external walls upto 30' (9 m) height, 3/4" (20 mm) thick.	3,788.40	100 Sft		
32	Ch-11 item 9 (c) & (28x2) P-72-74	Cement plaster 1:4 on external walls upto 40' (12 m) height, 3/4" (20 mm) thick.	14,165.55	100 Sft		
		Wood Work				
33	Ch-12 item 18 (iii) P-78	Providing and fixing sliding bolt to doors:- iii) brass sliding bolt, 10" (250 mm) long	416.00	Each		
		Painting and Warnishing				
34	Ch-13 item 31 (a)+(bx2) P-89	Preparing surface and painting with emulsion paint:- 3 Coats New Surface	456,830.79	100 Sft		
35	Ch-13 item 32A (a)(i+ii) P-89	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:- 2 Coats New Surface	37,403.42	100 Sft		
36	Ch-13 item 7 P-87	French polishing complete:-	24,351.60	100 Sft		
		Roofing & Water Proofing				
37	Ch-9 item 45 (c) P-65	Providing and Laying Insulation material of Extruded Polystyrene XPS in Rigid Insulation / Foam Board on roof or walls, Density 32-38 Kg/M, compressive strength 250-400kpa,R-value 5 per inch thickness and water obsorption (1% by volume, cell structure clored cell) i/c cutting and placing in position. complete in all respect.c) 2" thick	82,692.88	100 Sft		
38	Ch-9 item 5 P-60 + Ch-26 item 37(iix2) P-163	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.i/c P/L double layer polythene sheet 500 gauge	82,692.88	100 Sft		
39	Ch-9 item 15 P-62	Khuras on roof 2'x2'x6" (600 x 600 x 150 mm).	52.00	Each		
40	Ch-9 item 16 P-62	Bottom Khuras of brick masonry in cement mortar 1:6, 4'x2'x4½" (1200x600x113 mm) over 3" (75 mm) cement concrete 1:4:8.	52.00	Each		
		Total "A"(Schedule items) C/o to Summary of Cost:				
		NON SCHEDULE ITEMS-B				
		Flooring				
		Excavation Upto any Depth				
1	N.S	Structural excavation in any kind of soil above / below water level for levelling and grading of building, for raft / foundations and other structures upto any depth, and disposal of unsuitable / surplus excavated material outside the project premises at any lead, including restoration of any damages during excavation is the responsibility of contractor complete in all respects as per Specifications and as per approval of The Engineer.	216,657.10	Per/Cft		
2	N.S	Providing and laying structural pad of granular fill material mixture of 50% sand and 50% crushed stones compacted to 95% maximum modified "AASHO" dry density i/c carriage of all materials at site complete in all respect as approved by The Engineer.	62,567.66	Per/Cft		
		Flooring				
3	N.S	Providing and laying Porcelain tiles flooring (full body) 16" x 16" Master, or approved equivalent laid over 3/4" thick cement sand mortar (1:3) including setting the tiles with Bond (Stile, or approved equivalent) i/c filling joints with Grout (Stile, or approved equivalent) of matching color i/c cutting, leveling, washing and curing complete in all respect as per Specifications, and as per sample approved by The Engineer. (Imperial (IMPG) Dark Color Polished SB)	99,042.64	Per/Sft		
4	N.S	Providing and laying Granite tiles flooring (full body) 24" x 24" Master, or approved equivalent laid over 3/4" thick cement sand mortar (1:3) including setting the tiles with Bond (Stile, or approved equivalent) i/c filling joints with Grout (Stile, or approved equivalent) of matching color i/c cutting, leveling, washing and curing complete in all respect as per Specifications, and as per sample approved by The Engineer. (Granite with dry/wet/venied application,DWV series Polished (Light color)class SB)	42,400.97	Per/Sft		

		Skirting / Dado					
5	N.S	Providing and laying Porcelain tiles flooring (full body) 16" x 4" Master, or approved equivalent laid over pre-plastered surface including setting the tiles with Bond (Stile, or approved equivalent) i/c filling joints with Grout (Stile, or approved equivalent) of matching color i/c cutting, leveling, washing and curing complete in all respect as per Specifications, and as per sample approved by The Engineer. (Imperial (IMPG) Dark Color Polished SB)	35,118.83		Per/Sft		
6	N.S	Providing and laying Granite tiles flooring (full body) 24" x 4" Master, or approved equivalent laid over pre-plastered surface including setting the tiles with Bond (Stile, or approved equivalent) i/c filling joints with Grout (Stile, or approved equivalent) of matching color i/c cutting, leveling, washing and curing complete in all respect as per Specifications, and as per sample approved by The Engineer. (Granite with dry/wet/venied application,DWV series Polished (Light color)class SB)	2,767.83		Per/Sft		
		Windows Sill					
7	N.S	Providing and fixing 3/4" thick Pre-polished Granite Marble Slab uniform texture full width and length laid over 3/4" thick cement sand mortar (1:3) including setting the tiles with Bond (Stile, or approved equivalent) i/c filling joints with Grout (Stile, or approved equivalent) of matching color i/c cutting, leveling, washing, curing and beveling charges on exposed edges complete in all respect as per Specifications, and as per sample approved by The Engineer.	2,349.90		Per/Sft		
		Entrance Steps / Podium					
8	N.S	Providing and fixing 3/4" thick pre-polished Granite Marble Slab uniform texture full width laid over 3/4" thick cement sand mortar (1:3) including setting the tiles with Bond (Stile, or approved equivalent) i/c filling joints with Grout (Stile, or approved equivalent) of matching color i/c cutting, leveling, washing, curing and beveling charges on exposed edges complete in all respect as per Specifications, and as per sample approved by The Engineer.	1,228.50		Per/Sft		
		Stair Steps					
9	N.S	Providing and laying Pre-polished Black Granite (supreme quality) slabs laid over 3/4" thick cement sand mortar (1:3) including setting the tiles with Bond (Stile, or approved equivalent) i/c filling joints and washing the tiles with Grout (Stile, or approved equivalent) of matching color i/c cutting, leveling, washing, curing and beveling charges on exposed edges, i/c anit-slip treads with carborundum powder and silicon mixture in thee rows complete in all respect as per Specifications, and as per sample approved by The Engineer.					
9.1	a)	3/4" thick Pre-polished Black Granite (supreme quality) one-piece slab of length and width as shown on drawings, rounded smooth of stairs and entrance steps.	2,629.46		Per/Sft		
9.2	b)	3/4" thick Pre-polished Black Granite (supreme quality) slabs of length and height as shown on drawings, over risers of stairs and entrance steps.	1,018.24		Per/Sft		
		Laminated Wooden Flooring					
10	N.S	Providing and laying, jointing etc. Laminated Wooden Floor (200mmX1200mmx8mm) (Malaysian, turkey or approved equivalent) of approved color and shade at floor i/c the cost of jumbo lawn, Nail, edging & Fixing etc. as approved by The Engineer, complete in all respects.	3,939.60		Per/Sft		
11	N.S	Providing and laying, jointing etc. Laminated Wooden Floor (200mmX1200mmx8mm) (Malaysian, turkey or approved equivalent) of approved color and shade at floor i/c the cost of jumbo lawn, Nail, edging & Fixing etc. as approved by The Engineer, complete in all respects.Dado/ Skirting	846.30		Per/Rft		
		Vanity / Kitchen Counter Top					
12	N.S	Providing and fixing 3/4" thick pre-polished Black Granite one-piece marble slabs Kitchen / Vanity Counter etc; laid over 3/4" thick cement sand mortar (1:3) including setting the tiles with Bond (Stile, or approved equivalent) i/c filling joints and washing the tiles with Grout (Stile, or approved equivalent) of matching color i/c cutting, leveling, washing, curing and beveling charges on exposed edges complete in all respect as per Specifications, and as per sample approved by The Engineer.	697.20		Per/Sft		
		Miscellenious					
13	N.S	Providing and fixing 1-1/2" Oak Wood Door shutter (Red Oak-859 imported) With Oak wood architraves on both sides, including polishing with lacquer polish (including preparation of surface, applying priming coat, rubbing etc.); or approved equal; all rough and finished hardware complete in all respects as per drawings and Specifications, including handles, tower bolt 18" (A/B Heavy) etc., as per sample approved by The Engineer.	12,175.80		Per/Sft		
14	N.S	Providing and fixing uPVC Door, including PVC door frame, with hinges, latch lock, tower bolt, handle & hardware manufactured by ("FRAMEZ, ZEALCON" or approved equivalent) complete in all respects, and as per sample approved by The Engineer.	1,176.00		Per/Sft		
15	N.S	Providing and fixing imported Handle Locks with 3 keys, to wooden doors (Hungry" or approved equivalent) complete in all respects, and as per sample approved by The Engineer.	416.00		Per/Sft		
16	N.S	Providing and fixing M.S. Sheet hollow pressed 'frame of doors, '(Chowkhat only) of 16 SWG welded / supported with M.S. flat 1-1/4"x1/8" (7-Nos.) i/c screwed 4" (100mm) long iron hinges including fitting chowkhat with cement sand mortar 1:8 and embedding hold fast in cement concrete 1:2:4 complete in all respects, as approved and directed by The Engineer.	2,785.65		Per/Sft		
17	N.S	Providing and fixing M.S grill consisting of 1" x 1", 16-SWG M.S square pipe frame with 2 rows of horizontally & equal dividing panels vertically in the same frame and 1/2" M.S square bars 5" c/c welded to each an other & frame horizontally with 2 rows of equal dividing in three panels vertically as per approved drawing and design in windows i/c hold fast, grouting hold fast in cement concrete (1:2:4) and enamel painting 3-coats with one base coat of red oxide paint complete in all respect as approved and directed by The Engineer.	11,491.20		Per/Sft		

18	N.S	Providing and fixing all types of double glazed aluminium windows / ventilator of approved colour partly fixed and partly sliding using deluxe section of approved manufacturer having Frame of size 100mm x 30mm using frame at bottom, at top and side leaf leaf frame sections of 60mm x 23mm at top & bottom and size 45mm x 25mm at center and size 45mm x 25mm at sides, Jali leaf frame size 43mm x 13mm i/c fine quality aluminum jali, (5 mm + 8 mm AGU+ 5 mm) imported tinted glass with rubber gasket using approved standard latches, wheel, stopper, brush channel angle joint and hardware etc. complete in all respect. 2 mm thick	11,491.20		Per/Sft		
19	N.S	Providing and fixing stainless steel non-magnetic railing consisting of main pipe 2" dia 16 SWG imported (China) & 3' height balustrades @ 2' C/C consisting of 1-1/2" to 2" wide and 3/16" thick 2-No stainless steel strips with studs i/c 3/4" dia 16 SWG 3-No stainless steel pipes longitudinally passing in between the strips of balustrades i/c bends, base plate etc with Bottom stainless steel "tiki" & cover, fixing with rowal bolt (3" to 2½" long) i/c steel polishing etc complete in all respect as approved by the Engineer Incharge (All members will be of non magnetic).	640.50		Per/Rft		
20	N.S	Providing and fixing Kitchen Cabinets comprising of 3/4" thick MDF Laminated (both sides laminated) for front shutter of approved colour and texture with kail wood frame (3"x1") and best quality hardware's (handles, locks, latches, Hinges & screws etc.) with deodar wood lipping(1/2"x3/4") and polishing / enamel painting, termite proofing including all type of labour, as shown on drawings complete in all respects as per sample approved by The Engineer. (Floor Mounted Cabinet)	184.80		Per/Sft		
21	N.S	Providing and fixing Kitchen Cabinets comprising of 3/4" thick MDF Laminated (both sides laminated) for front shutter of approved colour and texture including ¾" (20 mm) thick Vin Board Sheet boxing and hard board for back with kail wood frame (3"x1") and best quality hardware's (handles, locks, latches, Hinges & screws etc.) with deodar wood lipping(1/2"x3/4") and polishing / enamel painting, termite proofing including all type of labour, as shown on drawings complete in all respects as per sample approved by The Engineer. (Wall Mounted Cabinet)	134.40		Per/Sft		
22	N.S	Providing and Fixing Gypsum board 24"x24" false ceiling make DFB or Approved Equivalent with 10mm thinness with aluminum foil on the back of tile fixed on imported CKM Tees and Fittings and supported with local angle with G.I 16 Guage at appropriate distance i/c cost of hooks, clamps, carriage and labour charges at any height etc complete in all repect and as per satesfaction of The Engineer.	54,356.40		Per/Sft		
23	N.S	Providing and Fixing Decorative Gypsum Board False-Ceiling (4'x8'x3/8") of approved design by The Engineer, including approved support and hanging system and all accessories by (Thermec or approved equivalent) and as per Specifications, as shown on drawing complete in all respect as per Manufacturer's instructions, including all strengthening and edge trimming for supports for light fittings, diffusers etc., and for making openings, complete including cleaning and finishing, as per sample approved by The Engineer.	6,075.30		Per/Sft		
24	N.S	Providing and fixing Stone Texture Tile on facing of approved size color and shade laid over pre-plastered surface including setting the tiles with Bond (Stile, or approved equivalent) i/c filling joints with Grout (Stile, or approved equivalent) of matching color i/c cutting, leveling, washing, curing and cost of scaffolding fixing at any height in any floor, complete in all respect as per Specifications, as approved by The Engineer.	982.80		Per/Sft		
25	N.S	Providing and Fixing Chicken Wire Mesh (12" Wide) for horizontal and vertical joints of masonry and concrete with nails and screws i/c all cost of labour and material complete in all respects, as approved by The Engineer.	35,837.55		Per/Rft		
26	N.S	Providing and laying wall ties (anchor bars) 2/8"dia placed at horizontal and vertical spacing in cavity wall of any description in any floor at any height, and make joint b/w concrete and brick work i/c drilling hole in R.C.C columns tying with brick masonry wall , 3-#2 @ every 4th horizontal and vertical course complete in all respects as shown in drawings and approved by The Engineer.	22850.10		Each		
27	N.S	Providing and fixing Steel Lockers 2' deep consisting of M.S angle iron frame 1" x 1" x 1/8" with leaf frame of M.S angle iron 1" x 1" x 1/8" with M.S sheet of 20-SWG front shutter, top, bottom, left, right & back and best quality hardware's (handles, locks, latches, Hinges & screws etc.) i/c welding charges with 3-coat of hammer paint, complete in all respect as approved by The Engineer.	330.75		Per/Sft		
28	N.S	Supply, provide and fix in position uPVC rain water down pipe lines conforming to ISO 3633:1991 and BS 3505 1968 (wall thickness 3.2mm) including proper joints complete in all respects, and system leak-free:					
		4" dia	1,411.20		Per/Rft		
29	N.S	Provide and fix uPVC plain bends with grating (as rain water inlets at roof), water tight connection leak-free:					
		4" dia	52.00		Each		
30	N.S	Provide and fix uPVC shoe bends (as rain water outlets), water tight connection leak-free					
		4" dia	52.00		Each		
		Total "B"(Schedule items) C/o to Summary of Cost:					
		Net Total (A+B)					

INTERNAL PUBLIC HEALTH WORK

Item No.	REF. Nos CH/ITEM	Description of Items	Qty		Unit	Rate (Rs.)	Amount (Rs.)
MRS, 1st BI-ANNUAL-2021 (1st JANUARY-2021 to 30th JUNE -2021) DISTRICT BAHAWALPUR							
		<u>Schedule Items (A)</u>					
		Plumbing Fixtures					
1	Ch 19 item 17/P-113	Providing and fixing, chromimum plated toilet paper holder	92		Each		
2	Ch 19 item 18(i)/P-114	Providing and fixing, chromium plated towel rail:- i) 60 cm (24") long, and 2 cm (¾") dia	44		Each		
3	Ch 19 item 22(iv)/P-114	Providing and fitting:- iv) plastic shelf 60x13 cm (24"x5") with bracket and railing.	20		Each		

4	Ch 19 item 19/P-114	Providing and fixing looking glass 55x40 cm (22"x16") size and 5 mm thick, first quality. (For pedestal)	20		Each		
5	Ch 19 item 15/P-113	Providing and fixing, chromium plated soap dish.	84		Each		
Total "A"(Schedule items) C/o to Summary of Cost:							
		Non Schedule Items (B)					
		Plumbing Fixtures					
1	NS	Providing and fixing European type ceramics ware coupled water closet, white / light colour, including 3 gallons cistern, P/S trap, C.P tee stop cock with wall cups, connection pipes, "Porta or Approved Equivalent", hinged double bacolite seat and cover of best quality, all joints to services and drains, plugging and screwing as necessary to the structure and make good the same, complete in all respect as per specifications and drawings.	52.00		Each		
2	NS	Providing and fixing European type ceramics ware coupled water closet, white / light colour, including 3 gallons cistern, P/S trap, C.P tee stop cock with wall cups, connection pipes, "Porta or Approved Equivalent", hinged double bacolite seat and cover of best quality, all joints to services and drains, plugging and screwing as necessary to the structure and make good the same, complete in all respect as per specifications and drawings.(for Disable)	8.00		Each		
3	NS	Providing and fixing Asiatic/Orissa pattern glazed earthen ware W.C with integral foot rest,white / light colour, with 3 gallons low level flushing tank system, 1-1/2" dia, PVC (D-type) flush pipe, "P" or "S" trap best quality "Porta or Approved Equivalent" make, C.P tee stop cock with wall cups, "SONEX", "MASTER" painted M.S. wall brackets with nuts and bolts, complete in all respect as per specifications and drawings.	32.00		Each		
4	NS	Providing and fixing wash hand basin vanity, white / light colour, C.P. tee stop cock with wall cups, "Porta or Approved Equivalent", waste couplien, plug with C.P. brass chain, 1-1/2" dia. P.V.C. (D-type) Waste pipe, connections to water lines, C.P. brass union, nuts, washers, C.P. grating including C.P. bottle trap etc.Complete in all respect as per specifications and drawings.	64.00		Each		
5	NS	Providing,Installing and fixing wash hand basin Padestal type "Porta or Approved Equivalent" with waste coupling ,cp nozzle & which includes but not limited to fixing, connection pipes, connections to water lines,C.P. brass union, nuts, washers, etc. complete in all respect as per specifications and drawings and as directed by the Engineer.	12.00		Each		
6	NS	Providing,Installing and fixing wash hand basin Padestal type "Porta or Approved Equivalent" with waste coupling ,cp nozzle & which includes but not limited to fixing, connection pipes, connections to water lines,C.P. brass union, nuts, washers, etc. complete in all respect as per specifications and drawings and as directed by the Engineer.(for Disable)	8.00		Each		
7	NS	Providing and fixing stainless steel kitchen sink of 20 gauge of "Porta or Approved Equivalent" including, brackets, screws,15 mm dia. C.P. brass T. stop cocks of Master, Sonix, 40 mm dia heavy duty waste coupling and PVC flexible waste pipe of approved make and quality complete all respects.	8.00		Each		
8	NS	Providing and fixing C.P. Muslim Shower with double bib cock of best quality, with C.P. flexible pipe of "Porta or Approved Equivalent", complete in all respect as per specifications and drawings.	92.00		Each		
9	NS	Providing and fixing 15 mm dia C.P. mixer with C.P pipe 15 mm dia, of "Porta or Approved Equivalent", Porta or approved equal complete including pipe connections, all fittings, testing etc.					
		a) Wash basin mixer	84.00		Each		
		b) Sink mixer	8.00		Each		
		c) Ablution Double bib cock	16.00		Each		
10	NS	Providing and fixing best quality distortion free imported Belgium glass (beveled) mirrors 5mm thick with hard board backing, chromium plated screws/brackets, complete in all respects as per specifications and drawings.(for vanity)	320.00		Sft		
		Water Supply System					
11	NS	Providing, fixing, jointing and testing Polypropylene Random (PPR) pipes, VODA PIPES/(Polydex by DADEX) or approved equivalent, pressure pipe for cold/hot water as per DIN 8077-8078,PN-20 for pipes and DIN 16962,PN-25 for fittings (polyfusion welded joints) inside building including fittings and specials (sockets, tees, elbows, bends, crosses, reducers, adaptor, plugs and union etc.) supported on walls or suspended from roof slab or run in chases including pipe hangers, supports, cutting and making good the chases and holes, complete in all respects.					
		25mm dia	715		Rft		
		32mm dia	902		Rft		
		40mm dia	627		Rft		
		50mm dia	193		Rft		
12	NS	Providing and installing ball valves of following nominal dia, Scon/Kitz make or approved Equaivalent, including jointing, fitting, painting, testing, complete in all respects to match with PPR and PE pipes of following diameters.					
		25 mm	0		Nos.		
		32 mm	16		Nos.		
		40 mm	16		Nos.		
		50 mm	0		Nos.		
		Sewerage System					
13	NS	Providing, laying, fixing and testing uPVC Nicasi soil, waste, vent and rain water as per ISO 3633:1991 or equivalent BS specifications including uPVC fittings with solvent cement jointing or rubber ring joints,VODA PIPES/DADEX Or Approved Equivalent make as approved by the Engineer complete in all respects, including clamps, bends, tees, Y-tees, cowls, reducers, sleeves, clean out, waterproof sleeves, roof drain, etc., embedded in floors and walls, clamped to walls, suspended from slab (common hanger shall be used for pipe hanging and fiber glass tray under pipes), painted MS horizontal and vertical pipe hangers of approved design making requisite no. of holes and making good the same complete in all respect as per specifications and drawings.					
		2" i.d	1,020		Rft		

		3" i.d	1,791		Rft		
		4" i.d	2,522		Rft		
14	NS	Providing, fixing, cutting, jointing and testing uPVC Vent Cowel on Vent Pipes with solvent cement jointing, VODA PIPES/DADEX or approved equivalent, rates include cost of cutting & pipe fittings of the following diameter:					
		2" i.d	48.00		Nos		
15	NS	Providing, laying, fixing and testing floor drain (multifloor trap) uPVC including extension grating and stainless steel cover grating best quality local make Porta or Approved Equivalent as approved Engineer, complete in all respect as per specifications and drawings.	160.00		Nos.		
16	NS	Providing and fixing clean out with threads ferule fixed in pipe with the help of solvent, as shown on drawing, complete in all respects as per specifications and drawings.					
		3" i.d	50.00		Nos.		
		4" i.d	28.00		Nos.		
17	NS	Providing and making top khurra/R.W.C.B using 3" thick plain cement concrete 1:2:4 matching with roof tiles with steel trowel finishing at desired level including curing, finishing, complete in all respect as per specifications and drawings.					
		i) 1'x1'.	22.00		Nos.		
		ii) 2'x2'.	24.00		Nos.		
		Gas Supply System					
18	NS	Providing, laying, fixing, testing (at 90 psi) and disinfecting, galvanized iron pipelines for sui gas supply of "Jamal pipe Or Approved Equivalent", as per BSS 1387 medium quality, "IL", and "KPM" as approved by the Engineer complete in all respects to their entire satisfaction, including specials such as tee, cross, reducer, bend, union, elbow, plug, socket etc., supported on walls or suspended from slab, including painted MS horizontal and vertical pipe hangers of approved design, supports, cutting and making good the same as necessary to the structure including two layers of anticorrosive bitumen tape overlapped 6mm at edges to all buried pipes, complete in all respect as per specifications and drawings.					
		3/4" i.d	230		Rft		
19	NS	Providing and installing ball valves of following nominal dia, Kitz make, including jointing, fitting, painting, testing, complete in all respects to match with following G.I pipe diameters.					
		3/4" i.d	8.00		No.		
20		Fire Extinguisher System					
		Providing, fixing, testing fire existuishers of following type, complete in all respects as per design drawings and as per satisfaction of the Engineer incharge					
20.1	NS	Dry Chemical Powder Type Fire Extinguisher Portable 4 kg ABC Powder Model PD4D	32.00		Each		
20.2	NS	CO2 Type Fire Extinguisher Portable 5 kg CO2 Model CD5D	32.00		Each		
20.3	NS	Fire Exit Lights Ceiling Mounted (Self Contained)	66.00		Each		
Total "B"(Schedule items) C/o to Summary of Cost :							
Net Total (A+B) :							

EXTERNAL PUBLIC HEALTH WORK

Item No.	REF. Nos CH/ITEM	Description of Items	Qty		Unit	Rate (Rs.)	Amount (Rs.)
MRS, 1st BI-ANNUAL-2021 (1st JANUARY-2021 to 30th JUNE -2021) DISTRICT BAHAWALPUR							
		Schedule Items (A)					
		Plumbing Fixtures					
		Water Supply System (For Pipe Line)					
1	Ch.3 Item 44/P-33	Excavation of trenches in all kinds of soil, except cutting rock, for watersupply pipelines upto 5 ft. (1.5 m) depth **8.1 after laying of pipe line, which is from ground level, including trimming, dressing sides, payable separately. leveling the beds of trenches to correct grade and cutting pits for joints, etc. complete in all respects.	8281		1000 Cft		
		Gas Supply System (For Pipe Line)					
2	Ch.3 Item 44/P-33	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.	5150		1000 Cft		
		Sewerage System (For Pipe Line)					
		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:- (FOR PIPES)					
3	Ch 3 item 42(i)/P-32	i) 0 ft. to 7.0 ft. (0 to 2.10 m) depth	10359		1000 Cft		
4	Ch 7 item 30/P-56	Supplying and filling sand under floor; or plugging in wells	1011		100 Cft		
		Septic Tank (2 Nos.)					
5	Ch.3 Item 42(i)/P-32	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	847		1000 Cft		
6	Ch.3 Item 42(ii)/P-32	ii) 7-01 ft. to 15.0 ft. (2.15 to 4.5 m) depth	363		1000 Cft		
7	Ch.6 Item5(i)/P-42	Cement concrete plain including placing compacting, finishing and curingcomplete (including screening and washing of stone aggregate): Nominal mix (1: 4: 8) having minimum 1500 Psi cylindrical compressive strength at 28 day	40		100 Cft		

8	Ch.6 item 6a(ii)2 /P-42	Providing and laying reinforced cement concrete (including prestressed concrete), using coarse sand and screened surface smooth, and the plastering graded and washed aggregate, in required shape and design, done for making up all surfaces including forms, moulds, shuttering, lifting, compacting, after removing centring. curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):- (a)(ii) 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) having minimum 3000 Psi cylindrical compressive strength at 28 days.	438		Per Cft		
9	Ch.6 item 6a(i)2 /P-42	(a) (i) 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) having minimum 3000 Psi cylindrical compressive strength at 28 days.	85		Per Cft		
10	Ch.6 Item 9(c)/P-44	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and chairs, etc.and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars):- (c) Deformed bars (Grade-60)	1465		100 Kg		
11	Ch 21 Item, 15-A/P-124	Providing and fixing 6" thick R.C.C. manhole cover with tee shaped C.I. frame of 22" l/d (frame weighing 37.324 Kg. or one maund as per Standard Drawing STD/PD No. 6, of 1977, complete in all respect.	4		Per Set		
12	Ch 6 Item 28/P-46	Providing embedding 10" (250 mm) wide ¼" (6 mm) thick rubber water stopper in expansion joints of R.C.C. roof slab complete in all respects.	54		Rft		
13	Ch.13 Item 9/P-87	Bitumen coating to plastered or cement concrete surface					
		(i) 20 lbs. per 100 sft.	270		100 Sft		
14	Ch 10 Item 39/P-70	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: i) 3/8"(10 mm) thick	556		100 Sft		
		Gully Trap					
15	Ch 21 item 7(b)/P-123	Constructing gully grating chamber,12"x12", (300x300 mm) complete in all respects: b) concrete Gully trap.	20		Each		
Total "A"(Schedule items) C/o to Summary of Cost:							
		<u>Non Schedule Items (B)</u>					
		Water Supply System					
1	NS	Providing, fixing, jointing and testing Polypropylene Random (PPR) pipes, VODA PIPES/(Polydex by DADEX) or approved equivalent, pressure pipe for cold/hot water as per DIN 8077-8078,PN-20 for pipes and DIN 16962,PN-25 for fittings (polyfusion welded joints) inside building including fittings and specials (sockets, tees, elbows, bends, crosses, reducers, adaptor, plugs and union etc.) supported on walls or suspended from roof slab or run in chases including pipe hangers, supports, cutting and making good the chases and holes, complete in all respects.					
		63mm dia	2,070		Rft		
2	NS	Providing and installing ball valves of following nominal dia, Scon/Kitz make or approved Equaivalent, including jointing, fitting, painting, testing, complete in all respects to match with PPR and PE pipes of following diameters.					
		63 mm	1		Nos.		
		Sewerage System					
3	NS	Providing and fixing 1" malleable dia cast iron step, in Under ground tank , manhole, including carriage and setting the same in work to correct lines and levels.(for tanks)	28		Nos.		
4	NS	Providing, laying, fixing and testing uPVC Nicasi soil, waste, vent and rain water as per ISO 3633:1991 or equivalent BS specifications including uPVC fittings with solvent cement jointing or rubber ring joints,VODA PIPES/DADEX Or Approved Equivalent make as approved by the Engineer complete in all respects, including clamps, bends, tees, Y-tees, cowls, reducers, sleeves, clean out, waterproof sleeves, roof drain, etc., embedded in floors and walls, clamped to walls, suspended from slab (common hanger shall be used for pipe hanging and fiber glass tray under pipes), painted MS horizontal and vertical pipe hangers of approved design making requisite no. of holes and making good the same complete in all respect as per specifications and drawings.					
		6" i.d	949		Rft		
		8" i.d	583		Rft		
5	NS	Providing and constructing 2'x2' manhole with brick work including excavation, backfilling, RCC work PCC 1:2:4 cambering, plastering in 1:4 inside & outside, water proofing etc., upto 6' depth and size including ladder top slab, 18" heavy duty C.I. Manhole cover with frame "ALPINE INDUSTRIAL CON", "CME", "NPC SUPER" as shown on the drawings, complete in all respect as per specifications and drawings.	30.00		Nos.		
		Gas Supply System					
6	NS	Providing, laying, fixing, testing (at 90 psi) and disinfecting, galvanized iron pipelines for sui gas supply of "Jamal pipe Or Approved Equivalent", as per BSS 1387 medium quality, "IIL", and "KPM" as approved by the Engineer complete in all respects to their entire satisfaction, including specials such as tee, cross, reducer, bend, union, elbow, plug, socket etc., supported on walls or suspended from slab, including painted MS horizontal and vertical pipe hangers of approved design, supports, cutting and making good the same as necessary to the structure including two layers of anticorrosive bitumen tape overlapped 6mm at edges to all buried pipes, complete in all respect as per specifications and drawings.					
		3/4" i.d	1,288		Rft		

7	NS	Providing and installing ball valves of following nominal dia, Kitz make, including jointing, fitting, painting, testing, complete in all respects to match with following G.I pipe diameters.				
		3/4" i.d	1.00		No.	
8	NS	Providing, fixing & testing Gas meter as per Sui Northern gas with All Accessories.complete in all respect as per drawings,Specification & Engineer In Charge.	1.00		No.	
Total "B"(Schedule items) C/o to Summary of Cost :						
Net Total (A+B) :						

ELECTRICAL WORKS

Item No.	REF. Nos CH/ITEM	Description of Items	Qty		Unit	Rate (Rs.)	Amount (Rs.)
MRS, 1st BI-ANNUAL-2021 (1st JANUARY-2021 to 30th JUNE -2021) DISTRICT BAHAWALPUR							
		SCHEDULE ITEM-A					
		Internal Electrification					
A.01		Light Circuits					
		Supply, installation and commissioning of light circuit wiring, to be wired with 3x2.5mm sq. (1P+1N+1PE) PVC insulated 300/500 V grade wire make Pakistan Cable, Newage,Fast Cables, in and including cost of 1" dia. heavy duty PVC conduit make Beta , Popular recessed in , walls, Roof slab, or on surface or above false ceiling or as required as per site conditions, all PVC conduit accessories, pull boxes, steel pull wires , complete in all respects. Each circuit shall have independent PE.					
	CH: 24 Item 10 (a)-iii P-144	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 and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x 2.5 mm (7/0.029")	13,950.00		Rft		
	CH: 24 Item 3 (iii) P-143	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 25mm	3,487.50		Rft		
A.02		UPS Light Circuits					
		Supply, installation and commissioning of UPS light circuit wiring, to be wired with 1x2.5mm sq. (1UPS) PVC insulated 300/500 V grade wire make Pakistan Cable, Newage,Fast Cables, in pre installed 1" dia. heavy duty PVC conduit make Beta , Popular recessed in , walls, Roof slab, or on surface or above false ceiling or as required as per site conditions, all PVC conduit accessories, pull boxes, steel pull wires , complete in all respects					
	CH: 24 Item 10 (a)-iii P-144	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 and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x 2.5 mm (7/0.029")	3,750.00		Rft		
A.03		1-Light Point Controlled By One Switch					
		Wiring of one light point controlled by one switch and wired with 3x1.5 mm sq. (P+N+PE) PVC insulated wires 300/500 V. grade makePakistan Cable, Newage,Fast Cables, in and including cost of 3/4" dia. heavy duty PVC conduit make Beta , Popular installed on RCC slab, above false ceiling, recessed in wall, columns slabs or above light carrier all PVC conduit accessories, 3" high PVC junction boxes, pull boxes, steel pull wires, PVC flexible conduit from ceiling junction box to light fixture flush type plate switches, including cost of back boxes and switches of 10 Amps.					
	CH: 24 Item 10 (a)-i P-144	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 and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x 1.5 mm (3/0.029")	44,450.00		Rft		
	CH: 24 Item 3 (ii) P-143	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 20mm	14,816.67		Rft		
A.04		Point -Point Wiring					
		Same as per item No. A.03 but Loop wiring of a light point from first light point on same switch circuit, complete in all respects.					
	CH: 24 Item 10 (a)-i P-144	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 and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x 1.5 mm (3/0.029")	62,195.00		Rft		
	CH: 24 Item 3 (ii) P-143	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 20mm	20,731.67		Rft		
A.05		Exhaust Fan Point					
		Same as Item No. A.03 mentioned above but wiring of exhaust fan point including cost of 10 Amp switch with M.S box 16 SWG with earth terminal.					
	CH: 24 Item 10 (a)-i P-144	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 and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x 1.5 mm (3/0.029")	4,000.00		Rft		
	CH: 24 Item 3 (ii) P-143	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 20mm	1,333.33		Rft		
A.06		Ceiling Fan Point					
		Same as Item No. A.03 mentioned above but wiring of Ceiling fan point including cost of 10 Amp switch with M.S box 16 SWG with earth terminal.					

	CH: 24 Item 10 (a)-i P- 144	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 and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x 1.5 mm (3/0.029")	23,880.00	Rft		
	CH: 24 Item 3 (ii) P-143	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 20mm	7,960.00	Rft		
A.07		Wall Bracket Fan				
		Same as Item No. A.03 mentioned above but wiring of Wall Bracket fan point including cost of 10 Amp switch with M.S box 16 SWG with earth terminal.				
	CH: 24 Item 10 (a)-i P- 144	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 and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x 1.5 mm (3/0.029")	360.00	Rft		
	CH: 24 Item 3 (ii) P-143	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 20mm	120.00	Rft		
A.08		1-13 Amps Switch Socket				
		Supply and wiring of one 3pin 13 Amps light plug socket outlet point from distribution board with single core 2x4mm2(P+N) PVC insulated 300/500 volt grade cable in & including PVC conduit recessed in walls/R.C.C. slab, or installed on surface of Ceiling, all conduits accessories, junction boxes, pull boxes etc. 2.5mm2 cable as PC excluding cost of 3 pin 13 Amps switch & socket outlet make CLIPSAL, Legrand , ABB or approved equivalent installed on & including 16 SWG sheet steel board recessed in walls complete in all respects and as per specifications & drawings.				
	CH: 24 Item 10 (a)-iv P- 144	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 and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x 4 mm (7/0.036")	24,840.00	Rft		
	CH: 24 Item 10 (a)-iii P- 144	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 and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x 2.5 mm (7/0.029")	8,280.00	Rft		
	CH: 24 Item 3 (iii) P-143	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 25mm	8,280.00	Rft		
A.09		Loop-Loop- 13 Amps Switch Socket				
		Same as item No.A.12 above but loop wiring of 13A power socket outlet with 2x4mm2(P+N) & 1x2.5mm2 as CPC from point to point excluding cost of one 15A 3 pin switch socket outlets with make CLIPSAL, Legrand, ABB or approved equivalent installed on & including 16 SWG sheet steel boards recessed in walls /columns.				
	CH: 24 Item 10 (a)-iv P- 144	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 and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x 4 mm (7/0.036")	7,980.00	Rft		
	CH: 24 Item 10 (a)-iii P- 144	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 and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x 2.5 mm (7/0.029")	2,660.00	Rft		
	CH: 24 Item 3 (iii) P-143	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 25mm	2,660.00	Rft		
A.10		Loop-Loop- 5 Amps Switch Socket				
		Same as item No.A.12 above but loop wiring of 5A power socket outlet with 2x4mm2(P+N) & 1x2.5mm2 as CPC from point to point excluding cost of one 15A 3 pin switch socket outlets with make CLIPSAL, Legrand, ABB or approved equivalent installed on & including 16 SWG sheet steel boards recessed in walls /columns.				
	CH: 24 Item 10 (a)-iv P- 144	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 and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x 4 mm (7/0.036")	21,000.00	Rft		
	CH: 24 Item 10 (a)-iii P- 144	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 and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x 2.5 mm (7/0.029")	7,000.00	Rft		
	CH: 24 Item 3 (iii) P-143	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 25mm	7,000.00	Rft		
A.11		1-15 Amps Switch Socket				
		Supply and wiring of one 3pin 15 Amps Power plug socket outlet point from distribution board with single core 2x4mm2 (P+N) PVC insulated 300/500 volt grade cable in & including PVC conduit recessed in walls/R.C.C. slab, or installed on surface of Ceiling including all conduits accessories, junction boxes, pull boxes etc. 4mm2 cable as PC including cost of 3 pin 20 Amps switch & socket out let make CLIPSAL, Legrand, ABB or approved equivalent installed on & including 16 SWG sheet steel board recessed in walls complete in all respects and as per specifications & drawings.				
	CH: 24 Item 10 (a)-iv P- 144	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 and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x 4 mm (7/0.036")	1,350.00	Rft		

	CH: 24 Item 10 (a)-iii P-144	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 and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x 2.5 mm (7/0.029")	450.00		Rft		
	CH: 24 Item 3 (iii) P-143	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 25mm	450.00		Rft		
A.12		Power Cables and PVC Conduit					
		L.T. Power Cables					
		Supply at site, installation, testing and commissioning of PVC insulated armoured copper conductor cable 600 / 1000 Volt grade 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 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.make Pakistan Cable, Newage Cable, Fast Cable or eqv..					
a)		PVC insulated, PVC sheathed 4 core 660/1100 volt grade cable, armoured with G.I. wire 16 SWG.					
i)	CH: 24 Item 12-vii P-145	1 core 185mm sq. (37/0.103") cable from MPB to MPB-E	360.00		Rft		
ii)	CH: 24 Item 13 (c)-vii P-145	4 core 25mm sq. cable from Meter Panel Board to DBs.	1,310.00		Rft		
iii)	CH: 24 Item 13(c)-vi P-146	4 core 16mm sq. cable from Meter Panel Board to DBs.	1,570.00		Rft		
b)		single core PVC insulated, PVC sheathed copper conductor, 660/1100 volts grade cable Circuit Protective Conductor (CPC)					
i)	CH: 24 Item 12 (iv) P-145	1 core 70mm sq.	360.00		Rft		
ii)	CH: 24 Item 12 (i) P-145	1 core 16mm sq.	1,310.00		Rft		
iii)	CH: 24 Item 11 (v) P-144	1 core 6mm sq.	1,570.00		Rft		
A.13		PVC Conduit					
		Supply at site of PVC conduit heavy duty to be concealed in RCC slabs, walls, floor, columns above false ceiling or as required as per site conditions including cost of all PVC conduit accessories, steel pull wires, complete in all respects.					
i)	CH: 24 Item 6 (i) P-143	2" DIA PVC Conduit	600.00		Rft		
ii)	CH: 24 Item 3(iii) P-143	25 mm i/d	400.00		Rft		
		Total "A"(Schedule items) C/o to Summary of Cost:					
		NON SCHEDULE ITEM-B					
B.01		Switch & Sockets.					
i	Appendix ' c' Page No-1	Providing and fixing of 2 gang switch 10 Amp with back box (6"x3"). Make Clipsal Austrila, Philips or eqv.	20.00		Each		
ii	Appendix ' c' Page No-2	Providing and fixing of 4 gang switch 10 Amp with back box (6"x3"). Make Clipsal Austrila, Philips or eqv.	142.00		Each		
iii	Appendix ' c' Page No-3	Providing and fixing of 6 gang switch 10 Amp with back box (6"x3"). Make Clipsal Austrila, Philips or eqv.	110.00		Each		
iv	Appendix ' c' Page No-4	Providing and fixing of 8 gang switch 10 Amp with back box (6"x3"). Make Clipsal Austrila, Philips or eqv.	50.00		Each		
v	Appendix ' c' Page No-5	Providing and Fixing of Switched Socket 5 Amp with back box (3"x3"). Make Clipsal Austrila, Philips or eqv.	600.00		Each		
vi	Appendix ' c' Page No-6	Providing and Fixing of Universal Switched Socket 13 Amp with back box (3"x3"). Make Clipsal Austrila, Philips or eqv.	504.00		Each		
vii	Appendix ' c' Page No-7	Providing and Fixing of Universal Switched Socket 20 Amp with back box (3"x3"). Make Clipsal Austrila, Philips or eqv.	15.00		Each		
B.02		Fitting and Fixtures.					
		Incandescent Fittings					
		Supply, instalation, testing and commissioning of LED road light with imported chip , campitble imported driver with IP 66 rating , built in Aluminium Alloy + lens housing , input voltage AC 85-285V Frequency 50-60 Hz , beam angle 140° LED Life span 60000 Hours, colour Warm white 3000K ,as per specifications and to the approval of the Consultant/ The Engineer, Make Philips, SunLight, Lumilux eqv.					
i)	Appendix ' c' Page No-8	Supply & installation of LED 17W Down Light (6" Surface Mounted, 220V~) i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips Meson or Equivalent)	1,696.00		Nos.		
ii)	Appendix ' c' Page No-51	Supply & installation of LED 2'x 2' Ceiling Panel Light 36W (220V~, CW or WW) i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips 36S/86S PSU W60L60 GM G2 or Equivalent)	874.00		No		
iii)	Appendix ' c' Page No-53	Supply, Installation and connection of LED Search light (100W, 240~, Day light) i/c PVC wire connector 16A and any accessories (i.e. screw. Rawl plug or steel nail, etc.) at site. Complete in all as approved by the Engineer incharge. (Osaka-E018E or equivalent).	8.00		No		
iv)	Appendix ' c' Page No-54	Supply and installation of outdoor LED Bollard Light 12 Watt, complete with all necessary materials / accessories, complete in all respects	36.00		No		

v)	Appendix ' c' Page No-55	Supply and installation of outdoor LED Garden Light Warm 05 Watt, complete with all necessary materials / accessories, complete in all respects	57.00	Nos.		
B.03		Exhaust Fans				
		Supply, installation and commissioning of Exhaust Fans of following sizes Matlic body, louvers, all necessary fixing accessories, make Lahore Fan, PAK Fan , GFC Fan complete in all respects.				
a)	Appendix ' c' Page No-12	12" dia (Plastic Body).	100.00	No		
B.04		Ceiling Fan				
i)	Appendix ' c' Page No-52	Supply & installation of PVC Fan Box with iron bar i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge. (GM, Bitu or equivalent)	197.00	Nos.		
ii)	Appendix ' c' Page No-13	Supply & installation of Ceiling Fans, 56" sweep (As per "Pakistan Energy Lable" certified manufacturers) i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge	197.00	Nos.		
		TOTAL AMOUNT - Part - B (PKR) (CARRIED FORWARD TO SUMMARY)				
iii)	Appendix ' c' Page No-9	Supply & installation of 2' x 2' False Ceiling Fan 14" swipe (99.99% Copper), remote controlled i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Royal, Super-asia or Equivalent)	400.00	Nos.		
B.05		Wall Bracket Fan				
	Appendix ' c' Page No-56	Supply & installation of Wall Bracket Fan 18" (99.99% Copper) i/c any accessories (i.e. mounting screws & etc) as required at site. Complete in all respect as directed and approved by the Engineer Incharge (Younis, Tamoor, Pakfan or Equivalent)	8.00	Nos.		
B.06		L.T. Switchgear				
		Main Panel Board-WAPDA Fabrication, supply at site, installation at designated location, testing and commissioning of Main Panel Board (MPB) comprising of cubicles, frame made of sheet steel 12 SWG and doors of 14 SWG, with flexible earthing straps, degreased and de-rusted, finished with electro-static powder coating of 50 micron thickness in approved color, panel housing to comply with protection class IP-54, indoor floor mounting, in free standing design, with hinged door, lockable handle, all auxiliaries, internal wiring, designation labels on MCCBs, earthing bar, numbering beads on the control wires, panel suitable for system Voltage 415 V, 50 Hz, 3 Phase and neutral, bus bars of 99.8% purity electrolytic copper, including cost of cable termination lugs, brass cable glands for incoming & outgoing cables, wiring from breakers, indication lamps, instruments and control all accessories complete in all respects. All incoming and outgoing breakers shall be accessible by opening the front door having additional M.S. sheet cover. Gaskets shall also be provided where necessary. All MCCBs shall be suitable to operate without any de-rating at 50°C ambient temperature and shall be of one make only and not a mixture of more than one make. The front and back sides of MPB shall also have louvers at bottom and sides of panel for hot air exhaust. The panel shall have a front access. Circuits layout shall conform to the single line diagrams. Main Panel Board shall be manufactured by PEL, Technobuild, Ibbad Switchgear or Eqv. <u>Incoming From WAPDA</u> 1- 2500 Amps 3 pole Motorized Air Circuit Breaker (ACB) with adjustable overload and short circuit protection RC: 47 KA with Electronic Protection Unit, Aux Contact = 4No + 4NC. Copper Bus Bars of electrolytic copper 99.9% size not less than 2x120x10mm for each phase and neutral (3P+N) on incoming side of breaker of facilitate connection cables. Main copper bus bars of electrolytic copper 99.9% size not less than 2x120mm x 10mm for each phase and neutral (3P+N) + 120mm x 10mm for earth. 3-Air cooled ring type current transformer ratio 2500/5 Amps having suitable output and accuracy. 3-Digital Ammeter scaled 0-2500 Amps of appropriate size. 3-Digital Voltmeter scaled 0-500 Volts. 3-Phase indication lamps of colour Red, Yellow, Blue. 2-Breaker ON-OFF indication lamp. 1- Surge Protective Device (SPD) arrester 45 KA class:1 make Phoenix / ABB/ Iskra or approved equivalent. 1- Energy analyzer make Smart controller type X - 485. <u>Brass Cable Glands</u> As per SLD <u>Earthing Bar and Earth Terminal</u> Earthing bar with necessary punched holes, nuts, bolts and washers, etc. Earthing terminals, all earth leads to have green base with yellow strip. <u>Exhaust Fan</u>				

		<p>Each cubicle to have 2 thermostatically controlled 230 Volts robust exhaust fans 6"/8" dia. to be installed on back side or on top of MPB for hot air exhaust, including cost of thermostat ON/OFF switches wire mesh, cleanable filter and all necessary accessories / wiring, complete in all respects.</p> <p><u>Tube Light</u></p> <p>Each cubicle to have a tube light of 2 ft. rod to be installed inside the cubicle alongwith micro switch on each door.</p> <p><u>Outgoing</u></p> <p>1- 2000 Amps 3 pole Motorized Air Circuit Breaker (ACB) with adjustable overload and short circuit protection RC: 47 KA with Electronic Protection Unit, Aux Contact = 4No + 4NC.</p> <p>1- 1000 Amps 3 pole Adjustable Moulded Case Circuit Breaker (MCCB) RC=> 25 KA</p> <p>1- 100 Amps 3 pole Moulded Case Circuit Breaker (MCCB) RC=> 16 KA</p> <p>Appendix ' c' Page No-14 Spaces for installation of MCCBs of rating 60/125 ATP in future but <u>EXCLUDING</u> the cost of MCCBs.</p>	1.00	Each		
B.07		<p>Main Panel Board- Emergency (MPB-E)</p> <p>Conforming to same constructional specifications as per item No. 1.02 mentioned above but equipped with the following:</p> <p><u>Incoming</u></p> <p>2- 1000 Amps 3 pole Adjustable Moulded Case Circuit Breaker (MCCB) RC=> 25 KA. Both are Electrical & Mechanical Interlocking System</p> <p>Copper Bus Bars of electrolytic copper 99.9% size not less than 80x10mm for each phase and neutral (3P+N) on incoming side of breaker of facilitate connection cables.</p> <p>Main copper bus bars of electrolytic copper 99.9% size not less than 80mm x 10mm for each phase and neutral (3P+N) + 40mm x 10mm for earth.</p> <p>3-Air cooled ring type current transformer ratio 1000/5 Amps having suitable output and accuracy.</p> <p>3-Digital Ammeter scaled 0-1000 Amps of appropriate size.</p> <p>3-Digital Voltmeter scaled 0-500 Volts.</p> <p>3-Phase indication lamps of colour Red, Yellow, Blue.</p> <p>2-Breaker ON-OFF indication lamp.</p> <p>2- Energy analyzer make Smart controller type X - 485.</p> <p><u>Brass Cable Glands</u></p> <p>As per SLD</p> <p><u>Earthing Bar and Earth Terminal</u></p> <p>Earthing bar with necessary punched holes, nuts, bolts and washers, etc.</p> <p>Earthing terminals, all earth leads to have green base with yellow strip.</p> <p><u>Exhaust Fan</u></p> <p>Each cubicle to have 2 thermostatically controlled 230 Volts robust exhaust fans 6"/8" dia. to be installed on back side or on top of MPB for hot air exhaust, including cost of thermostat ON/OFF switches wire mesh, cleanable filter and all necessary accessories / wiring, complete in all respects.</p> <p><u>Tube Light</u></p> <p>Each cubicle to have a tube light of 2 ft. rod to be installed inside the cubicle alongwith micro switch on each door.</p> <p><u>Outgoing</u></p> <p>26- 50 / 60 / 75 / 100 Amps 3 pole Moulded Case Circuit Breaker (MCCB) RC=> 16 KA</p> <p>Appendix ' c' Page No-57 Spaces for installation of MCCBs of rating 60/125 ATP in future but <u>EXCLUDING</u> the cost of MCCBs.</p>	1.00	Each		
B.08		<p><u>Distribution Board</u></p> <p><u>(DBL1-GF,DBL2-GF,DBL4-GF,DBL5-GF,DBL1-1F,DBL2-1F,DBL4-1F,DBL5-1F)</u></p>				

	<p>Fabrication, supply at site, installation, testing, commissioning and connections of wires / cables of Distribution Boards “Light / Power” concealed / open 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 50 micron thickness in approved colour, DB housing to comply with protection class IP-44 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. DBs shall be manufactured by PEL, Technobuild, Ibbad Switchgear or Eqv.</p> <p><u>Incoming</u></p> <p>1- 50 Amps 3 pole Moulded Case Circuit Breaker (MCCB) RC: 16 KA.</p> <p><u>Outgoing</u></p> <p>18- 10 Amps Single Pole MCB RC: 6 KA</p> <p><u>Incoming From UPS</u></p> <p>1- 30 Amps 3 pole Moulded Case Circuit Breaker (MCCB) RC: 16 KA.</p> <p><u>Outgoing</u></p> <p>11- 10 Amps Single Pole MCB RC: 6 KA</p> <p>1- Internal power wiring, and control wiring, thimbles, tie, and cable tray. Backled & safety sheet for live equipment.</p> <p>Appendix ' c' Page No-15 Provision of spaces for future MCB's of rating 10 Amps but <u>EXCLUDING</u> the cost of breakers.</p>	8	No.		
B.09	<p><u>(DBL3-GF,DBL3-1F)</u></p> <p>Conforming to same constructional specifications as per item No. B.14 mentioned above but equipped with the following:</p> <p><u>Incoming</u></p> <p>1- 50 Amps 3 pole Moulded Case Circuit Breaker (MCCB) RC: 16 KA.</p> <p><u>Outgoing</u></p> <p>21- 10 Amps Single Pole MCB RC: 6 KA</p> <p><u>Incoming From UPS</u></p> <p>1- 30 Amps 3 pole Moulded Case Circuit Breaker (MCCB) RC: 16 KA.</p> <p><u>Outgoing</u></p> <p>11- 10 Amps Single Pole MCB RC: 6 KA</p> <p>1- Internal power wiring, and control wiring, thimbles, tie, and cable tray. Backled & safety sheet for live equipment.</p> <p>Appendix ' c' Page No-16 Provision of spaces for future MCB's of rating 10 Amps but <u>EXCLUDING</u> the cost of breakers.</p>	2	No.		
B.10	<p><u>(DBP1-GF,DBP2-GF,DBP4-GF,DBP5-GF,DBP1-1F,DBP2-1F,DBP4-1F,DBP5-1F)</u></p> <p>Conforming to same constructional specifications as per item No. B.14 mentioned above but equipped with the following:</p> <p><u>Incoming</u></p> <p>1- 75 Amps 3 pole Moulded Case Circuit Breaker (MCCB) RC: 16 KA.</p> <p><u>Outgoing</u></p> <p>33- 16/20 Amps Single Pole MCB RC: 6 KA</p> <p>1- Internal power wiring, and control wiring, thimbles, tie, and cable tray. Backled & safety sheet for live equipment.</p> <p>Appendix ' c' Page No-59 Provision of spaces for future MCB's of rating 10 Amps but <u>EXCLUDING</u> the cost of breakers.</p>	8	No.		
B.11	<p><u>(DBP3-GF,DBP3-1F)</u></p> <p>Conforming to same constructional specifications as per item No. B.14 mentioned above but equipped with the following:</p> <p><u>Incoming</u></p> <p>1- 60 Amps 3 pole Moulded Case Circuit Breaker (MCCB) RC: 16 KA.</p> <p><u>Outgoing</u></p> <p>21- 16/20 Amps Single Pole MCB RC: 6 KA</p> <p>1- Internal power wiring, and control wiring, thimbles, tie, and cable tray. Backled & safety sheet for live equipment.</p>				

	Appendix ' c' Page No-60	Provision of spaces for future MCB's of rating 10 Amps but EXCLUDING the cost of breakers.	2		No.		
B.12		L.T. Power Cables					
		Supply at site, installation, testing and commissioning of PVC insulated armoured copper conductor cable 600 / 1000 Volt grade 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 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.make Pakistan Cable, Newage Cable, Fast Cable or eqv.					
a)		PVC insulated, PVC sheathed 4 core 660/1100 volt grade cable, non armoured with G.I. wire 16 SWG.					
i)	Appendix ' c' Page No-61	1 core 400mm sq. cable from MPB to HVAC	750.00		Rft		
B.13		BUS-TIE-DUCT (BTD) (Form Transformer to Main Panel Boards.					
	Appendix ' c' Page No-62	Supply and installation of Compacted Bus Tie Duct consists of 2500 A TP&N Copper Bus Tie Duct complete with 14SWG duly MS sheet powder painted casing and necessary insulated mounting etc as per site requirement with fixing / hanging arrangements, Exhaust Fans complete in all respect as per satisfaction of Electrical Engineer.	60		Rft		
B.14		Powder Coated Ceiling Suspended / Horizontal Cable Tray in Corridor					
		Fabrication, supply at site and installation of perforated cable tray made of M.S. sheet 14 SWG 8 ft. to 10 ft. long with sides 3" high with cover of cable tray made of 18 SWG M.S sheet to be installed on wall, or in vertical, or above false ceiling in horizontal position or as shown on drawing, including cost of the following:- 2 M.S threaded hanging rod 1/2" dia. Length 12" or as required as per site. M.S strip 2" wide x 1/4" thick. Hilti rawal bolts as per required quantity & size. 2 coats of antirust paint. 2 coats of powder coating of approved colour. Complete hanging system shall be installed at every 36". The above mentioned cable tray shall be complete in all respects including cost of all accessories / materials. Cable tray shall be of the following sizes.					
	Appendix ' c' Page No-63	a) 6" wide x 3" high with cover.	400.00		Rft		
	Appendix ' c' Page No-64	b) 9" wide x 3" high with cover.	765.00		Rft		
	Appendix ' c' Page No-65	c) 12" wide x 3" high with cover.	90.00		Rft		
B.15		<u>Wall Mounted Fire Extinguisher</u>					
		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 or as mentioned below:					
	Appendix ' c' Page No-66	Electrical Room	2		Nos.		
B.16		FIRE ALARM SYSTEM					
i		<u>FIRE ALARM CABLE</u>					
a	Appendix ' c' Page No-17	Supply, Installation and commissioning of wiring for FACP Power from respective DB to Fire Alarm FACP with 3C, 2.5 Sq.mm with drain wire, Fire Resistant Shielded Cable (Fire Rating for 2 hours) in prelaid conduit from preliad Conduit. Make Delpo (UK), Belden as approved by consultants, Complete in all respect	150.00		Rft		
b	Appendix ' c' Page No-18	Supply, Installation and commissioining of wiring for FACP to Fire Alarm System as per drawing wired with 2C, 1.5 Sq.mm with drain wire, Fire Resistant Shielded Cable (Fire Rating for 1 hours) in prelaid conduit from fire Alarm Control Panel to all Smoke Detector/ Heat Detector / Sounder & Maunal Devices, Devices upto 180 units in one Loop, including all installation accessories.Make Delpo (UK) / Belden/ Covican (Italy) or approved equilvent approved by consultants, Complete in all respect	9,680.00		Rft		
ii		<u>MANUAL CALL POINTS</u>					
	Appendix ' c' Page No-19	Supply, installation and connecting of non-addressable manual call stations press glass type with test dey, suitable for surface or flush mounting Model DL-MCP-1010 make Delpo (UK), or Honeywell (Esser) including cost of all other accessories as required. All equipped as per specifications, complete in all respects.	20.00		Nos.		
iii		<u>ALARM SOUNDER /BUZZER</u>					
	Appendix ' c' Page No-20	Supply, installation and connections of Non- Addressable Type Indoor Loop Powered electronic Sounder/ Buzzer Model DL-BZ-1121 and minimum sound output 100dB at 1 meter with frequencies for variety of sounds as required. make Delpo (UK) or Honeywell (Esser) including cost of all other accessories as required. All equipped as per specifications, complete in all respects.	20.00		Nos.		
iv		<u>OPTICAL SMOKE DETECTOR</u>					

	Appendix ' c' Page No-21	Supply, installation and connections of Supply, installation and connections of Non- Addressable Optical Smoke Detectors Model DL-SM-1221 incorporating an LED indication located in labyrinth with in the housing of the detector. Sensing unit. make Delpo (UK), or Honeywell (Esser) including cost of all other accessories as required. All equipped as per specifications, complete in all respects.	214.00		Nos.		
v		<u>HEAT DETECTOR</u>					
	Appendix ' c' Page No-22	Supply, installation and connections of Non-Addressable Heat Detectors Model DL-HD-1225 incorporating an LED indication located in labyrinth with in the housing of the detector. Sensing unit. make Delpo (UK), or Honeywell (Esser) including cost of all other accessories as required. All equipped as per specifications, complete in all respects.	8.00		Nos.		
vi		<u>FIRE ALARM CONTROL PANEL</u>					
	Appendix ' c' Page No-23	Supply, installation and connecting of non-addressable fire alarm of following mentioned channel / zone. Separate bell alarming in each zone indication of point 48 to 72 hours power backup. Short/open circuit indications LED display / power fault, zone isolated test make Model DL-FAP-2414 or Honeywell (Esser) including cost of all other accessories as required. All equipped as per specifications, complete in all respects. as per NFPA-72/EN-54 12 Zone	1.00		Nos.		
vii		<u>FIRE ALARM JUNCTION BOX</u>					
	Appendix ' c' Page No-24	Supply, installation, testing and factory fabricated of PVC / MS junction box 16 SWG duly painted with antirust paint and further two coats of enamelled paint of approved colour including cost of earth terminal making holes of all sides to pull Fire Alarm cables complete. 4"x7". manufactured by PEL, Technobuild, Ibbad Switchgear or Eqv.	1.00		No.		
B.17		CCTV System IP Base					
i		<u>Data Wiring of Camera</u>					
	Appendix ' c' Page No-25	Supply, Installation and commissioning of wiring as per drawing wired with CAT- 6 23 AWG, UTP Cable UL Listed, run in pre laid conduit from CCTV point to Data Switcher, including all installation accessories. Make Delpo (UK), Belden, Schneider, Actual quantities shall be measured as per site & paid accordingly. Complete in all respects	7,872.00		Rft		
ii		<u>Power Wiring of Network Switch</u>					
	Appendix ' c' Page No-17	Supply, Installation and commissioning of wiring for Power with flexible 3C, 2.5 Sq.mm, Fire Resistant Shielded Cable (Fire Rating for 2 hours) in prelaid conduit from prelaid Conduit. Make Delpo (UK) / Belden/ Covican (Italy), or as specified in appendix-A as approved equivalent by engineer's Incharge or consultants, Actual quantities shall be measured as per site & paid accordingly. Complete in all respects	150.00		Rft		
iii		<u>Network Switch</u>					
	Appendix ' c' Page No-26	Supply, Installation and commissioning of 24 port POE Network Switch Make CISCO, 3M, Schnieder as approved equivalent by engineer's Incharge or consultants, Actual quantities shall be measured as per site & paid accordingly. Complete in all respects	2.00		Nos.		
iv		<u>CAT-6 UTP 1 METER PATCH CORD</u>					
	Appendix ' c' Page No-27	Supply, installation and connections of CAT-6 UTP 1 meter Patch cord Factory Fabricated and UL Listed with anti Snag Boots- Gold over nickel plated. Make Delpo (UK) Schneider as approved Eqavlent by engineer's Incharge or consultants, Actual quantities shall be measured as per site & paid accordingly. Complete in all respects	20.00		No		
v		<u>CAT-6 UTP 3 METER PATCH CORD</u>					
	Appendix ' c' Page No-28	Supply, installation and connections of CAT-6 UTP 3 meter Patch cord Factory Fabricated and UL Listed with anti Snag Boots- Gold over nickel plated. Make Delpo (UK), Schneider as approved Eqavlent by engineer's Incharge or consultants, Actual quantities shall be measured as per site & paid accordingly. Complete in all respects	4.00		No		
vi		<u>CAT-6 UTP 16 PORT SLIDING PATCH PANEL</u>					
	Appendix ' c' Page No-29	Supply, installation & connections of CAT-6 UTP 16 Port sliding Patch Panel loaded with one piece tool less I/O's VDIG112241U-/VDIB17726-U12 having u shaped smart bridle- Must be UL Listed. The patch panel must have two side buttons for locking mechanism .Make Delpo (UK), Schneider or as approved equivalent by engineer's Incharge or consultants, Actual quantities shall be measured as per site & paid accordingly. Complete in all respects	2.00		Rft		
vii		<u>CABLE ORGANIZER MADE WITH METAL</u>					
	Appendix ' c' Page No-30	Supply and installation of Cable Organizer made with metal, high graded epoxy powder coating and slideable top- Should be UL Listed. for Rack-mount Front Cable Organizer ACTRJ1-UC MPM Schneider as approved equivalent by engineer's Incharge or consultants, Actual quantities shall be measured as per site & paid accordingly. Complete in all respects	2.00		Rft		
viii		<u>Dome / Bullet - IP - Camera</u>					
	Appendix ' c' Page No-31	Supply and installation of IP Dome / Bullet Day and Night Vision CCTV, 4MP Model D2404, H.264/H.265 Compatible with 2592x1520 Effective Pixels and Varifocal Lens (2.8~12mm), With upto 40- 50 Meter IR Distance, 40 PCS LED, IP65/66 Weatherproof and Vandalproof, with Humen detection, complete in all respects make make Delpo (UK).	20.00		Nos.		
ix		<u>Network Video Recoder</u>					
	Appendix ' c' Page No-32	Supply, installation and connections of 24 channel NVR Model NC2485 with 4K Display output that support digital video stream with HDMI cable as required at site. Make Delpo (UK), approved equivalent by consultant or Engineer Incharge, including Brand New 4TB Hard drive Sata .Actual quantities shall be measured as per site & paid accordingly. Complete in all respects.	1.00		Nos.		
x		<u>MONITOR</u>					
	Appendix ' c' Page No-33	Supply, installation and connections of 55" SMART BACKLIT LED 1080p monitor with operation capacity of 24/7 wit 3 year warranty. make by Samsung, TCL, LG or as specified in appendix-A approved equivalent by consultant or Engineer Incharge, Complete in all respects Actual quantities shall be measured as per site & paid accordingly. Complete in all respects.	1.00		Nos.		
xi		Close Circuit Junction Box (CCJB)					

		Supply and fabrication of close circuit junction boxes 16 SWG to be concealed in wall with 2 coats of antirust paint, earthing terminal, complete in all respects.				
	Appendix ' c' Page No-24	Junction boxes of appropriate size 4"x7".	1.00	Nos.		
B.18		DATA, WIFI SYSTEM				
i		<u>POWER CABLE</u>				
	Appendix ' c' Page No-17	Supply, Installation and commissioning of wiring for Power with flexible 3C, 2.5 Sq.mm, Fire Resistant Shielded Cable (Fire Rating for 2 hours) in prelaid conduit from prelaid Conduit. Make Delpro (UK), Belden, Covican (Italy), or as specified in appendix-A as approved equivalent by engineer's Incharge or consultants, Actual quantities shall be measured as per site & paid accordingly. Complete in all respects	600	Rft		
ii		<u>Computer Outlet</u>				
	Appendix ' c' Page No-34	Supply and installation of Single Shutter Face Plate with bracket and UTP Cat-6 Keystone Jack make : Delpro, clipsal, 3M,complete in all respect as approved by the site incharge. RJ-45 outlet, included cost of Wall boxes.	270	Each		
iii		<u>Computer Cables</u>				
	Appendix ' c' Page No-25	Supply, Installation and commissioning of wiring as per drawing wired with CAT- 6 23 AWG, UTP Cable UL Listed, run in pre laid conduit from CCTV point to Data Switcher, including all installation accessories. Make Delpro (UK), Belden /Schneider or as specified in appendix-A as approved equivalent by engineer's Incharge or consultants, Actual quantities shall be measured as per site & paid accordingly. Complete in all respects	24300	Rft		
vi		<u>Floor Level Data Cabinet Wall Mounted</u>				
	Appendix ' c' Page No-36	Supply and installation of 12U (600 x 450mm) wall mounted data cabinet with front glass door, two side opening, two way fans with 06 sockets power distribution unit, complete in all respect. Make Norden, Hp, Dell.	16	Each		
viii		<u>WIFI ACCESS POINT</u>				
	Appendix ' c' Page No-67	Supply, installation and connections of wireless wave two Wi-Fi access point or equivalent 2533Mbps dual-band, 802.11 abgn/ac with 20,40,80 MHz Channel width Support 4x4:4 streams, Beam Flex, Dual Polarized Integrated smart Directional antenna array. Auto-sensing 10/100/1000 Mbps, RJ-45 Power over Ethernet (PoE) Integrated 24 Antenna elements with more than 3000 Antenna Patterns, 15db interference mitigation, make Ruckus, Aruba, Linksys or as specified in appendix-A as approved by engineer's Incharge or consultants, Actual quantities shall be measured as per site & paid accordingly. Complete in all respects	17	Each		
ix		<u>Computer Junction Box(CJB)</u>				
		Supply, installation of computer junction box 16 SWG to be concealed in wall with 2 coats of antirust paint, earthing terminal, complete in all respects.				
	Appendix ' c' Page No-24	Computer Junction Box Size: 4"x7"x4" deep.	1	No.		
B.19		TELEPHONE SYSTEM				
i		<u>Telephone Outlet</u>				
a	Appendix ' c' Page No-38	Supply and installation of Single Shutter Face Plate including I/Os with bracket and UTP Cat-6 Keystone Jack make : Norden, clipsal, 3M,complete in all respect as approved by the site incharge. RJ-45 outlet, including Plastic Wall Box Clipsal	298	Each		
b	Appendix ' c' Page No-39	Supply and installation of Double Shutter Face Plate including I/Os with bracket and UTP Cat-6 Keystone Jack make : Norden, clipsal, 3M,complete in all respect as approved by the site incharge. RJ-45 outlet, including Plastic Wall Box Clipsal	12	Each		
ii		<u>CAT-6 CABLE FOR TELEPHONE SYSTEM</u>				
	Appendix ' c' Page No-25	Supply, Installation and commissioning of wiring as per drawing wired with CAT- 6 23 AWG, UTP Cable UL Listed, run in pre laid conduit from CCTV point to Data Switcher, including all installation accessories. Make Delpro (UK), Belden /Schneider or as specified in appendix-A as approved equivalent by engineer's Incharge or consultants, Actual quantities shall be measured as per site & paid accordingly. Complete in all respects	23250	Rft		
iii	Appendix ' c' Page No-40	Supply and installation of 50 Pair Cable UG/PVC (0.4 - 0.5 mm sq) Telephone Cable (From JB to MDF)	3400	Rft		
iv		<u>Telephone Junction Box 50 Pairs (TJB)</u>				
	Appendix ' c' Page No-42	Supply, installation and commissioning of telephone junction box 250/5 make Krone Germany Krone No. 6525/1/022/00 of approved colour, designation label as per drawing, including disconnecting modules of 30 Nos. Type 2/10 LSA Plus Profile Krone Germany No. 6089/1/102/02 for incoming and out going telephone cables, all necessary accessories complete in all respects Telephone Junction Box 50 Pairs (TJB)	10	No.		
B.20		Earthing System				
i		<u>Earthing System - Bore Type</u>				
		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.				
	Appendix ' c' Page No-44	Bores for earthing body	6.00	No		
ii		<u>G.I. Pipe</u>				
	Appendix ' c' Page No-45	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.	600.00	Rft		
iii		<u>Tinned Copper Spike</u>				

	Appendix ' c' Page No-46	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.	6.00		Nos		
iv		Copper Conductor					
	Appendix ' c' Page No-47	Supply at site, installation and connections of earthing leads consisting of stranded electrolytic copper conductor of purity 99.9%, 70mm sq. to be installed in prelaid 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.	1,080.00		Rft		
v		Earth Connecting Points (ECP)					
	Appendix ' c' Page No-48	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).	6.00		Nos		
vi		Man Hole for Earthing					
	Appendix ' c' Page No-49	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.	6.00		Nos		
B.21		HT Consumer / Protection Panel					
	Appendix ' c' Page No-68	Supply , installation , testing and commissioning of HT consumer / protection panel factory fabricated and tested, manufacture by (SIMENS / Tariq Electric / PEL / FICO make only), consist of 12 SWG mild steel sheet fabricated floor mounted free standing one cubical indoor type (I.P 54) total enclosed with hinged front doors, the panel designe suitable for 11KV three phase 50 Hrз AC system, high conductivity, hard drawn electrolytic copper bus bars of adequate curren carrng capacity and short circuit raiting copper interconnections, internal wiring and cables, termination arrangements, using HT Raychem Heat Shrinkable termination kit German for 3 core HT Armoured cable of appropriate size as per wapda spacification and fineshed with RAL- 7032 powder coating baked. Equiped with following compnents (All components used should be from WAPDA approved list). - HT. CONSUMER/PROTECTION PANEL	1.00		Each		
B.22		Power Transformer					
	Appendix ' c' Page No-69	Supply at site, installation, testing and commissioning of new step down power transformer indoor type manufactured according to BSS-171, IEC- 76 or VDE-0532, specifications and consisting of the under mentioned items.Filling device, drain plug, oil level indicator, lifting hooks, bi-directional roller wheels, H.V. & L.V. porcelain bushings, off load tap changer, 2 earthing terminals, conservator and silica gel breather, thermometer pocket with thermometer, imported double float buckholz relay, pressure relief vent, dial type thermometer with alarm & trip contacts, rated Voltage 11000 / 415 / 230 Volts, suitable for an ambient temperature of 50°C, winding temperature 55°C and oil temperature 45°C, impedance 6% or as specified by IEC, system earth: Delta-Y, neutral solidly earthed (DYN-II), transformer oil, I.P - 54. The transformer shall be suitable for loading of 100% continuous maximum rating with "ONAN" cooling without exceeding the thermal limit. all necessary accessories / materials, including submission of technical data sheet, complete in all respects and as approved by the Engineer. - 2000 KVA	1.00		Each		
B.23		HT Power Cables					
	Appendix ' c' Page No-70	Supply, installation and commissioning of XLPE insulated, copper tape screened PVC / SWA / PVC, 11 KV- Aluminum conductor cable manufactured by Pakistan cables , Newage Cables , Fast Cables or Eqv. Cables or approved equivalent, as specified in wapda standers to be laid in prelaid trenchd / in pre-laid conduits including cost of connections conforming to general specification, complete in all respect as per satisfaction of the Engineer Incharge. ii) 3 core 120 mm.sq. 15KV XLPE insulated un armoured cable from HT Protection panel to Transformers	150		Rft		
B.24		Heat Shrinkable Termination Kits					
	Appendix ' c' Page No-71	Suply at work, lying, testing, & commissioning of following HT out door & Indoor heat shrinkable termination kits of Raychem /3-M/Cellpack for 3 core cables already laid under work Sr. No. 0.04 in the trenches including cable glands etc and miscellaneous materials and installation as per requirements, standard specifications, & to the approval of the consultant / Engineer. Outdoor type (for 120mm Sq) Indoor type (for 120mm Sq)	1 3		Each Each		
		Total "B"(Schedule items) C/o to Summary of Cost:					
		Net Total (A+B)					

HVAC WOKS

Item No.	REF. Nos CH/ITEM	Description of Items	Qty		Unit	Rate (Rs.)	Amount (Rs.)
		NON SCHEDULE ITEM-B					
1		Supply & Installation of All DC Inverter Controlled Variable Refrigerant Flow (VRF) Heat Pump Type Multi Split A/c System complete with built-in Auto Control System & Central Controller System with display (Tablet) including unloading, Lifting, placing and Fixing at foundation at locations shown on drawing including testing & commissioning, make Zero, Rivast, Sj-Bush, Hechen, Delpro (UK)					
	a)	Outdoor Condensing Units					
		POU-1	9		No.		
		POU-2	4		No.		
		POU-3	2		No.		

		POU-4	1		No.		
		POU-5	2		No.		
		POU-6	1		No.		
		POU-7	2		No.		
		POU-8	1		No.		
		POU-9	2		No.		
	b)	Indoor Units					
		Wall Mounted Type Indoor Units					
		IDU-1	8		Nos.		
		IDU-2	125		Nos.		
		IDU-3	155		Nos.		
		IDU-4	67		Nos.		
2		Supply and Installation of Gas & Liquid Copper Piping & Fittings Complete with 19mm thick Elastomeric Closed Cell nitrile rubber foam insulation protected with PVC Tape, clamps/hangers/supports and all other related material for installation purpose complete in all respect as specified.					
		Ø 1/2"	4337		Rft		
		Ø 1/4"	2309		Rft		
		Ø 3/8"	5904		Rft		
		Ø 5/8"	5676		Rft		
		Ø 3/4"	2092		Rft		
		Ø 7/8"	378		Rft		
		Ø 1"	120		Rft		
		Ø 1-1/8"	2490		Rft		
		Ø 1-3/8"	1329		Rft		
		Ø 1-5/8"	529		Rft		
		Ø 2-1/8"	85		Rft		
	Note:	The Refrigerant pipe sizes as shown in drawing are indicative only. Pipe sizes may be vary brand to brand therefore the equipment supplier is responsible to verify the pipe sizing detail as given in drawings attached in accordance with their selected models of equipment being offered.					
3		Supply, Fabrication & installation of Refrigerant Distributer (Y-Type) Pipe Joints at locations recommended by manufacturer	1		Lot		
4		Supply & installation of 12" wide G.I Sheet Construction Pipe Tray with top covering required to install refrigerant pipes running at exposed roof	758		Rft		
5		Supply, fabrication and installation of PVC. piping & fittings, including hangers, anchor bolts, 6mm thick close cell foam insulation protected with PVC tape etc.					
		Dia 0.75 Inch	7055		Rft		
		Dia 1.0 Inch	2565		Rft		
		Dia 1.25 Inch	3233		Rft		
		Dia 1.5 Inch	536		Rft		
6		Supply & installation of HVAC related Electrical works as specified and as shown on the drawings complete with					
	a)	Electrical Panels					
		ACP-1	1		No		
		ACP-2	1		No		
	b)	Conduiting and wiring onward from ACP panels to HVAC equipment including control wiring	1		Lot		
	c)	Conduiting and wiring onward from outdoor condensing unit to indoor units including control wiring	1		Lot		
7		Painting of metal hangers and metal structures where installed as specified	1		Job		
8		Shop drawings and As-built drawings	1		Job		
9		Related Civil works including wall / slab cutting, patching, plastering etc. and construction of equipment foundations	1		Job		
10		Inspection, testing, Gas Charging and Commissioning of Complete system	1		Job		
		Total "B"(Schedule items) C/o to Summary of Cost:					

SUMMARY OF COST

CONSTRUCTION OF NEW FACULTY BUILDING (NO.3) AT BJ CAMPUS, IUB

NEW FACULTY BUILDING

ENGINEER'S COST ESTIMATE

S/N	DESCRIPTION	AMOUNT (Rs.)
A	SCHEDULED ITEMS	
1	• CIVIL WORK	
2	• INTERNAL PUBLIC HEALTH WORK	
3	• EXTERNAL PUBLIC HEALTH WORK	
4	• ELECTRICAL WORK	
	Sub Total (A) :	
	SCHEDULE ITEMS 430,837,460 /- X _____ % ABOVE /BELOW:	
	Net Total (A) :	
B	NON-SCHEDULED ITEMS	
1	• CIVIL WORK	
2	• INTERNAL PUBLIC HEALTH WORK	
3	• EXTERNAL PUBLIC HEALTH WORK	
4	• ELECTRICAL WORK	

5	• HVAC WORK	
	Sub Total (B) :	
	TOTAL (A+B) :	

CONSTRUCTION OF NEW FACULTY BUILDING (NO.3) AT BJ CAMPUS, IUB

NEW FACULTY BUILDING

ENGINEER'S COST ESTIMATE

CIVIL WORKS

Item No.	REF. Nos CH/ITEM	Description of Items	Qty		Unit	Rate (Rs.)	Amount (Rs.)
MRS, 1st BI-ANNUAL-2021 (1st JANUARY-2021 to 30th JUNE -2021) DISTRICT BAHAWALPUR							
		SCHEDULE ITEMS-A					
		Earth Work					
1	CH:3 item 47(a) P-33	Jungle clearance and removing within 100 ft. (30 m).a) light	74,000.00		1000 Sft		
2	CH:3 item 21(b) P-30	Excavation in foundation of building and other sructures, including debelling,dressing,refilling around structure with excavated eart,watering and ramming lead upto one chain 100ft and lift upto 5 ft.in ordinary soil.	317,563.31		1000 Cft		
3	CH:3 item 15 P-29	Filling, watering and ramming earth under floors:					
3.1	CH:3 item 15(i) P-29	i) with surplus earth from foundation, etc.	211,708.88		1000 Cft		
3.2	CH:3 item 2+17 (a,b &c) P-27 + 29	Earthwork excavation in ashes, sand and soft soil or silt clearance, undressed lead upto 2 km (2000 metre).	621,600.00		1000 Cft		
3.3	CH:3 item 25 (i) P-30	Compaction of earthwork with power road roller, including ploughing, mixing, moistening earth to optimum moisture) content in layers, etc. complete: i) 95% to 100% maximum modified AASHO dry density.	248,708.88		1000 Cft		
		Anti-Termite					
4	CH:25 item 42 P-164	Spraying anti-termite liquid mixed with water in the ratio of 1:40.	299,411.44		100 Sft		
		Plain and Reinforement Concrete					
5	CH:6 item 5 P-42	Cement concrete plain including placing, compacting , finishing and curing complete (including screening and washing of stone aggregate):-					
5.1	(i)	Ratio 1: 4: 8	25,680.65		100 Cft		
5.2	(f)	Ratio 1: 2: 4	24,089.69		100 Cft		
6	CH:6 item 6 P-42	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.):-					
6.1	(a)(ii)	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 i) above not requiring form work (i.e. horizontal shuttering) complete in all respects:-					
		Foundation					
6.1.1	(2)	Type B (nominal mix 1: 1½: 3)	90,758.11		Per Cft		
6.2	(a)(i)	Reinforced cement concrete slabs, beams, girders, Lintels and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:-					
		GROUND FLOOR					
6.2.1	(a)(i)(2)	Type B (nominal mix 1: 1½: 3)	118,788.72		Per Cft		
		FIRST FLOOR					
6.2.2	(a)(i)(2)+(d)	Type B (nominal mix 1: 1½: 3)	75,528.35		Per Cft		
		MUMTY					
6.2.3	(a)(i)(2)+(dx2	Type B (nominal mix 1: 1½: 3)	6,914.72		Per Cft		
		Carriage					
7	CH:1 item 1 P-3	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 366 kms From Sargodha (or approved quarry) to site of work)	75,996.03		100 Cft		
		Steel Reinforcement					
8	CH:6 item 9 (c) P-44	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) (c) Deformed bar (Grade 60)	1,225,380.44		100Kg		
9	CH:6 item 33 (b)(i) P-47	Providing and laying damp proof course of cement concrete 1:2: 4(using cement, sand and shingle), b) with 2 coats of bitumen :- i) 1½" thick (40 mm)	189.20		100 Sft		
10	CH:6 item 25 P-46	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:-					
10.1	a)	On interior surface (without mastic strip)	722.40		Per/Rft		
10.2	b)	On exterior surface (with mastic strip)	729.23		Per/Rft		
11	CH:6 item 32 (b) P-47	Providing and fixing thermopore (foamed polythene) sheet in horizontal and vertical expansion joints:					
11.1		b) 1½" (40 mm) thick thermopore sheet	9,941.40		Per/Sft		
12	CH:6 item 12 P-44	Providing and fixing ornamental cement jali 2" (50 mm) thick	3,402.00		Per Sft		
		Brick Work					

13	CH:7 item 4 (i) P-51	Pacca brick work in foundation and plinth in:-Cement, sand mortar:-Ratio 1:6	20,162.26		100 Cft		
14	CH:7 item 4 (i) P-51	Pacca brick work in foundation and plinth in:-Cement, sand mortar:-Ratio 1:4	2,175.76		100 Cft		
		GROUND FLOOR					
15	CH:7 item 5 (i) P-52	Pacca brick work in ground floor :- Cement, sand mortar:-Ratio 1:6	71,374.26		100 Cft		
16	CH:7 item 5 (i) P-52	Pacca brick work in ground floor :- Cement, sand mortar:-Ratio 1:4	2,049.86		100 Cft		
		FIRST FLOOR					
17	Ch-7 item 5 (i) & 6 (i) P-52	Pacca brick work in first floor:- Cement, sand mortar:-Ratio 1:6	78,428.87		100 Cft		
18	CH:7 item 5 (i) P-52	Pacca brick work in first floor :- Cement, sand mortar:-Ratio 1:4	2,049.86		100 Cft		
		MUMTY					
19	Ch-7 item 5 (i) & 6 (ii) P-52	Pacca brick work in second floor:- Cement, sand mortar:-Ratio 1:6	2,416.05		100 Cft		
20	Ch-7 item 9 P-53	Extra labour for arch work in brick masonry, including labour for centring and decentring.	140.96		100 Cft		
21	Ch-7 item 13 P-53	Extra for face work (half brick thick) using special bricks instead of first class bricks.	16,637.37		100 Cft		
		Flooring					
22	Ch-7 item 30 P-56	Supplying and filling sand under floor; or plugging in wells	25,727.39		100 Cft		
23	Ch-10 item 3 P-66	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	44,235.08		100 Cft		
24	Ch-10 item 23 P-68	Providing and laying floor of mosaic marble chips tiles 1"(25 mm) thick of approved quality and shade, laid in white cement and pigment, over ¾"(20 mm) thick bedding of cement sand mortar 1:2, including finishing and polishing, complete.	2,973.60		100 Sft		
25	Ch-10 item 35 (b) P-69	Tile skirting laid in 1:2 cement mortar, over ¾"(20 mm) thick cement mortar, 1:2 including cement washing and filling joints complete:- (b) mosaic tiles	226.80		100 Sft		
26	Ch-10 item 42 (a) P-70	Providing and fixing marble strip of any shade for dividing the mosaic flooring into panels a) Size 1½" x 3/8" (40 x 10 mm)	1,873.37		Per Rft		
27	Ch-10 item 43 (a) P-70	Providing and layingTuff pavers ,having 7000 PSI, crushing strength of approved manufacturer, over 2" to 3" sand cushion i/c grouting with sand in joints i/c finishing to require slope . complete in all respect.(50% Grey / 50% Coloured) a) 50-mm thick	7,875.00		P.Sft		
		Surface Rendring					
28	Ch-11 item 10 (b) P-72	Cement plaster ratio 1:3 under soffit of RCC roof slabs only , upto 20' height. 3/8" (10 mm) thick. (ceiling plaster)	79,178.73		100 Sft		
29	Ch-11 item 9 (b) P-72	Cement plaster 1:4 on internal walls upto 20' (6 m) height, 1/2" (13 mm) thick.	349,822.91		100 Sft		
30	Ch-11 item 9 (c) P-72	Cement plaster 1:4 on external walls upto 20' (6 m) height, 3/4" (20 mm) thick.	17,668.35		100 Sft		
31	Ch-11 item 9 (c) & 28 P-72-74	Cement plaster 1:4 on external walls upto 30' (9 m) height, 3/4" (20 mm) thick.	3,788.40		100 Sft		
32	Ch-11 item 9 (c) & (28x2) P-72-74	Cement plaster 1:4 on external walls upto 40' (12 m) height, 3/4" (20 mm) thick.	14,165.55		100 Sft		
		Wood Work					
33	Ch-12 item 18 (iii) P-78	Providing and fixing sliding bolt to doors:- iii) brass sliding bolt, 10" (250 mm) long	416.00		Each		
		Painting and Warnishing					
34	Ch-13 item 31 (a)+(bx2) P-89	Preparing surface and painting with emulsion paint:- 3 Coats New Surface	456,830.79		100 Sft		
35	Ch-13 item 32A (a)(i+ii) P-89	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:- 2 Coats New Surface	37,403.42		100 Sft		
36	Ch-13 item 7 P-87	French polishing complete:-	24,351.60		100 Sft		
		Roofing & Water Proofing					
37	Ch-9 item 45 (c) P-65	Providing and Laying Insulation material of Extruded Polystyrene XPS in Rigid Insulation / Foam Board on roof or walls, Density 32-38 Kg/M, compressive strength 250-400kpa,R-value 5 per inch thickness and water obsorption (1% by volume, cell structure clored cell) i/c cutting and placing in position. complete in all respect.c) 2" thick	82,692.88		100 Sft		
38	Ch-9 item 5 P-60 + Ch-26 item 37(ii x2) P-163	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.i/c P/L double layer polythene sheet 500 gauge	82,692.88		100 Sft		
39	Ch-9 item 15 P-62	Khuras on roof 2'x2'x6" (600 x 600 x 150 mm).	52.00		Each		
40	Ch-9 item 16 P-62	Bottom Khuras of brick masonry in cement mortar 1:6, 4'x2'x4½" (1200x600x113 mm) over 3" (75 mm) cement concrete 1:4:8.	52.00		Each		
		Total "A"(Schedule items) C/o to Summary of Cost:					
		NON SCHEDULE ITEMS-B					
		Flooring					
		Excavation Upto any Depth					

1	N.S	Structural excavation in any kind of soil above / below water level for levelling and grading of building, for raft / foundations and other structures upto any depth, and disposal of unsuitable / surplus excavated material outside the project premises at any lead, including restoration of any damages during excavation is the responsibility of contractor complete in all respects as per Specifications and as per approval of The Engineer.	216,657.10		Per/Cft		
2	N.S	Providing and laying structural pad of granular fill material mixture of 50% sand and 50% crushed stones compacted to 95% maximum modified "AASHO" dry density i/c carriage of all materials at site complete in all respect as approved by The Engineer.	62,567.66		Per/Cft		
		Flooring					
3	N.S	Providing and laying Porcelain tiles flooring (full body) 16" x 16" Master, or approved equivalent laid over 3/4" thick cement sand mortar (1:3) including setting the tiles with Bond (Stile, or approved equivalent) i/c filling joints with Grout (Stile, or approved equivalent) of matching color i/c cutting, leveling, washing and curing complete in all respect as per Specifications, and as per sample approved by The Engineer. (Imperial (IMPG) Dark Color Polished SB)	99,042.64		Per/Sft		
4	N.S	Providing and laying Granite tiles flooring (full body) 24" x 24" Master, or approved equivalent laid over 3/4" thick cement sand mortar (1:3) including setting the tiles with Bond (Stile, or approved equivalent) i/c filling joints with Grout (Stile, or approved equivalent) of matching color i/c cutting, leveling, washing and curing complete in all respect as per Specifications, and as per sample approved by The Engineer. (Granite with dry/wet/venied application,DWV series Polished (Light color)class SB)	42,400.97		Per/Sft		
		Skirting / Dado					
5	N.S	Providing and laying Porcelain tiles flooring (full body) 16" x 4" Master, or approved equivalent laid over pre-plastered surface including setting the tiles with Bond (Stile, or approved equivalent) i/c filling joints with Grout (Stile, or approved equivalent) of matching color i/c cutting, leveling, washing and curing complete in all respect as per Specifications, and as per sample approved by The Engineer. (Imperial (IMPG) Dark Color Polished SB)	35,118.83		Per/Sft		
6	N.S	Providing and laying Granite tiles flooring (full body) 24" x 4" Master, or approved equivalent laid over pre-plastered surface including setting the tiles with Bond (Stile, or approved equivalent) i/c filling joints with Grout (Stile, or approved equivalent) of matching color i/c cutting, leveling, washing and curing complete in all respect as per Specifications, and as per sample approved by The Engineer. (Granite with dry/wet/venied application,DWV series Polished (Light color)class SB)	2,767.83		Per/Sft		
		Windows Sill					
7	N.S	Providing and fixing 3/4" thick Pre-polished Granite Marble Slab uniform texture full width and length laid over 3/4" thick cement sand mortar (1:3) including setting the tiles with Bond (Stile, or approved equivalent) i/c filling joints with Grout (Stile, or approved equivalent) of matching color i/c cutting, leveling, washing, curing and beveling charges on exposed edges complete in all respect as per Specifications, and as per sample approved by The Engineer.	2,349.90		Per/Sft		
		Entrance Steps / Podium					
8	N.S	Providing and fixing 3/4" thick pre-polished Granite Marble Slab uniform texture full width laid over 3/4" thick cement sand mortar (1:3) including setting the tiles with Bond (Stile, or approved equivalent) i/c filling joints with Grout (Stile, or approved equivalent) of matching color i/c cutting, leveling, washing, curing and beveling charges on exposed edges complete in all respect as per Specifications, and as per sample approved by The Engineer.	1,228.50		Per/Sft		
		Stair Steps					
9	N.S	Providing and laying Pre-polished Black Granite (supreme quality) slabs laid over 3/4" thick cement sand mortar (1:3) including setting the tiles with Bond (Stile, or approved equivalent) i/c filling joints and washing the tiles with Grout (Stile, or approved equivalent) of matching color i/c cutting, leveling, washing, curing and beveling charges on exposed edges, i/c anit-slip treads with carborundum powder and silicon mixture in thee rows complete in all respect as per Specifications, and as per sample approved by The Engineer.					
9.1	a)	3/4" thick Pre-polished Black Granite (supreme quality) one-piece slab of length and width as shown on drawings, rounded smooth of stairs and entrance steps.	2,629.46		Per/Sft		
9.2	b)	3/4" thick Pre-polished Black Granite (supreme quality) slabs of length and height as shown on drawings, over risers of stairs and entrance steps.	1,018.24		Per/Sft		
		Laminated Wooden Flooring					
10	N.S	Providing and laying, jointing etc. Laminated Wooden Floor (200mmX1200mmx8mm) (Malaysian, turkey or approved equivalent) of approved color and shade at floor i/c the cost of jumbo lawn, Nail, edging & Fixing etc. as approved by The Engineer, complete in all respects.	3,939.60		Per/Sft		
11	N.S	Providing and laying, jointing etc. Laminated Wooden Floor (200mmX1200mmx8mm) (Malaysian, turkey or approved equivalent) of approved color and shade at floor i/c the cost of jumbo lawn, Nail, edging & Fixing etc. as approved by The Engineer, complete in all respects.Dado/ Skirting	846.30		Per/Rft		
		Vanity / Kitchen Counter Top					
12	N.S	Providing and fixing 3/4" thick pre-polished Black Granite one-piece marble slabs Kitchen / Vanity Counter etc; laid over 3/4" thick cement sand mortar (1:3) including setting the tiles with Bond (Stile, or approved equivalent) i/c filling joints and washing the tiles with Grout (Stile, or approved equivalent) of matching color i/c cutting, leveling, washing, curing and beveling charges on exposed edges complete in all respect as per Specifications, and as per sample approved by The Engineer.	697.20		Per/Sft		
		Miscellenious					

13	N.S	Providing and fixing 1-1/2" Oak Wood Door shutter (Red Oak-859 imported) With Oak wood architraves on both sides, including polishing with lacquer polish (including preparation of surface, applying priming coat, rubbing etc.); or approved equal; all rough and finished hardware complete in all respects as per drawings and Specifications, including handles, tower bolt 18" (A/B Heavy) etc., as per sample approved by The Engineer.	12,175.80		Per/Sft		
14	N.S	Providing and fixing uPVC Door, including PVC door frame, with hinges, latch lock, tower bolt, handle & hardware manufactured by ("FRAMEZ, ZEALCON" or approved equivalent) complete in all respects, and as per sample approved by The Engineer.	1,176.00		Per/Sft		
15	N.S	Providing and fixing imported Handle Locks with 3 keys, to wooden doors (Hungry" or approved equivalent) complete in all respects, and as per sample approved by The Engineer.	416.00		Per/Sft		
16	N.S	Providing and fixing M.S. Sheet hollow pressed 'frame of doors, '(Chowkhat only) of 16 SWG welded / supported with M.S. flat 1-1/4"x1/8" (7-Nos.) i/c screwed 4" (100mm) long iron hinges including fitting chowkhat with cement sand mortar 1:8 and embedding hold fast in cement concrete 1:2:4 complete in all respects, as approved and directed by The Engineer.	2,785.65		Per/Sft		
17	N.S	Providing and fixing M.S grill consisting of 1" x 1", 16-SWG M.S square pipe frame with 2 rows of horizontally & equal dividing panels vertically in the same frame and 1/2" M.S square bars 5" c/c welded to each an other & frame horizontally with 2 rows of equal dividing in three panels vertically as per approved drawing and design in windows i/c hold fast, grouting hold fast in cement concrete (1:2:4) and enamel painting 3-coats with one base coat of red oxide paint complete in all respect as approved and directed by The Engineer.	11,491.20		Per/Sft		
18	N.S	Providing and fixing all types of double glazed aluminium windows / ventilator of approved colour partly fixed and party sliding using deluxe section of approved manufacturer having Frame of size 100mm x 30mm using frame at bottom, at top and side leaf leaf frame sections of 60mm x 23mm at top & bottom and size 45mm x 25mm at center and size 45mm x 25mm at sides, Jali leaf frame size 43mm x 13mm i/c fine quality aluminum jali, (5 mm + 8 mm AGU+ 5 mm) imported tinted glass with rubber gasket using approved standard latches, wheel, stopper, brush chennel angle joint and hardware etc. complete in all respect. 2 mm thick	11,491.20		Per/Sft		
19	N.S	Providing and fixing stainless steel non-magnetic railing consisting of main pipe 2" dia 16 SWG imported (China) & 3' height balustrades @ 2' C/C consisting of 1-1/2" to 2" wide and 3/16" thick 2-No stainless steel strips with studs i/c 3/4" dia 16 SWG 3-No stainless steel pipes longitudinally passing in between the strips of balustrades i/c bends, base plate etc with Bottom stainless steel "tiki" & cover, fixing with rowal bolt (3" to 2½" long) i/c steel polishing etc complete in all respect as approved by the Engineer Incharge (All members will be of non magnetic).	640.50		Per/Rft		
20	N.S	Providing and fixing Kitchen Cabinets comprising of 3/4" thick MDF Laminated (both sides laminated) for front shutter of approved colour and texture with kail wood frame (3"x1") and best quality hardware's (handles, locks, latches, Hinges & screws etc.) with deodar wood lipping(1/2"x3/4") and polishing / enamel painting, termite proofing including all type of labour, as shown on drawings complete in all respects as per sample approved by The Engineer. (Floor Mounted Cabinet)	184.80		Per/Sft		
21	N.S	Providing and fixing Kitchen Cabinets comprising of 3/4" thick MDF Laminated (both sides laminated) for front shutter of approved colour and texture including ¾" (20 mm) thick Vin Board Sheet boxing and hard board for back with kail wood frame (3"x1") and best quality hardware's (handles, locks, latches, Hinges & screws etc.) with deodar wood lipping(1/2"x3/4") and polishing / enamel painting, termite proofing including all type of labour, as shown on drawings complete in all respects as per sample approved by The Engineer. (Wall Mounted Cabinet)	134.40		Per/Sft		
22	N.S	Providing and Fixing Gypsum board 24"x24" false ceiling make DFB or Approved Equivalent with 10mm thinness with aluminum foil on the back of tile fixed on imported CKM Tees and Fittings and supported with local angle with G.I 16 Guage at appropriate distance i/c cost of hooks, clamps, carriage and labour charges at any height etc complete in all repect and as per satesfaction of The Engineer.	54,356.40		Per/Sft		
23	N.S	Providing and Fixing Decorative Gypsum Board False-Ceiling (4'x8'x3/8") of approved design by The Engineer, including approved support and hanging system and all accessories by (Thermec or approved equivalent) and as per Specifications, as shown on drawing complete in all respect as per Manufacturer's instructions, including all strengthening and edge trimming for supports for light fittings, diffusers etc., and for making openings, complete including cleaning and finishing, as per sample approved by The Engineer.	6,075.30		Per/Sft		
24	N.S	Providing and fixing Stone Texture Tile on facing of approved size color and shade laid over pre-plastered surface including setting the tiles with Bond (Stile, or approved equivalent) i/c filling joints with Grout (Stile, or approved equivalent) of matching color i/c cutting, leveling, washing, curing and cost of scaffolding fixing at any height in any floor, complete in all respect as per Specifications, as approved by The Engineer.	982.80		Per/Sft		
25	N.S	Providing and Fixing Chicken Wire Mesh (12" Wide) for horizontal and vertical joints of masonry and concrete with nails and screws i/c all cost of labour and material complete in all respects, as approved by The Engineer.	35,837.55		Per/Rft		
26	N.S	Providing and laying wall ties (anchor bars) 2/8"dia placed at horizontal and vertical spacing in cavity wall of any description in any floor at any height, and make joint b/w concrete and brick work i/c drilling hole in R.C.C columns tying with brick masonry wall , 3-#2 @ every 4th horizontal and vertical course complete in all respects as shown in drawings and approved by The Engineer.	22850.10		Each		
27	N.S	Providing and fixing Steel Lockers 2' deep consisting of M.S angle iron frame 1" x 1" x 1/8" with leaf frame of M.S angle iron 1" x 1" x 1/8" with M.S sheet of 20-SWG front shutter, top, bottom, left, right & back and best quality hardware's (handles, locks, latches, Hinges & screws etc.) i/c welding charges with 3-coat of hammer paint, complete in all respect as approved by The Engineer.	330.75		Per/Sft		

28	N.S	Supply, provide and fix in position uPVC rain water down pipe lines conforming to ISO 3633:1991 and BS 3505 1968 (wall thickness 3.2mm) including proper joints complete in all respects, and system leak-free:				
		4" dia	1,411.20		Per/Rft	
29	N.S	Provide and fix uPVC plain bends with grating (as rain water inlets at roof), water tight connection leak-free:				
		4" dia	52.00		Each	
30	N.S	Provide and fix uPVC shoe bends (as rain water outlets), water tight connection leak-free				
		4" dia	52.00		Each	
		Total "B"(Schedule items) C/o to Summary of Cost:				
		Net Total (A+B)				

INTERNAL PUBLIC HEALTH WORK

Item No.	REF. Nos CH/ITEM	Description of Items	Qty		Unit	Rate (Rs.)	Amount (Rs.)
MRS, 1st BI-ANNUAL-2021 (1st JANUARY-2021 to 30th JUNE -2021) DISTRICT BAHAWALPUR							
		<u>Schedule Items (A)</u>					
		Plumbing Fixtures					
1	Ch 19 item 17/P-113	Providing and fixing, chromimum plated toilet paper holder	92		Each		
2	Ch 19 item 18(i)/P-114	Providing and fixing, chromium plated towel rail:- i) 60 cm (24") long, and 2 cm (¾") dia	44		Each		
3	Ch 19 item 22(iv)/P-114	Providing and fitting:- iv) plastic shelf 60x13 cm (24"x5") with bracket and railing.	20		Each		
4	Ch 19 item 19/P-114	Providing and fixing looking glass 55x40 cm (22"x16") size and 5 mm thick, first quality. (For pedistal)	20		Each		
5	Ch 19 item 15/P-113	Providing and fixing, chromium plated soap dish.	84		Each		
Total "A"(Schedule items) C/o to Summary of Cost:							
		<u>Non Schedule Items (B)</u>					
		Plumbing Fixtures					
1	NS	Providing and fixing European type ceramics ware coupled water closet, white / light colour, including 3 gallons cistern, P/S trap, C.P tee stop cock with wall cups, connection pipes, "Porta or Approved Equivalent", hinged double bacolite seat and cover of best quality, all joints to services and drains, plugging and screwing as necessary to the structure and make good the same, complete in all respect as per specifications and drawings.	52.00		Each		
2	NS	Providing and fixing European type ceramics ware coupled water closet, white / light colour, including 3 gallons cistern, P/S trap, C.P tee stop cock with wall cups, connection pipes, "Porta or Approved Equivalent", hinged double bacolite seat and cover of best quality, all joints to services and drains, plugging and screwing as necessary to the structure and make good the same, complete in all respect as per specifications and drawings.(for Disable)	8.00		Each		
3	NS	Providing and fixing Asiatic/Orissa pattern glazed earthen ware W.C with integral foot rest,white / light colour, with 3 gallons low level flushing tank system, 1-1/2" dia, PVC (D-type) flush pipe, "P" or "S" trap best quality "Porta or Approved Equivalent" make, C.P tee stop cock with wall cups, "SONEX", "MASTER" painted M.S. wall brackets with nuts and bolts, complete in all respect as per specifications and drawings.	32.00		Each		
4	NS	Providing and fixing wash hand basin vanity, white / light colour, C.P. tee stop cock with wall cups, "Porta or Approved Equivalent", waste couplien, plug with C.P. brass chain, 1-1/2" dia. P.V.C. (D-type) Waste pipe, connections to water lines, C.P. brass union, nuts, washers, C.P. grating including C.P. bottle trap etc.Complete in all respect as per specifications and drawings.	64.00		Each		
5	NS	Providing,Installing and fixing wash hand basin Padestal type "Porta or Approved Equivalent" with waste coupling ,cp nozzle & which includes but not limited to fixing, connection pipes, connections to water lines,C.P. brass union, nuts, washers, etc. complete in all respect as per specifications and drawings and as directed by the Engineer.	12.00		Each		
6	NS	Providing,Installing and fixing wash hand basin Padestal type "Porta or Approved Equivalent" with waste coupling ,cp nozzle & which includes but not limited to fixing, connection pipes, connections to water lines,C.P. brass union, nuts, washers, etc. complete in all respect as per specifications and drawings and as directed by the Engineer.(for Disable)	8.00		Each		
7	NS	Providing and fixing stainless steel kitchen sink of 20 gauge of "Porta or Approved Equivalent" including, brackets, screws,15 mm dia. C.P. brass T. stop cocks of Master, Sonix, 40 mm dia heavy duty waste coupling and PVC flexible waste pipe of approved make and quality complete all respects.	8.00		Each		
8	NS	Providing and fixing C.P. Muslim Shower with double bib cock of best quality, with C.P. flexible pipe of "Porta or Approved Equivalent", complete in all respect as per specifications and drawings.	92.00		Each		
9	NS	Providing and fixing 15 mm dia C.P. mixer with C.P pipe 15 mm dia, of "Porta or Approved Equivalent", Porta or approved equal complete including pipe connections, all fittings, testing etc.					
		a) Wash basin mixer	84.00		Each		
		b) Sink mixer	8.00		Each		
		c) Ablution Double bib cock	16.00		Each		
10	NS	Providing and fixing best quality distortion free imported Belgium glass (beveled) mirrors 5mm thick with hard board backing, chromium plated screws/brackets, complete in all respects as per specifications and drawings.(for vanity)	320.00		Sft		
		Water Supply System					

11	NS	Providing, fixing, jointing and testing Polypropylene Random (PPR) pipes, VODA PIPES/(Polydex by DADEX) or approved equivalent, pressure pipe for cold/hot water as per DIN 8077-8078,PN-20 for pipes and DIN 16962,PN-25 for fittings (polyfusion welded joints) inside building including fittings and specials (sockets, tees, elbows, bends, crosses, reducers, adaptor, plugs and union etc.) supported on walls or suspended from roof slab or run in chases including pipe hangers, supports, cutting and making good the chases and holes, complete in all respects.				
		25mm dia	715		Rft	
		32mm dia	902		Rft	
		40mm dia	627		Rft	
		50mm dia	193		Rft	
12	NS	Providing and installing ball valves of following nominal dia, Scon/Kitz make or approved Equaivalent, including jointing, fitting, painting, testing, complete in all respects to match with PPR and PE pipes of following diameters.				
		25 mm	0		Nos.	
		32 mm	16		Nos.	
		40 mm	16		Nos.	
		50 mm	0		Nos.	
		Sewerage System				
13	NS	Providing, laying, fixing and testing uPVC Nicasi soil, waste, vent and rain water as per ISO 3633:1991 or equivalent BS specifications including uPVC fittings with solvent cement jointing or rubber ring joints,VODA PIPES/DADEX Or Approved Equivalent make as approved by the Engineer complete in all respects, including clamps, bends, tees, Y-tees, cowls, reducers, sleeves, clean out, waterproof sleeves, roof drain, etc., embedded in floors and walls, clamped to walls, suspended from slab (common hanger shall be used for pipe hanging and fiber glass tray under pipes), painted MS horizontal and vertical pipe hangers of approved design making requisite no. of holes and making good the same complete in all respect as per specifications and drawings.				
		2" i.d	1,020		Rft	
		3" i.d	1,791		Rft	
		4" i.d	2,522		Rft	
14	NS	Providing, fixing, cutting, jointing and testing uPVC Vent Cowel on Vent Pipes with solvent cement jointing, VODA PIPES/DADEX or approved equivalent, rates include cost of cutting & pipe fittings of the following diameter:				
		2" i.d	48.00		Nos	
15	NS	Providing, laying, fixing and testing floor drain (multifloor trap) uPVC including extension grating and stainless steel cover grating best quality local make Porta or Approved Equivalent as approved Engineer, complete in all respect as per specifications and drawings.	160.00		Nos.	
16	NS	Providing and fixing clean out with threads ferule fixed in pipe with the help of solvent, as shown on drawing, complete in all respects as per specifications and drawings.				
		3" i.d	50.00		Nos.	
		4" i.d	28.00		Nos.	
17	NS	Providing and making top khurra/R.W.C.B using 3" thick plain cement concrete 1:2:4 matching with roof tiles with steel trowel finishing at desired level including curing, finishing, complete in all respect as per specifications and drawings.				
		i) 1'x1'.	22.00		Nos.	
		ii) 2'x2'.	24.00		Nos.	
		Gas Supply System				
18	NS	Providing, laying, fixing, testing (at 90 psi) and disinfecting, galvanized iron pipelines for sui gas supply of "Jamal pipe Or Approved Equivalent", as per BSS 1387 medium quality, "IIL", and "KPM" as approved by the Engineer complete in all respects to their entire satisfaction, including specials such as tee, cross, reducer, bend, union, elbow, plug, socket etc., supported on walls or suspended from slab, including painted MS horizontal and vertical pipe hangers of approved design, supports, cutting and making good the same as necessary to the structure including two layers of anticorrosive bitumen tape overlapped 6mm at edges to all buried pipes, complete in all respect as per specifications and drawings.				
		3/4" i.d	230		Rft	
19	NS	Providing and installing ball valves of following nominal dia, Kitz make, including jointing, fitting, painting, testing, complete in all respects to match with following G.I pipe diameters.				
		3/4" i.d	8.00		No.	
20		Fire Extinguisher System				
		Providing, fixing, testing fire existuishers of following type, complete in all respects as per design drawings and as per satisfaction of the Engineer incharge				
20.1	NS	Dry Chemical Powder Type Fire Extinguisher Portable 4 kg ABC Powder Model PD4D	32.00		Each	
20.2	NS	CO2 Type Fire Extinguisher Portable 5 kg CO2 Model CD5D	32.00		Each	
20.3	NS	Fire Exit Lights Ceiling Mounted (Self Contained)	66.00		Each	
Total "B"(Schedule items) C/o to Summary of Cost :						
Net Total (A+B) :						

EXTERNAL PUBLIC HEALTH WORK

Item No.	REF. Nos CH/ITEM	Description of Items	Qty		Unit	Rate (Rs.)	Amount (Rs.)
MRS, 1st BI-ANNUAL-2021 (1st JANUARY-2021 to 30th JUNE -2021) DISTRICT BAHAWALPUR							
		<u>Schedule Items (A)</u>					
		Plumbing Fixtures					
		Water Supply System (For Pipe Line)					

1	Ch.3 Item 44/P-33	Excavation of trenches in all kinds of soil, except cutting rock, for watersupply pipelines upto 5 ft. (1.5 m) depth **8.1 after laying of pipe line, which is from ground level, including trimming, dressing sides, payable separately. leveling the beds of trenches to correct grade and cutting pits for joints, etc. complete in all respects.	8281		1000 Cft		
		Gas Supply System (For Pipe Line)					
2	Ch.3 Item 44/P-33	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.	5150		1000 Cft		
		Sewerage System (For Pipe Line)					
		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:- (FOR PIPES)					
3	Ch 3 item 42(i)/P-32	i) 0 ft. to 7.0 ft. (0 to 2.10 m) depth	10359		1000 Cft		
4	Ch 7 item 30/P-56	Supplying and filling sand under floor; or plugging in wells	1011		100 Cft		
		Septic Tank (2 Nos.)					
5	Ch.3 Item 42(i)/P-32	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	847		1000 Cft		
6	Ch.3 Item 42(ii)/P-32	ii) 7-01 ft. to 15.0 ft. (2.15 to 4.5 m) depth	363		1000 Cft		
7	Ch.6 Item5(i)/P-42	Cement concrete plain including placing compacting, finishing and curingcomplete (including screening and washing of stone aggregate): Nominal mix (1: 4: 8) having minimum 1500 Psi cylindrical compressive strength at 28 day	40		100 Cft		
8	Ch.6 item 6a(ii)2 /P-42	Providing and laying reinforced cement concrete (including prestressed concrete), using coarse sand and screened surface smooth, and the plastering graded and washed aggregate, in required shape and design, done for making up all surfaces including forms, moulds, shuttering, lifting, compacting, after removing centring. curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):-(a)(ii) 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) having minimum 3000 Psi cylindrical compressive strength at 28 days.	438		Per Cft		
9	Ch.6 item 6a(i)2 /P-42	(a) (i) 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) having minimum 3000 Psi cylindrical compressive strength at 28 days.	85		Per Cft		
10	Ch.6 Item 9(c)/P-44	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and chairs, etc.and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars):- ('c) Deformed bars (Grade-60)	1465		100 Kg		
11	Ch 21 Item, 15-A/P-124	Providing and fixing 6" thick R.C.C. manhole cover with tee shaped C.I. frame of 22" l/d (frame weighing 37.324 Kg. or one maund as per Standard Drawing STD/PD No. 6, of 1977, complete in all respect.	4		Per Set		
12	Ch 6 Item 28/P-46	Providing embedding 10" (250 mm) wide ¼" (6 mm) thick rubber water stopper in expansion joints of R.C.C. roof slab complete in all respects.	54		Rft		
13	Ch.13 Item 9/P-87	Bitumen coating to plastered or cement concrete surface					
		(i) 20 lbs. per 100 sft.	270		100 Sft		
14	Ch 10 Item 39/P-70	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: i) 3/8"(10 mm) thick	556		100 Sft		
		Gully Trap					
15	Ch 21 item 7(b)/P-123	Constructing gully grating chamber,12"x12", (300x300 mm) complete in all respects: b) concrete Gully trap.	20		Each		
Total "A"(Schedule items) C/o to Summary of Cost:							
		Non Schedule Items (B)					
		Water Supply System					
1	NS	Providing, fixing, jointing and testing Polypropylene Random (PPR) pipes, VODA PIPES/(Polydex by DADDEX) or approved equivalent, pressure pipe for cold/hot water as per DIN 8077-8078,PN-20 for pipes and DIN 16962,PN-25 for fittings (polyfusion welded joints) inside building including fittings and specials (sockets, tees, elbows, bends, crosses, reducers, adaptor, plugs and union etc.) supported on walls or suspended from roof slab or run in chases including pipe hangers, supports, cutting and making good the chases and holes, complete in all respects.					
		63mm dia	2,070		Rft		
2	NS	Providing and installing ball valves of following nominal dia, Scon/Kitz make or approved Equivalent, including jointing, fitting, painting, testing, complete in all respects to match with PPR and PE pipes of following diameters.					
		63 mm	1		Nos.		
		Sewerage System					
3	NS	Providing and fixing 1" malleable dia cast iron step, in Under ground tank , manhole, including carriage and setting the same in work to correct lines and levels.(for tanks)	28		Nos.		

4	NS	Providing, laying, fixing and testing uPVC Nicasi soil, waste, vent and rain water as per ISO 3633:1991 or equivalent BS specifications including uPVC fittings with solvent cement jointing or rubber ring joints,VODA PIPES/DADEX Or Approved Equivalent make as approved by the Engineer complete in all respects, including clamps, bends, tees, Y-tees, cowls, reducers, sleeves, clean out, waterproof sleeves, roof drain, etc., embedded in floors and walls, clamped to walls, suspended from slab (common hanger shall be used for pipe hanging and fiber glass tray under pipes), painted MS horizontal and vertical pipe hangers of approved design making requisite no. of holes and making good the same complete in all respect as per specifications and drawings.				
		6" i.d	949		Rft	
		8" i.d	583		Rft	
5	NS	Providing and constructing 2'x2' manhole with brick work including excavation, backfilling, RCC work PCC 1:2:4 cambering, plastering in 1:4 inside & outside, water proofing etc., upto 6' depth and size including ladder top slab, 18" heavy duty C.I. Manhole cover with frame "ALPINE INDUSTRIAL CON", "CME", "NPC SUPER" as shown on the drawings, complete in all respect as per specifications and drawings.	30.00		Nos.	
		Gas Supply System				
6	NS	Providing, laying, fixing, testing (at 90 psi) and disinfecting, galvanized iron pipelines for sui gas supply of "Jamal pipe Or Approved Equivalent", as per BSS 1387 medium quality, "IIL", and "KPM" as approved by the Engineer complete in all respects to their entire satisfaction, including specials such as tee, cross, reducer, bend, union, elbow, plug, socket etc., supported on walls or suspended from slab, including painted MS horizontal and vertical pipe hangers of approved design, supports, cutting and making good the same as necessary to the structure including two layers of anticorrosive bitumen tape overlapped 6mm at edges to all buried pipes, complete in all respect as per specifications and drawings.				
		3/4" i.d	1,288		Rft	
7	NS	Providing and installing ball valves of following nominal dia, Kitz make, including jointing, fitting, painting, testing, complete in all respects to match with following G.I pipe diameters.				
		3/4" i.d	1.00		No.	
8	NS	Providing, fixing & testing Gas meter as per Sui Northern gas with All Accessories.complete in all respect as per drawings,Specification & Engineer In Charge.	1.00		No.	
Total "B"(Schedule items) C/o to Summary of Cost :						
Net Total (A+B) :						

ELECTRICAL WORKS

Item No.	REF. Nos CH/ITEM	Description of Items	Qty		Unit	Rate (Rs.)	Amount (Rs.)
MRS, 1st BI-ANNUAL-2021 (1st JANUARY-2021 to 30th JUNE -2021) DISTRICT BAHAWALPUR							
		SCHEDULE ITEM-A					
		Internal Electrification					
A.01		Light Circuits					
		Supply, installation and commissioning of light circuit wiring, to be wired with 3x2.5mm sq. (1P+1N+1PE) PVC insulated 300/500 V grade wire make Pakistan Cable, Newage,Fast Cables, in and including cost of 1" dia. heavy duty PVC conduit make Beta , Popular recessed in , walls, Roof slab, or on surface or above false ceiling or as required as per site conditions, all PVC conduit accessories, pull boxes, steel pull wires , complete in all respects. Each circuit shall have independent PE.					
	CH: 24 Item 10 (a)-iii P-144	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 and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x 2.5 mm (7/0.029")	13,950.00		Rft		
	CH: 24 Item 3 (iii) P-143	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 25mm	3,487.50		Rft		
A.02		UPS Light Circuits					
		Supply, installation and commissioning of UPS light circuit wiring, to be wired with 1x2.5mm sq. (1UPS) PVC insulated 300/500 V grade wire make Pakistan Cable, Newage,Fast Cables, in pre installed 1" dia. heavy duty PVC conduit make Beta , Popular recessed in , walls, Roof slab, or on surface or above false ceiling or as required as per site conditions, all PVC conduit accessories, pull boxes, steel pull wires , complete in all respects					
	CH: 24 Item 10 (a)-iii P-144	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 and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x 2.5 mm (7/0.029")	3,750.00		Rft		
A.03		1-Light Point Controlled By One Switch					
		Wiring of one light point controlled by one switch and wired with 3x1.5 mm sq. (P+N+PE) PVC insulated wires 300/500 V. grade makePakistan Cable, Newage,Fast Cables, in and including cost of 3/4" dia. heavy duty PVC conduit make Beta , Popular installed on RCC slab, above false ceiling, recessed in wall, columns slabs or above light carrier all PVC conduit accessories, 3" high PVC junction boxes, pull boxes, steel pull wires, PVC flexible conduit from ceiling junction box to light fixture flush type plate switches, including cost of back boxes and switches of 10 Amps.					
	CH: 24 Item 10 (a)-i P-144	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 and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x 1.5 mm (3/0.029")	44,450.00		Rft		

	CH: 24 Item 3 (ii) P-143	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 20mm	14,816.67		Rft		
A.04		Point -Point Wiring					
		Same as per item No. A.03 but Loop wiring of a light point from first light point on same switch circuit, complete in all respects.					
	CH: 24 Item 10 (a)-i P-144	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 and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x 1.5 mm (3/0.029")	62,195.00		Rft		
	CH: 24 Item 3 (ii) P-143	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 20mm	20,731.67		Rft		
A.05		Exhaust Fan Point					
		Same as Item No. A.03 mentioned above but wiring of exhaust fan point including cost of 10 Amp switch with M.S box 16 SWG with earth terminal.					
	CH: 24 Item 10 (a)-i P-144	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 and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x 1.5 mm (3/0.029")	4,000.00		Rft		
	CH: 24 Item 3 (ii) P-143	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 20mm	1,333.33		Rft		
A.06		Ceiling Fan Point					
		Same as Item No. A.03 mentioned above but wiring of Ceiling fan point including cost of 10 Amp switch with M.S box 16 SWG with earth terminal.					
	CH: 24 Item 10 (a)-i P-144	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 and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x 1.5 mm (3/0.029")	23,880.00		Rft		
	CH: 24 Item 3 (ii) P-143	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 20mm	7,960.00		Rft		
A.07		Wall Bracket Fan					
		Same as Item No. A.03 mentioned above but wiring of Wall Bracket fan point including cost of 10 Amp switch with M.S box 16 SWG with earth terminal.					
	CH: 24 Item 10 (a)-i P-144	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 and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x 1.5 mm (3/0.029")	360.00		Rft		
	CH: 24 Item 3 (ii) P-143	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 20mm	120.00		Rft		
A.08		1-13 Amps Switch Socket					
		Supply and wiring of one 3pin 13 Amps light plug socket outlet point from distribution board with single core 2x4mm2(P+N) PVC insulated 300/500 volt grade cable in & including PVC conduit recessed in walls/R.C.C. slab, or installed on surface of Ceiling, all conduits accessories, junction boxes, pull boxes etc. 2.5mm2 cable as PC excluding cost of 3 pin 13 Amps switch & socket outlet make CLIPSAL, Legrand , ABB or approved equivalent installed on & including 16 SWG sheet steel board recessed in walls complete in all respects and as per specifications & drawings.					
	CH: 24 Item 10 (a)-iv P-144	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 and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x 4 mm (7/0.036")	24,840.00		Rft		
	CH: 24 Item 10 (a)-iii P-144	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 and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x 2.5 mm (7/0.029")	8,280.00		Rft		
	CH: 24 Item 3 (iii) P-143	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 25mm	8,280.00		Rft		
A.09		Loop-Loop- 13 Amps Switch Socket					
		Same as item No.A.12 above but loop wiring of 13A power socket outlet with 2x4mm2(P+N) & 1x2.5mm2 as CPC from point to point excluding cost of one 15A 3 pin switch socket outlets with make CLIPSAL, Legrand, ABB or approved equivalent installed on & including 16 SWG sheet steel boards recessed in walls /columns.					
	CH: 24 Item 10 (a)-iv P-144	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 and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x 4 mm (7/0.036")	7,980.00		Rft		
	CH: 24 Item 10 (a)-iii P-144	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 and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x 2.5 mm (7/0.029")	2,660.00		Rft		
	CH: 24 Item 3 (iii) P-143	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 25mm	2,660.00		Rft		
A.10		Loop-Loop- 5 Amps Switch Socket					

		Same as item No.A.12 above but loop wiring of 5A power socket outlet with 2x4mm2(P+N) & 1x2.5mm2 as CPC from point to point excluding cost of one 15A 3 pin switch socket outlets with make CLIPSAL, Legrand, ABB or approved equivalent installed on & including 16 SWG sheet steel boards recessed in walls /columns.				
	CH: 24 Item 10 (a)-iv P-144	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 and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x 4 mm (7/0.036")	21,000.00		Rft	
	CH: 24 Item 10 (a)-iii P-144	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 and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x 2.5 mm (7/0.029")	7,000.00		Rft	
	CH: 24 Item 3 (iii) P-143	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 25mm	7,000.00		Rft	
A.11		1-15 Amps Switch Socket				
		Supply and wiring of one 3pin 15 Amps Power plug socket outlet point from distribution board with single core 2x4mm2 (P+N) PVC insulated 300/500 volt grade cable in & including PVC conduit recessed in walls/R.C.C. slab, or installed on surface of Ceiling including all conduits accessories, junction boxes, pull boxes etc. 4mm2 cable as PC including cost of 3 pin 20 Amps switch & socket out let make CLIPSAL, Legrand, ABB or approved equivalent installed on & including 16 SWG sheet steel board recessed in walls complete in all respects and as per specifications & drawings.				
	CH: 24 Item 10 (a)-iv P-144	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 and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x 4 mm (7/0.036")	1,350.00		Rft	
	CH: 24 Item 10 (a)-iii P-144	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 and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x 2.5 mm (7/0.029")	450.00		Rft	
	CH: 24 Item 3 (iii) P-143	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 25mm	450.00		Rft	
A.12		Power Cables and PVC Conduit				
		L.T. Power Cables				
		Supply at site, installation, testing and commissioning of PVC insulated armoured copper conductor cable 600 / 1000 Volt grade 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 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.make Pakistan Cable, Newage Cable, Fast Cable or eqv..				
a)		PVC insulated, PVC sheathed 4 core 660/1100 volt grade cable, armoured with G.I. wire 16 SWG.				
i)	CH: 24 Item 12-vii P-145	1 core 185mm sq. (37/0.103") cable from MPB to MPB-E	360.00		Rft	
ii)	CH: 24 Item 13 (c)-vii P-145	4 core 25mm sq. cable from Meter Panel Board to DBs.	1,310.00		Rft	
iii)	CH: 24 Item 13(c)-vi P-146	4 core 16mm sq. cable from Meter Panel Board to DBs.	1,570.00		Rft	
b)		single core PVC insulated, PVC sheathed copper conductor, 660/1100 volts grade cable Circuit Protective Conductor (CPC)				
i)	CH: 24 Item 12 (iv) P-145	1 core 70mm sq.	360.00		Rft	
ii)	CH: 24 Item 12 (i) P-145	1 core 16mm sq.	1,310.00		Rft	
iii)	CH: 24 Item 11 (v) P-144	1 core 6mm sq.	1,570.00		Rft	
A.13		PVC Conduit				
		Supply at site of PVC conduit heavy duty to be concealed in RCC slabs, walls, floor, columns above false ceiling or as required as per site conditions including cost of all PVC conduit accessories, steel pull wires, complete in all respects.				
i)	CH: 24 Item 6 (i) P-143	2" DIA PVC Conduit	600.00		Rft	
ii)	CH: 24 Item 3(iii) P-143	25 mm i/d	400.00		Rft	
		Total "A"(Schedule items) C/o to Summary of Cost:				
		NON SCHEDULE ITEM-B				
B.01		Switch & Sockets.				
i	Appendix ' c' Page No-1	Providing and fixing of 2 gang switch 10 Amp with back box (6"x3"). Make Clipsal Austrila, Philips or eqv.	20.00		Each	
ii	Appendix ' c' Page No-2	Providing and fixing of 4 gang switch 10 Amp with back box (6"x3"). Make Clipsal Austrila, Philips or eqv.	142.00		Each	
iii	Appendix ' c' Page No-3	Providing and fixing of 6 gang switch 10 Amp with back box (6"x3"). Make Clipsal Austrila, Philips or eqv.	110.00		Each	
iv	Appendix ' c' Page No-4	Providing and fixing of 8 gang switch 10 Amp with back box (6"x3"). Make Clipsal Austrila, Philips or eqv.	50.00		Each	

v	Appendix ' c' Page No-5	Providing and Fixing of Switched Socket 5 Amp with back box (3"x3"). Make Clipsal Austrila, Philips or eqv.	600.00		Each		
vi	Appendix ' c' Page No-6	Providing and Fixing of Universal Switched Socket 13 Amp with back box (3"x3"). Make Clipsal Austrila, Philips or eqv.	504.00		Each		
vii	Appendix ' c' Page No-7	Providing and Fixing of Universal Switched Socket 20 Amp with back box (3"x3"). Make Clipsal Austrila, Philips or eqv.	15.00		Each		
B.02		Fitting and Fixtures.					
		Incandescent Fittings					
		Supply, instalation, testing and commissioning of LED road light with imported chip , campitble imported driver with IP 66 rating , built in Aluminium Alloy + lens housing , input voltage AC 85-285V Frequency 50-60 Hz , beam angle 140° LED Life span 60000 Hours, colour Warm white 3000K ,as per specifications and to the approval of the Consultant/ The Engineer, Make Philips, SunLight, Lumilux eqv.					
i)	Appendix ' c' Page No-8	Supply & installation of LED 17W Down Light (6" Surface Mounted, 220V~) i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips Meson or Equivalent)	1,696.00		Nos.		
ii)	Appendix ' c' Page No-51	Supply & installation of LED 2'x 2' Ceiling Panel Light 36W (220V~, CW or WW) i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips 36S/865 PSU W60L60 GM G2 or Equivalent)	874.00		No		
iii)	Appendix ' c' Page No-53	Supply, Installation and connection of LED Search light (100W, 240~, Day light) i/c PVC wire connector 16A and any accessories (i.e. screw. Rawl plug or steel nail, etc.) at site. Complete in all as approved by the Engineer incharge. (Osaka-E018E or equivalent).	8.00		No		
iv)	Appendix ' c' Page No-54	Supply and installation of outdoor LED Bollard Light 12 Watt, complete with all necessary materials / accessories, complete in all respects	36.00		No		
v)	Appendix ' c' Page No-55	Supply and installation of outdoor LED Garden Light Warm 05 Watt, complete with all necessary materials / accessories, complete in all respects	57.00		Nos.		
B.03		Exhaust Fans					
		Supply, installation and commissioning of Exhaust Fans of following sizes Matic body, louvers, all necessary fixing accessories, make Lahore Fan, PAK Fan , GFC Fan complete in all respects.					
a)	Appendix ' c' Page No-12	12" dia (Plastic Body).	100.00		No		
B.04		Ceiling Fan					
i)	Appendix ' c' Page No-52	Supply & installation of PVC Fan Box with iron bar i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge. (GM, Bita or equivalent)	197.00		Nos.		
ii)	Appendix ' c' Page No-13	Supply & installation of Ceiling Fans, 56" sweep (As per "Pakistan Energy Lable" certified manufacturers) i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge	197.00		Nos.		
		TOTAL AMOUNT - Part - B (PKR) (CARRIED FORWARD TO SUMMARY)					
iii)	Appendix ' c' Page No-9	Supply & installation of 2' x 2' False Ceiling Fan 14" swipe (99.99% Copper), remote controlled i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Royal, Super-asia or Equivalent)	400.00		Nos.		
B.05		Wall Bracket Fan					
	Appendix ' c' Page No-56	Supply & installation of Wall Bracket Fan 18" (99.99% Copper) i/c any accessories (i.e. mounting screws & etc) as required at site. Complete in all respect as directed and approved by the Engineer Incharge (Younis, Tamoor, Pakfan or Equivalent)	8.00		Nos.		
B.06		L.T. Switchgear					
		Main Panel Board-WAPDA Fabrication, supply at site, installation at designated location, testing and commissioning of Main Panel Board (MPB) comprising of cubicles, frame made of sheet steel 12 SWG and doors of 14 SWG, with flexible earthing straps, degreased and de-rusted, finished with electro-static powder coating of 50 micron thickness in approved color, panel housing to comply with protection class IP-54, indoor floor mounting, in free standing design, with hinged door, lockable handle, all auxiliaries, internal wiring, designation labels on MCCBs, earthing bar, numbering beads on the control wires, panel suitable for system Voltage 415 V, 50 Hz, 3 Phase and neutral, bus bars of 99.8% purity electrolytic copper, including cost of cable termination lugs, brass cable glands for incoming & outgoing cables, wiring from breakers, indication lamps, instruments and control all accessories complete in all respects. All incoming and outgoing breakers shall be accessible by opening the front door having additional M.S. sheet cover. Gaskets shall also be provided where necessary. All MCCBs shall be suitable to operate without any de-rating at 50°C ambient temperature and shall be of one make only and not a mixture of more than one make. The front and back sides of MPB shall also have louvers at bottom and sides of panel for hot air exhaust. The panel shall have a front access. Circuits layout shall conform to the single line diagrams. Main Panel Board shall be manufactured by PEL, Technobuild, Ibbad Switchgear or Eqv. Incoming From WAPDA 1- 2500 Amps 3 pole Motorized Air Circuit Breaker (ACB) with adjustable overload and short circuit protection RC: 47 KA with Electronic Protection Unit, Aux Contact = 4No + 4NC. Copper Bus Bars of electrolytic copper 99.9% size not less than 2x120x10mm for each phase and neutral (3P+N) on incoming side of breaker of facilitate connection cables. Main copper bus bars of electrolytic copper 99.9% size not less than 2x120mm x 10mm for each phase and neutral (3P+N) + 120mm x 10mm for earth.					

		<p>3-Air cooled ring type current transformer ratio 2500/5 Amps having suitable output and accuracy.</p> <p>3-Digital Ammeter scaled 0-2500 Amps of appropriate size.</p> <p>3-Digital Voltmeter scaled 0-500 Volts.</p> <p>3-Phase indication lamps of colour Red, Yellow, Blue.</p> <p>2-Breaker ON-OFF indication lamp.</p> <p>1- Surge Protective Device (SPD) arrester 45 KA class:1 make Phoenix / ABB/ Iskra or approved equivalent.</p> <p>1- Energy analyzer make Smart controller type X - 485.</p> <p><u>Brass Cable Glands</u></p> <p>As per SLD</p> <p><u>Earthing Bar and Earth Terminal</u></p> <p>Earthing bar with necessary punched holes, nuts, bolts and washers, etc.</p> <p>Earthing terminals, all earth leads to have green base with yellow strip.</p> <p><u>Exhaust Fan</u></p> <p>Each cubicle to have 2 thermostatically controlled 230 Volts robust exhaust fans 6"/8" dia. to be installed on back side or on top of MPB for hot air exhaust, including cost of thermostat ON/OFF switches wire mesh, cleanable filter and all necessary accessories / wiring, complete in all respects.</p> <p><u>Tube Light</u></p> <p>Each cubicle to have a tube light of 2 ft. rod to be installed inside the cubicle alongwith micro switch on each door.</p> <p><u>Outgoing</u></p> <p>1- 2000 Amps 3 pole Motorized Air Circuit Breaker (ACB) with adjustable overload and short circuit protection RC: 47 KA with Electronic Protection Unit, Aux Contact = 4No + 4NC.</p> <p>1- 1000 Amps 3 pole Adjustable Moulded Case Circuit Breaker (MCCB) RC=> 25 KA</p> <p>1- 100 Amps 3 pole Moulded Case Circuit Breaker (MCCB) RC=> 16 KA</p> <p>Appendix ' c' Page No-14</p> <p>Spaces for installation of MCCBs of rating 60/125 ATP in future but <u>EXCLUDING</u> the cost of MCCBs.</p>	1.00	Each		
B.07		<p>Main Panel Board- Emergency (MPB-E)</p> <p>Conforming to same constructional specifications as per item No. 1.02 mentioned above but equipped with the following:</p> <p><u>Incoming</u></p> <p>2- 1000 Amps 3 pole Adjustable Moulded Case Circuit Breaker (MCCB) RC=> 25 KA. Both are Electrical & Mechanical Interlocking System</p> <p>Copper Bus Bars of electrolytic copper 99.9% size not less than 80x10mm for each phase and neutral (3P+N) on incoming side of breaker of facilitate connection cables.</p> <p>Main copper bus bars of electrolytic copper 99.9% size not less than 80mm x 10mm for each phase and neutral (3P+N) + 40mm x 10mm for earth.</p> <p>3-Air cooled ring type current transformer ratio 1000/5 Amps having suitable output and accuracy.</p> <p>3-Digital Ammeter scaled 0-1000 Amps of appropriate size.</p> <p>3-Digital Voltmeter scaled 0-500 Volts.</p> <p>3-Phase indication lamps of colour Red, Yellow, Blue.</p> <p>2-Breaker ON-OFF indication lamp.</p> <p>2- Energy analyzer make Smart controller type X - 485.</p> <p><u>Brass Cable Glands</u></p> <p>As per SLD</p> <p><u>Earthing Bar and Earth Terminal</u></p> <p>Earthing bar with necessary punched holes, nuts, bolts and washers, etc.</p>				

		<p>Earthing terminals, all earth leads to have green base with yellow strip.</p> <p><u>Exhaust Fan</u></p> <p>Each cubicle to have 2 thermostatically controlled 230 Volts robust exhaust fans 6"/8" dia. to be installed on back side or on top of MPB for hot air exhaust, including cost of thermostat ON/OFF switches wire mesh, cleanable filter and all necessary accessories / wiring, complete in all respects.</p> <p><u>Tube Light</u></p> <p>Each cubicle to have a tube light of 2 ft. rod to be installed inside the cubicle alongwith micro switch on each door.</p> <p><u>Outgoing</u></p> <p>26- 50 / 60 / 75 / 100 Amps 3 pole Moulded Case Circuit Breaker (MCCB) RC=> 16 KA</p> <p>Appendix ' c' Page No-57</p> <p>Spaces for installation of MCCBs of rating 60/125 ATP in future but <u>EXCLUDING</u> the cost of MCCBs.</p>	1.00		Each		
B.08		<p><u>Distribution Board</u> <u>(DBL1-GF,DBL2-GF,DBL4-GF,DBL5-GF,DBL1-1F,DBL2-1F,DBL4-1F,DBL5-1F)</u> Fabrication, supply at site, installation, testing, commissioning and connections of wires / cables of Distribution Boards "Light / Power" concealed / open 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 50 micron thickness in approved colour, DB housing to comply with protection class IP-44 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. DBs shall be manufactured by PEL, Technobuild, Ibbad Switchgear or Eqv.</p> <p><u>Incoming</u></p> <p>1- 50 Amps 3 pole Moulded Case Circuit Breaker (MCCB) RC: 16 KA.</p> <p><u>Outgoing</u></p> <p>18- 10 Amps Single Pole MCB RC: 6 KA</p> <p><u>Incoming From UPS</u></p> <p>1- 30 Amps 3 pole Moulded Case Circuit Breaker (MCCB) RC: 16 KA.</p> <p><u>Outgoing</u></p> <p>11- 10 Amps Single Pole MCB RC: 6 KA</p> <p>1- Internal power wiring, and control wiring, thimbles, tie, and cable tray. Backled & safety sheet for live equipment.</p> <p>Appendix ' c' Page No-15</p> <p>Provision of spaces for future MCB's of rating 10 Amps but <u>EXCLUDING</u> the cost of breakers.</p>	8		No.		
B.09		<p><u>(DBL3-GF,DBL3-1F)</u> Conforming to same constructional specifications as per item No. B.14 mentioned above but equipped with the following:</p> <p><u>Incoming</u></p> <p>1- 50 Amps 3 pole Moulded Case Circuit Breaker (MCCB) RC: 16 KA.</p> <p><u>Outgoing</u></p> <p>21- 10 Amps Single Pole MCB RC: 6 KA</p> <p><u>Incoming From UPS</u></p> <p>1- 30 Amps 3 pole Moulded Case Circuit Breaker (MCCB) RC: 16 KA.</p> <p><u>Outgoing</u></p> <p>11- 10 Amps Single Pole MCB RC: 6 KA</p> <p>1- Internal power wiring, and control wiring, thimbles, tie, and cable tray. Backled & safety sheet for live equipment.</p> <p>Appendix ' c' Page No-16</p> <p>Provision of spaces for future MCB's of rating 10 Amps but <u>EXCLUDING</u> the cost of breakers.</p>	2		No.		
B.10		<p><u>(DBP1-GF,DBP2-GF,DBP4-GF,DBP5-GF,DBP1-1F,DBP2-1F,DBP4-1F,DBP5-1F)</u> Conforming to same constructional specifications as per item No. B.14 mentioned above but equipped with the following:</p> <p><u>I ncoming</u></p>					

		1- 75 Amps 3 pole Moulded Case Circuit Breaker (MCCB) RC: 16 KA. <u>Outgoing</u> 33- 16/20 Amps Single Pole MCB RC: 6 KA 1- Internal power wiring, and control wiring, thimbles, tie, and cable tray. Backled & safety sheet for live equipment. Appendix ' c' Page No-59 Provision of spaces for future MCB's of rating 10 Amps but <u>EXCLUDING</u> the cost of breakers.	8		No.		
B.11		<u>(DBP3-GF,DBP3-1F)</u> Conforming to same constructional specifications as per item No. B.14 mentioned above but equipped with the following: <u>Incoming</u> 1- 60 Amps 3 pole Moulded Case Circuit Breaker (MCCB) RC: 16 KA. <u>Outgoing</u> 21- 16/20 Amps Single Pole MCB RC: 6 KA 1- Internal power wiring, and control wiring, thimbles, tie, and cable tray. Backled & safety sheet for live equipment. Appendix ' c' Page No-60 Provision of spaces for future MCB's of rating 10 Amps but <u>EXCLUDING</u> the cost of breakers.	2		No.		
B.12		<u>L.T. Power Cables</u> Supply at site, installation, testing and commissioning of PVC insulated armoured copper conductor cable 600 / 1000 Volt grade in prelaidd 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 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.make Pakistan Cable, Newage Cable, Fast Cable or eqv.					
a)		PVC insulated, PVC sheathed 4 core 660/1100 volt grade cable, non armoured with G.I. wire 16 SWG.					
i)	Appendix ' c' Page No-61	1 core 400mm sq. cable from MPB to HVAC	750.00		Rft		
B.13		<u>BUS-TIE-DUCT (BTD) (Form Transformer to Main Panel Boards.</u>					
	Appendix ' c' Page No-62	Supply and installation of Compacted Bus Tie Duct consists of 2500 A TP&N Copper Bus Tie Duct complete with 14SWG duly MS sheet powder painted casing and necessary insulated mounting etc as per site requirement with fixing / hanging arrangements, Exhaust Fans complete in all respect as per satisfaction of Electrical Engineer.	60		Rft		
B.14		<u>Powder Coated Ceiling Suspended / Horizontal Cable Tray in Corridor</u>					
	Appendix ' c' Page No-63	Fabrication, supply at site and installation of perforated cable tray made of M.S. sheet 14 SWG 8 ft. to 10 ft. long with sides 3" high with cover of cable tray made of 18 SWG M.S sheet to be installed on wall, or in vertical, or above false ceiling in horizontal position or as shown on drawing, including cost of the following:- 2 M.S threaded hanging rod 1/2" dia. Length 12" or as required as per site. M.S strip 2" wide x 1/4" thick. Hilti rawal bolts as per required quantity & size. 2 coats of antirust paint. 2 coats of powder coating of approved colour. Complete hanging system shall be installed at every 36". The above mentioned cable tray shall be complete in all respects including cost of all accessories / materials. Cable tray shall be of the following sizes.	400.00		Rft		
	Appendix ' c' Page No-64	a) 6" wide x 3" high with cover.	765.00		Rft		
	Appendix ' c' Page No-65	b) 9" wide x 3" high with cover.	90.00		Rft		
		c) 12" wide x 3" high with cover.					
B.15		<u>Wall Mounted Fire Extinguisher</u>					
		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 or as mentioned below:					
	Appendix ' c' Page No-66	Electrical Room	2		Nos.		
B.16		FIRE ALARM SYSTEM					
i		<u>FIRE ALARM CABLE</u>					

a	Appendix ' c' Page No-17	Supply, Installation and commissioning of wiring for FACP Power from respective DB to Fire Alarm FACP with 3C, 2.5 Sq.mm with drain wire, Fire Resistant Shielded Cable (Fire Rating for 2 hours) in prelaid conduit from preliad Conduit. Make Delpro (UK), Belden as approved by consultants, Complete in all respect	150.00		Rft		
b	Appendix ' c' Page No-18	Supply, Installation and commissioining of wiring for FACP to Fire Alarm System as per drawing wired with 2C, 1.5 Sq.mm with drain wire, Fire Resistant Shielded Cable (Fire Rating for 1 hours) in prelaid conduit from fire Alarm Control Panel to all Smoke Detector/ Heat Detector / Sounder & Maunal Devices, Devices upto 180 units in one Loop, including all installation accessories.Make Delpro (UK) / Belden/ Covican (Italy) or approved equivalent approved by consultants, Complete in all respect	9,680.00		Rft		
ii		<u>MANUAL CALL POINTS</u>					
	Appendix ' c' Page No-19	Supply, installation and connecting of non-addressable manual call stations press glass type with test dey, suitable for surface or flush mounting Model DL-MCP-1010 make Delpro (UK), or Honeywell (Esser) including cost of all other accessories as required. All equipped as per specifications, complete in all respects.	20.00		Nos.		
iii		<u>ALARM SOUNDER /BUZZER</u>					
	Appendix ' c' Page No-20	Supply, installation and connections of Non- Addressable Type Indoor Loop Powered electronic Sounder/ Buzzer Model DL-BZ-1121 and minimum sound output 100dB at 1 meter with frequencies for variety of sounds as required. make Delpro (UK) or Honeywell (Esser) including cost of all other accessories as required. All equipped as per specifications, complete in all respects.	20.00		Nos.		
iv		<u>OPTICAL SMOKE DETECTOR</u>					
	Appendix ' c' Page No-21	Supply, installation and connections of Supply, installation and connections of Non- Addressable Optical Smoke Detectors Model DL-SM-1221 incorporating an LED indication located in labyrinth with in the housing of the detector. Sensing unit. make Delpro (UK), or Honeywell (Esser) including cost of all other accessories as required. All equipped as per specifications, complete in all respects.	214.00		Nos.		
v		<u>HEAT DETECTOR</u>					
	Appendix ' c' Page No-22	Supply, installation and connections of Non-Addressable Heat Detectors Model DL-HD-1225 incorporating an LED indication located in labyrinth with in the housing of the detector. Sensing unit. make Delpro (UK), or Honeywell (Esser) including cost of all other accessories as required. All equipped as per specifications, complete in all respects.	8.00		Nos.		
vi		<u>FIRE ALARM CONTROL PANEL</u>					
	Appendix ' c' Page No-23	Supply, installation and connecting of non-addressable fire alarm of following mentioned channel / zone. Separate bell alarming in each zone indication of point 48 to 72 hours power backup. Short/open circuit indications LED display / power fault, zone isolated test make Model DL-FAP-2414 or Honeywell (Esser) including cost of all other accessories as required. All equipped as per specifications, complete in all respects. as per NFPA-72/EN-54 12 Zone	1.00		Nos.		
vii		<u>FIRE ALARM JUNCTION BOX</u>					
	Appendix ' c' Page No-24	Supply, installation, testing and factory fabricated of PVC / MS junction box 16 SWG duly painted with antirust paint and further two coats of enamelled paint of approved colour including cost of earth terminal making holes of all sides to pull Fire Alarm cables complete. 4"x7". manufactured by PEL, Technobuild, Ibbad Switchgear or Eqv.	1.00		No.		
B.17		CCTV System IP Base					
i		<u>Data Wiring of Camera</u>					
	Appendix ' c' Page No-25	Supply, Installation and commissioning of wiring as per drawing wired with CAT- 6 23 AWG, UTP Cable UL Listed, run in pre laid conduit from CCTV point to Data Switcher, including all installation accessories. Make Delpro (UK), Belden, Schneider, Actual quantities shall be measured as per site & paid accordingly. Complete in all respects	7,872.00		Rft		
ii		<u>Power Wiring of Network Switch</u>					
	Appendix ' c' Page No-17	Supply, Installation and commissioning of wiring for Power with flexible 3C, 2.5 Sq.mm, Fire Resistant Shielded Cable (Fire Rating for 2 hours) in prelaid conduit from prelaid Conduit. Make Delpro (UK) / Belden/ Covican (Italy), or as specified in appendix-A as approved equivalent by engineer's Incharge or consultants, Actual quantities shall be measured as per site & paid accordingly. Complete in all respects	150.00		Rft		
iii		<u>Network Switch</u>					
	Appendix ' c' Page No-26	Supply, Installation and commissioning of 24 port POE Network Switch Make CISCO, 3M, Schnieder as approved equivalent by engineer's Incharge or consultants, Actual quantities shall be measured as per site & paid accordingly. Complete in all respects	2.00		Nos.		
iv		<u>CAT-6 UTP 1 METER PATCH CORD</u>					
	Appendix ' c' Page No-27	Supply, installation and connections of CAT-6 UTP 1 meter Patch cord Factory Fabricated and UL Listed with anti Snag Boots- Gold over nickel plated. Make Delpro (UK) Schneider as approved Eqavlent by engineer's Incharge or consultants, Actual quantities shall be measured as per site & paid accordingly. Complete in all respects	20.00		No		
v		<u>CAT-6 UTP 3 METER PATCH CORD</u>					
	Appendix ' c' Page No-28	Supply, installation and connections of CAT-6 UTP 3 meter Patch cord Factory Fabricated and UL Listed with anti Snag Boots- Gold over nickel plated. Make Delpro (UK), Schneider as approved Eqavlent by engineer's Incharge or consultants, Actual quantities shall be measured as per site & paid accordingly. Complete in all respects	4.00		No		
vi		<u>CAT-6 UTP 16 PORT SLIDING PATCH PANEL</u>					
	Appendix ' c' Page No-29	Supply, installation & connections of CAT-6 UTP 16 Port sliding Patch Panel loaded with one piece tool less I/O's VDIG112241U-/VDIB17726-U12 having u shaped smart bridle- Must be UL Listed. The patch panel must have two side buttons for locking mechanism .Make Delpro (UK), Schneider or as approved equivalent by engineer's Incharge or consultants, Actual quantities shall be measured as per site & paid accordingly. Complete in all respects	2.00		Rft		
vii		<u>CABLE ORGANIZER MADE WITH METAL</u>					

	Appendix ' c' Page No-30	Supply and installation of Cable Organizer made with metal, high graded epoxy powder coating and slideable top- Should be UL Listed. for Rack-mount Front Cable Organizer ACTRJ1-UC MPM Schneider as approved equivalent by engineer's Incharge or consultants, Actual quantities shall be measured as per site & paid accordingly. Complete in all respects	2.00	Rft		
viii		<u>Dome / Bullet - IP - Camera</u>				
	Appendix ' c' Page No-31	Supply and installation of IP Dome / Bullet Day and Night Vision CCTV, 4MP Model D2404, H.264/H.265 Compatible with 2592x1520 Effective Pixels and Varifocal Lens (2.8~12mm), With upto 40- 50 Meter IR Distance, 40 PCS LED, IP65/66 Weatherproof and Vandalproof, with Humen detection, complete in all respects make make Delpro (UK).	20.00	Nos.		
ix		<u>Network Video Recoder</u>				
	Appendix ' c' Page No-32	Supply, installation and connections of 24 channel NVR Model NC2485 with 4K Display output that support digital video stream with HDMI cable as required at site. Make Delpro (UK), approved equivalent by consultant or Engineer Incharge, including Brand New 4TB Hard drive Sata .Actual quantities shall be measured as per site & paid accordingly. Complete in all respects.	1.00	Nos.		
x		<u>MONITOR</u>				
	Appendix ' c' Page No-33	Supply, installation and connections of 55" SMART BACKLIT LED 1080p monitor with operation capacity of 24/7 wit 3 year warranty. make by Samsung, TCL, LG or as specified in appendix-A approved equivalent by consultant or Engineer Incharge, Complete in all respects Actual quantities shall be measured as per site & paid accordingly. Complete in all respects.	1.00	Nos.		
xi		<u>Close Circuit Junction Box (CCJB)</u>				
		Supply and fabrication of close circuit junction boxes 16 SWG to be concealed in wall with 2 coats of antirust paint, earthing terminal, complete in all respects.				
	Appendix ' c' Page No-24	Junction boxes of appropriate size 4"x7".	1.00	Nos.		
B.18		DATA, WIFI SYSTEM				
i		<u>POWER CABLE</u>				
	Appendix ' c' Page No-17	Supply, Installation and commissioning of wiring for Power with flexible 3C, 2.5 Sq.mm, Fire Resistant Shielded Cable (Fire Rating for 2 hours) in prelaidd conduit from prelaidd Conduit. Make Delpro (UK), Belden, Covican (Italy), or as specified in appendix-A as approved equivalent by engineer's Incharge or consultants, Actual quantities shall be measured as per site & paid accordingly. Complete in all respects	600	Rft		
ii		<u>Computer Outlet</u>				
	Appendix ' c' Page No-34	Supply and installation of Single Shutter Face Plate with bracket and UTP Cat-6 Keystone Jack make : Delpro, clipsal, 3M,complete in all respect as approved by the site incharge. RJ-45 outlet, included cost of Wall boxes.	270	Each		
iii		<u>Computer Cables</u>				
	Appendix ' c' Page No-25	Supply, Installation and commissioning of wiring as per drawing wired with CAT- 6 23 AWG, UTP Cable UL Listed, run in pre laidd conduit from CCTV point to Data Switcher, including all installation accessories. Make Delpro (UK), Belden /Schneider or as specified in appendix-A as approved equivalent by engineer's Incharge or consultants, Actual quantities shall be measured as per site & paid accordingly. Complete in all respects	24300	Rft		
vi		<u>Floor Level Data Cabinet Wall Mounted</u>				
	Appendix ' c' Page No-36	Supply and installation of 12U (600 x 450mm) wall mounted data cabinet with front glass door, two side opening, two way fans with 06 sockets power distribution unit, complete in all respect. Make Norden, Hp, Dell.	16	Each		
viii		<u>WIFI ACCESS POINT</u>				
	Appendix ' c' Page No-67	Supply, installation and connections of wireless wave two Wi-Fi access point or equivalent 2533Mbps dual-band, 802.11 abgn/ac with 20,40,80 MHz Channel width Support 4x4:4 streams, Beam Flex, Dual Polarized Integrated smart Directional antenna array. Auto-sensing 10/100/1000 Mbps, RJ-45 Power over Ethernet (PoE) Integrated 24 Antenna elements with more than 3000 Antenna Patterns, 15db interference mitigation, make Ruckus, Aruba, Linksys or as specified in appendix-A as approved by engineer's Incharge or consultants, Actual quantities shall be measured as per site & paid accordingly. Complete in all respects	17	Each		
ix		<u>Computer Junction Box(CJB)</u>				
		Supply, installation of computer junction box 16 SWG to be concealed in wall with 2 coats of antirust paint, earthing terminal, complete in all respects.				
	Appendix ' c' Page No-24	Computer Junction Box Size: 4"x7"x4" deep.	1	No.		
B.19		TELEPHONE SYSTEM				
i		<u>Telephone Outlet</u>				
a	Appendix ' c' Page No-38	Supply and installation of Single Shutter Face Plate including I/Os with bracket and UTP Cat-6 Keystone Jack make : Norden, clipsal, 3M,complete in all respect as approved by the site incharge. RJ-45 outlet, including Plastic Wall Box Clipsal	298	Each		
b	Appendix ' c' Page No-39	Supply and installation of Double Shutter Face Plate including I/Os with bracket and UTP Cat-6 Keystone Jack make : Norden, clipsal, 3M,complete in all respect as approved by the site incharge. RJ-45 outlet, including Plastic Wall Box Clipsal	12	Each		
ii		<u>CAT-6 CABLE FOR TELEPHONE SYSTEM</u>				
	Appendix ' c' Page No-25	Supply, Installation and commissioning of wiring as per drawing wired with CAT- 6 23 AWG, UTP Cable UL Listed, run in pre laidd conduit from CCTV point to Data Switcher, including all installation accessories. Make Delpro (UK), Belden /Schneider or as specified in appendix-A as approved equivalent by engineer's Incharge or consultants, Actual quantities shall be measured as per site & paid accordingly. Complete in all respects	23250	Rft		
iii	Appendix ' c' Page No-40	Supply and installation of 50 Pair Cable UG/PVC (0.4 - 0.5 mm sq) Telephone Cable (From JB to MDF)	3400	Rft		
iv		<u>Telephone Junction Box 50 Pairs (TJB)</u>				

	Appendix ' c' Page No-42	Supply, installation and commissioning of telephone junction box 250/5 make Krone Germany Krone No. 6525/1/022/00 of approved colour, designation label as per drawing, including disconnecting modules of 30 Nos. Type 2/10 LSA Plus Profile Krone Germany No. 6089/1/102/02 for incoming and out going telephone cables, all necessary accessories complete in all respects Telephone Junction Box 50 Pairs (TJB)	10		No.		
B.20		Earthing 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.					
	Appendix ' c' Page No-44	Bores for earthing body	6.00		No		
ii		G.I. Pipe					
	Appendix ' c' Page No-45	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.	600.00		Rft		
iii		Tinned Copper Spike					
	Appendix ' c' Page No-46	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.	6.00		Nos		
iv		Copper Conductor					
	Appendix ' c' Page No-47	Supply at site, installation and connections of earthing leads consisting of stranded electrolytic copper conductor of purity 99.9%, 70mm sq. to be installed in prelaid 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.	1,080.00		Rft		
v		Earth Connecting Points (ECP)					
	Appendix ' c' Page No-48	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).	6.00		Nos		
vi		Man Hole for Earthing					
	Appendix ' c' Page No-49	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.	6.00		Nos		
B.21		HT Consumer / Protection Panel					
	Appendix ' c' Page No-68	Supply , installation , testing and commissioning of HT consumer / protection panel factory fabricated and tested, manufacture by (SIMENS / Tariq Electric / PEL / FICO make only), consist of 12 SWG mild steel sheet fabricated floor mounted free standing one cubical indoor type (I.P 54) total enclosed with hinged front doors, the panel designe suitable for 11KV three phase 50 Hrз AC system, high conductivity, hard drawn electrolytic copper bus bars of adequate curren carring capacity and short circuit raiting copper interconnections, internal wiring and cables, termination arrangements, using HT Raychem Heat Shrinkable termination kit German for 3 core HT Armoured cable of appropriate size as per wapda spacification and fineshed with RAL- 7032 powder coating baked. Equiped with following compnents (All components used should be from WAPDA approved list). - HT. CONSUMER/PROTECTION PANEL	1.00		Each		
B.22		Power Transformer					
	Appendix ' c' Page No-69	Supply at site, installation, testing and commissioning of new step down power transformer indoor type manufactured according to BSS-171, IEC- 76 or VDE-0532, specifications and consisting of the under mentioned items.Filling device, drain plug, oil level indicator, lifting hooks, bi-directional roller wheels, H.V. & L.V. porcelain bushings, off load tap changer, 2 earthing terminals, conservator and silica gel breather, thermometer pocket with thermometer, imported double float buckholz relay, pressure relief vent, dial type thermometer with alarm & trip contacts, rated Voltage 11000 / 415 / 230 Volts, suitable for an ambient temperature of 50°C, winding temperature 55°C and oil temperature 45°C, impedance 6% or as specified by IEC, system earth: Delta-Y, neutral solidly earthed (DYN-II), transformer oil, I.P - 54. The transformer shall be suitable for loading of 100% continuous maximum rating with "ONAN" cooling without exceeding the thermal limit. all necessary accessories / materials, including submission of technical data sheet, complete in all respects and as approved by the Engineer. - 2000 KVA	1.00		Each		
B.23		HT Power Cables					
	Appendix ' c' Page No-70	Supply, installation and commissioning of XLPE insulated, copper tape screened PVC / SWA / PVC, 11 KV- Aluminum conductor cable manufactured by Pakistan cables , Newage Cables , Fast Cables or Eqv. Cables or approved equivalent, as specified in wapda standers to be laid in prelaid trenchd / in pre-laid conduits including cost of connections conforming to general specification, complete in all respect as per satisfaction of the Engineer Incharge. ii) 3 core 120 mm.sq. 15KV XLPE insulated un armoured cable from HT Protection panel to Transformers	150		Rft		
B.24		Heat Shrinkable Termination Kits					

	Appendix ' c' Page No-71	Supply at work, lying, testing, & commissioning of following HT out door & Indoor heat shrinkable termination kits of Raychem /3-M/Cellpack for 3 core cables already laid under work Sr. No. 0.04 in the trenches including cable glands etc and miscellaneous materials and installation as per requirements, standard specifications, & to the approval of the consultant / Engineer. Outdoor type (for 120mm Sq) Indoor type (for 120mm Sq)	1 3		Each Each		
		Total "B"(Schedule items) C/o to Summary of Cost:					
		Net Total (A+B)					

HVAC WOKS

Item No.	REF. Nos CH/ITEM	Description of Items	Qty		Unit	Rate (Rs.)	Amount (Rs.)
		NON SCHEDULE ITEM-B					
1		Supply & Installation of All DC Inverter Controlled Variable Refrigerant Flow (VRF) Heat Pump Type Multi Split A/c System complete with built-in Auto Control System & Central Controller System with display (Tablet) including unloading, Lifting, placing and Fixing at foundation at locations shown on drawing including testing & commissioning, make Zero, Rivast, Sj-Bush, Hechen, Delpro (UK)					
	a)	Outdoor Condensing Units					
		POU-1	9		No.		
		POU-2	4		No.		
		POU-3	2		No.		
		POU-4	1		No.		
		POU-5	2		No.		
		POU-6	1		No.		
		POU-7	2		No.		
		POU-8	1		No.		
		POU-9	2		No.		
	b)	Indoor Units					
		Wall Mounted Type Indoor Units					
		IDU-1	8		Nos.		
		IDU-2	125		Nos.		
		IDU-3	155		Nos.		
		IDU-4	67		Nos.		
2		Supply and Installation of Gas & Liquid Copper Piping & Fittings Complete with 19mm thick Elastomeric Closed Cell nitrile rubber foam insulation protected with PVC Tape, clamps/hangers/supports and all other related material for installation purpose complete in all respect as specified.					
		Ø 1/2"	4337		Rft		
		Ø 1/4"	2309		Rft		
		Ø 3/8"	5904		Rft		
		Ø 5/8"	5676		Rft		
		Ø 3/4"	2092		Rft		
		Ø 7/8"	378		Rft		
		Ø 1"	120		Rft		
		Ø 1-1/8"	2490		Rft		
		Ø 1-3/8"	1329		Rft		
		Ø 1-5/8"	529		Rft		
		Ø 2-1/8"	85		Rft		
	Note:	The Refrigerant pipe sizes as shown in drawing are indicative only. Pipe sizes may be vary brand to brand therefore the equipment supplier is responsible to verify the pipe sizing detail as given in drawings attached in accordance with their selected models of equipment being offered.					
3		Supply, Fabrication & installation of Refrigerant Distributer (Y-Type) Pipe Joints at locations recommended by manufacturer	1		Lot		
4		Supply & installation of 12" wide G.I Sheet Construction Pipe Tray with top covering required to install refrigerant pipes running at exposed roof	758		Rft		
5		Supply, fabrication and installation of PVC. piping & fittings, including hangers, anchor bolts, 6mm thick close cell foam insulation protected with PVC tape etc.					
		Dia 0.75 Inch	7055		Rft		
		Dia 1.0 Inch	2565		Rft		
		Dia 1.25 Inch	3233		Rft		
		Dia 1.5 Inch	536		Rft		
6		Supply & installation of HVAC related Electrical works as specified and as shown on the drawings complete with					
	a)	Electrical Panels					
		ACP-1	1		No		
		ACP-2	1		No		
	b)	Conduiting and wiring onward from ACP panels to HVAC equipment including control wiring	1		Lot		
	c)	Conduiting and wiring onward from outdoor condensing unit to indoor units including control wiring	1		Lot		
7		Painting of metal hangers and metal structures where installed as specified	1		Job		
8		Shop drawings and As-built drawings	1		Job		
9		Related Civil works including wall / slab cutting, patching, plastering etc. and construction of equipment foundations	1		Job		
10		Inspection, testing, Gas Charging and Commissioning of Complete system	1		Job		
		Total "B"(Schedule items) C/o to Summary of Cost:					

The Islamia University of Bahawalpur

Extension of Academic Block for Department of Environment Sciences (UCA&ES)

Civil Work				MRS Jan to Jun, 2021		
No		Description	Quantity	Rate	Unit	Amount
1		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) in ordinary soil	51629.00	Cft	%o Cft	
2		Spraying anti-termite liquid mixed with water in the ratio of 1:40	30665.00	Sft	% Sft	
3		Cement concrete brick or stone ballast 1½ " to 2" (40 mm to 50 mm) gauge, in foundation and plinth:- Ratio 1:4:8	2500.00	Cft	% Cft	
4		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)				
		i) Deformed bars (Grade-60)	133855.00	Kg	% Kg	
		ii) Deformed bars (Grade-40)	17038.00	Kg	% Kg	
5		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:- using harrow sand				
		i) Type B (nominal mix 1: 1½: 3)	12391.00	Cft	Per Cft	
		ii) Type C (nominal mix 1: 2: 4)	650.00	Cft	Per Cft	
6		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:using harrow sand				
		i) Type B (nominal mix 1: 1½: 3)	22740.00	Cft	Per Cft	
		ii) Type B (nominal mix 1: 1½: 3) (First Floor)	16557.00	Cft	Per Cft	
7		Filling, watering & ramming earth under floors:-				
i)		with surplus earth from foundation, etc.	17663.49	Cft	%o Cft	
ii)		with new earth excavated from outside,lead upto 1/4 mile	272000.00	Cft	%o Cft	
8		Pacca brick work in ground floor:- cement, sand mortar:-				
		i) Ratio 1:5	19093.00	Cft	% Cft	
		ii) Ratio 1:3	1385.00	Cft	% Cft	
		iii) First Floor Ratio 1:5 cement sand mortor	16982.00	Cft	% Cft	
		iv) First Floor Ratio 1:3 cement sand mortor	1382.00	Cft	% Cft	
		v) Second Floor Ratio 1:5 cement sand mortor	2679.16	Cft	% Cft	
9		Pacca brick work in foundation and plinth in:- cement sand mortor Ratio 1:6	4000.00	Cft	% Cft	
10		Providing and laying damp proof course of cement concrete 1:2: 4 (using cement, sand and shingle), including bitumen coating:- with 2 coats of bitumen: 1½" thick (40 mm)	200.00	Sft	% Sft	
11		Cement plaster 3/8" (10 mm) thick under soffit of R.C.C. roof slabs only,				
		i) upto 20' height. 1:3	23575.00	Sft	% Sft	
		ii) Above 20' height	23575.00	Sft	% Sft	
12		Cement plaster 1:5 upto 20' (6.00 mm) height:-				
		i) ½" (13 mm) thick	53816.00	Sft	% Sft	
		ii) Above 20' height 1/2" thick 1:5	21926.00	Sft	% Sft	
		iii) 3/4" (20 mm) thick upto 20' height	40845.00	Sft	% Sft	
		iv) Above 20' height 3/4" thick 1:5	13622.00	Sft	% Sft	
13		Supplying and filling sand under floor; or plugging in wells.	8270.00	Cft	% Cft	
14		Dry rammed brick or stone ballast, 1½" to 2"(40 mm to 50 mm) gauge.	12026.00	Cft	% Cft	
15		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.mbitumen coating sand blinded.	20702.00	Sft	% Sft	
16		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 1.50" Thick (9/45)	20702.00	Sft	% Sft	
17		Earth filling over roof including watering, ramming with 1" (25				

		mm) mud plaster finished, with gobri leeping: '4" (100 mm) thick earth filling and 1" (25mm) mud plaster 9/10	20702.00	Sft		% Sft	
18		Supplying and laying polythene sheet over D.P.C. under 'floors and on roofs, etc. 500 gauge (.005" thick)..... 26/37	20702.00	Sft		Per Sft	
19		Providing and fixing ornamental cement jali 2" (50 mm) thick (1: 2: 4), without steel.	1364.00	Sft		Per Sft	
20		Providing and fixing marble strip of any shade for dividing the mosaic flooring into panels.	5175.00	Rft		Per Rft	
21		Providing and laying topping of cement concrete 1:2:4,including surface finishing and dividing in panels:- 1½"(40 mm) thick	6932.00	Sft		% Sft	
22		Providing and fixing all types of glazed aluminium windows of anodized champagne colour partly fixed and party sliding using deluxe section of approved manufacturer having Frame of size100mmx 30mm using frame at bottom, at top and side leaf frame sections of 60mm x 23mm at top & bottom and size 45mm x25mm at center and size 45mm x 25mm at sides, Jali leaf frame size 43mm x 13mm i/c fine quality aluminum jali, 5mm thick imported tinted glass with rubber gas ket using approved standard latches, wheel, stopper brush chennel angle joint and hardware etc.complete in all respect 2 mm thick... 25/53	50.00	Sft		Per Sft	

23		Providing and fixing theremopore (foamed polythene) sheet in horizontal and vertical expansion joints: 1½" thick thermopore sheet	2501.00	Sft		Per Sft	
24		Preparing surface and painting with emulsion paint:- 3 coats	10000.00	Sft		% Sft	
25		Cement concrete plain including placing, compacting finishing and curing complete (including screening and washing of stone aggregate): i) Ratio 1:2:4 ii) Ratio 1:4:8	150.00 4950.51	Cft Cft		% Cft % Cft	
26		Providing and fixing sliding bolt to doors:- iron sliding bolt, 12" (300 mm) long	80.00	No		Each	
27		Removing windows and sky lights with chowkat.	1.00	No		Each	
28		Providing and fixing 6 in(150 mm). wide curved sheet of required shape fixed on face of the construction joint with G.I.screw, 1.5 in (40 mm) long to cover construction joints vertically:- G.I. sheet, 18 SWG	193.00	Rft		Per Rft	
29		Providing and fixing 1½" (40mm) thick solid flush door shutter sterling or equivalent with commercial ply (5 mm thick) on both sides double pressed and deodar wood lipping 1½"x3/8" (40mm x 10mm) around shutter including chromium plated fitting, iron hinge with aluminium kick plate 22 SWG on both sides & finger plate complete in all respect.	50.00	Sft		Per Sft	
30		Providing and fixing mild steel chowkat of doors, windows, C.window, etc. including holdfast, making and threading holes for hinges, etc. complete:- M.S. angle iron 1½"x 1½"x ¼" (40x40x6 mm) welded with M.S. flat 2"x ¼" (50 mm x 6 mm)	55.00	Sft		Per Sft	
31		Providing and fixing collapsible gate made of 2"x2"x"¼" tee iron at top and bottom, channel iron 'verticals ¾"x¼"x¼"x1/8" (20x6x6x3 mm) at 3" (75 mm) to 5" (125 mm) centre to centre (approximate) and flat iron crosses 3"x3/16" (75x5 mm), and best quality rollers at bottom of 3" (75 mm) diameter including holdfasts, handles 12" (300 mm) long of ¾"x¼"x¼"x1/8" channel iron, locking arrangement inside and outside, painting 3 coats of black Japan enameled, complete in working order.	49.50	Sft		Per Sft	

						Total	
1		Civil Work (Non-Schedule) Providing and laying Floor Tile 24"x24" Granite Effect (GEM) Dark Polished SB or DWV series Polished (Dark color)class SB (Master) including 05% Wastage laid in cement with pigment on a bed of 3/4" thick cement sand mortar 1:2, complete in all respects as approved by Engineering incharge	38369.00	Sft		Per Sft	
2		Providing and laying Tile Floor/Dado 9"x26" Size (51SF MPD538 & 757 Multi 9x26 Master and 24SF MPD748 Multi 9x26 Master) including 05% Wastage laid in cement with pigment on a bed of 3/4" thick cement sand mortar 1:2, i/c Tile Bond complete in all respects as approved by Engineer incharge	1305.00	Sft		Per Sft	

3		M.S Steel Grill for windows comprising of 1/2"x1/2" square bar with 1.25"x1.25"x1/8" MS angle iron for frame including painting 3 coats complete in all respect as shown on the drawings, specification and/ or as directed by the Engineer incharge	7200.00	Kg		Per Kg	
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4	Providing and laying Granite Marble Slab (SADU Grey) including 05% Wastage laid in cement with pigment on a bed of 3/4" thick cement sand mortar 1:2 including grinding & chemical polishing complete in all respects as approved by Engineering incharge	2060.00	Sft	Per Sft
5	Preparing and Applying Plastic Emulsion (ICI DULUX PENTALITE) Smooth Matt Finish (3-Coats) over ICI Paintex Sheesha Putty Filling on a clean plastered surface including rubbing and paper sanding, Complete in all respect and as approved by Engineer Incharg	122435.00	Sft	Per Sft
6	Providing and laying Floor Tile 12"x18" SP Series - Plain matching Dark Colors (Glossy / Matt) SP PLN - SB (Master) including 05% Wastage laid in white cement and pigment on a bed of 3/4" thick cement mortar 1:2 i/c Tile Bond as approved by Engineering incharge	4867.00	Sft	Per Sft
7	Providing and applying Textured resin plaster coating of Rockwall / sandtex / Graffiato with recommended sealer and thinner on the surface of cement plaster on the exterior surface of the building. The coaring shall be of approved colour and pattern. Surface should be prepared by removing dust, dirt, oil, sand and other foreign matters. Honey combing and stepped irregularities shall be corrected by toweling, apply it strictly in accordance with manufacturer's instructions, as per drawing, specification Final coat shall be applied after the base coat has been inspected and approved by the Engineer Incharge.	40000.00	Sft	Per Sft
8	P/F 2'-9" high stair railing (Stainless steel non-magnatic) comprising of 2-1/2" dia 16 gauge Stainless Steel pipe Stair Hand rail fixed with same dia pipe balusters as specified distance fixed at top of steps with expension bolts, 3 Nos of 16 gauge 1/2" dia S.S pipes i/c bends, base plate with bottom tiki i/c steel polishing compelte in all respects as approved by the engineer incharge	400.00	Rft	Per Rft
9	Providing and fixing glass 5mm thick brown colour in C-windows of door with plastic of paris complete in all respects	250.00	Sft	Per Sft
10	Providing and fixing angle iron bracket for sui gas pipe using angle iron 1.5"x1.5"x1/4" thick including clamp fixing at site complete in all respects as approved by the engineer incharge.	80.00	No	Each
11	Providing & Fixing Cabnet consisting of lamination board 3/4" thick for leaves, kail wood frame 2.50" x 1", Gola for 'leaf 3/4" x 3/4" including siprit polish for gola complete in all respects as per design, drawing & patern as approved by the Engineer incharge (Down portion)	1200.00	Sft	Per Sft
12	Providing & Fixing Cabnet upper portion consisting of lamination board 3/4" thick box and leaves, Partal wood frame 3" x 1", Gola for 'leaf 3/4" x 3/4" including siprit polish for gola complete in all respects as per design, drawing & patern as approved by the Engineer Incharge	550.00	Sft	Per Sft
13	Providing and fixing openable Iron door at corridore size 5'-10" wide & 6'-7" height using M.S box pipe 2.25" x 1.50" 16 SWG for frame, M.S Angle iron 1"x1" x 1/4" for Handle, M.S angle iron 1/4"x1/8" for hold fast, sliding bolts 1/2" dia 13" long & hinges 4" size including painting complete in all respect as approved by the Engineer Incharge.	150.00	Sft	Per Sft
14	Providing, applying and filling expansion joint with 2"x ¾" thick elastomeric sealant of approved manufacture over backing rod complete in all respect according to manufactures recommendations and to the entire satisfaction of the engineer incharge	400.00	Rft	P/Rft
15	Providing & Fixing stainless steel manhole cover size 3'x3' consisting MS angle iron 2"x2"x1/4" including MS bar 3/8"x3/8" complete in all respects as approved by the enginee incharge.	8.00	No	Each
16	Providing and fixing Handle Lock (Hiluke/DAF/Khas or equivalent) complete in all respect as approved by Engineer Incharge.	40.00	No	Each
17	Providing and fixing Roller Blinds fixing in position as per approved design and sample complete in all respect as approved by the engineer incharge.	500.00	Sft	P/Sft
18	Providing and fixing Door Closer including all hardware fitting best quality complete in all respect as approved by Engineer Incharge.	44.00	No	Each
19	Providing and fixing of False ceiling consisting of lamenated Gypsum Board (one side laminated) of size 600 mm x 600 mm x 10 mm (approx) over aluminium Tee's 1"x 1"size at 2'-0"x2'-0"center to center longitudinally and transversally			

20	& alminium angle of size 1" x 1" at corners/ ends, including all accessries such as steel hanging wire, hooks, screws, nails, rowel plugs, Cross Joints etc. complete in all respect, and as approved by the Engineer Incharge.	38000.00	Sft		P/Sft	
21	Providing & Fixing 1.50" thick uPVC flush door i/c PVC Chowkat of approved design and make, all hardwares/ accessories chromium plated fitting, iron hinges with aluminum kick plate 22 SWG on both sides including chowkat and finger plate complete in all respect	490.00	Sft		P/Sft	
22	Providing, Fabricating and fixing 16 SWG M.S sheet hollow pressed Jamb frame (Factory primme) for door welded with MS flat size 10"x1"x1/8", hold fast i/c welding/screwing 4" long iron hinges, filling concrete for the jamb frame and embedding hold fast in the adjoining walls with 1:2:4 concrete, enamel painting etc. complete in all respects as show on the drawing and/ or as directed by the engineer, in conformance with following size	2666.00	Sft		Per Sft	
23	i) 10"x2-1/2" ii) 6"x2-1/2"	280.00	Sft		Per Sft	
24	Providing and fixing solid engineered door of teak wood (NTC FGV-307) with engineered stabilized center core with 3/4" solid edge banding including hinges, tower bolt rubber stop cleats handles and chord with hooks etc. complete in all respect or as per approval of the engineer incharge.	2196.00	Sft		Per Sft	
25	Providing and fixing all types of Double glazed aluminium windows of anodized bronze colour partly fixed and partly sliding using deluxe section of M/s AL-Cop or 101mm x 41mmx 2mm using frame (70501) at bottom, (70502) at top and side Pakistan cables/ Al-Cop having frame of size 31mmx60mmx2mm (70506) at top & bottom and size 35mm x60mmx2mm (70505) at center and size 35mm x 60mm x2mm (70503) at sides, Jali leaf frame 70509 size 45mm x 14mm x1.6mm i/c fine quality aluminum jali,fixing double glass 5mm thick brown tinted tempered + 12mm thick air space + 5mm thick clear tempered glass with rubber gas ket using approved standard latches, wheel, stopper, brush channel angle joint and hardware etc.complete in all respect as approved by the engineer incharg	3518.00	Sft		Per Sft	
					Total	
1	Electrical Work 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. i) 3/4" i/d (20 mm) ii) 1" i/d (25 mm) iii) 1.50" i/d (40 mm) iv) 2" i/d (50 mm)	3000.00	M		Per M	
2	Supply and erection of single core PVC insulated copper conductor cables, in prelaidd PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only). 250/440 volts, PVC insulated: i) 3/0.74 mm (3/0.029") ii) 7/0.74 mm (7/0.029") iii) 7/0.91 mm (7/0.036") iv) 7/1.12 mm (7/0.044") v) 7/1.63 mm (7/0.064") vi) 19/1.32 mm (19/0.052") vii) 19/1.63 mm (19/0.064")	10000.00	M		Per M	
3	Supply and erection of ceiling rose, bakelite.	40.00	No		Each	
1	Electrical Work (Non-Schedule) Supply & installation of PVC Fan Box with iron bar i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge. (GM, Bitar or equivalent)	200.00	No		Each	

2	Supply, installation, connection & commissioning of distribution boards, (Sub Main DB-E), Open type Wall mounted design, made of M.S. Sheet 18 SWG with hinged glass door, handle, and 2 coats of Approved paint, (Size 18"x24") including Incoming Main Molded Case Circuit Breaker of 50 Amps T-p (10KA) 1.00 No, Distribution Miniature Circuit Breaker of 10/20 Amps S-p (6KA) 18.00 Nos, LED phase light volt meter type (RYB), Earthling bar, Neutral bar and any accessories (i.e. Earth/neutral bar, Nut/bolts,					
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		Screws/rawl plugs, Jumper connections & etc.) required at site. Complete in all respects as approved by the engineer incharge. (for MCCB & MCBs Hitachi, Schneider Electric, Legrand or equivalent).	8.00	No		Each	
3		Supply, installation, connection & commissioning of distribution boards, (Sub Main DB-N), Open type Wall mounted design, made of M.S. Sheet 18 SWG with hinged glass door, handle, and 2 coats of Approved paint, (Size 18"x24") including Incoming Main Molded Case Circuit Breaker of 125 Amps T-p (15KA) 1.00 No, Distribution Miniature Circuit Breaker of 10/16 Amps S-p (6KA) 24.00 Nos, LED phase light volt meter type (RYB), Earthing bar, Neutral bar and any accessories (i.e. Earth/neutral bar, Nut/bolts, Screws/rawl plugs, Jumper connections & etc.) required at site. Complete in all respects as approved by the engineer incharge. (for MCCB & MCBs Hitachi, Schneider Electric, Legrand or equivalent).	8.00	No		Each	
4		Supply, installation, connection & commissioning of Main distribution boards, (DBs), Floor Standing design, made of M.S. Sheet 14 SWG with hinged door, handle, catchers and 2 coats of Approved paint, (Size 7'x6'x18") including Incoming Main Molded Case Circuit Breaker 630 Amps T-p (36KA) 1.00 No and distribution Molded Case Circuit Breaker 125 Amps T-p (15KA) 12.00 Nos) & for DB-E (Main Molded Case Circuit Breaker 400 Amps T-p (36KA) 1.00 No and distribution Molded Case Circuit Breaker 50 Amps T-p (10KA) 15.00 Nos) respectively, Digital Volt, Selector switches, LED Phase lights, Copper bus bars, Earthing bar, Neutral bar and any accessories required at site. Complete in all respects as approved by the engineer incharge. (for MCCB General Electric, Schneider Electric & Legrand).	1.00	No		Each	
5		Supply & installation of Ceiling Fans, 56" sweep (As per "Pakistan Energy Lable" certified manufacturers). i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge	50.00	No		Each	
6		Supply & installation of LED 2'x 2' Ceiling Panel Light 36W (220V~, CW or WW) i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips 36S/865 PSU W60L60 GM G2 or Equivalent)	750.00	No		Each	
7		Supply & installation of LED 17W Down Light (6" Surface Mounted, 220V~) i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips Meson or Equivalent)	120.00	No		Each	
8		Supply & installation of Wall Mounted LED Batten Light 20W (220V~, 6500K) i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips Slimline or Equivalent)	80.00	No		Each	
9		Supply & installation of Wall Bracket Fan 18" (99.99% Copper) i/c any accessories (i.e. mounting screws & etc) as required at site. Complete in all respect as directed and approved by the Engineer Incharge (Younis, Tamoor, Pakfan or Equivalent)	9.00	No		Each	
10		Supply & installation of PVC Exhaust fan 12" (99.99% Copper) i/c any accessories (i.e. screw. Rawl plug or steel nail, etc.) as required at site. Complete in all respect as directed and approved by the Engineer Incharge (GFC, Indus, Pakfan or Equivalent)	15.00	No		Each	
11		Supply & installation of Universal 3-Pole Socket with 13A Switch with plastic back box 3"x 3" i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips ECO Series Q2 or Equivalent)	300.00	No		Each	
12		Supply & installation of a Power plug 15A with plastic back box 3"x 3" i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips ECO Series Q2 or Equivalent)	350.00	No		Each	
13		Providing & Fixing of Wall Light with 3 Watt LED Blub (philips) i/c any accessories (i.e. screw. Rawl plug or steel nail, etc.) as required at site. Complete in all respect as directed and approved by the Engineer Incharge.	60.00	No		Each	
14		Supply & installation of a Fan Dimmer 300W with plastic back box 3"x 3" i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips ECO Series Q2 or Equivalent)	60.00	No		Each	
15		Supply & installation of a Four Single Pole Switch Plate with plastic back box 3"x 3" i/c any accessories required at site. Complete in all respect as directed and approved by the					

		Engineer Incharge (Philips ECO Series Q2 or Equivalent)	85.00	No		Each	
16		Supply & installation of a Six Single Pole Switch Plate with plastic back box 3"x 6" i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge. (Philips ECO Series Q2 or Equivalent)	55.00	No		Each	
17		Supply & installation of a Eight Single Pole Switch Plate with plastic back box 3"x 6" i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge. (Philips ECO Series Q2 or Equivalent)	145.00	No		Each	
18		Supply & installation of a Four Single Pole Switch & Two 2-Pin Socket Plate with plastic back box 3"x 6" i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge. (Philips ECO Series Q2 or Equivalent	125.00	No		Each	
19		Providing and Laying earthing for Electric Machines I/c boring up to moisture level (up to 60' below ground level) 4" i/d including copper strip 14" x 2" x 1/4" (350 x 50 x 6 mm) connecting with 1 Nos.bare copper wire of No.8 SWG to be run in PVC pipe 20mm i/d, 1¼" i/d GI pipe 5' long, GI tee & plug for watering also includes common salt, Lime (slaked) & charcoal around copper strip I/c connecting with Electric machine. Complete in all respects as approved and as directed by the engineer incharge.	4.00	No		Each	
20		Supply & installation of 2' x 2' False Ceiling Fan 18" swipe (99.99% Copper), remote controlled i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Royal, Super-asia or Equivalent)	200.00	No		Each	
		Plumbing Work				Total	
1		Providing and fixing chromium plated pillar-cock, heavy:- '1.5 cm (½")	32.00	No		Each	
2		Providing and fixing chromium plated tee stop cock 15mm (½")	63.00	No		Each	
3		Providing and fixing chromium plated bib cock:- 1.5 cm (½")	37.00	No		Each	
4		Providing and fixing brass gas cock i) 1.5 cm (½") thick	70.00	No		Each	
		ii) (3/4") thick	70.00	No		Each	
5		Providing and fitting:- plastic soap dish	45.00	No		Each	
6		Providing and fitting:- plastic towel rail	1.00	No		Each	
7		Providing and fitting:- plastic shelf 60x13 cm (24"x5") with bracket and railing.	10.00	No		Each	
8		Providing and fixing looking glass 55x40 cm (22"x16") size, and 5 mm thick, first quality.	9.00	No		Each	
9		Making connection for new watersupply lines with the running main, including excavation of trench and refilling, complete, but excluding cost of pipe and specials, etc. Diameter of running main: upto 6" i/d (150 mm)	9.00	Con		P.Con	
10		Providing and fitting:- plastic toilet paper holder	24.00	No		Each	
		Plumbing Work (Non-Schedule)				Total	
1		Providing, laying, fixing and testing uPVC Soil Waste, vent & rain water down pipe "NIKASI PIPES Durafit/ Beta/ Pak Arab/Equalvent" as per ISO 3633 & PS 3214 including uPVC fittings with solvent cement jointing or rubber ring joints complete in all respects including clamps, bends, tees, Y-tees, Cowl reducers, clean out WC- Elbow Adopter etc. embedded in floors 3" thick P.C.C. 1:4:8 bedding under pipe (by using crushed stone) complete excavation back fill where required or clamped to walls, making requisite no. of holes & making good the same, complet in all respects. 4" dia. Complete in all respects and as approved by Engineer Incharge	3500.00	Rft		Per Rft	
2		Providing, laying, fixing, jointing, testing and disinfecting PPRC (Polypropylene random copolymer) pipes lines for cold and hot water supply as per DIN 8077/ 8078 for pipes and DIN 16962 ISO 3633 & PS 3214 for fittings complete in all respects including specials such as Coupler, Reducing Socket, End caps & Male/ Female Threaded fittings like Tees,					
		Adopter to connect pipe with metallic threads of shower, wash basin, bib cocks etc. where required, supported on wall or run in chases including supports, cutting wall jhree etc. Complete in all respects and as approved by Engineer					

		Incharge.(Beta/Pak Arab/Minhas/Equalvient)				
		(a) (25 mm) dia	3000.00	Rft	Per Rft	
		(b) (32 mm) dia	2500.00	Rft	Per Rft	
3		Providing & Fixing uPVC "P" trap 4" dia complete in all respects as approved by the Engineer incharge	100.00	No	Each	
4		Providing and fixing chromium plated bib cock:- 1.5 cm (½") with nozel	11.00	No	Each	
5		Providing & Fixing Sink bowl stainless steel 17"x20" size i/c waste pipe and waste coupling best quality complete in all respects as approved by the engineer incharge	50.00	No	Each	
6		Providing and fixing gas cock of best quality (Fasial or Yousaf Company) Complete in all respects and as approved by Engineer Incharge 1.5" dia	3.00	No	Each	
7		Providing & Fixing stainless steel manhole cover size 3'x3' consisting MS angle iron 2"x2"x1/4" including MS bar 3/8"x3/8" complete in all respects as approved by the enginee incharge.	8.00	No	Each	
8		Providing & Laying MDPE T-FLEX Pipe (Yellow) with all specials such as End Cap, Equal Tee, Reducer, elbow etc for main line as approved by the engineer incharge (Dadex or equivalent)				
		i) MDPE Pipe 3/4" dia	1200.00	Rft	Per Rft	
		ii) MDPE Pipe 1-1/4" dia	800.00	Rft	Per Rft	
		iii) MDPE Pipe 2" dia	1200.00	Rft	Per Rft	
9		Providing & Fixing Looking Glass 5-mm thick best quality, complete in all respect as per specifications and drawings and as approved by the Engineer Incharge.	150.00	Sft	P/Sft	
10		Providing & Fitting Steel floor jali best quality complete in all respect as per specifications and drawings and as approved by the Engineer Incharge.	100.00	No	Each	
11		Providing & Fixing Muslim shower (HD-30 Porta or equivalent company) with double bib cock (HDA-5270B Universal) & flexibe steel pipe complete unit i/c all accessries required at site complete in all respect as per specifications as approved by the Engineer incharge	11.00	No	Each	
12		Providing and fixing Coloured Glazed Earthen ware water closet Europen type Couple set including Flush Tank fixed with comode, hydraulic seat cover, sheet cover thimble, connection pipe Complete in all respect and approved by Engineering Incharge. (HD201 Porta or equivalent company)	11.00	No	Each	
13		Providing and fitting Flushing cistern 3-Gallon capacity including Bracket set & Hockey pipe best quality complete in all respts as approved by the engineer incharge (HD3T Porta or equivalent company)	24.00	No	Each	
14		Providing and fitting glazed earthen ware water closet (WC) Orisa pattern, combined with foot rest best quality complete in all respects as approved by the engineer incharge (HDD9 Porta or equivalent company)	24.00	No	Each	
15		Providing and fitting glazed earthen ware Counter basin/Vanity (HD16 Porta or equivalent company) including waste pipe and waste coupling, etc. best quality complete in all respts as approved by the engineer incharge	28.00	No	Each	
16		Providing and fitting Chromium plated Single lever Basin Mixer complete in all respts as approved by the engineer incharge (Porta HDA0501M or equivalent company)	28.00	No	Each	
17		Providing and fitting Wash Basin with Pedestal (Porta HD17) or equivalent complete in all respects as approved by the engineer incharge	4.00	No	Each	
18		Providing and fitting S.S Grip Bar (Porta HD95 456mm) or equivalent complete in all respects as approved by the engineer incharge	4.00	No	Each	
19		Providing and fitting Chromium Tee Stop Cock Porta HDJ817A or equivalent complete in all respects as approved by the engineer incharge	63.00	No	Each	
					Total	
1		External Plumbing Work 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:- 0 ft. to 7.0 ft. (0 to 2.10 m) depth	12893.00	Cft	%o Cft	

2	Providing and laying R.C.C. pipe, moulded with cement concrete 1:1½:3, with spigot socket or collar joint, etc. including cost of reinforcement, conforming to B.S. 5911: Part I: 1981, Class "L" including carriage of pipe from factory to site of work, lowering in trenches to correct alignment and grade, jointing, cutting pipes where necessary, finishing and testing, etc., complete. i) 225 mm (9") i/d ii) 6" i/d iii) 12" i/d	50.00	Rft	Per Rft	
3	Cement concrete brick or stone ballast 1½ " to 2" (40 mm to 50 mm) gauge, in foundation and plinth:- Ratio 1:4:8	400.00	Cft	% Cft	
4	Pacca brick work in foundation & plinth:- cement, sand mortar:- Ratio 1:3	1500.00	Cft	% Cft	
5	Cement plaster 1:3 upto 20' (6.00 mm) height:- i) 3/4" thick ii) ½" thick	1600.00 1618.00	Sft Sft	% Sft % Sft	
6	Excavation of trenches in all kinds of soil, except cutting 'rock, for water supply pipe lines upto 5 ft. (1.5 m) depth from ground level, including trimming, dressing sides, levelling the beds of trenches to correct grade and cutting pits for joints, etc	5100.00	Cft	%o Cft	

7	Providing, laying, cutting, jointing, testing and disinfecting P.V.C. pipe line of B.S.S. with `B' Class working pressure pipe, in trenches, complete in all respects:- i) 3" i/d (80 mm)	715.00	Rft	Per Rft	
8	Providing and fixing 3" (75 mm) thick R.C.C. manhole 'cover, 22" (550 mm) dia, with tee shaped C.I. frame of 20" (500 mm) clear i/d (frame weighing 37.324 Kg. or one maund) as per Standard Drawing STD/PD No. 5, of 1977, complete in all respects.	27.00	No	Each	
9	Providing, laying, cutting, jointing, testing and disinfecting High Density Polyethylene Pipe (HDPE-100) working presure pipe in trenches. complete in all respects PN-10 (SDR-17) 3" (90mm)MRS 23/42-b-i	700.00	Rft	Per Rft	
1	External Plumbing Work (N.S) Providing & Fixing Gate valve of PPRC best quality complete in all respect as per specifications and drawings and as approved by the Engineer Incharge. i) 25 mm ii) 32 mm	11.00 20.00	No No	Each Each	
2	Providing & Fixing 3"x1-3/8" clamp for water supply connection complete in all respects i) 1/2" dia ii) 3/4" dia	11.00 18.00	No No	Each Each	
3	Providing, fixing, cutting, jointing & testing uPVC drainage pipes of approved quality, i/c uPVC drainage fitting with soil vent cement jointing, " Type-B" or approved equal, rates i/c cost of clamping to walls and ceiling, hangers supports, cutting through wall & providing sleeves through concrete slab for pipe line & pipe fitting of following dia meters i) 4" i/d ii) 6" i/d iii) 8" i/d	100.00 200.00 500.00	Rft Rft Rft	Per Rft Per Rft Per Rft	
1	External Civil Work Supplying and filling sand under floor; or plugging in wells.	1600.00	Cft	% Cft	
2	Cement concrete brick or stone ballast 1½ " to 2" (40 mm to 50 mm) gauge, in foundation and plinth:- Ratio 1:4:8	2224.00	Cft	% Cft	
3	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 respectsMRS 10/3	599.00	Cft	% Cft	
4	Providing and laying Tuff pavers, having 7000 PSI, crushing strength of approved manufacturer, over 2" to 3" sand cushion i/c grouting with sand in joints i/c finishing to require slope. Complete in all respect. (50% Grey / 50% Coloured) 60mm thick	20000.00	Sft	Per Sft	
5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): Ratio 1: 2: 4	150.00	Cft	% Cft	

6		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)	125.00	Cft	Per Cft	
					Total	
1		External Civil Work (N.S) Providing & Fixing Pre-Cast Kerb stone size 12"x14"x6" (300mmx350mmx150mm) and duly embedded on a bed of PCC 1:6:12 (4" thick), PCC 1:2:4 for hanuching, laid with cement sand mortor 1:3, 3/4" thick i/c painting of 3 coats complete in all respects as per design & as approved by the engineer incharge made (Izhar/Banu Mukhtar/ Mukhtar Sons)	2000.00	Rft	Per Rft	
1		External Electrical Work Earthwork excavation underessed lead upto a single throw of Kassi, phaorah or shovel:- In ordinary soil.	1125.00	Cft	%o Cft	
2		Supply and erection of copper conductor cables for service connection, in prelaid pipe/G.I. wire/trenches, etc. (rate for cable only):- PVC insulated, PVC sheathed 4 core 660/1100 volt grade cable, armoured with G.I. wire 16 SWG. 37/2.62 mm (37/0.103")	250.00	M	Per M	
					Total	

The Islamia University of Bahawalpur

Construction of New Girls Hostel (No.1) at Baghdad-ul-Jadeed Campus

Civil Work			MRS Jan to Jun, 2021				
No.	Ref.	Description	Quantity		Rate	Unit	Amount
1	3/21	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). b) In ordinary soil.	122500.00	Cft		%o Cft	
2	6/5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): Ratio 1: 2: 4	18500.00	Cft		% Cft	
3	6/3	Cement concrete brick or stone ballast 1½ " to 2" (40 mm to 50 mm) gauge, in foundation and plinth:- i) Ratio 1:4:8	14250.00	Cft		% Cft	
		i) Ratio 1:6:12	7800.00	Cft		% Cft	
4	6/6	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:- Type C (nominal mix 1: 1.5: 3)	31800.00	Cft		Per Cft	
5	26/42	Spraying anti-termite liquid mixed with water in the ratio of 1:40	49000.00	Sft		% Sft	
6	7/4	Pacca brick work in foundation and plinth in:- Cement, sand mortar: Ratio 1:6	8200.00	Cft		% Cft	
7	6/33	Providing and laying damp proof course of cement concrete 1:2: 4 (using cement, sand and shingle), including bitumen coating:- with one coat bitumen and one coat polythene sheet 500 gauge. 1.5" thick (40 mm)	1400.00	Sft		% Sft	
8	9/12	Two coats of bitumen laid hot using 34 lbs. per %Sft, or 1.72 Kg per square metre over roof and blinded with sand at one Cft. per %Sft. (0.003 cu.m per sq.m)	16000.00	Sft		% Sft	
9	3/15 +3/17	Filling, watering and ramming earth under floors:- i) with surplus earth from foundation, etc. ii) with new earth excavated from outside,lead upto 1/4 mile	47000.00 174500.00	Cft Cft		%o Cft %o Cft	
10	7/5	Pacca brick work in Cement, sand mortar:- Ratio 1:5 i) Ground Floor (7/5-i)	27000.00	Cft		% Cft	
		ii) First Floor	26000.00	Cft		% Cft	
		iii) Second Floor	26000.00	Cft		% Cft	
		iv) Third Floor	1500.00	Cft		% Cft	
11	7/5	Pacca brick work in Cement, sand mortar:- Ratio 1:4 i) Ground Floor	5850.00	Cft		% Cft	
		ii) First Floor	5600.00	Cft		% Cft	
		iii) Second Floor	5550.00	Cft		% Cft	
12	11/10	Cement plaster 3/8" (10 mm) thick under soffit of R.C.C. roof slabs only, upto 20' height. Ratio 1:3	106500.00	Sft		% Sft	
13	11/9	Cement plaster 1:4 upto 20' (6.00 m) height:- i) ½" (13 mm) thick	215000.00	Sft		% Sft	

		ii) 3/4" (20 mm) thick	127000.00	Sft		% Sft	
14	11/28	Extra for lime, mud or cement plaster and pointing from 20' (6.00 m) and above for each additional 10' (3.00 m) height or part thereof.	185000.00	Sft		% Sft	
15	6/9	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 Deformed Bar 60-Grade	429000.00	Kg		% Kg	
16	6/6	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 mix1:1½:3) using harrow sand					
		i) Ground Floor	33000.00	Cft		Per Cft	
		ii) First Floor	28000.00	Cft		Per Cft	
		iii) Second Floor	28000.00	Cft		Per Cft	
		iv) Third Floor	500.00	Cft		Per Cft	
		v) Type C (nominal mix1:2:4) Ground Floor	2000.00	Cft		Per Cft	
		vi) Type C (nominal mix1:2:4) First Floor	1900.00	Cft		Per Cft	
		vii) Type C (nominal mix1:2:4) Second Floor	1650.00	Cft		Per Cft	
17	7/30	Supplying and filling sand under floor; or plugging in wells	12000.00	Cft		% Cft	
18	6/2	Dry rammed brick or stone ballast, 1½" to 2"(40 mm to 50 mm) gauge.	32500.00	Cft		% Cft	
19	12/50	Providing and fixing 1½" (40mm) thick solid flush door shutter sterling or equivalent with commercial ply (5 mm thick) on both sides double pressed and deodar wood lipping 1½"x3/8" (40mm x 10mm) around shutter including chromium plated fitting, iron hinges with aluminium kick plate 22 SWG on both sides & finger plate complete in all respect.	10750.00	Sft		Per Sft	
20	25/51	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 all of 2 mm thickness 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. (2mm thick)	1000.00	Sft		Per Sft	
21	25/52	Providing and fitting all types of glazed aluminium windows of anodised bronze colour partly fixed and partly sliding using delux sections of M/s Al-Cop or Pakistan 'Cables having frame size of 100 x 20 mm (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.	500.00	Sft		Per Sft	
22	25/53	Providing and fixing all types of glazed aluminium windows of anodized champagne colour partly fixed and party sliding using deluxe section of approved manufacturer having Frame of size100mmx 30mm using frame at bottom, at top and side leaf frame sections of 60mm x 23mm at top & bottom and size 45mm x25mm at center and size 45mm x 25mm at sides, Jali leaf frame size 43mm x 13mm i/c fine quality aluminum jali, 5mm thick imported tinted glass with rubber gas ket using approved standard latches, wheel, stopper, brush chennel angle joint and hardware etc.complete in all respect 2 mm thick	14000.00	Sft		Per Sft	
23	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.	3500.00	Kg		% Kg	
24	13/31	Preparing surface & painting with 3 coats Emulsion paint complete in all respects	372000.00	Sft		% Sft	
25	13/5	Painting new surface: Preparing surface and painting of doors and windows any type (including edges):- 3 coats	26200.00	Sft		% Sft	
26	13/32	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: new					

		surface 2 coats, upto 20' height	60000.00	Sft		% Sft	
27	13/39	Extra labour for painting, varnishing, etc. from 20' (6.10 m) height and above, for every additional 10' (3.05 m) height,or part thereof, requiring scaffolding.	32500.00	Sft		% Sft	
28	12/7	First class deodar wood wrought joinery in doors and windows, etc. panelled, or panelled or glazed, or fully glazed, fixed in position, including chowkat, holdfast,hinges, tower bolts, chocks, rubber stop, cleats/G.I. clamps, handles and chord with hooks, etc. complete '(excluding sliding bolt or lock):- 1½" thick (40 mm)	500.00	Sft		Per Sft	
29	10/15	Providing and laying topping of cement concrete 1:2:4, including surface finishing and dividing in panels:- 2" thick	8200.00	Sft		% Sft	
30	12/18	Providing and fixing sliding bolt to doors:- iron sliding bolt, 12" (300 mm) long	385.00	No		Each	
31	10/42	Providing and fixing marble strip of any shade for dividing the mosaic flooring into panels Size 1½"x3/8" (40x10mm)	5600.00	Rft		Per Rft	
32	10/43	Providing and laying Tuff pavers, having 7000 PSI, crushing strength of approved manufacturer, over 2" to 3" sand cushion i/c grouting with sand in joints i/c finishing to require slope complete in all respect. (50% Grey / 50% Coloured) 60 mm thick	17500.00	Sft		P/Sft	
33	6/24	Providing and fixing 6 in(150 mm). wide curved sheet of required shape fixed on face of the construction joint with G.I.screw,1.5 in (40 mm) long to cover construction joints vertically:- G.I. sheet, 18 SWG	400.00	Rft		Per Rft	
34	25/36	Providing and fixing collapsible gate made of 2"x2"x"¼" (50x50x6 mm) tee iron at top and bottom, channel iron verticals ¾"x¼"x¼"x1/8" at 3" (75 mm) to 5" (125 mm) centre to centre (approximate) and flat iron crosses 3"x3/16" (75x5 mm), and best quality rollers at bottom of 3" (75 mm) diameter including holdfasts, 'handles 12" (300 mm) long of ¾"x¼"x¼"x1/8" (20x6x6x3 mm) channel iron, locking arrangement inside and outside, painting 3 coats of black Japan enameled, complete in working order.	360.00	Sft		Per Sft	
35	10/18	Extra labour for each storey above ground, for mosaic,conglomerate, tiles, stone and wooden floor.	73000.00	Sft		% Sft	
36	9/45	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 1.5" thick	36500.00	Sft		% Sft	
37	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.mbitumen coating sand blinded.	36500.00	Sft		% Sft	
38	9/15	Khuras on roof 2'x2'x6" (600 x 600 x 150 mm)	16.00	No		Each	
39	26/37	Supplying and laying polythene sheet over D.P.C. under floors and on roofs, etc. 500 gauge (.005" thick)	73000.00	Sft		Per Sft	
40	6/12	Providing and fixing ornamental cement jali 2" (50 mm) thick (1: 2: 4), without steel.	200.00	Sft		Per Sft	
41	6/28	Providing embedding 10" (250 mm) wide ¼" (6 mm) thick rubber water stopper in expansion joints of R.C.C. roof slab complete in all respects.	800.00	Rft		Per Rft	
						Total	
1	N.S	Civil Work (Non-Schedule) Providing, Fabricating and fixing 16 SWG M.S sheet hollow pressed Jamb frame (Factory primme) for door welded with MS flat size 10"x1"x1/8", hold fast i/c welding/screwing 4" long iron hinges, filling concrete for the jamb frame and embedding hold fast in the adjoining walls with 1:2:4 concrete, enamel painting etc. complete in all respects as show on the drawing and/ or as directed by the engineer, in conformance with following size i) 10"x2-1/2" ii) 6"x2-1/2"	14500.00 3600.00	Sft Sft		Per Sft Per Sft	
2	N.S	Providing & Fixing Fair Face Brick Guttka 9"x3"x2.25" (straight or on edges) joint in 1:3 cement surkhi over 3/4" thick (AVG) 1:4 C/S base mortor on wall including laying ornamental bricks in approved pattern, scaffolding & during at any height, complete in all respect as shown on the drawing or as directed by the engineer incharge.	53000.00	Sft		Per Sft	

3	N.S	Providing & Laying pre-polished granite marble slab 3/4" thick of aproved quality colour, shade & texture for stair treads set over 3/4" thick 1:3 cement sand mortor in i/c rendering off 2 Nos non-skirdding grooves (3/4" wide & 1/4" deep) in each steps, rounding off front edges, complete in all respects as shown in the drawing and or as directed by the engineer incharge	3500.00	Sft	Per Sft	
4	N.S	Providing and laying Floor Tile 24"x24" Granite with dry/wet/venied application, DWV series Polished (Dark color) class SB including 05% Wastage laid in cement with pigment on a bed of 3/4" thick cement sand mortar 1:2, complete in all respects as approved by Engineering inch.	98000.00	Sft	Per Sft	
5	N.S	Providing and laying Dado Tile 24"x4" Granite with dry/wet/venied application, DWV series Polished (Dark color) class SB including 05% Wastage laid in cement with pigment on a bed of 3/4" thick cement sand mortar 1:2, complete in all respects as approved by Engineering inch.	10000.00	Sft	Per Sft	
6	N.S	Providing and laying Floor Tile 12"x18" SP Series on matching color base (Glossy) Dark Color Rectified SB) including 05% Wastage laid in cement with pigment on a bed of 3/4" thick cement sand mortar 1:2, complete in all respects as approved by Engineer incharge (for Toilet Block)	19000.00	Sft	Per Sft	
7	N.S	Providing and laying Dado Tile 12"x18" SP Series on matching color base (Glossy) Dark Color Rectified SB) including 05% Wastage laid in cement with pigment on a bed of 3/4" thick cement sand mortar 1:2, complete in all respects as approved by Engineer incharge (for Toilet Block)	41000.00	Sft	Per Sft	
8	N.S	Providing & Fixing marble 3/4" thick Buticina fency 12"X12" with floating coat of cement over a bed of 3/4" thick cement sand mortor 1:2 over 1" thick PCC 1:2:4 Gray cement, including colour pigment to match with the colour of marble tiles laid with cement sand mortor 1:2 rubbing and chemical Polishing, as approved by Engineering Incharge	1500.00	Sft	Per Sft	
9	N.S	M.S Steel Grill for windows comprising of 1/2"x1/2" square bar @ 4" c/c with 1.25"x1.25"x1/8" MS box angle iron for frame including painting 3 coats complete in all respect as shown on the drawings, specification and/ or as directed by the Engineer incharge	16150.00	Kg	Per Kg	
10	N.S	Providing and fixing 1½" (40mm) thick uPVC flush door of approved design & make, all hardware/ accessories chromium plated fitting, iron hinges with aluminium kick plate 22 SWG on both sides & finger plate complete in all respect as approved by the engineer incharge	3800.00	Sft	Per Sft	
11	N.S	Providing and fixing 3/4" thick PVC Board shutter with one side leminate & 3/4" x 3/4" PVC beading over wardrobe frame of 3"x1.5" M.S Box pipe 18 SWG including catchers, lock, CP hanger rod with hooks, hydrulic hinges, on beading complete in all respects including	21000.00	Sft	Per Sft	

12	N.S	Putti filling for emulsion paint including rubbing and primary coat complete in all respects as approved by the Engineer Incharge.	372000.00	Sft	Per Sft	
13	N.S	Providing & Laying pre-polished China verona marble slab 1" thick rendered with bevelled edges on counter trop set over 1/2" thick 1:3 cement sand mortor and expose joint fill with matching colour grout of wihite cement and colour pigment complete in all respects as shown in the drawing and or as directed by the engineer incharge	500.00	Sft	Per Sft	
14	N.S	Providing & Fixing Cabnet consisting of lamination board 3/4" thick for leaves, kail wood frame 2.50" x 1", Gola for 'leaf 3/4" x 3/4" including siprit polish for gola complete in all respects as per design, drawing & patern as approved by the engineer incharge (Down portion) Floor Mounted Cabinets (Shutters only)	475.00	Sft	Per Sft	
15		Providing & Fixing Cabnet upper portion consisting of lamination board 3/4" thick box and leaves, Partal wood frame 3" x 1", Gola for 'leaf 3/4" x 3/4" including siprit polish for gola complete in all respects as per design, drawing & patern as approved by the Engineer Incharge Wall Hanging Cabinets	350.00	Sft	Per Sft	
16	N.S	Providing & Fixing Hydraulic door closer including all hardware fitting best quality complete in all respect as approved by Engineer Incharge.	30.00	No	Each	
17	N.S	Providing and fixing ornamental partal wooden architrave 3"x1/2" (75mmx12mm) tapered to 1/4" (6mm) all along the door frame complete in all respect as approved by the Engineer Incharge.	5000.00	Sft	Per Sft	

18	N.S	2'-9" high stair railing comprising of 2-1/2" dia 16 gauge S.S pipe hand rail fixed with same dia pipe blusters as specified distance fixed at top of steps with expension bolts, 3 Nos of 16 gauge 1/2" dia S.S pipes horizontally fixed with blusters compelte in all respects	650.00	Rft		Per Rft	
19	N.S	Providing and fixing Steel door consisting of 16 gauge M.S sheet welded with M.S "L" section, 1-1/4" x 1-1/4" x 1/8" M.S "L" section welded with M.S Sheet, hinged with Chowkat, i/c locking arrangement,handles, hinges etc. duly enamel painted complete in all respects as per drawings and specifications and as approved by the Engineer in charge.	500.00	Sft		Per Sft	
20	N.S	Providing, applying and filling expansion joint with 2"x ¾" thick elastomeric sealant (Poly-Sulphide) of approved manufacture over backing rod complete in all respect according to manufactures recommendations and to the entire satisfaction of the engineer incharge	400.00	Rft		Per Rft	
21	N.S	Providing and fixing of False Ceiling consisting of lamenated Gypsum Board (one side laminated) of size 600 mm x 600 mm x 10 mm approx over aluminium Tee's 1"x 1"size at 2'-0"x2-0" center to center longitudinally and transversally & alminium angle of size 1" x 1" at comers/ ends, including all accessries such as steel hanging wire, hooks, screws, nails, rowel plugs, Cross Joints etc. complete in all respect, and as approved by the Engineer Incharge.	6400.00	Sft		Per Sft	
22	N.S	Providing & Fixing S.S pipe railing 2' high (For Gallery) comprising of 2.5" dia 16 SWG in corridor openings fixed with same dia pipe bluster at same distance with 2 No. 16 SWG 1/2" dia S.S pipe horizontally with accessories & fixing complete in all respect & as approved by the Engineer Incharge	3000.00	Rft		Per Rft	
23	N.S	Providing and laying Floor Tile 24"x24" with dry/wet/ venied application, Salt'Pepper (SPM-110) Dark Polished SB including 05% Wastage laid in cement with pigment on a bed of 3/4" thick cement sand mortar 1:2, complete in all respects as approved by Engineering incharge.	100.00	Sft		Per Sft	
24	N.S	Providing and laying Dado Tile 24"x4" with dry/wet/ venied application, Salt'Pepper (SPM-110) Dark Polished SB including 05% Wastage laid in cement with pigment on a bed of 3/4" thick cement sand mortar 1:2, complete in all respects as approved by Engineering incharge.	100.00	Sft		Per Sft	
						Total	
1	3/44	Plumbing work Excavation of trenches in all kinds of soil, except cutting rock for water supply pipe lines upto 5 ft. (1.5 m) depth from ground level, including trimming, dressing sides, levelling the beds of trenches to correct grade and cutting pits for joints.	7000.00	Cft		%o Cft	
2	3/42	Earthwork excavation in open cutting for sewers & 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 upto: i) 0 to 7 ft	20000.00	Cft		%oCft	
3	19/43	Providing & Fixing Brass gas cock 15mm 1/2" dia	20.00	No		Each	
4	23/41	Making connection for new watersupply lines with the running main, including excavation of trench and refilling, complete, but excluding cost of pipe and specials, etc. i) upto 6" i/d (150 mm) ii) upto 8" i/d (200 mm)	2.00 2.00	Con. Con.		P/Con P/Con	
5	19/19	Providing and fixing looking glass 55x40 cm (22"x16") size, and 5 mm thick, first quality.	15.00	No		Each	
6	23/22	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. Light Quality a) ¾" i/d (20 mm) b) 1" i/d (25 mm) c) 1½" i/d (40 mm)	850.00 850.00 450.00	Rft Rft Rft		P/Rft P/Rft P/Rft	
7	23/42	Providing, laying, cutting, jointing, testing and disinfecting High Density Polyethylene Pipe (HDPE-100) working presure pipe in trenches. complete in all respects PN-10 (SDR-17) i) 3" dia (90 mm)	650.00	Rft		P/Rft	
8	19/7	Providing and fixing stainless steel sink with drain board, size 120x60 cm (48"x24") including bracket set, waste pipe and waste coupling.	5.00	No		Each	
9	21/1	Providing and laying R.C.C. pipe, moulded with cement concrete 1:1½:3, with spigot socket or collar joint, etc. including cost of reinforcement, conforming to B.S. 5911: Part I: 1981, Class "L" including carriage of pipe from factory to site of work, lowering in trenches to correct alignment and					

		grade, jointing, cutting pipes where necessary, finishing and testing, etc., complete. 225 mm (9") i/d	600.00	Rft		P/Rft	
						Total	
1	N.S	Plumbing work (Non-Schedule) Providing, fixing, cutting, jointing & testing uPVC drainage pipes of approved quality, i/c uPVC drainage fitting with soil vent cement jointing, " Type-B" or approved equal, rates i/c cost of clamping to walls and ceiling, hangers supports, cutting through wall & providing sleeves through concrete slab for pipe line & pipe fitting of following dia meters i) 4" i/d	4000.00	Rft		Per Rft	
		ii) 6" i/d	3000.00	Rft		Per Rft	
2	N.S	Providing, fixing, jointing and testing polypropylene Random (PPR) pipes of approved quality, for cold water as per DIN 8077-8078, PN-20 for pipes and DIN 16962, PN-25 for fittings (polyfusion welded joints) inside building including fittings and specials (sockets, tees, elbows, bends, crosses, reducers, adaptor, plugs and union etc) recessed in walls or suspended form roof slab or run in chases including pipe hangers, supports, cutting and making good the chases and hole complete in all respects. i) 25mm o.d	2400.00	Rft		Per Rft	
		ii) 32mm o.d	5400.00	Rft		Per Rft	
		iii) 40mm o.d	3000.00	Rft		Per Rft	
		iv) 50mm o.d	1000.00	Rft		Per Rft	
3	N.S	Providing & Fixing uPVC P-trap 4" dia of approved quality	200.00	No		Each	
4	N.S	Construction of collection chamber without grating complete in all respcts as per drawing &/or as directed by the engineer	10.00	No		Each	
5	N.S	Providing & Fixing grating at site with angle iron frame 1.5"x1.5"x1/4" and 1" square bars @ 1" c/c compele in all respects according to the drawing and specifications as per direction by the engineer incharge.	10.00	No		Each	
6	N.S	Construction of square masnory manhole 2.50x2.50 ft. including cover & frame upto 5' depth	20.00	No		Each	
7	N.S	Providing and installing Brass Ball/ Handle valves of approved quality of following nominal dia, including jointing, fitting, painting, testing, complete in all respects to match with PPR/uPVC pipes of following diameters. i) 25 mm O.D	16.00	No		Each	
		ii) 32 mm O.D	16.00	No		Each	
		iii) 40 mm O.D	16.00	No		Each	
		iv) 50 mm O.D	4.00	No		Each	
8	N.S	Supply and installation of Gas geysers of following capacity , including ball valves on inlet and outlet connections complete in all respects. 14 SWG tank, 55 gallon	12.00	No		Each	
9	N.S	Providing & Fixing Looking Glass 5-mm thick best quality,complete in all respect as per specifications and drawings and as approved by the Engineer Incharge.	800.00	Sft		P/Sft	
10	N.S	Providing & Fitting Steel floor jali best quality complete in all respect as per specifications and drawings and as approved by the Engineer Incharge.	150.00	No		Each	
11	N.S	Providing & Fixing Muslim shower (HD-30 Porta or equivalent company) with double bib cock (HDA-5270B Universal) & flexibe steel pipe complete unit i/c all accessries required at site complete in all respect as per specifications as approved by the Engineer incharge	36.00	No		Each	
12	N.S	Providing and fixing Coloured Glazed Earthen ware water closet Euopen type Couple set including Flush Tank fixed with comode, normal seat cover, sheet cover thimble, connection pipe Complete in all respect and approved by Engineering Incharge. (HD201 Porta or equivalent company)	36.00	No		Each	
13	N.S	Providing and fitting Flushing cistern 3-Gallon capacity including Bracket set & Hockey pipe best quality complete in all respcts as approved by the engineer incharge (HD3T Porta or equivalent company)	80.00	No		Each	
14	N.S	Providing and fitting glazed earthen ware water closet (WC) Orisa pattern, combined with foot rest best quality complete in all respcts as approved by the engineer incharge (HDD9 Porta or equivalent company)	80.00	No		Each	

15	N.S	Providing and fitting glazed earthen ware Counter basin/Vanity (HD16 Porta or equivalent company) including waste pipe and waste coupling, etc. best quality complete in all respects as approved by the engineer incharge	170.00	No		Each	
16	N.S	Providing and fitting Chromium plated Single lever Basin Mixer complete in all respects as approved by the engineer incharge (Porta HDA0501M or equivalent company)	170.00	No		Each	
17	N.S	Providing and fitting Single Lever Bath Mixer (Porta HDA0563Y) or equivalent complete in all respects as approved by the engineer incharge	100.00	No		Each	
18	N.S	Providing and fitting Top Shower 6" dia (Porta HDDP2172) or equivalent complete in all respects as approved by the engineer incharge	100.00	No		Each	
19	N.S	Providing and fitting Wash Basin with Pedestal (Porta HD17) or equivalent complete in all respects as approved by the engineer incharge	24.00	No		Each	
20	N.S	Providing and fitting S.S Grip Bar (Porta HD95 456mm) or equivalent complete in all respects as approved by the engineer incharge	8.00	No		Each	
21	N.S	Providing and fitting Chromium Tee Stop Cock Porta HDJ817A or equivalent complete in all respects as approved by the engineer incharge	700.00	No		Each	
						Total	
		Electrical Work (Schedule)					
1	24/6	Supply and erection PVC pipe for recessed wiring (main and sub-main) purpose, including bends, specials, etc. in floor, wall or trenches:-					
		50 mm i/d	6000.00	Rft		Per Rft	
		80 mm i/d	2700.00	Rft		Per Rft	
2	24/10-a	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).250/440 volts, PVC insulated:					
		i) 7/1.63 mm (7/0.064")	4800.00	Rft		Per Rft	
		ii) 7/0.74 mm (7/0.029")	2000.00	Rft		Per Rft	
3	24/13	Supply and erection of copper conductor cables for service connection, in prelaid pipe/G.I. wire/trenches, etc. (rate for cable only):- .					
		PVC insulated, PVC sheathed 4 core, 660/1100 volt non armoured cable:-					
i	c(vi)	7/1.63 mm (7/0.064")	11000.00	Rft		Per Rft	
ii	c(vii)	19/1.32 mm (19/0.052")	11000.00	Rft		Per Rft	
4	3/44	Excavation of trenches in all kinds of soil, except cutting 'rock, for water supply pipe lines upto 5 ft. (1.5 m) depth from ground level, including trimming, dressing sides, levelling the beds of trenches to correct grade and cutting pits for joints, etc. complete in all respects.	15000.00	Cft		%o Cft	
5	3/15-i	Filling, watering and ramming earth under floors:-					
		with surplus earth from foundation, etc.	15000.00	Cft		%o Cft	
6	7/23	Dry brick pitching	600.00	Cft		% Cft	
						Total	
		Electrical Work (Non-Schedule)					
1	N.S	Wiring of light or fan point from switch board to the point with 3-Nos of 1.5 mm² (3/0.029") 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 in 20mm (3/4") PVC pipe i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge	2300.00	No		Each	
2	N.S	Circuit wiring from MCBs board to gang switch board/multi light plug with 3-Nos of 2.5 mm² (7/0.029") 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 in 25mm (1") PVC pipe i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge	2600.00	No		Each	
3	N.S	Wiring of light or fan from point to point with 3-Nos of 1.5 mm² (3/0.029") 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 in 20mm (3/4") PVC pipe i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge	350.00	No		Each	
4	N.S	Wiring of Multi/light plug from point to point with 3-Nos of 2.5 mm² (7/0.029") 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 in 20mm (¾") PVC pipe i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge	280.00	No		Each	

5	N.S	Circuit wiring from MCBs board to Power Plug with 3-Nos of 6 mm² (7/0.044") 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 in 25mm (1") PVC pipe i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge	280.00	No		Each	
6	N.S	Providing & laying of PVC/PVC 2-Core flexible 23/0.0076" copper conductor cable i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (KM, Eagle or Equivalent)	170.00	M		Per M	
7	N.S	Providing & laying of PVC/PVC 3-Core flexible 40/0.0076" copper conductor cable i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (KM, Eagle or Equivalent)	190.00	M		Per M	
8	N.S	Supply & installation of LED 17W Down Light (6" Surface Mounted, 220V~) i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips Meson or Equivalent)	500.00	No		Each	
9	N.S	Supply & installation of Wall Mounted LED Batten Light 20W (220V~, 6500K) i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips Slimline or Equivalent)	1225.00	No		Each	
10	N.S	Supply & installation of Wall Bracket Fan 18" (99.99% Copper) i/c any accessories (i.e. mounting screws & etc) as required at site. Complete in all respect as directed and approved by the Engineer Incharge (Younis, Tamoor, Pakfan or Equivalent)	8.00	No		Each	
11	N.S	Supply & installation of Metal Body Wall Bracket Fan 24" (99.99% Copper) i/c any accessories (i.e. widing of mounting holes and 4.00nos of rawl bolts ¼" etc) as required at site. Complete in all respect as directed and approved by the Engineer Incharge (SK mega or Equivalent)	3.00	No		Each	
12	N.S	Supply & installation of Ceiling Fans, 56" sweep (As per "Pakistan Energy Lable" certified manufacturers). i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge	520.00	No		Each	
13	N.S	Supply & installation of Metal body Exhaust fan 20" (99.99% Copper) with metal mounting frame i/c any accessories (i.e. screw. Rawl plug/rawl bolt etc.) as required at site. Complete in all respect as directed and approved by the Engineer Incharge (Tamoor, Indus, Pakfan or Equivalent)	56.00	No		Each	
14	N.S	Supply & installation of PVC Exhaust fan 12" (99.99% Copper) i/c any accessories (i.e. screw. Rawl plug or steel nail, etc.) as required at site. Complete in all respect as directed and approved by the Engineer Incharge (GFC, Indus, Pakfan or Equivalent)	17.00	No		Each	
15	N.S	Supply & installation of Universal 3-Pole Socket with 13A Switch with plastic back box 3"x 3" i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips ECO Series Q2 or Equivalent)	1040.00	No		Each	
16	N.S	Supply & installation of a Power plug 15A with plastic back box 3"x 3" i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips ECO Series Q2 or Equivalent)	270.00	No		Each	
17	N.S	Supply & installation of a Fan Dimmer 300W with plastic back box 3"x 3" i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips ECO Series Q2 or Equivalent)	520.00	No		Each	
18	N.S	Supply & installation of a Four Single Pole Switch Plate with plastic back box 3"x 3" i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips ECO Series Q2 or Equivalent)	44.00	No		Each	
19	N.S	Supply & installation of a Six Single Pole Switch Plate with plastic back box 3"x 6" i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge. (Philips ECO Series Q2 or Equivalent)	36.00	No		Each	
20	N.S	Supply & installation of a Eight Single Pole Switch Plate with plastic back box 3"x 6" i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge. (Philips ECO Series Q2 or Equivalent)	325.00	No		Each	
21	N.S	Supply & installation of a Four Single Pole Switch & Two 2-Pin Socket Plate with plastic back box 3"x 6" i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge. (Philips ECO Series Q2 or Equivalent)	8.00	No		Each	
22	N.S	Supply, installation, connection & commissioning of distribution boards, (Sub Main DB-N), Open type Wall mounted design, made of M.S. Sheet 18 SWG with hinged glass door, handle, and 2 coats of Approved paint, (Size 18"x24") including Incoming Main Molded Case Circuit Breaker of 80 Amps T-p (15KA) 1.00 No, Distribution Miniature Circuit Breaker of 10/20 Amps S-p (6KA) 18.00 Nos, LED phase light volt meter type (RYB), Earthling bar, Neutral bar and any accessories (i.e. Earth/neutral bar, Nut/bolts, Screws/rawl plugs, Jumper connections & etc.) required at site. Complete in all respects as approved by the engineer incharge. (for MCCB & MCBs Hitachi, Schneider Electric, Legrand or equivalent).	22.00	No			

23	N.S	Supply, installation, connection & commissioning of distribution boards, (Sub Main DB-E), Open type Wall mounted design, made of M.S. Sheet 18 SWG with hinged glass door, handle, and 2 coats of Approved paint, (Size 18"x24") including Incoming Main Molded Case Circuit Breaker of 50 Amps T-p (10KA) 1.00 No, Distribution Miniature Circuit Breaker of 10/16 Amps S-p (6KA) 18.00 Nos, LED phase light volt meter type (RYB), Earthing bar, Neutral bar and any accessories (i.e. Earth/neutral bar, Nut/bolts, Screws/rawl plugs, Jumper connections & etc.) required at site. Complete in all respects as approved by the engineer incharge. (for MCCB & MCBs Hitachi, Schneider Electric, Legrand or equivalent).	22.00	No		Each	
24	N.S	Supply, installation, connection & commissioning of distribution boards, (DBs), Floor Standing design, made of M.S. Sheet 14 SWG with hinged door, handle, catchers and 2 coats of Approved paint, (Size 7'x6'x18") including Incoming Main Molded Case Circuit Breaker 1000 Amps T-p (36KA) 1.00 No, For DB-N (Main Molded Case Circuit Breaker 630 Amps T-p (36KA) 1.00 No and distribution Molded Case Circuit Breaker 80 Amps T-p (15KA) 21.00 Nos) & for DB-E (Main Molded Case Circuit Breaker 400 Amps T-p (36KA) 1.00 No and distribution Molded Case Circuit Breaker 50 Amps T-p (15KA) 21.00 Nos) respectively, Digital Volt, Selector switches, LED Phase lights, Copper bus bars, Earthing bar, Neutral bar and any accessories required at site. Complete in all respects as approved by the engineer incharge. (for MCCB General Electric, Schneider Electric & Legrand).	1.00	No		Each	
25	N.S	Providing and Laying earthing for Electric Machines l/c boring up to moisture level (up to 60' below ground level) 4" i/d including copper strip 14" x 2" x 1/4" (350 x 50 x 6 mm) connecting with 1 Nos.bare copper wire of No.8 SWG to be run in PVC pipe 20mm i/d, 1¼" i/d GI pipe 5' long, GI tee & plug for watering also includes common salt, Lime (slaked) and charcoal around copper strip l/c connecting with Electric machine. Complete in all respects as approved and as directed by the engineer incharge.	3.00	No		Each	
26	N.S	Supply & installation of Wall Light with 3 Watt LED Blub (Philips) (220V~, 6500K) i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge.	130.00	No		Each	
27	N.S	Supply & installation of LED 2'x 2' Ceilling Panel Light 36W (220V~, CW or WW) i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips 36S/865 PSU W60L60 GM G2 or Equivalent)	240.00	No		Each	
28	N.S	Supply & installation of 2' x 2' False Ceiling Fan 16" swipe (99.99% Copper), remote controlled i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Royal, Super-asia or Equivalent)	110.00	No		Each	
29	N.S	Providing & laying of 240 mm ² 4-Core Copper Conductor PVC/PVC/steel wire armoured/PVC (Armoured) cable i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Newage, Pakistan, Copper Gate, Fast or Equivalent)	100.00	M		Per M	
30	N.S	Supply & installation of PVC Fan Box with iron bar i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge. (GM, Bita or equivalent)	425.00	No		Each	
31	N.S	Horizontal boring 4" dia underneath roads, walking path & ramps of houses for crossing of Electric power cables, PVC pipes or Water lines. Complete in all respects as approved and as directed by the engineer incharge.	100.00	Rft		Per Rft	
						Total	

		External Work (Guard Hut, Visitor Room, Tuck Shop & Boundary Wall)				
		Civil Work				
1	3/21	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). b) In ordinary soil.	6000.00	Cft	%o Cft	
2	6/5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): Ratio 1: 2: 4	200.00	Cft	% Cft	
3	6/3	Cement concrete brick or stone ballast 1½ " to 2" (40 mm to 50 mm) gauge, in foundation and plinth:-				
		i) Ratio 1:4:8	350.00	Cft	% Cft	
		i) Ratio 1:6:12	3500.00	Cft	% Cft	
4	6/6	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:- Type C (nominal mix 1: 2: 4)	350.00	Cft	Per Cft	
5	26/42	Spraying anti-termite liquid mixed with water in the ratio of 1:40	600.00	Sft	% Sft	
6	7/4	Pacca brick work in foundation and plinth in:- Cement, sand mortar: Ratio 1:6	8500.00	Cft	% Cft	
7	6/33	Providing and laying damp proof course of cement concrete 1:2: 4 (using cement, sand and shingle), including bitumen coating:- with one coat bitumen and one coat polythene sheet 500 gauge. 1.5" thick (40 mm)	1900.00	Sft	% Sft	

8	6/35	Providing and laying vertical damp proof course with cement sand plaster and bitumen coating:- with one coat of bitumen and one coat of polythene sheet 500 gauge: Ratio 1:3 ¾ " thick (20 mm)	500.00	Sft	% Sft	
9	3/15 +3/17	Filling, watering and ramming earth under floors:- i) with surplus earth from foundation, etc.	1500.00	Cft	%o Cft	
		ii) with new earth excavated from outside,lead upto 1/4 mile	3000.00	Cft	%o Cft	
10	7/5	Pacca brick work in Cement, sand mortar:- Ratio 1:5 i) Ground Floor (7/5-i)	2500.00	Cft	% Cft	
11	7/5	Pacca brick work in Cement, sand mortar:- Ratio 1:4 i) Ground Floor	100.00	Cft	% Cft	
12	11/10	Cement plaster 3/8" (10 mm) thick under soffit of R.C.C. roof slabs only, upto 20' height. Ratio 1:3	1000.00	Sft	% Sft	
13	11/9	Cement plaster 1:4 upto 20' (6.00 m) height:- i) ½" (13 mm) thick (11/9-b)	37500.00	Sft	% Sft	
		ii) 3/4" (20 mm) thick	6000.00	Sft	% Sft	
14	6/9	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 Deformed Bar 60-Grade	1500.00	Kg	% Kg	

15	6/6	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 mix1:2:4) using harrow sand Ground Floor	550	Cft	Per Cft	
16	7/30	Supplying and filling sand under floor; or plugging in wells	400.00	Cft	% Cft	
17	6/2	Dry rammed brick or stone ballast, 1½" to 2"(40 mm to 50 mm) gauge.	400.00	Cft	% Cft	
18	12/50	Providing and fixing 1½" (40mm) thick solid flush door shutter sterling or equivalent with commercial ply (5 mm thick) on both sides double pressed and deodar wood lipping 1½"x3/8" (40mm x 10mm) around shutter including chromium plated fitting, iron hinges with aluminium kick plate 22 SWG on both sides & finger plate complete in all respect.	200.00	Sft	Per Sft	
19	25/53	Providing and fixing all types of glazed aluminium windows of anodized champagne colour partly fixed and party sliding using deluxe section of approved manufacturer having Frame of size100mmx 30mm using frame at bottom, at top and side leaf frame sections of 60mm x 23mm at top & bottom and size 45mm x25mm at center and size 45mm x 25mm at sides, Jali leaf frame size 43mm x 13mm i/c fine quality aluminum jali, 5mm thick imported tinted glass with rubber gas ket using approved standard latches, wheel, stopper, brush chennel angle joint and hardware etc.complete in all respect 2 mm thick	250.00	Sft	Per Sft	
20	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.	1000.00	Kg	% Kg	
21	13/31	Preparing surface & painting with 3 coats Emulsion paint complete in all respects	3000.00	Sft	% Sft	
22	13/5	Painting new surface: Preparing surface and painting of doors and windows any type (including edges):- 3 coats	200.00	Sft	% Sft	
23	13/32	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: new surface 2 coats i) upto 20' height	41000.00	Sft	% Sft	
24	10/15	Providing and laying topping of cement concrete 1:2:4, including surface finishing and dividing in panels:- 2" thick	400.00	Sft	% Sft	
25	12/18	Providing and fixing sliding bolt to doors:- iron sliding bolt, 12" (300 mm) long	10.00	No	Each	
26	10/42	Providing and fixing marble strip of any shade for dividing the mosaic flooring into panels Size 1½"x3/8" (40x10mm)	400.00	Rft	Per Rft	
27	7/7	Pacca brick work other than building upto 10ft. (3 m) height. cement, sand mortar:- 'Ratio 1:5	8000.00	Cft	% Cft	
28	10/43	Providing and laying Tuff pavers, having 7000 PSI, crushing				

		strength of approved manufacturer, over 2" to 3" sand cushion i/c grouting with sand in joints i/c finishing to require slope complete in all respect. (50% Grey / 50% Coloured) 60 mm thick	9500.00	Sft		P/Sft	
						Total	
1	N.S	Civil Work (Non-Schedule) Providing, Fabricating and fixing 16 SWG M.S sheet hollow pressed Jamb frame (Factory primme) for door welded with MS flat size 10"x1"x1/8", hold fast i/c welding/screwing 4" long iron hinges, filling concrete for the jamb frame and embedding hold fast in the adjoining walls with 1:2:4 concrete, enamel painting etc. complete in all respects as show on the drawing and/ or as directed by the engineer, in conformance with following size i) 10"x2-1/2" ii) 6"x2-1/2"	250.00 55.00	Sft Sft		Per Sft Per Sft	
2	N.S	Providing & Fixing Fair Face Brick Guttka 9"x3"x2.25" (straight or on edges) joint in 1:3 cement surkhi over 3/4" thick (AVG) 1:4 C/S base mortor on wall including laying ornamental bricks in approved pattern, scaffolding & during at any height, complete in all respect as shown on the drawing or as directed by the engineer incharge.	2000.00	Sft		Per Sft	
3	N.S	Providing and laying Floor Tile 24"x24" Granite with dry/wet/venied application, DWV series Polished (Dark color) class SB including 05% Wastage laid in cement with pigment on a bed of 3/4" thick cement sand mortar 1:2, complete in all respects as approved by Engineering inch.	950.00	Sft		Per Sft	
4	N.S	Providing and laying Floor Tile 12"x18" SP Series on matching color base (Glossy) Dark Color Rectified SB) including 05% Wastage laid in cement with pigment on a bed of 3/4" thick cement sand mortar 1:2, complete in all respects as approved by Engineer incharge	60.00	Sft		Per Sft	
5	N.S	Providing and laying Dado Tile 12"x18" SP Series on matching color base (Glossy) Dark Color Rectified SB) including 05% Wastage laid in cement with pigment on a bed of 3/4" thick cement sand mortar 1:2, complete in all respects as approved by Engineer incharge	250.00	Sft		Per Sft	
6	N.S	Providing & Fixing marble 3/4" thick Buticina fency 12"X12" with floating coat of cement over a bed of 3/4" thick cement sand mortor 1:2 over 1" thick PCC 1:2:4 Gray cement, including colour pigment to match with the colour of marble tiles laid with cement sand mortor 1:2 rubbing and chemical Polishing, as approved by Engineering Incharge	30.00	Sft		Per Sft	
7	N.S	M.S Steel Grill for windows comprising of 1/2"x1/2" square bar @ 4" c/c with 1.25"x1.25"x1/8" MS box angle iron for frame including painting 3 coats complete in all respect as shown on the drawings, specification and/ or as directed by the Engineer incharge	350.00	Kg		Per Kg	
8	N.S	Providing and fixing 1½" (40mm) thick uPVC flush door of approved design & make, all hardware/ accessories chromium plated fitting, iron hinges with aluminium kick plate 22 SWG on both sides & finger plate complete in all respect as approved by the engineer incharge	50.00	Sft		Per Sft	
9	N.S	Putti filling for emulsion paint including rubbing and primary coat complete in all respects as approved by the Engineer Incharge.	3000.00	Sft		Per Sft	
10	N.S	Providing and fixing ornamental partal wooden architrave 3"x1/2" (75mmx12mm) tapered to 1/4" (6mm) all along the door frame complete in all respect as approved by the Engineer Incharge.	200.00	Sft		Per Sft	
11	N.S	Providing and fixing Razor cutt wire fencing double sharp four pointed razors @ 1- 1/4" c/c with 'U' shaped cladding over M.S wire making ring of 24" dia 3 Nos rings in one Rft lenth at 0.66 Kg P/Rft fixed on wall with M.S angle iron post 1.5"x1.5"x3/16" 2'-3" high + and 9" embeded in base of P.C.C 1:2:4 (9"x9"x9"at every 4' apart i/c 2 Nos bars 3/8" dia welded horizontally with angle iron, i/c binding wire i/c painting posts etc. complete in all respects.	1200.00	Rft		Per Rft	
12	N.S	Providing and laying Floor Tile 24"x24" with dry/wet/venied application, Salt'Pepper (SPM-110) Dark Polished SB including 05% Wastage laid in cement with pigment on a bed of 3/4" thick cement sand mortar 1:2, complete in all respects as approved by Engineering incharge.	50.00	Sft		Per Sft	
						Total	
1	3/44	Plumbing work Excavation of trenches in all kinds of soil, except cutting 'rock, for water supply pipe lines upto 5 ft. (1.5 m) depth from ground level, including trimming, dressing sides, levelling the beds of trenches to correct grade and cutting pits for joints, etc	500.00	Cft		%o Cft	

2	3/42	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 upto: i) 0 to 7 ft	500.00	Cft		%oCft	
3	19/19	Providing and fixing looking glass 55x40 cm (22"x16") size, and 5 mm thick, first quality.	1.00	No		Each	
4	23/22	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. Light Quality a) ¾" i/d (20 mm) b) 1" i/d (25 mm)	100.00 100.00	Rft Rft		P/Rft P/Rft	
5	19/1	Providing and fitting glazed earthen ware water closet European type, excluding seat and cover:- coloured	1.00	No		Each	
6	19/2	Providing and fixing, double seat and cover only. bakelite	1.00	No		Each	
7	19/3	providing and fitting glazed earthen ware water closet, squatter type (Orisa pattern), combined with foot rest. coloured	3.00	No		Each	
8	19/6	Providing and fitting glazed earthen ware wash hand basin 56x40 cm (22"x16") including bracket set, waste pipe and waste coupling, etc. i) coloured, with pedestal	3.00	No		Each	
9	19/12	Providing and fitting plastic made low down flushing cistern 13.63 litre (3 gallons) capacity, including bracket set, copper connection, etc. complete. Coloured	3.00	No		Each	
10	19/22	Providing and fitting:- i) Plastic soap dish ii) Plastic toilet paper holder iii) Plastic towel rail iv) Plastic shelf 60x13 cm (24"x5") with bracket and railing.	3.00 3.00 3.00 3.00	No No No No		Each Each Each Each	
11	19/27	Providing and fixing chromium plated tee stop cock 15mm (½")	6.00	No		Each	
12	19/26	Providing and fixing chromium plated bib cock:- 1.5 cm (½")	3.00	No		Each	
13	19/28	Providing and fixing chromium plated shower rose:- 1.5x10 cm (½"x4")	1.00	No		Each	
14	19/29	Providing and fixing, chromium plated mixing valve, for wash hand basin, sink or shower.	1.00	No		Each	
15	19/34	Providing and fitting "P" trap:- 10 cm (4") glazed.	3.00	No		Each	
						Total	
1	N.S	Plumbing work (Non-Schedule) Providing, fixing, cutting, jointing & testing uPVC drainage pipes of approved quality, i/c uPVC drainage fitting with soil vent cement jointing, " Type-B" or approved equal, rates i/c cost of clamping to walls and ceiling, hangers supports, cutting through wall & providing sleeves through concrete slab for pipe line & pipe fitting of following dia meters i) 4" i/d ii) 6" i/d	50.00 50.00	Rft Rft		Per Rft Per Rft	
2	N.S	Providing, fixing, jointing and testing polypropylene Random (PPR) pipes of approved quality, for cold water as per DIN 8077-8078, PN-20 for pipes and DIN 16962, PN-25 for fittings (polyfusion welded joints) inside building including fittings and specials (sockets, tees, elbows, bends, crosses, reducers, adaptor, plugs and union etc) recessed in walls or suspended form roof slab or run in chases including pipe hangers, supports, cutting and making good the chases and hole complete in all respects. i) 25mm o.d ii) 32mm o.d	100.00 150.00	Rft Rft		Per Rft Per Rft	
3	N.S	Providing & Fixing uPVC P-trap 4" dia of approved quality	3.00	No		Each	
4	N.S	Providing and installing Brass Ball/ Handle valves of approved quality of following nominal dia, including jointing, fitting, painting, testing, complete in all respects to match with PPR/uPVC pipes of following diameters. i) 25 mm O.D ii) 32 mm O.D	1.00 1.00	No No		Each Each	
5	N.S	Providing & Fitting Steel floor jali best quality complete in all					

		respect as per specifications and drawings and as approved by the Engineer Incharge.	3.00	No		Each	
						Total	
		Electrical Work (Schedule)					
1	24/6	Supply and erection PVC pipe for recessed wiring (main and sub-main) purpose, including bends, specials, etc. in floor, wall or trenches:-					
		50 mm i/d	200.00	Rft		Per Rft	
2	24/3	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.					
		25 mm i/d	1750.00	Rft		Per Rft	
3	24/10-a	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).250/440 volts, PVC insulated:					
		i) 7/1.63 mm (7/0.064")	700.00	Rft		Per Rft	
		ii) 7/0.74 mm (7/0.029")	850.00	Rft		Per Rft	
		iii) 7/1.12 mm (7/0.044")	3700.00	Rft		Per Rft	
4	24/13	Supply and erection of copper conductor cables for service connection, in prelaid pipe/G.I. wire/trenches, etc. (rate for cable only):- .					
		PVC insulated, PVC sheathed 4 core, 660/1100 volt non armoured cable:-					
i	c(vi)	7/1.63 mm (7/0.064")	250.00	Rft		Per Rft	
5	3/44	Excavation of trenches in all kinds of soil, except cutting 'rock, for water supply pipe lines upto 5 ft. (1.5 m) depth from ground level, including trimming, dressing sides, levelling the beds of trenches to correct grade and cutting pits for joints, etc. complete in all respects.	15000.00	Cft		%o Cft	
6	3/15-i	Filling, watering and ramming earth under floors:-					
		with surplus earth from foundation, etc.	15000.00	Cft		%o Cft	
7	7/23	Dry brick pitching	600.00	Cft		% Cft	
						Total	
		Electrical Work (Non-Schedule)					
1	N.S	Wiring of light or fan point from switch board to the point with 3-Nos of 1.5 mm² (3/0.029") 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 in 20mm (3/4") PVC pipe i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge	30.00	No		Each	
2	N.S	Circuit wiring from MCBs board to gang switch board/multi light plug with 3-Nos of 2.5 mm² (7/0.029") 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 in 25mm (1") PVC pipe i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge	10.00	No		Each	
3	N.S	Wiring of light or fan from point to point with 3-Nos of 1.5 mm² (3/0.029") 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 in 20mm (3/4") PVC pipe i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge	15.00	No		Each	
4	N.S	Wiring of Multi/light plug from point to point with 3-Nos of 2.5 mm² (7/0.029") 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 in 20mm (¾") PVC pipe i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge	6.00	No		Each	
5	N.S	Circuit wiring from MCBs board to Power Plug with 3-Nos of 6 mm² (7/0.044") 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 in 25mm (1") PVC pipe i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge	5.00	No		Each	
6	N.S	Supply & installation of LED 17W Down Light (6" Surface Mounted, 220V~) i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips Meson or Equivalent)	8.00	No		Each	
7	N.S	Supply & installation of Wall Mounted LED Batten Light 20W (220V~, 6500K) i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips Slimline or Equivalent)	12.00	No		Each	
8	N.S	Supply & installation of Wall Bracket Fan 18" (99.99% Copper) i/c any accessories (i.e. mounting screws & etc) as required at site. Complete in all respect as directed and approved by the Engineer Incharge (Younis, Tamoor, Pakfan or Equivalent)	1.00	No		Each	
9	N.S	Supply & installation of Metal Body Wall Bracket Fan 24" (99.99% Copper) i/c any accessories (i.e. widing of mounting holes and 4.00nos of rawl bolts ¼" etc) as required at site. Complete in all respect as directed and approved by the Engineer Incharge (SK mega or Equivalent)	1.00	No		Each	
10	N.S	Supply & installation of Ceiling Fans, 56" sweep (As per "Pakistan Energy Lable" certified manufacturers). i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge	5.00	No		Each	

11	N.S	Supply & installation of PVC Exhaust fan 12" (99.99% Copper) i/c any accessories (i.e. screw. Rawl plug or steel nail, etc.) as required at site. Complete in all respect as directed and approved by the Engineer Incharge (GFC, Indus, Pakfan or Equivalent)	5.00	No		Each	
12	N.S	Supply & installation of Universal 3-Pole Socket with 13A Switch with plastic back box 3"x 3" i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips ECO Series Q2 or Equivalent)	10.00	No		Each	
13	N.S	Supply & installation of a Power plug 15A with plastic back box 3"x 3" i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips ECO Series Q2 or Equivalent)	5.00	No		Each	
14	N.S	Supply & installation of a Fan Dimmer 300W with plastic back box 3"x 3" i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips ECO Series Q2 or Equivalent)	5.00	No		Each	
15	N.S	Supply & installation of a Four Single Pole Switch Plate with plastic back box 3"x 3" i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips ECO Series Q2 or Equivalent)	3.00	No		Each	
16	N.S	Supply & installation of a Six Single Pole Switch Plate with plastic back box 3"x 6" i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge. (Philips ECO Series Q2 or Equivalent)	2.00	No		Each	
17	N.S	Supply & installation of a Eight Single Pole Switch Plate with plastic back box 3"x 6" i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge. (Philips ECO Series Q2 or Equivalent)	5.00	No		Each	
18	N.S	Supply & installation of a Four Single Pole Switch & Two 2-Pin Socket Plate with plastic back box 3"x 6" i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge. (Philips ECO Series Q2 or Equivalent)	2.00	No		Each	
19	N.S	Supply, installation, connection & commissioning of distribution boards, (Sub Main DB-N), Open type Wall mounted design, made of M.S. Sheet 18 SWG with hinged glass door, handle, and 2 coats of Approved paint, (Size 18"x24") including Incoming Main Molded Case Circuit Breaker of 80 Amps T-p (15KA) 1.00 No, Distribution Miniature Circuit Breaker of 10/20 Amps S-p (6KA) 18.00 Nos, LED phase light volt meter type (RYB), Earthling bar, Neutral bar and any accessories (i.e. Earth/neutral bar, Nut/bolts, Screws/rawl plugs, Jumper connections & etc.) required at site. Complete in all respects as approved by the engineer incharge. (for MCCB & MCBs Hitachi, Schneider Electric, Legrand or equivalent).	1.00	No			
20	N.S	Providing and Laying earthing for Electric Machines i/c boring up to moisture level (up to 60' below ground level) 4" i/d including copper strip 14" x 2" x 1/4" (350 x 50 x 6 mm) connecting with 1 Nos.bare copper wire of No.8 SWG to be run in PVC pipe 20mm i/d, 1 1/4" i/d GI pipe 5' long, GI tee & plug for watering also includes common salt, Lime (slaked) and charcoal around copper strip i/c connecting with Electric machine.	2.00	No		Each	
21	N.S	Supply & installation of Wall Light with 3 Watt LED Blub (Philips) (220V~, 6500K) i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge.	12.00	No		Each	
22	N.S	Supply & installation of PVC Fan Box with iron bar i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge. (GM, Bita or equivalent)	5.00	No		Each	
23	N.S	Supply & Installation & commissioning of 400 KVA (11 KV/415V) 3-phase, 50 Hz step down Pad mounted / enclosed type distribution Transformer having connection group, DY-11 oil immersed natural cooled with HV & LV protections (as per WAPDA standard) i/c any other accessories required at site. Complete in all respects as approved by the Engineer incharge. (with complete purchase and tax documents) (PEL, Transfopower or Equivalent)	1.00	No		Each	
24	N.S	Supply & Laying of 3-core, 120mm², XLPE/PVC/SWA/PVC, 8.7/15Kv Aluminum conductor cable i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Fast Cable or Equivalent)	90.00	M		Per M	
25	N.S	Supply and installation of 120mm², 3-core, 11-KV Termination Kit i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge.(Raychem or Equavalent)	2.00	No		Each	
26	N.S	Supply & installation of Die-Cast Aluminum LED Boundary Light 27W (220V~, 6500K) i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips, BRP210 LED 34 or Equivalent).	48.00	No		Each	
27	N.S	Supply & installation of 11-KV Dropout Fuse assemblies Set i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge	1.00	No		Each	
						Total	

The Islamia University of Bahawalpur

Construction of New Girls Hostel (No.2) at Baghdad-ul-Jadeed Campus

Civil Work			MRS Jan to Jun, 2021			
No.	Ref.	Description	Quantity		Rate	Amount
1	3/21	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). b) In ordinary soil.	122500.00	Cft		%o Cft

2	6/5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): Ratio 1: 2: 4	18500.00	Cft	% Cft	
3	6/3	Cement concrete brick or stone ballast 1½ " to 2" (40 mm to 50 mm) gauge, in foundation and plinth:- i) Ratio 1:4:8	14250.00	Cft	% Cft	
		i) Ratio 1:6:12	7800.00	Cft	% Cft	
4	6/6	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:- Type C (nominal mix 1: 1.5: 3)	31800.00	Cft	Per Cft	
5	26/42	Spraying anti-termite liquid mixed with water in the ratio of 1:40	49000.00	Sft	% Sft	
6	7/4	Pacca brick work in foundation and plinth in:- Cement, sand mortar: Ratio 1:6	8200.00	Cft	% Cft	
7	6/33	Providing and laying damp proof course of cement concrete 1:2: 4 (using cement, sand and shingle), including bitumen coating:- with one coat bitumen and one coat polythene sheet 500 gauge. 1.5" thick (40 mm)	1400.00	Sft	% Sft	
8	9/12	Two coats of bitumen laid hot using 34 lbs. per %Sft, or 1.72 Kg per square metre over roof and blinded with sand at one Cft. per %Sft. (0.003 cu.m per sq.m)	16000.00	Sft	% Sft	
9	3/15 +3/17	Filling, watering and ramming earth under floors:- i) with surplus earth from foundation, etc.	47000.00	Cft	%o Cft	
		ii) with new earth excavated from outside,lead upto 1/4 mile	174500.00	Cft	%o Cft	
10	7/5	Pacca brick work in Cement, sand mortar:- Ratio 1:5 i) Ground Floor (7/5-i)	27000.00	Cft	% Cft	
		ii) First Floor	26000.00	Cft	% Cft	
		iii) Second Floor	26000.00	Cft	% Cft	
		iv) Third Floor	1500.00	Cft	% Cft	
11	7/5	Pacca brick work in Cement, sand mortar:- Ratio 1:4 i) Ground Floor	5850.00	Cft	% Cft	
		ii) First Floor	5600.00	Cft	% Cft	
		iii) Second Floor	5550.00	Cft	% Cft	
12	11/10	Cement plaster 3/8" (10 mm) thick under soffit of R.C.C. roof slabs only, upto 20' height. Ratio 1:3	106500.00	Sft	% Sft	
13	11/9	Cement plaster 1:4 upto 20' (6.00 m) height:- i) ½" (13 mm) thick	215000.00	Sft	% Sft	
		ii) 3/4" (20 mm) thick	127000.00	Sft	% Sft	
14	11/28	Extra for lime, mud or cement plaster and pointing from 20' (6.00 m) and above for each additional 10' (3.00 m) height or part thereof.	185000.00	Sft	% Sft	
15	6/9	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 Deformed Bar 60-Grade	429000.00	Kg	% Kg	
16	6/6	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 mix1:1½:3) using harrow sand i) Ground Floor	33000.00	Cft	Per Cft	
		ii) First Floor	28000.00	Cft	Per Cft	
		iii) Second Floor	28000.00	Cft	Per Cft	
		iv) Third Floor	500.00	Cft	Per Cft	
		v) Type C (nominal mix1:2:4) Ground Floor	2000.00	Cft	Per Cft	
		vi) Type C (nominal mix1:2:4) First Floor	1900.00	Cft	Per Cft	
		vii) Type C (nominal mix1:2:4) Second Floor	1650.00	Cft	Per Cft	
17	7/30	Supplying and filling sand under floor; or plugging in wells	12000.00	Cft	% Cft	
18	6/2	Dry rammed brick or stone ballast, 1½" to 2"(40 mm to	32500.00	Cft	% Cft	

19	12/50	50 mm) gauge. Providing and fixing 1½" (40mm) thick solid flush door shutter sterling or equivalent with commercial ply (5 mm thick) on both sides double pressed and deodar wood lipping 1½"x3/8" (40mm x 10mm) around shutter including chromium plated fitting, iron hinges with aluminium kick plate 22 SWG on both sides & finger plate complete in all respect.	10750.00	Sft	Per Sft	
20	25/51	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 all of 2 mm thickness 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. (2mm thick)	1000.00	Sft	Per Sft	
21	25/52	Providing and fitting all types of glazed aluminium windows of anodised bronze colour partly fixed and partly sliding using delux sections of M/s Al-Cop or Pakistan 'Cables having frame size of 100 x 20 mm (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.	500.00	Sft	Per Sft	
22	25/53	Providing and fixing all types of glazed aluminium windows of anodized champagne colour partly fixed and party sliding using deluxe section of approved manufacturer having Frame of size100mmx 30mm using frame at bottom, at top and side leaf frame sections of 60mm x 23mm at top & bottom and size 45mm x25mm at center and size 45mm x 25mm at sides, Jali leaf frame size 43mm x 13mm i/c fine quality aluminum jali, 5mm thick imported tinted glass with rubber gas ket using approved standard latches, wheel, stopper, brush chennel angle joint and hardware etc.complete in all respect 2 mm thick	14000.00	Sft	Per Sft	
23	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.	3500.00	Kg	% Kg	
24	13/31	Preparing surface & painting with 3 coats Emulsion paint complete in all respects	372000.00	Sft	% Sft	
25	13/5	Painting new surface: Preparing surface and painting of doors and windows any type (including edges):- 3 coats	26200.00	Sft	% Sft	
26	13/32	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: new surface 2 coats, upto 20' height	60000.00	Sft	% Sft	
27	13/39	Extra labour for painting, varnishing, etc. from 20' (6.10 m) height and above, for every additional 10' (3.05 m) height,or part thereof, requiring scaffolding.	32500.00	Sft	% Sft	
28	12/7	First class deodar wood wrought joinery in doors and windows, etc. panelled, or panelled or glazed, or fully glazed, fixed in position, including chowkat, holdfast,hinges, tower bolts, chocks, rubber stop, cleats/G.I. clamps, handles and chord with hooks, etc. complete '(excluding sliding bolt or lock):- 1½" thick (40 mm)	500.00	Sft	Per Sft	
29	10/15	Providing and laying topping of cement concrete 1:2:4, including surface finishing and dividing in panels:- 2" thick	8200.00	Sft	% Sft	
30	12/18	Providing and fixing sliding bolt to doors:- iron sliding bolt, 12" (300 mm) long	385.00	No	Each	
31	10/42	Providing and fixing marble strip of any shade for dividing the mosaic flooring into panels Size 1½"x3/8" (40x10mm)	5600.00	Rft	Per Rft	
32	10/43	Providing and laying Tuff pavers, having 7000 PSI, crushing strength of approved manufacturer, over 2" to 3" sand cushion i/c grouting with sand in joints i/c finishing to require slope complete in all respect. (50% Grey / 50% Coloured) 60 mm thick	17500.00	Sft	P/Sft	
33	6/24	Providing and fixing 6 in(150 mm). wide curved sheet of required shape fixed on face of the construction joint with G.I.screw,1.5 in (40 mm) long to cover construction joints vertically:- G.I. sheet, 18 SWG	400.00	Rft	Per Rft	
34	25/36	Providing and fixing collapsible gate made of 2"x2"x"¼" (50x50x6 mm) tee iron at top and bottom, channel iron verticals ¾"x¼"x¼"x1/8" at 3" (75 mm) to 5" (125 mm)				

		centre to centre (approximate) and flat iron crosses 3"x3/16" (75x5 mm), and best quality rollers at bottom of 3" (75 mm) diameter including holdfasts, 'handles 12" (300 mm) long of ¾"x¼"x¼"x1/8" (20x6x6x3 mm) channel iron, locking arrangement inside and outside, painting 3 coats of black Japan enameled, complete in working order.	360.00	Sft		Per Sft	
35	10/18	Extra labour for each storey above ground, for mosaic,conglomerate, tiles, stone and wooden floor.	73000.00	Sft		% Sft	
36	9/45	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 1.5" thick	36500.00	Sft		% Sft	
37	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.mbitumen coating sand blinded.	36500.00	Sft		% Sft	
38	9/15	Khuras on roof 2'x2'x6" (600 x 600 x 150 mm)	16.00	No		Each	
39	26/37	Supplying and laying polythene sheet over D.P.C. under floors and on roofs, etc. 500 gauge (.005" thick)	73000.00	Sft		Per Sft	
40	6/12	Providing and fixing ornamental cement jali 2" (50 mm) thick (1: 2: 4), without steel.	200.00	Sft		Per Sft	
41	6/28	Providing embedding 10" (250 mm) wide ¼" (6 mm) thick rubber water stopper in expansion joints of R.C.C. roof slab complete in all respects.	800.00	Rft		Per Rft	
						Total	
1	N.S	Civil Work (Non-Schedule) Providing, Fabricating and fixing 16 SWG M.S sheet hollow pressed Jamb frame (Factory primme) for door welded with MS flat size 10"x1"x1/8", hold fast i/c welding/screwing 4" long iron hinges, filling concrete for the jamb frame and embedding hold fast in the adjoining walls with 1:2:4 concrete, enamel painting etc. complete in all respects as show on the drawing and/ or as directed by the engineer, in conformance with following size i) 10"x2-1/2" ii) 6"x2-1/2"	14500.00	Sft		Per Sft	
			3600.00	Sft		Per Sft	
2	N.S	Providing & Fixing Fair Face Brick Guttka 9"x3"x2.25" (straight or on edges) joint in 1:3 cement surkhi over 3/4" thick (AVG) 1:4 C/S base mortor on wall including laying ornamental bricks in approved pattern, scaffolding & during at any height, complete in all respect as shown on the drawing or as directed by the engineer incharge.	53000.00	Sft		Per Sft	

3	N.S	Providing & Laying pre-polished granite marble slab 3/4" thick of aproved quality colour, shade & texture for stair treads set over 3/4" thick 1:3 cement sand mortor in i/c rendering off 2 Nos non-skirdding grooves (3/4" wide & 1/4" deep) in each steps, rounding off front edges, complete in all respects as shown in the drawing and or as directed by the engineer incharge	3500.00	Sft		Per Sft	
4	N.S	Providing and laying Floor Tile 24"x24" Granite with dry/wet/venied application, DWV series Polished (Dark color) class SB including 05% Wastage laid in cement with pigment on a bed of 3/4" thick cement sand mortar 1:2, complete in all respects as approved by Engineering inch.	98000.00	Sft		Per Sft	
5	N.S	Providing and laying Dado Tile 24"x4" Granite with dry/wet/venied application, DWV series Polished (Dark color) class SB including 05% Wastage laid in cement with pigment on a bed of 3/4" thick cement sand mortar 1:2, complete in all respects as approved by Engineering inch.	10000.00	Sft		Per Sft	
6	N.S	Providing and laying Floor Tile 12"x18" SP Series on matching color base (Glossy) Dark Color Rectified SB) including 05% Wastage laid in cement with pigment on a bed of 3/4" thick cement sand mortar 1:2, complete in all respects as approved by Engineer incharge (for Toilet Block)	19000.00	Sft		Per Sft	
7	N.S	Providing and laying Dado Tile 12"x18" SP Series on matching color base (Glossy) Dark Color Rectified SB) including 05% Wastage laid in cement with pigment on a bed of 3/4" thick cement sand mortar 1:2, complete in all respects as approved by Engineer incharge (for Toilet Block)	41000.00	Sft		Per Sft	
8	N.S	Providing & Fixing marble 3/4" thick Buticina fency 12"X12" with floating coat of cement over a bed of 3/4" thick cement sand mortor 1:2 over 1" thick PCC 1:2:4 Gray cement,					

		including colour pigment to match with the colour of marble tiles laid with cement sand mortor 1:2 rubbing and chemical Polishing, as approved by Engineering Incharge	1500.00	Sft		Per Sft	
9	N.S	M.S Steel Grill for windows comprising of 1/2"x1/2" square bar @ 4" c/c with 1.25"x1.25"x1/8" MS box angle iron for frame including painting 3 coats complete in all respect as shown on the drawings, specification and/ or as directed by the Engineer incharge	16150.00	Kg		Per Kg	
10	N.S	Providing and fixing 1½" (40mm) thick uPVC flush door of approved design & make, all hardware/ accessories chromium plated fitting, iron hinges with aluminium kick plate 22 SWG on both sides & finger plate complete in all respect as approved by the engineer incharge	3800.00	Sft		Per Sft	
11	N.S	Providing and fixing 3/4" thick PVC Board shutter with one side leminate & 3/4" x 3/4" PVC beading over wardrobe frame of 3"x1.5" M.S Box pipe 18 SWG including catchers, lock, CP hanger rod with hooks, hydrylic hinges, on beading complete in all respects including	21000.00	Sft		Per Sft	

12	N.S	Putti filling for emulsion paint including rubbing and primary coat complete in all respects as approved by the Engineer Incharge.	372000.00	Sft		Per Sft	
13	N.S	Providing & Laying pre-polished China verona marble slab 1" thick rendered with bevelled edges on counter trop set over 1/2" thick 1:3 cement sand mortor and expose joint fill with matching colour grout of wihite cement and colour pigment complete in all respects as shown in the drawing and or as directed by the engineer incharge	500.00	Sft		Per Sft	
14	N.S	Providing & Fixing Cabnet consisting of lamination board 3/4" thick for leaves, kail wood frame 2.50" x 1", Gola for 'leaf 3/4" x 3/4" including siprit polish for gola complete in all respects as per design, drawing & patern as approved by the engineer incharge (Down portion) Floor Mounted Cabinets (Shutters only)	475.00	Sft		Per Sft	
15		Providing & Fixing Cabnet upper portion consisting of lamination board 3/4" thick box and leaves, Partal wood frame 3" x 1", Gola for 'leaf 3/4" x 3/4" including siprit polish for gola complete in all respects as per design, drawing & patern as approved by the Engineer Incharge Wall Hanging Cabinets	350.00	Sft		Per Sft	
16	N.S	Providing & Fixing Hydraulic door closer including all hardware fitting best quality complete in all respect as approved by Engineer Incharge.	30.00	No		Each	
17	N.S	Providing and fixing ornamental partal wooden architrave 3"x1/2" (75mmx12mm) tapered to 1/4" (6mm) all along the door frame complete in all respect as approved by the Engineer Incharge.	5000.00	Sft		Per Sft	
18	N.S	2'-9" high stair railing comprising of 2-1/2" dia 16 gauge S.S pipe hand rail fixed with same dia pipe blusters as specified distance fixed at top of steps with expension bolts, 3 Nos of 16 gauge 1/2" dia S.S pipes horizontally fixed with blusters compelte in all respects	650.00	Rft		Per Rft	
19	N.S	Providing and fixing Steel door consisting of 16 gauge M.S sheet welded with M.S "L" section, 1-1/4" x 1-1/4" x 1/8" M.S "L" section welded with M.S Sheet, hinged with Chowkat, i/c locking arrangement,handles, hinges etc. duly enamel painted complete in all respects as per drawings and specifications and as approved by the Engineer in charge.	500.00	Sft		Per Sft	
20	N.S	Providing, applying and filling expansion joint with 2"x ¾" thick elastomeric sealant (Poly-Sulphide) of approved manufacture over backing rod complete in all respect according to manufactures recommendations and to the entire satisfaction of the engineer incharge	400.00	Rft		Per Rft	
21	N.S	Providing and fixing of False Ceiling consisting of lamenated Gypsum Board (one side laminated) of size 600 mm x 600 mm x 10 mm approx over aluminium Tee's 1"x 1"size at 2'-0"x2-0" center to center longitudinally and transversally & alminium angle of size 1" x 1" at corners/ ends, including all accessries such as steel hanging wire, hooks, screws, nails, rowel plugs, Cross Joints etc. complete in all respect, and as approved by the Engineer Incharge.	6400.00	Sft		Per Sft	
22	N.S	Providing & Fixing S.S pipe railing 2' high (For Gallery) comprising of 2.5" dia 16 SWG in corridor openings fixed with same dia pipe bluster at same distance with 2 No. 16 SWG 1/2" dia S.S pipe horizontally with accessories & fixing complete in all respect & as approved by the Engineer Incharge	3000.00	Rft		Per Rft	
23	N.S	Providing and laying Floor Tile 24"x24" with dry/wet/ venied application, Salt'Pepper (SPM-110) Dark Polished SB					

24	N.S	including 05% Wastage laid in cement with pigment on a bed of 3/4" thick cement sand mortar 1:2, complete in all respects as approved by Engineering incharge. Providing and laying Dado Tile 24"x4" with dry/wet/venied application, Salt'Pepper (SPM-110) Dark Polished SB including 05% Wastage laid in cement with pigment on a bed of 3/4" thick cement sand mortar 1:2, complete in all respects as approved by Engineering incharge.	100.00	Sft		Per Sft	
			100.00	Sft		Per Sft	
						Total	
1	3/44	Plumbing work Excavation of trenches in all kinds of soil, except cutting rock for water supply pipe lines upto 5 ft. (1.5 m) depth from ground level, including trimming, dressing sides, levelling the beds of trenches to correct grade and cutting pits for joints.	7000.00	Cft		%o Cft	
2	3/42	Earthwork excavation in open cutting for sewers & 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 upto: i) 0 to 7 ft	20000.00	Cft		%oCft	
3	19/43	Providing & Fixing Brass gas cock 15mm 1/2" dia	20.00	No		Each	
4	23/41	Making connection for new watersupply lines with the running main, including excavation of trench and refilling, complete, but excluding cost of pipe and specials, etc. i) upto 6" i/d (150 mm) ii) upto 8" i/d (200 mm)	2.00 2.00	Con. Con.		P/Con P/Con	
5	19/19	Providing and fixing looking glass 55x40 cm (22"x16") size, and 5 mm thick, first quality.	15.00	No		Each	
6	23/22	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. Light Quality a) ¾" i/d (20 mm) b) 1" i/d (25 mm) c) 1½" i/d (40 mm)	850.00 850.00 450.00	Rft Rft Rft		P/Rft P/Rft P/Rft	
7	23/42	Providing, laying, cutting, jointing, testing and disinfecting High Density Polyethylene Pipe (HDPE-100) working presure pipe in trenches. complete in all respects PN-10 (SDR-17) i) 3" dia (90 mm)	650.00	Rft		P/Rft	
8	19/7	Providing and fixing stainless steel sink with drain board, size 120x60 cm (48"x24") including bracket set, waste pipe and waste coupling.	5.00	No		Each	
9	21/1	Providing and laying R.C.C. pipe, moulded with cement concrete 1:1½:3, with spigot socket or collar joint, etc. including cost of reinforcement, conforming to B.S. 5911: Part I: 1981, Class "L" including carriage of pipe from factory to site of work, lowering in trenches to correct alignment and grade, jointing, cutting pipes where necessary, finishing and testing, etc., complete. 225 mm (9") i/d	600.00	Rft		P/Rft	
						Total	
1	N.S	Plumbing work (Non-Schedule) Providing, fixing, cutting, jointing & testing uPVC drainage pipes of approved quality, i/c uPVC drainage fitting with soil vent cement jointing, " Type-B" or approved equal, rates i/c cost of clamping to walls and ceiling, hangers supports, cutting through wall & providing sleeves through concrete slab for pipe line & pipe fitting of following dia meters i) 4" i/d ii) 6" i/d	4000.00 3000.00	Rft Rft		Per Rft Per Rft	
2	N.S	Providing, fixing, jointing and testing polypropylene Random (PPR) pipes of approved quality, for cold water as per DIN 8077-8078, PN-20 for pipes and DIN 16962, PN-25 for fittings (polyfusion welded joints) inside building including fittings and specials (sockets, tees, elbows, bends, crosses, reducers, adaptor, plugs and union etc) recessed in walls or suspended form roof slab or run in chases including pipe hangers, supports, cutting and making good the chases and hole complete in all respects. i) 25mm o.d ii) 32mm o.d iii) 40mm o.d iv) 50mm o.d	2400.00 5400.00 3000.00 1000.00	Rft Rft Rft Rft		Per Rft Per Rft Per Rft Per Rft	
3	N.S	Providing & Fixing uPVC P-trap 4" dia of approved quality	200.00	No		Each	
4	N.S	Construction of collection chamber without grating					

		complete in all respects as per drawing &/or as directed by the engineer	10.00	No		Each	
5	N.S	Providing & Fixing grating at site with angle iron frame 1.5"x1.5"x1/4" and 1" square bars @ 1" c/c complete in all respects according to the drawing and specifications as per direction by the engineer incharge.	10.00	No		Each	
6	N.S	Construction of square masonry manhole 2.50x2.50 ft. including cover & frame upto 5' depth	20.00	No		Each	
7	N.S	Providing and installing Brass Ball/ Handle valves of approved quality of following nominal dia, including jointing, fitting, painting, testing, complete in all respects to match with PPR/uPVC pipes of following diameters. i) 25 mm O.D	16.00	No		Each	
		ii) 32 mm O.D	16.00	No		Each	
		iii) 40 mm O.D	16.00	No		Each	
		iv) 50 mm O.D	4.00	No		Each	
8	N.S	Supply and installation of Gas geysers of following capacity , including ball valves on inlet and outlet connections complete in all respects. 14 SWG tank, 55 gallon	12.00	No		Each	
9	N.S	Providing & Fixing Looking Glass 5-mm thick best quality,complete in all respect as per specifications and drawings and as approved by the Engineer Incharge.	800.00	Sft		P/Sft	
10	N.S	Providing & Fitting Steel floor jali best quality complete in all respect as per specifications and drawings and as approved by the Engineer Incharge.	150.00	No		Each	
11	N.S	Providing & Fixing Muslim shower (HD-30 Porta or equivalent company) with double bib cock (HDA-5270B Universal) & flexible steel pipe complete unit i/c all accessories required at site complete in all respect as per specifications as approved by the Engineer incharge	36.00	No		Each	
12	N.S	Providing and fixing Coloured Glazed Earthen ware water closet European type Couple set including Flush Tank fixed with comode, normal seat cover, sheet cover thimble, connection pipe Complete in all respect and approved by Engineering Incharge. (HD201 Porta or equivalent company)	36.00	No		Each	
13	N.S	Providing and fitting Flushing cistern 3-Gallon capacity including Bracket set & Hockey pipe best quality complete in all respects as approved by the engineer incharge (HD3T Porta or equivalent company)	80.00	No		Each	
14	N.S	Providing and fitting glazed earthen ware water closet (WC) Orisa pattern, combined with foot rest best quality complete in all respects as approved by the engineer incharge (HDD9 Porta or equivalent company)	80.00	No		Each	
15	N.S	Providing and fitting glazed earthen ware Counter basin/Vanity (HD16 Porta or equivalent company) including waste pipe and waste coupling, etc. best quality complete in all respects as approved by the engineer incharge	170.00	No		Each	
16	N.S	Providing and fitting Chromium plated Single lever Basin Mixer complete in all respects as approved by the engineer incharge (Porta HDA0501M or equivalent company)	170.00	No		Each	
17	N.S	Providing and fitting Single Lever Bath Mixer (Porta HDA0563Y) or equivalent complete in all respects as approved by the engineer incharge	100.00	No		Each	
18	N.S	Providing and fitting Top Shower 6" dia (Porta HDDP2172) or equivalent complete in all respects as approved by the engineer incharge	100.00	No		Each	
19	N.S	Providing and fitting Wash Basin with Pedestal (Porta HD17) or equivalent complete in all respects as approved by the engineer incharge	24.00	No		Each	
20	N.S	Providing and fitting S.S Grip Bar (Porta HD95 456mm) or equivalent complete in all respects as approved by the engineer incharge	8.00	No		Each	
21	N.S	Providing and fitting Chromium Tee Stop Cock Porta HDJ817A or equivalent complete in all respects as approved by the engineer incharge	700.00	No		Each	
						Total	
		Electrical Work (Schedule)					
1	24/6	Supply and erection PVC pipe for recessed wiring (main and sub-main) purpose, including bends, specials, etc. in floor, wall or trenches:-					
		50 mm i/d	6000.00	Rft		Per Rft	

		80 mm i/d	2700.00	Rft		Per Rft	
2	24/10-a	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).250/440 volts, PVC insulated:					
		i) 7/1.63 mm (7/0.064")	4800.00	Rft		Per Rft	
		ii) 7/0.74 mm (7/0.029")	2000.00	Rft		Per Rft	
3	24/13	Supply and erection of copper conductor cables for service connection, in prelaid pipe/G.I. wire/trenches, etc. (rate for cable only):- .					
		PVC insulated, PVC sheathed 4 core, 660/1100 volt non armoured cable:-					
i	c(vi)	7/1.63 mm (7/0.064")	11000.00	Rft		Per Rft	
ii	c(vii)	19/1.32 mm (19/0.052")	11000.00	Rft		Per Rft	
4	3/44	Excavation of trenches in all kinds of soil, except cutting 'rock, for water supply pipe lines upto 5 ft. (1.5 m) depth from ground level, including trimming, dressing sides, levelling the beds of trenches to correct grade and cutting pits for joints, etc. complete in all respects.	15000.00	Cft		%o Cft	
5	3/15-i	Filling, watering and ramming earth under floors:-					
		with surplus earth from foundation, etc.	15000.00	Cft		%o Cft	
6	7/23	Dry brick pitching	600.00	Cft		% Cft	
						Total	
		Electrical Work (Non-Schedule)					
1	N.S	Wiring of light or fan point from switch board to the point with 3-Nos of 1.5 mm² (3/0.029") 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 in 20mm (3/4") PVC pipe i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge	2300.00	No		Each	
2	N.S	Circuit wiring from MCBs board to gang switch board/multi light plug with 3-Nos of 2.5 mm² (7/0.029") 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 in 25mm (1") PVC pipe i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge	2600.00	No		Each	
3	N.S	Wiring of light or fan from point to point with 3-Nos of 1.5 mm² (3/0.029") 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 in 20mm (3/4") PVC pipe i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge	350.00	No		Each	
4	N.S	Wiring of Multi/light plug from point to point with 3-Nos of 2.5 mm² (7/0.029") 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 in 20mm (¾") PVC pipe i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge	280.00	No		Each	
5	N.S	Circuit wiring from MCBs board to Power Plug with 3-Nos of 6 mm² (7/0.044") 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 in 25mm (1") PVC pipe i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge	280.00	No		Each	
6	N.S	Providing & laying of PVC/PVC 2-Core flexible 23/0.0076" copper conductor cable i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (KM, Eagle or Equivalent)	170.00	M		Per M	
7	N.S	Providing & laying of PVC/PVC 3-Core flexible 40/0.0076" copper conductor cable i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (KM, Eagle or Equivalent)	190.00	M		Per M	
8	N.S	Supply & installation of LED 17W Down Light (6" Surface Mounted, 220V~) i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips Meson or Equivalent)	500.00	No		Each	
9	N.S	Supply & installation of Wall Mounted LED Batten Light 20W (220V~, 6500K) i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips Slimline or Equivalent)	1225.00	No		Each	
10	N.S	Supply & installation of Wall Bracket Fan 18" (99.99% Copper) i/c any accessories (i.e. mounting screws & etc) as required at site. Complete in all respect as directed and approved by the Engineer Incharge (Younis, Tamoor, Pakfan or Equivalent)	8.00	No		Each	
11	N.S	Supply & installation of Metal Body Wall Bracket Fan 24" (99.99% Copper) i/c any accessories (i.e. widing of mounting holes and 4.00nos of rawl bolts ½" etc) as required at site. Complete in all respect as directed and approved by the Engineer Incharge (SK mega or Equivalent)	3.00	No		Each	
12	N.S	Supply & installation of Ceiling Fans, 56" sweep (As per "Pakistan Energy Lable" certified manufacturers). i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge	520.00	No		Each	

13	N.S	Supply & installation of Metal body Exhaust fan 20" (99.99% Copper) with metal mounting frame i/c any accessories (i.e. screw. Rawl plug/rawl bolt etc.) as required at site. Complete in all respect as directed and approved by the Engineer Incharge (Tamoor, Indus, Pakfan or Equivalent)	56.00	No		Each	
14	N.S	Supply & installation of PVC Exhaust fan 12" (99.99% Copper) i/c any accessories (i.e. screw. Rawl plug or steel nail, etc.) as required at site. Complete in all respect as directed and approved by the Engineer Incharge (GFC, Indus, Pakfan or Equivalent)	17.00	No		Each	
15	N.S	Supply & installation of Universal 3-Pole Socket with 13A Switch with plastic back box 3"x 3" i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips ECO Series Q2 or Equivalent)	1040.00	No		Each	
16	N.S	Supply & installation of a Power plug 15A with plastic back box 3"x 3" i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips ECO Series Q2 or Equivalent)	270.00	No		Each	
17	N.S	Supply & installation of a Fan Dimmer 300W with plastic back box 3"x 3" i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips ECO Series Q2 or Equivalent)	520.00	No		Each	
18	N.S	Supply & installation of a Four Single Pole Switch Plate with plastic back box 3"x 3" i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips ECO Series Q2 or Equivalent)	44.00	No		Each	
19	N.S	Supply & installation of a Six Single Pole Switch Plate with plastic back box 3"x 6" i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge. (Philips ECO Series Q2 or Equivalent)	36.00	No		Each	
20	N.S	Supply & installation of a Eight Single Pole Switch Plate with plastic back box 3"x 6" i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge. (Philips ECO Series Q2 or Equivalent)	325.00	No		Each	
21	N.S	Supply & installation of a Four Single Pole Switch & Two 2-Pin Socket Plate with plastic back box 3"x 6" i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge. (Philips ECO Series Q2 or Equivalent)	8.00	No		Each	
22	N.S	Supply, installation, connection & commissioning of distribution boards, (Sub Main DB-N), Open type Wall mounted design, made of M.S. Sheet 18 SWG with hinged glass door, handle, and 2 coats of Approved paint, (Size 18"x24") including Incoming Main Molded Case Circuit Breaker of 80 Amps T-p (15KA) 1.00 No, Distribution Miniature Circuit Breaker of 10/20 Amps S-p (6KA) 18.00 Nos, LED phase light volt meter type (RYB), Earthing bar, Neutral bar and any accessories (i.e. Earth/neutral bar, Nut/bolts, Screws/rawl plugs, Jumper connections & etc.) required at site. Complete in all respects as approved by the engineer incharge. (for MCCB & MCBs Hitachi, Schneider Electric, Legrand or equivalent).	22.00	No			
23	N.S	Supply, installation, connection & commissioning of distribution boards, (Sub Main DB-E), Open type Wall mounted design, made of M.S. Sheet 18 SWG with hinged glass door, handle, and 2 coats of Approved paint, (Size 18"x24") including Incoming Main Molded Case Circuit Breaker of 50 Amps T-p (10KA) 1.00 No, Distribution Miniature Circuit Breaker of 10/16 Amps S-p (6KA) 18.00 Nos, LED phase light volt meter type (RYB), Earthing bar, Neutral bar and any accessories (i.e. Earth/neutral bar, Nut/bolts, Screws/rawl plugs, Jumper connections & etc.) required at site. Complete in all respects as approved by the engineer incharge. (for MCCB & MCBs Hitachi, Schneider Electric, Legrand or equivalent).	22.00	No		Each	
24	N.S	Supply, installation, connection & commissioning of distribution boards, (DBs), Floor Standing design, made of M.S. Sheet 14 SWG with hinged door, handle, catchers and 2 coats of Approved paint, (Size 7"x6"x18") including Incoming Main Molded Case Circuit Breaker 1000 Amps T-p (36KA) 1.00 No, For DB-N (Main Molded Case Circuit Breaker 630 Amps T-p (36KA) 1.00 No and distribution Molded Case Circuit Breaker 80 Amps T-p (15KA) 21.00 Nos) & for DB-E (Main Molded Case Circuit Breaker 400 Amps T-p (36KA) 1.00 No and distribution Molded Case Circuit Breaker 50 Amps T-p (15KA) 21.00 Nos) respectively, Digital Volt, Selector switches, LED Phase lights, Copper bus bars, Earthing bar, Neutral bar and any accessories required at site. Complete in all respects as approved by the engineer incharge. (for MCCB General Electric, Schneider Electric & Legrand).	1.00	No		Each	
25	N.S	Providing and Laying earthing for Electric Machines i/c boring up to moisture level (up to 60' below ground level) 4" i/d including copper strip 14" x 2" x 1/4" (350 x 50 x 6 mm) connecting with 1 Nos.bare copper wire of No.8 SWG to be run in PVC pipe 20mm i/d, 1½" i/d GI pipe 5' long, GI tee & plug for watering also includes common salt, Lime (slaked) and charcoal around copper strip i/c connecting with Electric machine. Complete in all respects as approved and as directed by the engineer incharge.	3.00	No		Each	
26	N.S	Supply & installation of Wall Light with 3 Watt LED Blub (Philips) (220V~, 6500K) i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge.	130.00	No		Each	
27	N.S	Supply & installation of LED 2'x 2' Ceiling Panel Light 36W (220V~, CW or WW) i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips 36S/865 PSU W60L60 GM G2 or Equivalent)	240.00	No		Each	
28	N.S	Supply & installation of 2' x 2' False Ceiling Fan 16" swipe (99.99% Copper), remote controlled i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Royal, Super-asia or Equivalent)	110.00	No		Each	

29	N.S	Providing & laying of 240 mm ² 4-Core Copper Conductor PVC/PVC/steel wire armoured/PVC (Armoured) cable i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Newage, Pakistan, Copper Gate, Fast or Equivalent)	100.00	M		Per M	
30	N.S	Supply & installation of PVC Fan Box with iron bar i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge. (GM, Bita or equivalent)	425.00	No		Each	
31	N.S	Horizontal boring 4" dia underneath roads, walking path & ramps of houses for crossing of Electric power cables, PVC pipes or Water lines. Complete in all respects as approved and as directed by the engineer incharge.	100.00	Rft		Per Rft	
						Total	

		External Work (Guard Hut, Visitor Room, Tuck Shop & Boundary Wall)					
		Civil Work					
1	3/21	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). b) In ordinary soil.	6000.00	Cft		%o Cft	
2	6/5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): Ratio 1: 2: 4	200.00	Cft		% Cft	
3	6/3	Cement concrete brick or stone ballast 1½ " to 2" (40 mm to 50 mm) gauge, in foundation and plinth:- i) Ratio 1:4:8 i) Ratio 1:6:12	350.00 3500.00	Cft Cft		% Cft % Cft	
4	6/6	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:- Type C (nominal mix 1: 2: 4)	350.00	Cft		Per Cft	
5	26/42	Spraying anti-termite liquid mixed with water in the ratio of 1:40	600.00	Sft		% Sft	
6	7/4	Pacca brick work in foundation and plinth in:- Cement, sand mortar: Ratio 1:6	8500.00	Cft		% Cft	
7	6/33	Providing and laying damp proof course of cement concrete 1:2: 4 (using cement, sand and shingle), including bitumen coating:- with one coat bitumen and one coat polythene sheet 500 gauge. 1.5" thick (40 mm)	1900.00	Sft		% Sft	
8	6/35	Providing and laying vertical damp proof course with cement sand plaster and bitumen coating:- with one coat of bitumen and one coat of polythene sheet 500 gauge: Ratio 1:3 ¾ " thick (20 mm)	500.00	Sft		% Sft	
9	3/15 +3/17	Filling, watering and ramming earth under floors:- i) with surplus earth from foundation, etc. ii) with new earth excavated from outside,lead upto 1/4 mile	1500.00 3000.00	Cft Cft		%o Cft %o Cft	
10	7/5	Pacca brick work in Cement, sand mortar:- Ratio 1:5 i) Ground Floor (7/5-i)	2500.00	Cft		% Cft	
11	7/5	Pacca brick work in Cement, sand mortar:- Ratio 1:4 i) Ground Floor	100.00	Cft		% Cft	
12	11/10	Cement plaster 3/8" (10 mm) thick under soffit of R.C.C. roof slabs only, upto 20' height. Ratio 1:3	1000.00	Sft		% Sft	
13	11/9	Cement plaster 1:4 upto 20' (6.00 m) height:- i) ½" (13 mm) thick (11/9-b) ii) 3/4" (20 mm) thick	37500.00 6000.00	Sft Sft		% Sft % Sft	
14	6/9	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 Deformed Bar 60-Grade	1500.00	Kg		% Kg	

15	6/6	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 mix1:2:4) using harrow sand Ground Floor	550	Cft		Per Cft	
16	7/30	Supplying and filling sand under floor; or plugging in wells	400.00	Cft		% Cft	
17	6/2	Dry rammed brick or stone ballast, 1½" to 2"(40 mm to 50 mm) gauge.	400.00	Cft		% Cft	

18	12/50	Providing and fixing 1½" (40mm) thick solid flush door shutter sterling or equivalent with commercial ply (5 mm thick) on both sides double pressed and deodar wood lipping 1½"x3/8" (40mm x 10mm) around shutter including chromium plated fitting, iron hinges with aluminium kick plate 22 SWG on both sides & finger plate complete in all respect.	200.00	Sft	Per Sft	
19	25/53	Providing and fixing all types of glazed aluminium windows of anodized champagne colour partly fixed and party sliding using deluxe section of approved manufacturer having Frame of size100mmx 30mm using frame at bottom, at top and side leaf frame sections of 60mm x 23mm at top & bottom and size 45mm x25mm at center and size 45mm x 25mm at sides, Jali leaf frame size 43mm x 13mm i/c fine quality aluminum jali, 5mm thick imported tinted glass with rubber gas ket using approved standard latches, wheel, stopper, brush chennel angle joint and hardware etc.complete in all respect 2 mm thick	250.00	Sft	Per Sft	
20	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.	1000.00	Kg	% Kg	
21	13/31	Preparing surface & painting with 3 coats Emulsion paint complete in all respects	3000.00	Sft	% Sft	
22	13/5	Painting new surface: Preparing surface and painting of doors and windows any type (including edges):- 3 coats	200.00	Sft	% Sft	
23	13/32	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: new surface 2 coats i) upto 20' height	41000.00	Sft	% Sft	
24	10/15	Providing and laying topping of cement concrete 1:2:4, including surface finishing and dividing in panels:- 2" thick	400.00	Sft	% Sft	
25	12/18	Providing and fixing sliding bolt to doors:- iron sliding bolt, 12" (300 mm) long	10.00	No	Each	
26	10/42	Providing and fixing marble strip of any shade for dividing the mosaic flooring into panels Size 1½"x3/8" (40x10mm)	400.00	Rft	Per Rft	
27	7/7	Pacca brick work other than building upto 10ft. (3 m) height. cement, sand mortar:- 'Ratio 1:5	8000.00	Cft	% Cft	
28	10/43	Providing and laying Tuff pavers, having 7000 PSI, crushing strength of approved manufacturer, over 2" to 3" sand cushion i/c grouting with sand in joints i/c finishing to require slope complete in all respect. (50% Grey / 50% Coloured) 60 mm thick	9500.00	Sft	P/Sft	
					Total	
1	N.S	Civil Work (Non-Schedule) Providing, Fabricating and fixing 16 SWG M.S sheet hollow pressed Jamb frame (Factory primme) for door welded with MS flat size 10"x1"x1/8", hold fast i/c welding/screwing 4" long iron hinges, filling concrete for the jamb frame and embedding hold fast in the adjoining walls with 1:2:4 concrete, enamel painting etc. complete in all respects as show on the drawing and/ or as directed by the engineer, in conformance with following size i) 10"x2-1/2" ii) 6"x2-1/2"	250.00 55.00	Sft Sft	Per Sft Per Sft	
2	N.S	Providing & Fixing Fair Face Brick Guttka 9"x3"x2.25" (straight or on edges) joint in 1:3 cement surkhi over 3/4" thick (AVG) 1:4 C/S base mortor on wall including laying ornamental bricks in approved pattern, scaffolding & during at any height, complete in all respect as shown on the drawing or as directed by the engineer incharge.	2000.00	Sft	Per Sft	
3	N.S	Providing and laying Floor Tile 24"x24" Granite with dry/wet/venied application, DWV series Polished (Dark color) class SB including 05% Wastage laid in cement with pigment on a bed of 3/4" thick cement sand mortar 1:2, complete in all respects as approved by Engineering inch.	950.00	Sft	Per Sft	
4	N.S	Providing and laying Floor Tile 12"x18" SP Series on matching color base (Glossy) Dark Color Rectified SB) including 05% Wastage laid in cement with pigment on a bed of 3/4" thick cement sand mortar 1:2, complete in all respects as approved by Engineer incharge	60.00	Sft	Per Sft	
5	N.S	Providing and laying Dado Tile 12"x18" SP Series on matching color base (Glossy) Dark Color Rectified SB) including 05% Wastage laid in cement with pigment on a bed of 3/4" thick cement sand mortar 1:2, complete in all respects as approved by Engineer incharge	250.00	Sft	Per Sft	
6	N.S	Providing & Fixing marble 3/4" thick Buticina fency 12"X12" with floating coat of cement over a bed of 3/4" thick cement				

		sand mortar 1:2 over 1" thick PCC 1:2:4 Gray cement, including colour pigment to match with the colour of marble tiles laid with cement sand mortar 1:2 rubbing and chemical Polishing, as approved by Engineering Incharge	30.00	Sft	Per Sft	
7	N.S	M.S Steel Grill for windows comprising of 1/2"x1/2" square bar @ 4" c/c with 1.25"x1.25"x1/8" MS box angle iron for frame including painting 3 coats complete in all respect as shown on the drawings, specification and/ or as directed by the Engineer incharge	350.00	Kg	Per Kg	
8	N.S	Providing and fixing 1½" (40mm) thick uPVC flush door of approved design & make, all hardware/ accessories chromium plated fitting, iron hinges with aluminium kick plate 22 SWG on both sides & finger plate complete in all respect as approved by the engineer incharge	50.00	Sft	Per Sft	
9	N.S	Putti filling for emulsion paint including rubbing and primary coat complete in all respects as approved by the Engineer Incharge.	3000.00	Sft	Per Sft	
10	N.S	Providing and fixing ornamental partial wooden architrave 3"x1/2" (75mmx12mm) tapered to 1/4" (6mm) all along the door frame complete in all respect as approved by the Engineer Incharge.	200.00	Sft	Per Sft	
11	N.S	Providing and fixing Razor cutt wire fencing double sharp four pointed razors @ 1- 1/4" c/c with 'U' shaped cladding over M.S wire making ring of 24" dia 3 Nos rings in one Rft lenth at 0.66 Kg P/Rft fixed on wall with M.S angle iron post 1.5"x1.5"x3/16" 2'-3" high + and 9" embeded in base of P.C.C 1:2:4 (9"x9"x9"at every 4' apart i/c 2 Nos bars 3/8" dia welded horizontally with angle iron, i/c binding wire i/c painting posts etc. complete in all respects.	1200.00	Rft	Per Rft	
12	N.S	Providing and laying Floor Tile 24"x24" with dry/wet/venied application, Salt'Pepper (SPM-110) Dark Polished SB including 05% Wastage laid in cement with pigment on a bed of 3/4" thick cement sand mortar 1:2, complete in all respects as approved by Engineering incharge.	50.00	Sft	Per Sft	
					Total	
1	3/44	Plumbing work Excavation of trenches in all kinds of soil, except cutting 'rock, for water supply pipe lines upto 5 ft. (1.5 m) depth from ground level, including trimming, dressing sides, levelling the beds of trenches to correct grade and cutting pits for joints, etc	500.00	Cft	%o Cft	
2	3/42	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 upto: i) 0 to 7 ft	500.00	Cft	%oCft	
3	19/19	Providing and fixing looking glass 55x40 cm (22"x16") size, and 5 mm thick, first quality.	1.00	No	Each	
4	23/22	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. Light Quality a) ¾" i/d (20 mm) b) 1" i/d (25 mm)	100.00 100.00	Rft Rft	P/Rft P/Rft	
5	19/1	Providing and fitting glazed earthen ware water closet European type, excluding seat and cover:- coloured	1.00	No	Each	
6	19/2	Providing and fixing, double seat and cover only. bakelite	1.00	No	Each	
7	19/3	providing and fitting glazed earthen ware water closet, squatter type (Orisa pattern), combined with foot rest. coloured	3.00	No	Each	
8	19/6	Providing and fitting glazed earthen ware wash hand basin 56x40 cm (22"x16") including bracket set, waste pipe and waste coupling, etc. i) coloured, with pedestal	3.00	No	Each	
9	19/12	Providing and fitting plastic made low down flushing cistern 13.63 litre (3 gallons) capacity, including bracket set, copper connection, etc. complete. Coloured	3.00	No	Each	
10	19/22	Providing and fitting:- i) Plastic soap dish ii) Plastic toilet paper holder iii) Plastic towel rail iv) Plastic shelf 60x13 cm (24"x5") with bracket and railing.	3.00 3.00 3.00 3.00	No No No No	Each Each Each Each	

11	19/27	Providing and fixing chromium plated tee stop cock 15mm (½")	6.00	No		Each	
12	19/26	Providing and fixing chromium plated bib cock:- 1.5 cm (½")	3.00	No		Each	
13	19/28	Providing and fixing chromium plated shower rose:- 1.5x10 cm (½"x4")	1.00	No		Each	
14	19/29	Providing and fixing, chromium plated mixing valve, for wash hand basin, sink or shower.	1.00	No		Each	
15	19/34	Providing and fitting "P" trap:- 10 cm (4") glazed.	3.00	No		Each	
						Total	
1	N.S	Plumbing work (Non-Schedule) Providing, fixing, cutting, jointing & testing uPVC drainage pipes of approved quality, i/c uPVC drainage fitting with soil vent cement jointing, " Type-B" or approved equal, rates i/c cost of clamping to walls and ceiling, hangers supports, cutting through wall & providing sleeves through concrete slab for pipe line & pipe fitting of following dia meters i) 4" i/d ii) 6" i/d	50.00 50.00	Rft Rft		Per Rft Per Rft	
2	N.S	Providing, fixing, jointing and testing polypropylene Random (PPR) pipes of approved quality, for cold water as per DIN 8077-8078, PN-20 for pipes and DIN 16962, PN-25 for fittings (polyfusion welded joints) inside building including fittings and specials (sockets, tees, elbows, bends, crosses, reducers, adaptor, plugs and union etc) recessed in walls or suspended form roof slab or run in chases including pipe hangers, supports, cutting and making good the chases and hole complete in all respects. i) 25mm o.d ii) 32mm o.d	100.00 150.00	Rft Rft		Per Rft Per Rft	
3	N.S	Providing & Fixing uPVC P-trap 4" dia of approved quality	3.00	No		Each	
4	N.S	Providing and installing Brass Ball/ Handle valves of approved quality of following nominal dia, including jointing, fitting, painting, testing, complete in all respects to match with PPR/uPVC pipes of following diameters. i) 25 mm O.D ii) 32 mm O.D	1.00 1.00	No No		Each Each	
5	N.S	Providing & Fitting Steel floor jali best quality complete in all respect as per specifications and drawings and as approved by the Engineer Incharge.	3.00	No		Each	
						Total	
		Electrical Work (Schedule)					
1	24/6	Supply and erection PVC pipe for recessed wiring (main and sub-main) purpose, including bends, specials, etc. in floor, wall or trenches:- 50 mm i/d	200.00	Rft		Per Rft	
2	24/3	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. 25 mm i/d	1750.00	Rft		Per Rft	
3	24/10-a	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).250/440 volts, PVC insulated: i) 7/1.63 mm (7/0.064") ii) 7/0.74 mm (7/0.029") iii) 7/1.12 mm (7/0.044")	700.00 850.00 3700.00	Rft Rft Rft		Per Rft Per Rft Per Rft	
4	24/13	Supply and erection of copper conductor cables for service connection, in prelaid pipe/G.I. wire/trenches, etc. (rate for cable only):- PVC insulated, PVC sheathed 4 core, 660/1100 volt non armoured cable:- i c(vi) 7/1.63 mm (7/0.064")	250.00	Rft		Per Rft	
5	3/44	Excavation of trenches in all kinds of soil, except cutting 'rock, for water supply pipe lines upto 5 ft. (1.5 m) depth from ground level, including trimming, dressing sides, levelling the beds of trenches to correct grade and cutting pits for joints, etc. complete in all respects.	15000.00	Cft		%o Cft	
6	3/15-i	Filling, watering and ramming earth under floors:- with surplus earth from foundation, etc.	15000.00	Cft		%o Cft	
7	7/23	Dry brick pitching	600.00	Cft		% Cft	
						Total	
		Electrical Work (Non-Schedule)					
1	N.S	Wiring of light or fan point from switch board to the point with 3-Nos of 1.5 mm² (3/0.029") 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 in 20mm (3/4") PVC pipe i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge	30.00	No		Each	

2	N.S	Circuit wiring from MCBs board to gang switch board/multi light plug with 3-Nos of 2.5 mm² (7/0.029") 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 in 25mm (1") PVC pipe i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge	10.00	No		Each	
3	N.S	Wiring of light or fan from point to point with 3-Nos of 1.5 mm² (3/0.029") 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 in 20mm (3/4") PVC pipe i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge	15.00	No		Each	
4	N.S	Wiring of Multi/light plug from point to point with 3-Nos of 2.5 mm² (7/0.029") 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 in 20mm (¾") PVC pipe i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge	6.00	No		Each	
5	N.S	Circuit wiring from MCBs board to Power Plug with 3-Nos of 6 mm² (7/0.044") 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 in 25mm (1") PVC pipe i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge	5.00	No		Each	
6	N.S	Supply & installation of LED 17W Down Light (6" Surface Mounted, 220V~) i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips Meson or Equivalent)	8.00	No		Each	
7	N.S	Supply & installation of Wall Mounted LED Batten Light 20W (220V~, 6500K) i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips Slimline or Equivalent)	12.00	No		Each	
8	N.S	Supply & installation of Wall Bracket Fan 18" (99.99% Copper) i/c any accessories (i.e. mounting screws & etc) as required at site. Complete in all respect as directed and approved by the Engineer Incharge (Younis, Tamoor, Pakfan or Equivalent)	1.00	No		Each	
9	N.S	Supply & installation of Metal Body Wall Bracket Fan 24" (99.99% Copper) i/c any accessories (i.e. widing of mounting holes and 4.00nos of rawl bolts ¼" etc) as required at site. Complete in all respect as directed and approved by the Engineer Incharge (SK mega or Equivalent)	1.00	No		Each	
10	N.S	Supply & installation of Ceiling Fans, 56" sweep (As per "Pakistan Energy Lable" certified manufacturers). i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge	5.00	No		Each	
11	N.S	Supply & installation of PVC Exhaust fan 12" (99.99% Copper) i/c any accessories (i.e. screw. Rawl plug or steel nail, etc.) as required at site. Complete in all respect as directed and approved by the Engineer Incharge (GFC, Indus, Pakfan or Equivalent)	5.00	No		Each	
12	N.S	Supply & installation of Universal 3-Pole Socket with 13A Switch with plastic back box 3"x 3" i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips ECO Series Q2 or Equivalent)	10.00	No		Each	
13	N.S	Supply & installation of a Power plug 15A with plastic back box 3"x 3" i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips ECO Series Q2 or Equivalent)	5.00	No		Each	
14	N.S	Supply & installation of a Fan Dimmer 300W with plastic back box 3"x 3" i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips ECO Series Q2 or Equivalent)	5.00	No		Each	
15	N.S	Supply & installation of a Four Single Pole Switch Plate with plastic back box 3"x 3" i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips ECO Series Q2 or Equivalent)	3.00	No		Each	
16	N.S	Supply & installation of a Six Single Pole Switch Plate with plastic back box 3"x 6" i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge. (Philips ECO Series Q2 or Equivalent)	2.00	No		Each	
17	N.S	Supply & installation of a Eight Single Pole Switch Plate with plastic back box 3"x 6" i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge. (Philips ECO Series Q2 or Equivalent)	5.00	No		Each	
18	N.S	Supply & installation of a Four Single Pole Switch & Two 2-Pin Socket Plate with plastic back box 3"x 6" i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge. (Philips ECO Series Q2 or Equivalent)	2.00	No		Each	
19	N.S	Supply, installation, connection & commissioning of distribution boards, (Sub Main DB-N), Open type Wall mounted design, made of M.S. Sheet 18 SWG with hinged glass door, handle, and 2 coats of Approved paint, (Size 18"x24") including Incoming Main Molded Case Circuit Breaker of 80 Amps T-p (15KA) 1.00 No, Distribution Miniature Circuit Breaker of 10/20 Amps S-p (6KA) 18.00 Nos, LED phase light volt meter type (RYB), Earthling bar, Neutral bar and any accessories (i.e. Earth/neutral bar, Nut/bolts, Screws/rawl plugs, Jumper connections & etc.) required at site. Complete in all respects as approved by the engineer incharge. (for MCCB & MCBs Hitachi, Schneider Electric, Legrand or equivalent).	1.00	No			

20	N.S	Providing and Laying earthing for Electric Machines l/c boring up to moisture level (up to 60' below ground level) 4" i/d including copper strip 14" x 2" x 1/4" (350 x 50 x 6 mm) connecting with 1 Nos.bare copper wire of No.8 SWG to be run in PVC pipe 20mm i/d, 1½" i/d GI pipe 5' long, GI tee & plug for watering also includes common salt, Lime (slaked) and charcoal around copper strip l/c connecting with Electric machine.	2.00	No		Each	
21	N.S	Supply & installation of Wall Light with 3 Watt LED Blub (Philips) (220V~, 6500K) i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge.	12.00	No		Each	
22	N.S	Supply & installation of PVC Fan Box with iron bar i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge. (GM, Bita or equivalent)	5.00	No		Each	
23	N.S	Supply & Installation & commissioning of 400 KVA (11 KV/415V) 3-phase, 50 Hz step down Pad mounted / enclosed type distribution Transformer having connection group, DY-11 oil immersed natural cooled with HV & LV protections (as per WAPDA standard) i/c any other accessories required at site. Complete in all respects as approved by the Engineer incharge. (with complete purchase and tax documents) (PEL, Transfopower or Equivalent)	1.00	No		Each	
24	N.S	Supply & Laying of 3-core, 120mm², XLPE/PVC/SWA/PVC, 8.7/15Kv Aluminum conductor cable i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Fast Cable or Equivalent)	90.00	M		Per M	
25	N.S	Supply and installation of 120mm², 3-core, 11-KV Termination Kit i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge.(Raychem or Equavalent)	2.00	No		Each	
26	N.S	Supply & installation of Die-Cast Aluminum LED Boundary Light 27W (220V~, 6500K) i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips, BRP210 LED 34 or Equivalent).	48.00	No		Each	
27	N.S	Supply & installation of 11-KV Dropout Fuse assemblies Set i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge	1.00	No		Each	
						Total	

The Islamia University of Bahawalpur
Construction of New Boys Hostel (No.1) at Baghdad-ul-Jadeed Campus

Civil Work			MRS Jan to Jun, 2021				
No.	Ref.	Description	Quantity		Rate	Unit	Amount
1	3/21	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). b) In ordinary soil.	122500.00	Cft		%o Cft	
2	6/5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): Ratio 1: 2: 4	18500.00	Cft		% Cft	
3	6/3	Cement concrete brick or stone ballast 1½ " to 2" (40 mm to 50 mm) gauge, in foundation and plinth:- i) Ratio 1:4:8	14250.00	Cft		% Cft	
		i) Ratio 1:6:12	7800.00	Cft		% Cft	
4	6/6	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:- Type C (nominal mix 1: 1.5: 3)	31800.00	Cft		Per Cft	
5	26/42	Spraying anti-termite liquid mixed with water in the ratio of 1:40	49000.00	Sft		% Sft	
6	7/4	Pacca brick work in foundation and plinth in:- Cement, sand mortar: Ratio 1:6	8200.00	Cft		% Cft	
7	6/33	Providing and laying damp proof course of cement concrete 1:2: 4 (using cement, sand and shingle), including bitumen coating:- with one coat bitumen and one coat polythene sheet 500 gauge. 1.5" thick (40 mm)	1400.00	Sft		% Sft	
8	9/12	Two coats of bitumen laid hot using 34 lbs. per %Sft, or 1.72 Kg per square metre over roof and blinded with sand at one Cft. per %Sft. (0.003 cu.m per sq.m)	16000.00	Sft		% Sft	
9	3/15 +3/17	Filling, watering and ramming earth under floors:- i) with surplus earth from foundation, etc. ii) with new earth excavated from outside,lead upto 1/4 mile	47000.00 174500.00	Cft Cft		%o Cft %o Cft	
10	7/5	Pacca brick work in Cement, sand mortar:- Ratio 1:5 i) Ground Floor (7/5-i)	27000.00	Cft		% Cft	
		ii) First Floor	26000.00	Cft		% Cft	
		iii) Second Floor	26000.00	Cft		% Cft	
		iv) Third Floor	1500.00	Cft		% Cft	
11	7/5	Pacca brick work in Cement, sand mortar:- Ratio 1:4 i) Ground Floor	5850.00	Cft		% Cft	
		ii) First Floor	5600.00	Cft		% Cft	

		iii) Second Floor	5550.00	Cft		% Cft	
12	11/10	Cement plaster 3/8" (10 mm) thick under soffit of R.C.C. roof slabs only, upto 20' height. Ratio 1:3	106500.00	Sft		% Sft	
13	11/9	Cement plaster 1:4 upto 20' (6.00 m) height:- i) ½" (13 mm) thick	215000.00	Sft		% Sft	
		ii) 3/4" (20 mm) thick	127000.00	Sft		% Sft	
14	11/28	Extra for lime, mud or cement plaster and pointing from 20' (6.00 m) and above for each additional 10' (3.00 m) height or part thereof.	185000.00	Sft		% Sft	
15	6/9	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 Deformed Bar 60-Grade	429000.00	Kg		% Kg	
16	6/6	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 mix1:1½:3) using harrow sand i) Ground Floor	33000.00	Cft		Per Cft	
		ii) First Floor	28000.00	Cft		Per Cft	
		iii) Second Floor	28000.00	Cft		Per Cft	
		iv) Third Floor	500.00	Cft		Per Cft	
		v) Type C (nominal mix1:2:4) Ground Floor	2000.00	Cft		Per Cft	
		vi) Type C (nominal mix1:2:4) First Floor	1900.00	Cft		Per Cft	
		vii) Type C (nominal mix1:2:4) Second Floor	1650.00	Cft		Per Cft	
17	7/30	Supplying and filling sand under floor; or plugging in wells	12000.00	Cft		% Cft	
18	6/2	Dry rammed brick or stone ballast, 1½" to 2"(40 mm to 50 mm) gauge.	32500.00	Cft		% Cft	
19	12/50	Providing and fixing 1½" (40mm) thick solid flush door shutter sterling or equivalent with commercial ply (5 mm thick) on both sides double pressed and deodar wood lipping 1½"x3/8" (40mm x 10mm) around shutter including chromium plated fitting, iron hinges with aluminium kick plate 22 SWG on both sides & finger plate complete in all respect.	10750.00	Sft		Per Sft	
20	25/51	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 all of 2 mm thickness 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. (2mm thick)	1000.00	Sft		Per Sft	
21	25/52	Providing and fitting all types of glazed aluminium windows of anodised bronze colour partly fixed and partly sliding using delux sections of M/s Al-Cop or Pakistan 'Cables having frame size of 100 x 20 mm (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.	500.00	Sft		Per Sft	
22	25/53	Providing and fixing all types of glazed aluminium windows of anodized champagne colour partly fixed and party sliding using deluxe section of approved manufacturer having Frame of size100mmx 30mm using frame at bottom, at top and side leaf frame sections of 60mm x 23mm at top & bottom and size 45mm x25mm at center and size 45mm x 25mm at sides, Jali leaf frame size 43mm x 13mm i/c fine quality aluminum jali, 5mm thick imported tinted glass with rubber gas ket using approved standard latches, wheel, stopper, brush chennel angle joint and hardware etc.complete in all respect 2 mm thick	14000.00	Sft		Per Sft	
23	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.	3500.00	Kg		% Kg	
24	13/31	Preparing surface & painting with 3 coats Emulsion paint	372000.00	Sft		% Sft	

		complete in all respects				
25	13/5	Painting new surface: Preparing surface and painting of doors and windows any type (including edges):- 3 coats	26200.00	Sft	% Sft	
26	13/32	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: new surface 2 coats, upto 20' height	60000.00	Sft	% Sft	
27	13/39	Extra labour for painting, varnishing, etc. from 20' (6.10 m) height and above, for every additional 10' (3.05 m) height,or part thereof, requiring scaffolding.	32500.00	Sft	% Sft	
28	12/7	First class deodar wood wrought joinery in doors and windows, etc. panelled, or panelled or glazed, or fully glazed, fixed in position, including chowkat, holdfast,hinges, tower bolts, chocks, rubber stop, cleats/G.I. clamps, handles and chord with hooks, etc. complete '(excluding sliding bolt or lock):- 1½" thick (40 mm)	500.00	Sft	Per Sft	
29	10/15	Providing and laying topping of cement concrete 1:2:4, including surface finishing and dividing in panels:- 2" thick	8200.00	Sft	% Sft	
30	12/18	Providing and fixing sliding bolt to doors:- iron sliding bolt, 12" (300 mm) long	385.00	No	Each	
31	10/42	Providing and fixing marble strip of any shade for dividing the mosaic flooring into panels Size 1½"x3/8" (40x10mm)	5600.00	Rft	Per Rft	
32	10/43	Providing and laying Tuff pavers, having 7000 PSI, crushing strength of approved manufacturer, over 2" to 3" sand cushion i/c grouting with sand in joints i/c finishing to require slope complete in all respect. (50% Grey / 50% Coloured) 60 mm thick	17500.00	Sft	P/Sft	
33	6/24	Providing and fixing 6 in(150 mm). wide curved sheet of required shape fixed on face of the construction joint with G.I.screw,1.5 in (40 mm) long to cover construction joints vertically:- G.I. sheet, 18 SWG	400.00	Rft	Per Rft	
34	25/36	Providing and fixing collapsible gate made of 2"x2"x¼" (50x50x6 mm) tee iron at top and bottom, channel iron verticals ¾"x¼"x¼"x1/8" at 3" (75 mm) to 5" (125 mm) centre to centre (approximate) and flat iron crosses 3"x3/16" (75x5 mm), and best quality rollers at bottom of 3" (75 mm) diameter including holdfasts, 'handles 12" (300 mm) long of ¾"x¼"x¼"x1/8" (20x6x6x3 mm) channel iron, locking arrangement inside and outside, painting 3 coats of black Japan enameled, complete in working order.	360.00	Sft	Per Sft	
35	10/18	Extra labour for each storey above ground, for mosaic,conglomerate, tiles, stone and wooden floor.	73000.00	Sft	% Sft	
36	9/45	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 1.5" thick	36500.00	Sft	% Sft	
37	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.mbitumen coating sand blinded.	36500.00	Sft	% Sft	
38	9/15	Khuras on roof 2'x2'x6" (600 x 600 x 150 mm)	16.00	No	Each	
39	26/37	Supplying and laying polythene sheet over D.P.C. under floors and on roofs, etc. 500 gauge (.005" thick)	73000.00	Sft	Per Sft	
40	6/12	Providing and fixing ornamental cement jali 2" (50 mm) thick (1: 2: 4), without steel.	200.00	Sft	Per Sft	
41	6/28	Providing embedding 10" (250 mm) wide ¼" (6 mm) thick rubber water stopper in expansion joints of R.C.C. roof slab complete in all respects.	800.00	Rft	Per Rft	
					Total	
1	N.S	Civil Work (Non-Schedule) Providing, Fabricating and fixing 16 SWG M.S sheet hollow pressed Jamb frame (Factory primme) for door welded with MS flat size 10"x1"x1/8", hold fast i/c welding/screwing 4" long iron hinges, filling concrete for the jamb frame and embedding hold fast in the adjoining walls with 1:2:4 concrete, enamel painting etc. complete in all respects as show on the drawing and/ or as directed by the engineer, in conformance with following size i) 10"x2-1/2" ii) 6"x2-1/2"	14500.00	Sft	Per Sft	
			3600.00	Sft	Per Sft	

2	N.S	Providing & Fixing Fair Face Brick Guttka 9"x3"x2.25" (straight or on edges) joint in 1:3 cement surkhi over 3/4" thick (AVG) 1:4 C/S base mortor on wall including laying ornamental bricks in approved pattern, scaffolding & during at any height, complete in all respect as shown on the drawing or as directed by the engineer incharge.	53000.00	Sft	Per Sft	
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3	N.S	Providing & Laying pre-polished granite marble slab 3/4" thick of aproved quality colour, shade & texture for stair treads set over 3/4" thick 1:3 cement sand mortor in i/c rendering off 2 Nos non-skirdding grooves (3/4" wide & 1/4" deep) in each steps, rounding off front edges, complete in all respects as shown in the drawing and or as directed by the engineer incharge	3500.00	Sft	Per Sft	
4	N.S	Providing and laying Floor Tile 24"x24" Granite with dry/wet/venied application, DWV series Polished (Dark color) class SB including 05% Wastage laid in cement with pigment on a bed of 3/4" thick cement sand mortar 1:2, complete in all respects as approved by Engineering inch.	98000.00	Sft	Per Sft	
5	N.S	Providing and laying Dado Tile 24"x4" Granite with dry/wet/venied application, DWV series Polished (Dark color) class SB including 05% Wastage laid in cement with pigment on a bed of 3/4" thick cement sand mortar 1:2, complete in all respects as approved by Engineering inch.	10000.00	Sft	Per Sft	
6	N.S	Providing and laying Floor Tile 12"x18" SP Series on matching color base (Glossy) Dark Color Rectified SB) including 05% Wastage laid in cement with pigment on a bed of 3/4" thick cement sand mortar 1:2, complete in all respects as approved by Engineer incharge (for Toilet Block)	19000.00	Sft	Per Sft	
7	N.S	Providing and laying Dado Tile 12"x18" SP Series on matching color base (Glossy) Dark Color Rectified SB) including 05% Wastage laid in cement with pigment on a bed of 3/4" thick cement sand mortar 1:2, complete in all respects as approved by Engineer incharge (for Toilet Block)	41000.00	Sft	Per Sft	
8	N.S	Providing & Fixing marble 3/4" thick Buticina fency 12"X12" with floating coat of cement over a bed of 3/4" thick cement sand mortor 1:2 over 1" thick PCC 1:2:4 Gray cement, including colour pigment to match with the colour of marble tiles laid with cement sand mortor 1:2 rubbing and chemical Polishing, as approved by Engineering Incharge	1500.00	Sft	Per Sft	
9	N.S	M.S Steel Grill for windows comprising of 1/2"x1/2" square bar @ 4" c/c with 1.25"x1.25"x1/8" MS box angle iron for frame including painting 3 coats complete in all respect as shown on the drawings, specification and/ or as directed by the Engineer incharge	16150.00	Kg	Per Kg	
10	N.S	Providing and fixing 1½" (40mm) thick uPVC flush door of approved design & make, all hardware/ accessories chromium plated fitting, iron hinges with aluminium kick plate 22 SWG on both sides & finger plate complete in all respect as approved by the engineer incharge	3800.00	Sft	Per Sft	
11	N.S	Providing and fixing 3/4" thick PVC Board shutter with one side leminate & 3/4" x 3/4" PVC beading over wardrobe frame of 3"x1.5" M.S Box pipe 18 SWG including catchers, lock, CP hanger rod with hooks, hydraulic hinges, on beading complete in all respects including	21000.00	Sft	Per Sft	

12	N.S	Putti filling for emulsion paint including rubbing and primary coat complete in all respects as approved by the Engineer Incharge.	372000.00	Sft	Per Sft	
13	N.S	Providing & Laying pre-polished China verona marble slab 1" thick rendered with bevelled edges on counter trop set over 1/2" thick 1:3 cement sand mortor and expose joint fill with matching colour grout of wihte cement and colour pigment complete in all respects as shown in the drawing and or as directed by the engineer incharge	500.00	Sft	Per Sft	
14	N.S	Providing & Fixing Cabnet consisting of lamination board 3/4" thick for leaves, kail wood frame 2.50" x 1", Gola for 'leaf 3/4" x 3/4" including siprit polish for gola complete in all respects as per design, drawing & patern as approved by the engineer incharge (Down portion) Floor Mounted Cabinets (Shutters only)	475.00	Sft	Per Sft	
15		Providing & Fixing Cabnet upper portion consisting of lamination board 3/4" thick box and leaves, Partal wood frame 3" x 1", Gola for 'leaf 3/4" x 3/4" including siprit polish for gola complete in all respects as per design, drawing & patern as approved by the Engineer Incharge Wall Hanging Cabinets	350.00	Sft	Per Sft	

16	N.S	Providing & Fixing Hydraulic door closer including all hardware fitting best quality complete in all respect as approved by Engineer Incharge.	30.00	No	Each	
17	N.S	Providing and fixing ornamental partial wooden architrave 3"x1/2" (75mmx12mm) tapered to 1/4" (6mm) all along the door frame complete in all respect as approved by the Engineer Incharge.	5000.00	Sft	Per Sft	
18	N.S	2'-9" high stair railing comprising of 2-1/2" dia 16 gauge S.S pipe hand rail fixed with same dia pipe blusters as specified distance fixed at top of steps with expansion bolts, 3 Nos of 16 gauge 1/2" dia S.S pipes horizontally fixed with blusters compelte in all respects	650.00	Rft	Per Rft	
19	N.S	Providing and fixing Steel door consisting of 16 gauge M.S sheet welded with M.S "L" section, 1-1/4" x 1-1/4" x 1/8" M.S "L" section welded with M.S Sheet, hinged with Chowkat, i/c locking arrangement,handles, hinges etc. duly enamel painted complete in all respects as per drawings and specifications and as approved by the Engineer in charge.	500.00	Sft	Per Sft	
20	N.S	Providing, applying and filling expansion joint with 2"x ¾" thick elastomeric sealant (Poly-Sulphide) of approved manufacture over backing rod complete in all respect according to manufactures recommendations and to the entire satisfaction of the engineer incharge	400.00	Rft	Per Rft	
21	N.S	Providing and fixing of False Ceiling consisting of lamenated Gypsum Board (one side laminated) of size 600 mm x 600 mm x 10 mm approx over aluminium Tee's 1"x 1"size at 2'-0"x2-0" center to center longitudinally and transversally & alminium angle of size 1" x 1" at corners/ ends, including all accessries such as steel hanging wire, hooks, screws, nails, rowel plugs, Cross Joints etc. complete in all respect, and as approved by the Engineer Incharge.	6400.00	Sft	Per Sft	
22	N.S	Providing & Fixing S.S pipe railing 2' high (For Gallery) comprising of 2.5" dia 16 SWG in corridor openings fixed with same dia pipe bluster at same distance with 2 No. 16 SWG 1/2" dia S.S pipe horizontally with accessories & fixing complete in all respect & as approved by the Engineer Incharge	3000.00	Rft	Per Rft	
23	N.S	Providing and laying Floor Tile 24"x24" with dry/wet/venied application, Salt'Pepper (SPM-110) Dark Polished SB including 05% Wastage laid in cement with pigment on a bed of 3/4" thick cement sand mortar 1:2, complete in all respects as approved by Engineering incharge.	100.00	Sft	Per Sft	
24	N.S	Providing and laying Dado Tile 24"x4" with dry/wet/venied application, Salt'Pepper (SPM-110) Dark Polished SB including 05% Wastage laid in cement with pigment on a bed of 3/4" thick cement sand mortar 1:2, complete in all respects as approved by Engineering incharge.	100.00	Sft	Per Sft	
					Total	
1	3/44	Plumbing work Excavation of trenches in all kinds of soil, except cutting rock for water supply pipe lines upto 5 ft. (1.5 m) depth from ground level, including trimming, dressing sides, levelling the beds of trenches to correct grade and cutting pits for joints.	7000.00	Cft	%o Cft	
2	3/42	Earthwork excavation in open cutting for sewers & 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 upto: i) 0 to 7 ft	20000.00	Cft	%oCft	
3	19/43	Providing & Fixing Brass gas cock 15mm 1/2" dia	20.00	No	Each	
4	23/41	Making connection for new watersupply lines with the running main, including excavation of trench and refilling, complete, but excluding cost of pipe and specials, etc. i) upto 6" i/d (150 mm) ii) upto 8" i/d (200 mm)	2.00 2.00	Con. Con.	P/Con P/Con	
5	19/19	Providing and fixing looking glass 55x40 cm (22"x16") size, and 5 mm thick, first quality.	15.00	No	Each	
6	23/22	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. Light Quality a) ¾" i/d (20 mm) b) 1" i/d (25 mm) c) 1½" i/d (40 mm)	850.00 850.00 450.00	Rft Rft Rft	P/Rft P/Rft P/Rft	
7	23/42	Providing, laying, cutting, jointing, testing and disinfecting High Density Polyethylene Pipe (HDPE-100) working presure pipe in trenches. complete in all respects PN-10 (SDR-17) i) 3" dia (90 mm)	650.00	Rft	P/Rft	

8	19/7	Providing and fixing stainless steel sink with drain board, size 120x60 cm (48"x24") including bracket set, waste pipe and waste coupling.	5.00	No	Each	
9	21/1	Providing and laying R.C.C. pipe, moulded with cement concrete 1:1½:3, with spigot socket or collar joint, etc. including cost of reinforcement, conforming to B.S. 5911: Part I: 1981, Class "L" including carriage of pipe from factory to site of work, lowering in trenches to correct alignment and grade, jointing, cutting pipes where necessary, finishing and testing, etc., complete. 225 mm (9") i/d	600.00	Rft	P/Rft	
					Total	
1	N.S	Plumbing work (Non-Schedule) Providing, fixing, cutting, jointing & testing uPVC drainage pipes of approved quality, i/c uPVC drainage fitting with soil vent cement jointing, " Type-B" or approved equal, rates i/c cost of clamping to walls and ceiling, hangers supports, cutting through wall & providing sleeves through concrete slab for pipe line & pipe fitting of following dia meters i) 4" i/d	4000.00	Rft	Per Rft	
		ii) 6" i/d	3000.00	Rft	Per Rft	
2	N.S	Providing, fixing, jointing and testing polypropylene Random (PPR) pipes of approved quality, for cold water as per DIN 8077-8078, PN-20 for pipes and DIN 16962, PN-25 for fittings (polyfusion welded joints) inside building including fittings and specials (sockets, tees, elbows, bends, crosses, reducers, adaptor, plugs and union etc) recessed in walls or suspended form roof slab or run in chases including pipe hangers, supports, cutting and making good the chases and hole complete in all respects. i) 25mm o.d	2400.00	Rft	Per Rft	
		ii) 32mm o.d	5400.00	Rft	Per Rft	
		iii) 40mm o.d	3000.00	Rft	Per Rft	
		iv) 50mm o.d	1000.00	Rft	Per Rft	
3	N.S	Providing & Fixing uPVC P-trap 4" dia of approved quality	200.00	No	Each	
4	N.S	Construction of collection chamber without grating complete in all respcts as per drawing &/or as directed by the engineer	10.00	No	Each	
5	N.S	Providing & Fixing grating at site with angle iron frame 1.5"x1.5"x1/4" and 1" square bars @ 1" c/c compele in all respects according to the drawing and specifications as per direction by the engineer incharge.	10.00	No	Each	
6	N.S	Construction of square masnory manhole 2.50x2.50 ft. including cover & frame upto 5' depth	20.00	No	Each	
7	N.S	Providing and installing Brass Ball/ Handle valves of approved quality of following nominal dia, including jointing, fitting, painting, testing, complete in all respects to match with PPR/uPVC pipes of following diameters. i) 25 mm O.D	16.00	No	Each	
		ii) 32 mm O.D	16.00	No	Each	
		iii) 40 mm O.D	16.00	No	Each	
		iv) 50 mm O.D	4.00	No	Each	
8	N.S	Supply and installation of Gas geysers of following capacity , including ball valves on inlet and outlet connections complete in all respects. 14 SWG tank, 55 gallon	12.00	No	Each	
9	N.S	Providing & Fixing Looking Glass 5-mm thick best quality,complete in all respect as per specifications and drawings and as approved by the Engineer Incharge.	800.00	Sft	P/Sft	
10	N.S	Providing & Fitting Steel floor jali best quality complete in all respect as per specifications and drawings and as approved by the Engineer Incharge.	150.00	No	Each	
11	N.S	Providing & Fixing Muslim shower (HD-30 Porta or equivalent company) with double bib cock (HDA-5270B Universal) & flexibe steel pipe complete unit i/c all accessries required at site complete in all respect as per specifications as approved by the Engineer incharge	36.00	No	Each	
12	N.S	Providing and fixing Coloured Glazed Earthen ware water closet Euopen type Couple set including Flush Tank fixed with comode, normal seat cover, sheet cover thimble, connection pipe Complete in all respect and approved by Engineering Incharge. (HD201 Porta or equivalent company)	36.00	No	Each	
13	N.S	Providing and fitting Flushing cistern 3-Gallon capacity				

14	N.S	including Bracket set & Hockey pipe best quality complete in all respts as approved by the engineer incharge (HD3T Porta or equivalent company)	80.00	No		Each	
		Providing and fitting glazed earthen ware water closet (WC) Orisa pattern, combined with foot rest best quality complete in all respts as approved by the engineer incharge (HDD9 Porta or equivalent company)	80.00	No		Each	
15	N.S	Providing and fitting glazed earthen ware Counter basin/Vanity (HD16 Porta or equivalent company) including waste pipe and waste coupling, etc. best quality complete in all respts as approved by the engineer incharge	170.00	No		Each	
16	N.S	Providing and fitting Chromium plated Single lever Basin Mixer complete in all respts as approved by the engineer incharge (Porta HDA0501M or equivalent company)	170.00	No		Each	
17	N.S	Providing and fitting Single Lever Bath Mixer (Porta HDA0563Y) or equvalent complete in all respects as approved by the engineer incharge	100.00	No		Each	
18	N.S	Providing and fitting Top Shower 6" dia (Porta HDDP2172) or equivalent complete in all respects as approved by the engineer incharge	100.00	No		Each	
19	N.S	Providing and fitting Wash Basin with Pedestal (Porta HD17) or equivalent complete in all respects as approved by the engineer incharge	24.00	No		Each	
20	N.S	Providing and fitting S.S Grip Bar (Porta HD95 456mm) or equivalent complete in all respects as approved by the engineer incharge	8.00	No		Each	
21	N.S	Providing and fitting Chromium Tee Stop Cock Porta HDJ817A or equivalent complete in all respects as approved by the engineer incharge	700.00	No		Each	
						Total	
		Electrical Work (Schedule)					
1	24/6	Supply and erection PVC pipe for recessed wiring (main and sub-main) purpose, including bends, specials, etc. in floor, wall or trenches:-					
		50 mm i/d	6000.00	Rft		Per Rft	
		80 mm i/d	2700.00	Rft		Per Rft	
2	24/10-a	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).250/440 volts, PVC insulated:					
		i) 7/1.63 mm (7/0.064")	4800.00	Rft		Per Rft	
		ii) 7/0.74 mm (7/0.029")	2000.00	Rft		Per Rft	
3	24/13	Supply and erection of copper conductor cables for service connection, in prelaid pipe/G.I. wire/trenches, etc. (rate for cable only):- .					
		PVC insulated, PVC sheathed 4 core, 660/1100 volt non armoured cable:-					
i	c(vi)	7/1.63 mm (7/0.064")	11000.00	Rft		Per Rft	
ii	c(vii)	19/1.32 mm (19/0.052")	11000.00	Rft		Per Rft	
4	3/44	Excavation of trenches in all kinds of soil, except cutting 'rock, for water supply pipe lines upto 5 ft. (1.5 m) depth from ground level, including trimming, dressing sides, levelling the beds of trenches to correct grade and cutting pits for joints, etc. complete in all respects.	15000.00	Cft		%o Cft	
5	3/15-i	Filling, watering and ramming earth under floors:-					
		with surplus earth from foundation, etc.	15000.00	Cft		%o Cft	
6	7/23	Dry brick pitching	600.00	Cft		% Cft	
						Total	
		Electrical Work (Non-Schedule)					
1	N.S	Wiring of light or fan point from switch board to the point with 3-Nos of 1.5 mm² (3/0.029") 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 in 20mm (3/4") PVC pipe i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge	2300.00	No		Each	
2	N.S	Circuit wiring from MCBs board to gang switch board/multi light plug with 3-Nos of 2.5 mm² (7/0.029") 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 in 25mm (1") PVC pipe i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge	2600.00	No		Each	
3	N.S	Wiring of light or fan from point to point with 3-Nos of 1.5 mm² (3/0.029") 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 in 20mm (3/4") PVC pipe i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge	350.00	No		Each	

4	N.S	Wiring of Multi/light plug from point to point with 3-Nos of 2.5 mm² (7/0.029") 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 in 20mm (¾") PVC pipe i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge	280.00	No		Each	
5	N.S	Circuit wiring from MCBs board to Power Plug with 3-Nos of 6 mm² (7/0.044") 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 in 25mm (1") PVC pipe i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge	280.00	No		Each	
6	N.S	Providing & laying of PVC/PVC 2-Core flexible 23/0.0076" copper conductor cable i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (KM, Eagle or Equivalent)	170.00	M		Per M	
7	N.S	Providing & laying of PVC/PVC 3-Core flexible 40/0.0076" copper conductor cable i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (KM, Eagle or Equivalent)	190.00	M		Per M	
8	N.S	Supply & installation of LED 17W Down Light (6" Surface Mounted, 220V~) i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips Meson or Equivalent)	500.00	No		Each	
9	N.S	Supply & installation of Wall Mounted LED Batten Light 20W (220V~, 6500K) i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips Slimline or Equivalent)	1225.00	No		Each	
10	N.S	Supply & installation of Wall Bracket Fan 18" (99.99% Copper) i/c any accessories (i.e. mounting screws & etc) as required at site. Complete in all respect as directed and approved by the Engineer Incharge (Younis, Tamoor, Pakfan or Equivalent)	8.00	No		Each	
11	N.S	Supply & installation of Metal Body Wall Bracket Fan 24" (99.99% Copper) i/c any accessories (i.e. widing of mounting holes and 4.00nos of rawl bolts ¼" etc) as required at site. Complete in all respect as directed and approved by the Engineer Incharge (SK mega or Equivalent)	3.00	No		Each	
12	N.S	Supply & installation of Ceiling Fans, 56" sweep (As per "Pakistan Energy Lable" certified manufacturers). i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge	520.00	No		Each	
13	N.S	Supply & installation of Metal body Exhaust fan 20" (99.99% Copper) with metal mounting frame i/c any accessories (i.e. screw. Rawl plug/rawl bolt etc.) as required at site. Complete in all respect as directed and approved by the Engineer Incharge (Tamoor, Indus, Pakfan or Equivalent)	56.00	No		Each	
14	N.S	Supply & installation of PVC Exhaust fan 12" (99.99% Copper) i/c any accessories (i.e. screw. Rawl plug or steel nail, etc.) as required at site. Complete in all respect as directed and approved by the Engineer Incharge (GFC, Indus, Pakfan or Equivalent)	17.00	No		Each	
15	N.S	Supply & installation of Universal 3-Pole Socket with 13A Switch with plastic back box 3"x 3" i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips ECO Series Q2 or Equivalent)	1040.00	No		Each	
16	N.S	Supply & installation of a Power plug 15A with plastic back box 3"x 3" i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips ECO Series Q2 or Equivalent)	270.00	No		Each	
17	N.S	Supply & installation of a Fan Dimmer 300W with plastic back box 3"x 3" i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips ECO Series Q2 or Equivalent)	520.00	No		Each	
18	N.S	Supply & installation of a Four Single Pole Switch Plate with plastic back box 3"x 3" i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips ECO Series Q2 or Equivalent)	44.00	No		Each	
19	N.S	Supply & installation of a Six Single Pole Switch Plate with plastic back box 3"x 6" i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge. (Philips ECO Series Q2 or Equivalent)	36.00	No		Each	
20	N.S	Supply & installation of a Eight Single Pole Switch Plate with plastic back box 3"x 6" i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge. (Philips ECO Series Q2 or Equivalent)	325.00	No		Each	
21	N.S	Supply & installation of a Four Single Pole Switch & Two 2-Pin Socket Plate with plastic back box 3"x 6" i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge. (Philips ECO Series Q2 or Equivalent)	8.00	No		Each	
22	N.S	Supply, installation, connection & commissioning of distribution boards, (Sub Main DB-N), Open type Wall mounted design, made of M.S. Sheet 18 SWG with hinged glass door, handle, and 2 coats of Approved paint, (Size 18"x24") including Incoming Main Molded Case Circuit Breaker of 80 Amps T-p (15KA) 1.00 No, Distribution Miniature Circuit Breaker of 10/20 Amps S-p (6KA) 18.00 Nos, LED phase light volt meter type (RYB), Earthling bar, Neutral bar and any accessories (i.e. Earth/neutral bar, Nut/bolts, Screws/rawl plugs, Jumper connections & etc.) required at site. Complete in all respects as approved by the engineer incharge. (for MCCB & MCBs Hitachi, Schneider Electric, Legrand or equivalent).	22.00	No			

23	N.S	Supply, installation, connection & commissioning of distribution boards, (Sub Main DB-E), Open type Wall mounted design, made of M.S. Sheet 18 SWG with hinged glass door, handle, and 2 coats of Approved paint, (Size 18"x24") including Incoming Main Molded Case Circuit Breaker of 50 Amps T-p (10KA) 1.00 No, Distribution Miniature Circuit Breaker of 10/16 Amps S-p (6KA) 18.00 Nos, LED phase light volt meter type (RYB), Earthing bar, Neutral bar and any accessories (i.e. Earth/neutral bar, Nut/bolts, Screws/rawl plugs, Jumper connections & etc.) required at site. Complete in all respects as approved by the engineer incharge. (for MCCB & MCBs Hitachi, Schneider Electric, Legrand or equivalent).	22.00	No		Each	
24	N.S	Supply, installation, connection & commissioning of distribution boards, (DBs), Floor Standing design, made of M.S. Sheet 14 SWG with hinged door, handle, catchers and 2 coats of Approved paint, (Size 7'x6'x18") including Incoming Main Molded Case Circuit Breaker 1000 Amps T-p (36KA) 1.00 No, For DB-N (Main Molded Case Circuit Breaker 630 Amps T-p (36KA) 1.00 No and distribution Molded Case Circuit Breaker 80 Amps T-p (15KA) 21.00 Nos) & for DB-E (Main Molded Case Circuit Breaker 400 Amps T-p (36KA) 1.00 No and distribution Molded Case Circuit Breaker 50 Amps T-p (15KA) 21.00 Nos) respectively, Digital Volt, Selector switches, LED Phase lights, Copper bus bars, Earthing bar, Neutral bar and any accessories required at site. Complete in all respects as approved by the engineer incharge. (for MCCB General Electric, Schneider Electric & Legrand).	1.00	No		Each	
25	N.S	Providing and Laying earthing for Electric Machines l/c boring up to moisture level (up to 60' below ground level) 4" i/d including copper strip 14" x 2" x 1/4" (350 x 50 x 6 mm) connecting with 1 Nos.bare copper wire of No.8 SWG to be run in PVC pipe 20mm i/d, 1¼" i/d GI pipe 5' long, GI tee & plug for watering also includes common salt, Lime (slaked) and charcoal around copper strip l/c connecting with Electric machine. Complete in all respects as approved and as directed by the engineer incharge.	3.00	No		Each	
26	N.S	Supply & installation of Wall Light with 3 Watt LED Blub (Philips) (220V~, 6500K) i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge.	130.00	No		Each	
27	N.S	Supply & installation of LED 2'x 2' Ceilling Panel Light 36W (220V~, CW or WW) i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips 36S/865 PSU W60L60 GM G2 or Equivalent)	240.00	No		Each	
28	N.S	Supply & installation of 2' x 2' False Ceiling Fan 16" swipe (99.99% Copper), remote controlled i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Royal, Super-asia or Equivalent)	110.00	No		Each	
29	N.S	Providing & laying of 240 mm ² 4-Core Copper Conductor PVC/PVC/steel wire armoured/PVC (Armoured) cable i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Newage, Pakistan, Copper Gate, Fast or Equivalent)	100.00	M		Per M	
30	N.S	Supply & installation of PVC Fan Box with iron bar i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge. (GM, Bita or equivalent)	425.00	No		Each	
31	N.S	Horizontal boring 4" dia underneath roads, walking path & ramps of houses for crossing of Electric power cables, PVC pipes or Water lines. Complete in all respects as approved and as directed by the engineer incharge.	100.00	Rft		Per Rft	
						Total	

1	3/21	External Work (Guard Hut, Visitor Room, Tuck Shop & Boundary Wall) Civil Work 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). b) In ordinary soil.	6000.00	Cft		%o Cft	
2	6/5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): Ratio 1: 2: 4	200.00	Cft		% Cft	
3	6/3	Cement concrete brick or stone ballast 1½ " to 2" (40 mm to 50 mm) gauge, in foundation and plinth:- i) Ratio 1:4:8 i) Ratio 1:6:12	350.00 3500.00	Cft Cft		% Cft % Cft	
4	6/6	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:- Type C (nominal mix 1: 2: 4)	350.00	Cft		Per Cft	
5	26/42	Spraying anti-termite liquid mixed with water in the ratio of 1:40	600.00	Sft		% Sft	
6	7/4	Pacca brick work in foundation and plinth in:- Cement, sand mortar: Ratio 1:6	8500.00	Cft		% Cft	
7	6/33	Providing and laying damp proof course of cement concrete 1:2: 4 (using cement, sand and shingle), including bitumen coating:- with one coat bitumen and one coat polythene sheet 500 gauge. 1.5" thick (40 mm)	1900.00	Sft		% Sft	

8	6/35	Providing and laying vertical damp proof course with cement sand plaster and bitumen coating:- with one coat of bitumen and one coat of polythene sheet 500 gauge: Ratio 1:3 ¾ " thick (20 mm)	500.00	Sft	% Sft	
9	3/15 +3/17	Filling, watering and ramming earth under floors:- i) with surplus earth from foundation, etc.	1500.00	Cft	%o Cft	
		ii) with new earth excavated from outside,lead upto 1/4 mile	3000.00	Cft	%o Cft	
10	7/5	Pacca brick work in Cement, sand mortar:- Ratio 1:5 i) Ground Floor (7/5-i)	2500.00	Cft	% Cft	
11	7/5	Pacca brick work in Cement, sand mortar:- Ratio 1:4 i) Ground Floor	100.00	Cft	% Cft	
12	11/10	Cement plaster 3/8" (10 mm) thick under soffit of R.C.C. roof slabs only, upto 20' height. Ratio 1:3	1000.00	Sft	% Sft	
13	11/9	Cement plaster 1:4 upto 20' (6.00 m) height:- i) ½" (13 mm) thick (11/9-b)	37500.00	Sft	% Sft	
		ii) 3/4" (20 mm) thick	6000.00	Sft	% Sft	
14	6/9	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 Deformed Bar 60-Grade	1500.00	Kg	% Kg	

15	6/6	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 mix1:2:4) using harrow sand Ground Floor	550	Cft	Per Cft	
16	7/30	Supplying and filling sand under floor; or plugging in wells	400.00	Cft	% Cft	
17	6/2	Dry rammed brick or stone ballast, 1½" to 2"(40 mm to 50 mm) gauge.	400.00	Cft	% Cft	
18	12/50	Providing and fixing 1½" (40mm) thick solid flush door shutter sterling or equivalent with commercial ply (5 mm thick) on both sides double pressed and deodar wood lipping 1½"x3/8" (40mm x 10mm) around shutter including chromium plated fitting, iron hinges with aluminium kick plate 22 SWG on both sides & finger plate complete in all respect.	200.00	Sft	Per Sft	
19	25/53	Providing and fixing all types of glazed aluminium windows of anodized champagne colour partly fixed and party sliding using deluxe section of approved manufacturer having Frame of size100mmx 30mm using frame at bottom, at top and side leaf frame sections of 60mm x 23mm at top & bottom and size 45mm x25mm at center and size 45mm x 25mm at sides, Jali leaf frame size 43mm x 13mm i/c fine quality aluminum jali, 5mm thick imported tinted glass with rubber gas ket using approved standard latches, wheel, stopper, brush chennel angle joint and hardware etc.complete in all respect 2 mm thick	250.00	Sft	Per Sft	
20	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.	1000.00	Kg	% Kg	
21	13/31	Preparing surface & painting with 3 coats Emulsion paint complete in all respects	3000.00	Sft	% Sft	
22	13/5	Painting new surface: Preparing surface and painting of doors and windows any type (including edges):- 3 coats	200.00	Sft	% Sft	
23	13/32	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: new surface 2 coats i) upto 20' height	41000.00	Sft	% Sft	
24	10/15	Providing and laying topping of cement concrete 1:2:4, including surface finishing and dividing in panels:- 2" thick	400.00	Sft	% Sft	
25	12/18	Providing and fixing sliding bolt to doors:- iron sliding bolt, 12" (300 mm) long	10.00	No	Each	
26	10/42	Providing and fixing marble strip of any shade for dividing the mosaic flooring into panels Size 1½"x3/8" (40x10mm)	400.00	Rft	Per Rft	
27	7/7	Pacca brick work other than building upto 10ft. (3 m) height. cement, sand mortar:- 'Ratio 1:5	7000.00	Cft	% Cft	
28	10/43	Providing and laying Tuff pavers, having 7000 PSI, crushing strength of approved manufacturer, over 2" to 3" sand				

		cushion i/c grouting with sand in joints i/c finishing to require slope complete in all respect. (50% Grey / 50% Coloured) 60 mm thick	6500.00	Sft		P/Sft	
29	3/5	Earthwork in ordinary soil for embankments lead upto 100 ft. (30 m), including ploughing and mixing with blade grade or disc harrow or other suitable equipment, and compaction by mechanical means at optimum moisture content and dressing to designed section, complete in all respects:- 85% maximum modified AASHO dry density.	80000.00	Cft		%oCft	
30	18/19	Providing and laying dry brick pavement/soling in streets or roads, etc. sand grouted, laid in proper camber, including preparation, watering, compaction of bed to proper camber, and sand cushion.	4000.00	Cft		% Cft	
31	18/5	Providing and laying road edging of 3" (75 mm) wide and 9" (225 mm) deep brick on end, complete in all respects.	1200.00	Rft		Per Rft	
						Total	
1	N.S	Civil Work (Non-Schedule) Providing, Fabricating and fixing 16 SWG M.S sheet hollow pressed Jamb frame (Factory primme) for door welded with MS flat size 10"x1"x1/8", hold fast i/c welding/screwing 4" long iron hinges, filling concrete for the jamb frame and embedding hold fast in the adjoining walls with 1:2:4 concrete, enamel painting etc. complete in all respects as show on the drawing and/ or as directed by the engineer, in conformance with following size i) 10"x2-1/2" ii) 6"x2-1/2"	250.00	Sft		Per Sft	
2	N.S	Providing & Fixing Fair Face Brick Guttka 9"x3"x2.25" (straight or on edges) joint in 1:3 cement surkhi over 3/4" thick (AVG) 1:4 C/S base mortor on wall including laying ornamental bricks in approved pattern, scaffolding & during at any height, complete in all respect as shown on the drawing or as directed by the engineer incharge.	55.00	Sft		Per Sft	
3	N.S	Providing and laying Floor Tile 24"x24" Granite with dry/wet/venied application, DWV series Polished (Dark color) class SB including 05% Wastage laid in cement with pigment on a bed of 3/4" thick cement sand mortar 1:2, complete in all respects as approved by Engineering inch.	2000.00	Sft		Per Sft	
4	N.S	Providing and laying Floor Tile 12"x18" SP Series on matching color base (Glossy) Dark Color Rectified SB) including 05% Wastage laid in cement with pigment on a bed of 3/4" thick cement sand mortar 1:2, complete in all respects as approved by Engineer incharge	950.00	Sft		Per Sft	
5	N.S	Providing and laying Floor Tile 12"x18" SP Series on matching color base (Glossy) Dark Color Rectified SB) including 05% Wastage laid in cement with pigment on a bed of 3/4" thick cement sand mortar 1:2, complete in all respects as approved by Engineer incharge	60.00	Sft		Per Sft	
6	N.S	Providing and laying Dado Tile 12"x18" SP Series on matching color base (Glossy) Dark Color Rectified SB) including 05% Wastage laid in cement with pigment on a bed of 3/4" thick cement sand mortar 1:2, complete in all respects as approved by Engineer incharge	250.00	Sft		Per Sft	
7	N.S	Providing & Fixing marble 3/4" thick Buticina fency 12"X12" with floating coat of cement over a bed of 3/4" thick cement sand mortor 1:2 over 1" thick PCC 1:2:4 Gray cement, including colour pigment to match with the colour of marble tiles laid with cement sand mortor 1:2 rubbing and chemical Polishing, as approved by Engineering Incharge	30.00	Sft		Per Sft	
8	N.S	M.S Steel Grill for windows comprising of 1/2"x1/2" square bar @ 4" c/c with 1.25"x1.25"x1/8" MS box angle iron for frame including painting 3 coats complete in all respect as shown on the drawings, specification and/ or as directed by the Engineer incharge	350.00	Kg		Per Kg	
9	N.S	Providing and fixing 1½" (40mm) thick uPVC flush door of approved design & make, all hardware/ accessories chromium plated fitting, iron hinges with aluminium kick plate 22 SWG on both sides & finger plate complete in all respect as approved by the engineer incharge	50.00	Sft		Per Sft	
10	N.S	Putti filling for emulsion paint including rubbing and primary coat complete in all respects as approved by the Engineer Incharge.	3000.00	Sft		Per Sft	
11	N.S	Providing and fixing ornamental partial wooden architrave 3"x1/2" (75mmx12mm) tapered to 1/4" (6mm) all along the door frame complete in all respect as approved by the Engineer Incharge.	200.00	Sft		Per Sft	
11	N.S	Providing and fixing Razor cutt wire fencing double sharp four pointed razors @ 1- 1/4" c/c with 'U' shaped cladding over M.S wire making ring of 24" dia 3 Nos rings in one Rft lenth at 0.66 Kg P/Rft fixed on wall with M.S angle iron post 1.5"x1.5"x3/16" 2'-3" high + and 9" embeded in base of P.C.C 1:2:4 (9"x9"x9"at every 4' apart i/c 2 Nos bars 3/8" dia welded horizontally with angle iron, i/c binding wire i/c painting posts					

12	N.S	etc. complete in all respects.	1200.00	Rft		Per Rft	
		Providing and laying Floor Tile 24"x24" with dry/wet/venied application, Salt'Pepper (SPM-110) Dark Polished SB including 05% Wastage laid in cement with pigment on a bed of 3/4" thick cement sand mortar 1:2, complete in all respects as approved by Engineering incharge.	50.00	Sft		Per Sft	
						Total	
1	3/44	Plumbing work Excavation of trenches in all kinds of soil, except cutting 'rock, for water supply pipe lines upto 5 ft. (1.5 m) depth from ground level, including trimming, dressing sides, levelling the beds of trenches to correct grade and cutting pits for joints, etc	500.00	Cft		%o Cft	
2	3/42	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 upto: i) 0 to 7 ft	500.00	Cft		%oCft	
3	19/19	Providing and fixing looking glass 55x40 cm (22"x16") size, and 5 mm thick, first quality.	1.00	No		Each	
4	23/22	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. Light Quality a) ¾" i/d (20 mm)	100.00	Rft		P/Rft	
		b) 1" i/d (25 mm)	100.00	Rft		P/Rft	
5	19/1	Providing and fitting glazed earthen ware water closet European type, excluding seat and cover:- coloured	1.00	No		Each	
6	19/2	Providing and fixing, double seat and cover only. bakelite	1.00	No		Each	
7	19/3	providing and fitting glazed earthen ware water closet, squatter type (Orisa pattern), combined with foot rest. coloured	3.00	No		Each	
8	19/6	Providing and fitting glazed earthen ware wash hand basin 56x40 cm (22"x16") including bracket set, waste pipe and waste coupling, etc. i) coloured, with pedestal	3.00	No		Each	
9	19/12	Providing and fitting plastic made low down flushing cistern 13.63 litre (3 gallons) capacity, including bracket set, copper connection, etc. complete. Coloured	3.00	No		Each	
10	19/22	Providing and fitting:- i) Plastic soap dish	3.00	No		Each	
		ii) Plastic toilet paper holder	3.00	No		Each	
		iii) Plastic towel rail	3.00	No		Each	
		iv) Plastic shelf 60x13 cm (24"x5") with bracket and railing.	3.00	No		Each	
11	19/27	Providing and fixing chromium plated tee stop cock 15mm (½")	6.00	No		Each	
12	19/26	Providing and fixing chromium plated bib cock:- 1.5 cm (½")	3.00	No		Each	
13	19/28	Providing and fixing chromium plated shower rose:- 1.5x10 cm (½"x4")	1.00	No		Each	
14	19/29	Providing and fixing, chromium plated mixing valve, for wash hand basin, sink or shower.	1.00	No		Each	
15	19/34	Providing and fitting "P" trap:- 10 cm (4") glazed.	3.00	No		Each	
						Total	
1	N.S	Plumbing work (Non-Schedule) Providing, fixing, cutting, jointing & testing uPVC drainage pipes of approved quality, i/c uPVC drainage fitting with soil vent cement jointing, " Type-B" or approved equal, rates i/c cost of clamping to walls and ceiling, hangers supports, cutting through wall & providing sleeves through concrete slab for pipe line & pipe fitting of following dia meters i) 4" i/d	50.00	Rft		Per Rft	
		ii) 6" i/d	50.00	Rft		Per Rft	
2	N.S	Providing, fixing, jointing and testing polypropylene Random (PPR) pipes of approved quality, for cold water as per DIN 8077-8078, PN-20 for pipes and DIN 16962, PN-25 for fittings (polyfusion welded joints) inside building including fittings and specials (sockets, tees, elbows, bends, crosses, reducers, adaptor, plugs and union etc) recessed					

		in walls or suspended form roof slab or run in chases including pipe hangers, supports, cutting and making good the chases and hole complete in all respects. i) 25mm o.d	100.00	Rft		Per Rft	
		ii) 32mm o.d	150.00	Rft		Per Rft	
3	N.S	Providing & Fixing uPVC P-trap 4" dia of approved quality	3.00	No		Each	
4	N.S	Providing and installing Brass Ball/ Handle valves of approved quality of following nominal dia, including jointing, fitting, painting, testing, complete in all respects to match with PPR/uPVC pipes of following diameters. i) 25 mm O.D ii) 32 mm O.D	1.00 1.00	No No		Each Each	
5	N.S	Providing & Fitting Steel floor jali best quality complete in all respect as per specifications and drawings and as approved by the Engineer Incharge.	3.00	No		Each	
						Total	
		Electrical Work (Schedule)					
1	24/6	Supply and erection PVC pipe for recessed wiring (main and sub-main) purpose, including bends, specials, etc. in floor, wall or trenches:-					
		50 mm i/d	200.00	Rft		Per Rft	
2	24/3	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.					
		25 mm i/d	1750.00	Rft		Per Rft	
3	24/10-a	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).250/440 volts, PVC insulated:					
		i) 7/1.63 mm (7/0.064")	700.00	Rft		Per Rft	
		ii) 7/0.74 mm (7/0.029")	850.00	Rft		Per Rft	
		iii) 7/1.12 mm (7/0.044")	3700.00	Rft		Per Rft	
4	24/13	Supply and erection of copper conductor cables for service connection, in prelaid pipe/G.I. wire/trenches, etc. (rate for cable only):- .					
		PVC insulated, PVC sheathed 4 core, 660/1100 volt non armoured cable:-					
i	c(vi)	7/1.63 mm (7/0.064")	250.00	Rft		Per Rft	
5	3/44	Excavation of trenches in all kinds of soil, except cutting 'rock, for water supply pipe lines upto 5 ft. (1.5 m) depth from ground level, including trimming, dressing sides, levelling the beds of trenches to correct grade and cutting pits for joints, etc. complete in all respects.	15000.00	Cft		%o Cft	
6	3/15-i	Filling, watering and ramming earth under floors:-					
		with surplus earth from foundation, etc.	15000.00	Cft		%o Cft	
7	7/23	Dry brick pitching	600.00	Cft		% Cft	
8	24/57	Supply and erection of shackle insulator, medium size.	20.00	No		Each	
9	24/62	Supply and erection of all aluminum stranded hard drawn bare conductor, of size 7/3.099 mm (7/0.122").	3500.00	Rft		Per Rft	
10	24/63	Supply and erection of street light pole bracket 30 mm (1¼") G.I. pipe 2 metre long, complete with 2 No. pole clamp.	3.00	No		Each	
11	24/18	Supply and erection of iron/aluminum clad, 500 volts main switches with kitkat fuses, on angle iron board with 3 mm (1/8") thick M.S. sheet covering, including bonding to earth with necessary flexible pipe and thimbles, etc. double pole 60/65 Amp.	1.00	No		Each	
						Total	
		Electrical Work (Non-Schedule)					
1	N.S	Wiring of light or fan point from switch board to the point with 3-Nos of 1.5 mm² (3/0.029") 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 in 20mm (3/4") PVC pipe i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge	30.00	No		Each	
2	N.S	Circuit wiring from MCBs board to gang switch board/multi light plug with 3-Nos of 2.5 mm² (7/0.029") 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 in 25mm (1") PVC pipe i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge	10.00	No		Each	
3	N.S	Wiring of light or fan from point to point with 3-Nos of 1.5 mm² (3/0.029") 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 in 20mm (3/4") PVC pipe i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge	15.00	No		Each	

4	N.S	Wiring of Multi/light plug from point to point with 3-Nos of 2.5 mm² (7/0.029") 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 in 20mm (¾") PVC pipe i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge	6.00	No		Each	
5	N.S	Circuit wiring from MCBs board to Power Plug with 3-Nos of 6 mm² (7/0.044") 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 in 25mm (1") PVC pipe i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge	5.00	No		Each	
6	N.S	Supply & installation of LED 17W Down Light (6" Surface Mounted, 220V~) i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips Meson or Equivalent)	8.00	No		Each	
7	N.S	Supply & installation of Wall Mounted LED Batten Light 20W (220V~, 6500K) i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips Slimline or Equivalent)	12.00	No		Each	
8	N.S	Supply & installation of Wall Bracket Fan 18" (99.99% Copper) i/c any accessories (i.e. mounting screws & etc) as required at site. Complete in all respect as directed and approved by the Engineer Incharge (Younis, Tamoor, Pakfan or Equivalent)	1.00	No		Each	
9	N.S	Supply & installation of Metal Body Wall Bracket Fan 24" (99.99% Copper) i/c any accessories (i.e. widing of mounting holes and 4.00nos of rawl bolts ¼" etc) as required at site. Complete in all respect as directed and approved by the Engineer Incharge (SK mega or Equivalent)	1.00	No		Each	
10	N.S	Supply & installation of Ceiling Fans, 56" sweep (As per "Pakistan Energy Lable" certified manufacturers). i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge	5.00	No		Each	
11	N.S	Supply & installation of PVC Exhaust fan 12" (99.99% Copper) i/c any accessories (i.e. screw. Rawl plug or steel nail, etc.) as required at site. Complete in all respect as directed and approved by the Engineer Incharge (GFC, Indus, Pakfan or Equivalent)	5.00	No		Each	
12	N.S	Supply & installation of Universal 3-Pole Socket with 13A Switch with plastic back box 3"x 3" i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips ECO Series Q2 or Equivalent)	10.00	No		Each	
13	N.S	Supply & installation of a Power plug 15A with plastic back box 3"x 3" i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips ECO Series Q2 or Equivalent)	5.00	No		Each	
14	N.S	Supply & installation of a Fan Dimmer 300W with plastic back box 3"x 3" i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips ECO Series Q2 or Equivalent)	5.00	No		Each	
15	N.S	Supply & installation of a Four Single Pole Switch Plate with plastic back box 3"x 3" i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips ECO Series Q2 or Equivalent)	3.00	No		Each	
16	N.S	Supply & installation of a Six Single Pole Switch Plate with plastic back box 3"x 6" i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge. (Philips ECO Series Q2 or Equivalent)	2.00	No		Each	
17	N.S	Supply & installation of a Eight Single Pole Switch Plate with plastic back box 3"x 6" i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge. (Philips ECO Series Q2 or Equivalent)	5.00	No		Each	
18	N.S	Supply & installation of a Four Single Pole Switch & Two 2-Pin Socket Plate with plastic back box 3"x 6" i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge. (Philips ECO Series Q2 or Equivalent)	2.00	No		Each	
19	N.S	Supply, installation, connection & commissioning of distribution boards, (Sub Main DB-N), Open type Wall mounted design, made of M.S. Sheet 18 SWG with hinged glass door, handle, and 2 coats of Approved paint, (Size 18"x24") including Incoming Main Molded Case Circuit Breaker of 80 Amps T-p (15KA) 1.00 No, Distribution Miniature Circuit Breaker of 10/20 Amps S-p (6KA) 18.00 Nos, LED phase light volt meter type (RYB), Earthing bar, Neutral bar and any accessories (i.e. Earth/neutral bar, Nut/bolts, Screws/rawl plugs, Jumper connections & etc.) required at site. Complete in all respects as approved by the engineer incharge. (for MCCB & MCBs Hitachi, Schneider Electric, Legrand or equivalent).	1.00	No			
20	N.S	Providing and Laying earthing for Electric Machines I/c boring up to moisture level (up to 60' below ground level) 4" i/d including copper strip 14" x 2" x 1/4" (350 x 50 x 6 mm) connecting with 1 Nos.bare copper wire of No.8 SWG to be run in PVC pipe 20mm i/d, 1¼" i/d GI pipe 5' long, GI tee & plug for watering also includes common salt, Lime (slaked) and charcoal around copper strip I/c connecting with Electric machine.	2.00	No		Each	
21	N.S	Supply & installation of Wall Light with 3 Watt LED Blub (Philips) (220V~, 6500K) i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge.	12.00	No		Each	
22	N.S	Supply & installation of PVC Fan Box with iron bar i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge. (GM, Bita or equivalent)	5.00	No		Each	

23	N.S	Supply & Installation & commissioning of 400 KVA (11 KV/415V) 3-phase, 50 Hz step down Pad mounted / enclosed type distribution Transformer having connection group, DY-11 oil immersed natural cooled with HV & LV protections (as per WAPDA standard) i/c any other accessories required at site. Complete in all respects as approved by the Engineer incharge. (with complete purchase and tax documents) (PEL, Transfopower or Equivalent)	1.00	No		Each	
24	N.S	Supply & Laying of 3-core, 120mm², XLPE/PVC/SWA/PVC, 8.7/15Kv Aluminum conductor cable i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Fast Cable or Equivalent)	90.00	M		Per M	
25	N.S	Supply and installation of 120mm², 3-core, 11-KV Termination Kit i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge.(Raychem or Equavalent)	2.00	No		Each	
26	N.S	Supply & installation of Die-Cast Aluminum LED Boundary Light 27W (220V~, 6500K) i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips, BRP210 LED 34 or Equivalent).	48.00	No		Each	
27	N.S	Supply & installation of 11-KV Dropout Fuse assemblies Set i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge	1.00	No		Each	
28	N.S	Supply and installation of 120mm², Aluminum Alloy Parallel Groove Clamp complete with nut/bolts i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge.	4.00	No		Each	
29	N.S	Manufacturing and erection of galvanized angle iron lattice steel structure LT pole of size 30'-8" long using high tensile steel angle 1¼"x1¼"x3/16" with MS angle iron and 1"x1"x½" and flat iron 2"x¼"bracing, weighing 130±3%kg i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge.	1.00	No		Each	
30	N.S	Manufacturing and erection of galvanized angle iron lattice steel structure HT pole of size 34'-8" long using high tensile steel angle 1¼"x1¼"x3/16" with MS angle iron and 1"x1"x½" and flat iron 2"x¼"bracing, weighing 200±3%kg i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge.	3.00	No		Each	
31	N.S	Supply & installation of Creosoted Wooden cross arm on steel structure pole with galvanized steel bracing & bolts i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge.	6.00	No		Each	
32	N.S	Supply & Installation of 11KV Pin Insulator i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge.	9.00	No		Each	
33	N.S	Supply & Installation of 11KV Disc Insulator i/c aluminum alloy Dead end clamp and any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge.	12.00	No		Each	
34	N.S	Supply & erection of ACSR Dog (118.5 mm²) Conductor (Aluminum Conductor Steel Reinforced) for overhead11 KV Lines i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge.	2100.00	Rft		Per Rft	
35	N.S	Supply & Installation of Stay wire set i/c all accessories such as 'U' clamp, Rod & concrete block etc and any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge	2.00	No		Each	
36	N.S	Supply & installation of Die-Cast Aluminum LED Street light 36W (220V~, 6500K) i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips, BRP390 LED 750/CW or Equivalent) with 3 year warranty.	3.00	No		Each	
						Total	

The Islamia University of Bahawalpur

Construction of New Boys Hostel (No.2) at Baghdad-ul-Jadeed Campus

Civil Work			MRS Jan to Jun, 2021				
No.	Ref.	Description	Quantity		Rate	Unit	Amount
1	3/21	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). b) In ordinary soil.	122500.00	Cft		%o Cft	
2	6/5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): Ratio 1: 2: 4	18500.00	Cft		% Cft	
3	6/3	Cement concrete brick or stone ballast 1½ " to 2" (40 mm to 50 mm) gauge, in foundation and plinth:- i) Ratio 1:4:8 i) Ratio 1:6:12	14250.00 7800.00	Cft Cft		% Cft % Cft	
4	6/6	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:- Type C (nominal mix 1: 1.5: 3)	31800.00	Cft		Per Cft	
5	26/42	Spraying anti-termite liquid mixed with water in the ratio of 1:40	49000.00	Sft		% Sft	
6	7/4	Pacca brick work in foundation and plinth in:- Cement, sand mortar: Ratio 1:6	8200.00	Cft		% Cft	

7	6/33	Providing and laying damp proof course of cement concrete 1:2: 4 (using cement, sand and shingle), including bitumen coating:- with one coat bitumen and one coat polythene sheet 500 gauge. 1.5" thick (40 mm)	1400.00	Sft	% Sft
8	9/12	Two coats of bitumen laid hot using 34 lbs. per %Sft, or 1.72 Kg per square metre over roof and blinded with sand at one Cft. per %Sft. (0.003 cu.m per sq.m)	16000.00	Sft	% Sft
9	3/15 +3/17	Filling, watering and ramming earth under floors:- i) with surplus earth from foundation, etc. ii) with new earth excavated from outside,lead upto 1/4 mile	47000.00 174500.00	Cft Cft	%o Cft %o Cft
10	7/5	Pacca brick work in Cement, sand mortar:- Ratio 1:5 i) Ground Floor (7/5-i) ii) First Floor iii) Second Floor	27000.00 26000.00 800.00	Cft Cft Cft	% Cft % Cft % Cft
11	7/5	Pacca brick work in Cement, sand mortar:- Ratio 1:4 i) Ground Floor ii) First Floor	5850.00 5600.00	Cft Cft	% Cft % Cft
12	11/10	Cement plaster 3/8" (10 mm) thick under soffit of R.C.C. roof slabs only, upto 20' height. Ratio 1:3	73500.00	Sft	% Sft
13	11/9	Cement plaster 1:4 upto 20' (6.00 m) height:- i) ½" (13 mm) thick ii) 3/4" (20 mm) thick	140000.00 87500.00	Sft Sft	% Sft % Sft

14	11/28	Extra for lime, mud or cement plaster and pointing from 20' (6.00 m) and above for each additional 10' (3.00 m) height or part thereof.	135000.00	Sft	% Sft
15	6/9	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 Deformed Bar 60-Grade	290000.00	Kg	% Kg
16	6/6	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 mix1:1½:3) using harrow sand i) Ground Floor ii) First Floor iii) Second Floor iv) Type C (nominal mix1:2:4) Ground Floor v) Type C (nominal mix1:2:4) First Floor	33000.00 28000.00 500.00 1000.00 1000.00	Cft Cft Cft Cft Cft	Per Cft Per Cft Per Cft Per Cft Per Cft
17	7/30	Supplying and filling sand under floor; or plugging in wells	12000.00	Cft	% Cft
18	6/2	Dry rammed brick or stone ballast, 1½" to 2"(40 mm to 50 mm) gauge.	25500.00	Cft	% Cft
19	12/50	Providing and fixing 1½" (40mm) thick solid flush door shutter sterling or equivalent with commercial ply (5 mm thick) on both sides double pressed and deodar wood lipping 1½"x3/8" (40mm x 10mm) around shutter including chromium plated fitting, iron hinges with aluminium kick plate 22 SWG on both sides & finger plate complete in all respect.	8150.00	Sft	Per Sft
20	25/51	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 all of 2 mm thickness 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. (2mm thick)	850.00	Sft	Per Sft
21	25/52	Providing and fitting all types of glazed aluminium windows of anodised bronze colour partly fixed and partly sliding using delux sections of M/s Al-Cop or Pakistan 'Cables having frame size of 100 x 20 mm (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	500.00	Sft	Per Sft

		the Engineer in-charge.				
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22	25/53	Providing and fixing all types of glazed aluminium windows of anodized champagne colour partly fixed and party sliding using deluxe section of approved manufacturer having Frame of size100mmx 30mm using frame at bottom, at top and side leaf frame sections of 60mm x 23mm at top & bottom and size 45mm x25mm at center and size 45mm x 25mm at sides, Jali leaf frame size 43mm x 13mm i/c fine quality aluminum jali, 5mm thick imported tinted glass with rubber gas ket using approved standard latches, wheel, stopper, brush channel angle joint and hardware etc.complete in all respect 2 mm thick	10500.00	Sft	Per Sft	
23	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.	2000.00	Kg	% Kg	
24	13/31	Preparing surface & painting with 3 coats Emulsion paint complete in all respects	305000.00	Sft	% Sft	
25	13/5	Painting new surface: Preparing surface and painting of doors and windows any type (including edges):- 3 coats	18250.00	Sft	% Sft	
26	13/32	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: new surface 2 coats, upto 20' height	48000.00	Sft	% Sft	
27	13/39	Extra labour for painting, varnishing, etc. from 20' (6.10 m) height and above, for every additional 10' (3.05 m) height,or part thereof, requiring scaffolding.	32500.00	Sft	% Sft	
28	12/7	First class deodar wood wrought joinery in doors and windows, etc. panelled, or panelled or glazed, or fully glazed, fixed in position, including chowkat, holdfast,hinges, tower bolts, chocks, rubber stop, cleats/G.I. clamps, handles and chord with hooks, etc. complete '(excluding sliding bolt or lock):- 1½" thick (40 mm)	500.00	Sft	Per Sft	
29	10/15	Providing and laying topping of cement concrete 1:2:4, including surface finishing and dividing in panels:- 2" thick	8200.00	Sft	% Sft	
30	12/18	Providing and fixing sliding bolt to doors:- iron sliding bolt, 12" (300 mm) long	385.00	No	Each	
31	10/42	Providing and fixing marble strip of any shade for dividing the mosaic flooring into panels Size 1½"x3/8" (40x10mm)	5600.00	Rft	Per Rft	
32	10/43	Providing and laying Tuff pavers, having 7000 PSI, crushing strength of approved manufacturer, over 2" to 3" sand cushion i/c grouting with sand in joints i/c finishing to require slope complete in all respect. (50% Grey / 50% Coloured) 60 mm thick	17500.00	Sft	P/Sft	
33	6/24	Providing and fixing 6 in(150 mm). wide curved sheet of required shape fixed on face of the construction joint with G.I.screw,1.5 in (40 mm) long to cover construction joints vertically:- G.I. sheet, 18 SWG	300.00	Rft	Per Rft	
34	25/36	Providing and fixing collapsible gate made of 2"x2"x"¼" (50x50x6 mm) tee iron at top and bottom, channel iron verticals ¾"x¼"x¼"x1/8" at 3" (75 mm) to 5" (125 mm) centre to centre (approximate) and flat iron crosses 3"x3/16" (75x5 mm), and best quality rollers at bottom of 3" (75 mm) diameter including holdfasts, 'handles 12" (300 mm) long of ¾"x¼"x¼"x1/8" (20x6x6x3 mm) channel iron, locking arrangement inside and outside, painting 3 coats of black Japan enameled, complete in working order.	150.00	Sft	Per Sft	
35	10/18	Extra labour for each storey above ground, for mosaic,conglomerate, tiles, stone and wooden floor.	35500.00	Sft	% Sft	
36	9/45	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 1.5" thick	36500.00	Sft	% Sft	
37	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.mbitumen coating sand blinded.	36500.00	Sft	% Sft	
38	9/15	Khuras on roof 2'x2'x6" (600 x 600 x 150 mm)	16.00	No	Each	
39	26/37	Supplying and laying polythene sheet over D.P.C. under floors and on roofs, etc. 500 gauge (.005" thick)	73000.00	Sft	Per Sft	

40	6/12	Providing and fixing ornamental cement jali 2" (50 mm) thick (1: 2: 4), without steel.	200.00	Sft		Per Sft	
41	6/28	Providing embedding 10" (250 mm) wide ¼" (6 mm) thick rubber water stopper in expansion joints of R.C.C. roof slab complete in all respects.	600.00	Rft		Per Rft	
						Total	
1	N.S	Civil Work (Non-Schedule) Providing, Fabricating and fixing 16 SWG M.S sheet hollow pressed Jamb frame (Factory primme) for door welded with MS flat size 10"x1"x1/8", hold fast i/c welding/screwing 4" long iron hinges, filling concrete for the jamb frame and embedding hold fast in the adjoining walls with 1:2:4 concrete, enamel painting etc. complete in all respects as show on the drawing and/ or as directed by the engineer, in conformance with following size i) 10"x2-1/2" ii) 6"x2-1/2"	11875.00 2500.00	Sft Sft		Per Sft Per Sft	
2	N.S	Providing & Fixing Fair Face Brick Guttka 9"x3"x2.25" (straight or on edges) joint in 1:3 cement surkhi over 3/4" thick (AVG) 1:4 C/S base mortor on wall including laying ornamental bricks in approved pattern, scaffolding & during at any height, complete in all respect as shown on the drawing or as directed by the engineer incharge.	36500.00	Sft		Per Sft	

3	N.S	Providing & Laying pre-polished granite marble slab 3/4" thick of aproved quality colour, shade & texture for stair treads set over 3/4" thick 1:3 cement sand mortor in i/c rendering off 2 Nos non-skirdding grooves (3/4" wide & 1/4" deep) in each steps, rounding off front edges, complete in all respects as shown in the drawing and or as directed by the engineer incharge	2625.00	Sft		Per Sft	
4	N.S	Providing and laying Floor Tile 24"x24" Granite with dry/wet/venied application, DWV series Polished (Dark color) class SB including 05% Wastage laid in cement with pigment on a bed of 3/4" thick cement sand mortar 1:2, complete in all respects as approved by Engineering inch.	73500.00	Sft		Per Sft	
5	N.S	Providing and laying Dado Tile 24"x4" Granite with dry/wet/venied application, DWV series Polished (Dark color) class SB including 05% Wastage laid in cement with pigment on a bed of 3/4" thick cement sand mortar 1:2, complete in all respects as approved by Engineering inch.	8500.00	Sft		Per Sft	
6	N.S	Providing and laying Floor Tile 12"x18" SP Series on matching color base (Glossy) Dark Color Rectified SB) including 05% Wastage laid in cement with pigment on a bed of 3/4" thick cement sand mortar 1:2, complete in all respects as approved by Engineer incharge (for Toilet Block)	14250.00	Sft		Per Sft	
7	N.S	Providing and laying Dado Tile 12"x18" SP Series on matching color base (Glossy) Dark Color Rectified SB) including 05% Wastage laid in cement with pigment on a bed of 3/4" thick cement sand mortar 1:2, complete in all respects as approved by Engineer incharge (for Toilet Block)	32340.00	Sft		Per Sft	
8	N.S	Providing & Fixing marble 3/4" thick Buticina fency 12"X12" with floating coat of cement over a bed of 3/4" thick cement sand mortor 1:2 over 1" thick PCC 1:2:4 Gray cement, including colour pigment to match with the colour of marble tiles laid with cement sand mortor 1:2 rubbing and chemical Polishing, as approved by Engineering Incharge	1500.00	Sft		Per Sft	
9	N.S	M.S Steel Grill for windows comprising of 1/2"x1/2" square bar @ 4" c/c with 1.25"x1.25"x1/8" MS box angle iron for frame including painting 3 coats complete in all respect as shown on the drawings, specification and/ or as directed by the Engineer incharge	10850.00	Kg		Per Kg	
10	N.S	Providing and fixing 1½" (40mm) thick uPVC flush door of approved design & make, all hardware/ accessories chromium plated fitting, iron hinges with aluminium kick plate 22 SWG on both sides & finger plate complete in all respect as approved by the engineer incharge	2950.00	Sft		Per Sft	
11	N.S	Providing and fixing 3/4" thick PVC Board shutter with one side leminate & 3/4" x 3/4" PVC beading over wardrobe frame of 3"x1.5" M.S Box pipe 18 SWG including catchers, lock, CP hanger rod with hooks, hydrluc hinges, on beading complete in all respects including	14650.00	Sft		Per Sft	

12	N.S	Putti filling for emulsion paint including rubbing and primary coat complete in all respects as approved by the Engineer Incharge.	305000.00	Sft		Per Sft	
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13	N.S	Providing & Laying pre-polished China verona marble slab 1" thick rendered with bevelled edges on counter trop set over 1/2" thick 1:3 cement sand mortor and expose joint fill with matching colour grout of wihite cement and colour pigment complete in all respects as shown in the drawing and or as directed by the engineer incharge	500.00	Sft		Per Sft	
14	N.S	Providing & Fixing Cabnet consisting of lamination board 3/4" thick for leaves, kail wood frame 2.50" x 1", Gola for 'leaf 3/4" x 3/4" including siprit polish for gola complete in all respects as per design, drawing & patern as approved by the engineer incharge (Down portion) Floor Mounted Cabinets (Shutters only)	475.00	Sft		Per Sft	
15	N.S	Providing & Fixing Cabnet upper portion consisting of lamination board 3/4" thick box and leaves, Partal wood frame 3" x 1", Gola for 'leaf 3/4" x 3/4" including siprit polish for gola complete in all respects as per design, drawing & patern as approved by the Engineer Incharge Wall Hanging Cabinets	350.00	Sft		Per Sft	
16	N.S	Providing & Fixing Hydraulic door closer including all hardware fitting best quality complete in all respect as approved by Engineer Incharge.	25.00	No		Each	
17	N.S	Providing and fixing ornamental partal wooden architrave 3"x1/2" (75mmx12mm) tapered to 1/4" (6mm) all along the door frame complete in all respect as approved by the Engineer Incharge.	3850.00	Sft		Per Sft	
18	N.S	2'-9" high stair railing comprising of 2-1/2" dia 16 gauge S.S pipe hand rail fixed with same dia pipe blusters as specified distance fixed at top of steps with expension bolts, 3 Nos of 16 gauge 1/2" dia S.S pipes horizontally fixed with blusters compelte in all respects	500.00	Rft		Per Rft	
19	N.S	Providing and fixing Steel door consisting of 16 gauge M.S sheet welded with M.S "L" section, 1-1/4" x 1-1/4" x 1/8" M.S "L" section welded with M.S Sheet, hinged with Chowkat, i/c locking arrangement,handles, hinges etc. duly enamel painted complete in all respects as per drawings and specifications and as approved by the Engineer in charge.	150.00	Sft		Per Sft	
20	N.S	Providing, applying and filling expansion joint with 2"x ¾" thick elastomeric sealant (Poly-Sulphide) of approved manufacture over backing rod complete in all respect according to manufactures recommendations and to the entire satisfaction of the engineer incharge	300.00	Rft		Per Rft	
21	N.S	Providing and fixing of False Ceiling consisting of lamenated Gypsum Board (one side laminated) of size 600 mm x 600 mm x 10 mm approx over aluminium Tee's 1"x 1"size at 2'-0"x2-0" center to center longitudinally and transversally & alminium angle of size 1" x 1" at corners/ ends, including all accessries such as steel hanging wire, hooks, screws, nails, rowel plugs, Cross Joints etc. complete in all respect, and as approved by the Engineer Incharge.	5000.00	Sft		Per Sft	
22	N.S	Providing & Fixing S.S pipe railing 2' high (For Gallery) comprising of 2.5" dia 16 SWG in corridor openings fixed with same dia pipe bluster at same distance with 2 No. 16 SWG 1/2" dia S.S pipe horizontally with accessories & fixing complete in all respect & as approved by the Engineer Incharge	2250.00	Rft		Per Rft	
23	N.S	Providing and laying Floor Tile 24"x24" with dry/wet/ venied application, Salt'Pepper (SPM-110) Dark Polished SB including 05% Wastage laid in cement with pigment on a bed of 3/4" thick cement sand mortar 1:2, complete in all respects as approved by Engineering incharge.	100.00	Sft		Per Sft	
24	N.S	Providing and laying Dado Tile 24"x4" with dry/wet/ venied application, Salt'Pepper (SPM-110) Dark Polished SB including 05% Wastage laid in cement with pigment on a bed of 3/4" thick cement sand mortar 1:2, complete in all respects as approved by Engineering incharge.	100.00	Sft		Per Sft	
						Total	
1	3/44	Plumbing work Excavation of trenches in all kinds of soil, except cutting rock for water supply pipe lines upto 5 ft. (1.5 m) depth from ground level, including trimming, dressing sides, levelling the beds of trenches to correct grade and cutting pits for joints.	7000.00	Cft		%o Cft	
2	3/42	Earthwork excavation in open cutting for sewers & 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 upto: i) 0 to 7 ft	20000.00	Cft		%oCft	
3	19/43	Providing & Fixing Brass gas cock 15mm 1/2" dia	20.00	No		Each	
4	23/41	Making connection for new watersupply lines with the running main, including excavation of trench and					

5	19/19	refilling, complete, but excluding cost of pipe and specials, etc. i) upto 6" i/d (150 mm)	1.00	Con.		P/Con	
		ii) upto 8" i/d (200 mm)	2.00	Con.		P/Con	
		Providing and fixing looking glass 55x40 cm (22"x16") size, and 5 mm thick, first quality.	15.00	No		Each	
6	23/22	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. Light Quality					
		a) ¾" i/d (20 mm)	850.00	Rft		P/Rft	
		b) 1" i/d (25 mm)	850.00	Rft		P/Rft	
		c) 1½" i/d (40 mm)	450.00	Rft		P/Rft	
7	23/42	Providing, laying, cutting, jointing, testing and disinfecting High Density Polyethylene Pipe (HDPE-100) working presure pipe in trenches. complete in all respects					
		PN-10 (SDR-17) i) 3" dia (90 mm)	650.00	Rft		P/Rft	
8	19/7	Providing and fixing stainless steel sink with drain board, size 120x60 cm (48"x24") including bracket set, waste pipe and waste coupling.	5.00	No		Each	
9	21/1	Providing and laying R.C.C. pipe, moulded with cement concrete 1:1½:3, with spigot socket or collar joint, etc. including cost of reinforcement, conforming to B.S. 5911: Part I: 1981, Class "L" including carriage of pipe from factory to site of work, lowering in trenches to correct alignment and grade, jointing, cutting pipes where necessary, finishing and testing, etc., complete. 225 mm (9") i/d	600.00	Rft		P/Rft	
						Total	
1	N.S	Plumbing work (Non-Schedule) Providing, fixing, cutting, jointing & testing uPVC drainage pipes of approved quality, i/c uPVC drainage fitting with soil vent cement jointing, " Type-B" or approved equal, rates i/c cost of clamping to walls and ceiling, hangers supports, cutting through wall & providing sleeves through concrete slab for pipe line & pipe fitting of following dia meters					
		i) 4" i/d	3000.00	Rft		Per Rft	
		ii) 6" i/d	3000.00	Rft		Per Rft	
2	N.S	Providing, fixing, jointing and testing polypropylene Random (PPR) pipes of approved quality, for cold water as per DIN 8077-8078, PN-20 for pipes and DIN 16962, PN-25 for fittings (polyfusion welded joints) inside building including fittings and specials (sockets, tees, elbows, bends, crosses, reducers, adaptor, plugs and union etc) recessed in walls or suspended form roof slab or run in chases including pipe hangers, supports, cutting and making good the chases and hole complete in all respects.					
		i) 25mm o.d	2000.00	Rft		Per Rft	
		ii) 32mm o.d	4750.00	Rft		Per Rft	
		iii) 40mm o.d	2500.00	Rft		Per Rft	
		iv) 50mm o.d	750.00	Rft		Per Rft	
3	N.S	Providing & Fixing uPVC P-trap 4" dia of approved quality	150.00	No		Each	
4	N.S	Construction of collection chamber without grating complete in all respcts as per drawing &/or as directed by the engineer	10.00	No		Each	
5	N.S	Providing & Fixing grating at site with angle iron frame 1.5"x1.5"x1/4" and 1" square bars @ 1" c/c compele in all respects according to the drawing and specifications as per direction by the engineer incharge.	10.00	No		Each	
6	N.S	Construction of square masnory manhole 2.50x2.50 ft. including cover & frame upto 5' depth	20.00	No		Each	
7	N.S	Providing and installing Brass Ball/ Handle valves of approved quality of following nominal dia, including jointing, fitting, painting, testing, complete in all respects to match with PPR/uPVC pipes of following diameters.					
		i) 25 mm O.D	12.00	No		Each	
		ii) 32 mm O.D	12.00	No		Each	
		iii) 40 mm O.D	12.00	No		Each	
		iv) 50 mm O.D	2.00	No		Each	
8	N.S	Supply and installation of Gas geysers of following capacity , including ball valves on inlet and outlet connections complete in all respects. 14 SWG tank, 55 gallon	8.00	No		Each	

9	N.S	Providing & Fixing Looking Glass 5-mm thick best quality,complete in all respect as per specifications and drawings and as approved by the Engineer Incharge.	600.00	Sft		P/Sft	
10	N.S	Providing & Fitting Steel floor jali best quality complete in all respect as per specifications and drawings and as approved by the Engineer Incharge.	105.00	No		Each	
11	N.S	Providing & Fixing Muslim shower (HD-30 Porta or equivalent company) with double bib cock (HDA-5270B Universal) & flexibe steel pipe complete unit i/c all accessries required at site complete in all respect as per specifications as approved by the Engineer incharge	25.00	No		Each	
12	N.S	Providing and fixing Coloured Glazed Earthen ware water closet Europen type Couple set including Flush Tank fixed with comode, normal seat cover, sheet cover thimble, connection pipe Complete in all respect and approved by Engineering Incharge. (HD201 Porta or equivalent company)	25.00	No		Each	
13	N.S	Providing and fitting Flushing cistern 3-Gallon capacity including Bracket set & Hockey pipe best quality complete in all respcts as approved by the engineer incharge (HD3T Porta or equivalent company)	50.00	No		Each	
14	N.S	Providing and fitting glazed earthen ware water closet (WC) Orisa pattern, combined with foot rest best quality complete in all respcts as approved by the engineer incharge (HDD9 Porta or equivalent company)	50.00	No		Each	
15	N.S	Providing and fitting glazed earthen ware Counter basin/Vanity (HD16 Porta or equivalent company) including waste pipe and waste coupling, etc. best quality complete in all respcts as approved by the engineer incharge	100.00	No		Each	
16	N.S	Providing and fitting Chromium plated Single lever Basin Mixer complete in all respcts as approved by the engineer incharge (Porta HDA0501M or equivalent company)	100.00	No		Each	
17	N.S	Providing and fitting Single Lever Bath Mixer (Porta HDA0563Y) or equivalent complete in all respects as approved by the engineer incharge	65.00	No		Each	
18	N.S	Providing and fitting Top Shower 6" dia (Porta HDDP2172) or equivalent complete in all respects as approved by the engineer incharge	65.00	No		Each	
19	N.S	Providing and fitting Wash Basin with Pedestal (Porta HD17) or equivalent complete in all respects as approved by the engineer incharge	20.00	No		Each	
20	N.S	Providing and fitting S.S Grip Bar (Porta HD95 456mm) or equivalent complete in all respects as approved by the engineer incharge	4.00	No		Each	
21	N.S	Providing and fitting Chromium Tee Stop Cock Porta HDJ817A or equivalent complete in all respects as approved by the engineer incharge	550.00	No		Each	
						Total	
		Electrical Work (Schedule)					
1	24/6	Supply and erection PVC pipe for recessed wiring (main and sub-main) purpose, including bends, specials, etc. in floor, wall or trenches:-					
		50 mm i/d	4000.00	Rft		Per Rft	
		80 mm i/d	2700.00	Rft		Per Rft	
2	24/10-a	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).250/440 volts, PVC insulated:					
		i) 7/1.63 mm (7/0.064")	3600.00	Rft		Per Rft	
		ii) 7/0.74 mm (7/0.029")	1400.00	Rft		Per Rft	
3	24/13	Supply and erection of copper conductor cables for service connection, in prelaid pipe/G.I. wire/trenches, etc. (rate for cable only):- .					
		PVC insulated, PVC sheathed 4 core, 660/1100 volt non armoured cable:-					
i	c(vi)	7/1.63 mm (7/0.064")	9000.00	Rft		Per Rft	
ii	c(vii)	19/1.32 mm (19/0.052")	9000.00	Rft		Per Rft	
4	3/44	Excavation of trenches in all kinds of soil, except cutting 'rock, for water supply pipe lines upto 5 ft. (1.5 m) depth from ground level, including trimming, dressing sides, levelling the beds of trenches to correct grade and cutting pits for joints, etc. complete in all respects.	15000.00	Cft		%o Cft	
5	3/15-i	Filling, watering and ramming earth under floors:-					
		with surplus earth from foundation, etc.	15000.00	Cft		%o Cft	
6	7/23	Dry brick pitching	600.00	Cft		% Cft	
						Total	

		Electrical Work (Non-Schedule)					
1	N.S	Wiring of light or fan point from switch board to the point with 3-Nos of 1.5 mm² (3/0.029") 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 in 20mm (3/4") PVC pipe i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge	1700.00	No		Each	
2	N.S	Circuit wiring from MCBs board to gang switch board/multi light plug with 3-Nos of 2.5 mm² (7/0.029") 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 in 25mm (1") PVC pipe i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge	2000.00	No		Each	
3	N.S	Wiring of light or fan from point to point with 3-Nos of 1.5 mm² (3/0.029") 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 in 20mm (3/4") PVC pipe i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge	270.00	No		Each	
4	N.S	Wiring of Multi/light plug from point to point with 3-Nos of 2.5 mm² (7/0.029") 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 in 20mm (¾") PVC pipe i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge	200.00	No		Each	
5	N.S	Circuit wiring from MCBs board to Power Plug with 3-Nos of 6 mm² (7/0.044") 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 in 25mm (1") PVC pipe i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge	200.00	No		Each	
6	N.S	Providing & laying of PVC/PVC 2-Core flexible 23/0.0076" copper conductor cable i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (KM, Eagle or Equivalent)	30.00	M		Per M	
7	N.S	Providing & laying of PVC/PVC 3-Core flexible 40/0.0076" copper conductor cable i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (KM, Eagle or Equivalent)	30.00	M		Per M	
8	N.S	Supply & installation of LED 17W Down Light (6" Surface Mounted, 220V~) i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips Meson or Equivalent)	350.00	No		Each	
9	N.S	Supply & installation of Wall Mounted LED Batten Light 20W (220V~, 6500K) i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips Slimline or Equivalent)	850.00	No		Each	
10	N.S	Supply & installation of Wall Bracket Fan 18" (99.99% Copper) i/c any accessories (i.e. mounting screws & etc) as required at site. Complete in all respect as directed and approved by the Engineer Incharge (Younis, Tamoor, Pakfan or Equivalent)	4.00	No		Each	
11	N.S	Supply & installation of Metal Body Wall Bracket Fan 24" (99.99% Copper) i/c any accessories (i.e. widing of mounting holes and 4.00nos of rawl bolts ¼" etc) as required at site. Complete in all respect as directed and approved by the Engineer Incharge (SK mega or Equivalent)	3.00	No		Each	
12	N.S	Supply & installation of Ceiling Fans, 56" sweep (As per "Pakistan Energy Lable" certified manufacturers). i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge	370.00	No		Each	
13	N.S	Supply & installation of Metal body Exhaust fan 20" (99.99% Copper) with metal mounting frame i/c any accessories (i.e. screw. Rawl plug/rawl bolt etc.) as required at site. Complete in all respect as directed and approved by the Engineer Incharge (Tamoor, Indus, Pakfan or Equivalent)	40.00	No		Each	
14	N.S	Supply & installation of PVC Exhaust fan 12" (99.99% Copper) i/c any accessories (i.e. screw. Rawl plug or steel nail, etc.) as required at site. Complete in all respect as directed and approved by the Engineer Incharge (GFC, Indus, Pakfan or Equivalent)	12.00	No		Each	
15	N.S	Supply & installation of Universal 3-Pole Socket with 13A Switch with plastic back box 3"x 3" i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips ECO Series Q2 or Equivalent)	820.00	No		Each	
16	N.S	Supply & installation of a Power plug 15A with plastic back box 3"x 3" i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips ECO Series Q2 or Equivalent)	190.00	No		Each	
17	N.S	Supply & installation of a Fan Dimmer 300W with plastic back box 3"x 3" i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips ECO Series Q2 or Equivalent)	370.00	No		Each	
18	N.S	Supply & installation of a Four Single Pole Switch Plate with plastic back box 3"x 3" i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips ECO Series Q2 or Equivalent)	28.00	No		Each	
19	N.S	Supply & installation of a Six Single Pole Switch Plate with plastic back box 3"x 6" i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge. (Philips ECO Series Q2 or Equivalent)	15.00	No		Each	

20	N.S	Supply & installation of a Eight Single Pole Switch Plate with plastic back box 3"x 6" i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge. (Philips ECO Series Q2 or Equivalent)	240.00	No		Each	
21	N.S	Supply & installation of a Four Single Pole Switch & Two 2-Pin Socket Plate with plastic back box 3"x 6" i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge. (Philips ECO Series Q2 or Equivalent)	8.00	No		Each	
22	N.S	Supply, installation, connection & commissioning of distribution boards, (Sub Main DB-N), Open type Wall mounted design, made of M.S. Sheet 18 SWG with hinged glass door, handle, and 2 coats of Approved paint, (Size 18"x24") including Incoming Main Molded Case Circuit Breaker of 80 Amps T-p (15KA) 1.00 No, Distribution Miniature Circuit Breaker of 10/20 Amps S-p (6KA) 18.00 Nos, LED phase light volt meter type (RYB), Earthing bar, Neutral bar and any accessories (i.e. Earth/neutral bar, Nut/bolts, Screws/rawl plugs, Jumper connections & etc.) required at site. Complete in all respects as approved by the engineer incharge. (for MCCB & MCBs Hitachi, Schneider Electric, Legrand or equivalent).	15.00	No			
23	N.S	Supply, installation, connection & commissioning of distribution boards, (Sub Main DB-E), Open type Wall mounted design, made of M.S. Sheet 18 SWG with hinged glass door, handle, and 2 coats of Approved paint, (Size 18"x24") including Incoming Main Molded Case Circuit Breaker of 50 Amps T-p (10KA) 1.00 No, Distribution Miniature Circuit Breaker of 10/16 Amps S-p (6KA) 18.00 Nos, LED phase light volt meter type (RYB), Earthing bar, Neutral bar and any accessories (i.e. Earth/neutral bar, Nut/bolts, Screws/rawl plugs, Jumper connections & etc.) required at site. Complete in all respects as approved by the engineer incharge. (for MCCB & MCBs Hitachi, Schneider Electric, Legrand or equivalent).	15.00	No		Each	
24	N.S	Supply, installation, connection & commissioning of distribution boards, (DBs), Floor Standing design, made of M.S. Sheet 14 SWG with hinged door, handle, catchers and 2 coats of Approved paint, (Size 7"x6"x18") including Incoming Main Molded Case Circuit Breaker 1000 Amps T-p (36KA) 1.00 No, For DB-N (Main Molded Case Circuit Breaker 630 Amps T-p (36KA) 1.00 No and distribution Molded Case Circuit Breaker 80 Amps T-p (15KA) 21.00 Nos) & for DB-E (Main Molded Case Circuit Breaker 400 Amps T-p (36KA) 1.00 No and distribution Molded Case Circuit Breaker 50 Amps T-p (15KA) 21.00 Nos) respectively, Digital Volt, Selector switches, LED Phase lights, Copper bus bars, Earthing bar, Neutral bar and any accessories required at site. Complete in all respects as approved by the engineer incharge. (for MCCB General Electric, Schneider Electric & Legrand).	1.00	No		Each	
25	N.S	Providing and Laying earthing for Electric Machines l/c boring up to moisture level (up to 60' below ground level) 4" i/d including copper strip 14" x 2" x 1/4" (350 x 50 x 6 mm) connecting with 1 Nos.bare copper wire of No.8 SWG to be run in PVC pipe 20mm i/d, 1 1/4" i/d GI pipe 5' long, GI tee & plug for watering also includs common salt, Lime (slaked) and charcoal around copper strip l/c connecting with Electric machine. Complete in all respects as approved and as directed by the engineer incharge.	3.00	No		Each	
26	N.S	Supply & installation of Wall Light with 3 Watt LED Blub (Philips) (220V~, 6500K) i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge.	130.00	No		Each	
27	N.S	Supply & installation of LED 2'x 2' Ceilling Panel Light 36W (220V~, CW or WW) i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips 36S/865 PSU W60L60 GM G2 or Equivalent)	200.00	No		Each	
28	N.S	Supply & installation of 2' x 2' False Ceiling Fan 16" swipe (99.99% Copper), remote controlled i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Royal, Super-asia or Equivalent)	90.00	No		Each	
29	N.S	Providing & laying of 240 mm ² 4-Core Copper Conductor PVC/PVC/steel wire armoured/PVC (Armoured) cable i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Newage, Pakistan, Copper Gate, Fast or Equivalent)	100.00	M		Per M	
30	N.S	Supply & installation of PVC Fan Box with iron bar i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge. (GM, Bita or equivalent)	370.00	No		Each	
31	N.S	Horizontal boring 4" dia underneath roads, walking path & ramps of houses for crossing of Electric power cables, PVC pipes or Water lines. Complete in all respects as approved and as directed by the engineer incharge.	100.00	Rft		Per Rft	
						Total	

1	3/21	External Work (Guard Hut, Visitor Room, Tuck Shop & Boundary Wall) Civil Work 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). b) In ordinary soil.	6000.00	Cft		%o Cft	
2	6/5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): Ratio 1: 2: 4	200.00	Cft		% Cft	
3	6/3	Cement concrete brick or stone ballast 1½ " to 2" (40 mm to 50 mm) gauge, in foundation and plinth:- i) Ratio 1:4:8	350.00	Cft		% Cft	

		i) Ratio 1:6:12	3500.00	Cft		% Cft	
4	6/6	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:- Type C (nominal mix 1: 2: 4)	350.00	Cft		Per Cft	
5	26/42	Spraying anti-termite liquid mixed with water in the ratio of 1:40	600.00	Sft		% Sft	
6	7/4	Pacca brick work in foundation and plinth in:- Cement, sand mortar: Ratio 1:6	8500.00	Cft		% Cft	
7	6/33	Providing and laying damp proof course of cement concrete 1:2: 4 (using cement, sand and shingle), including bitumen coating:- with one coat bitumen and one coat polythene sheet 500 gauge. 1.5" thick (40 mm)	1900.00	Sft		% Sft	
8	6/35	Providing and laying vertical damp proof course with cement sand plaster and bitumen coating:- with one coat of bitumen and one coat of polythene sheet 500 gauge: Ratio 1:3 ¾ " thick (20 mm)	500.00	Sft		% Sft	
9	3/15 +3/17	Filling, watering and ramming earth under floors:- i) with surplus earth from foundation, etc.	1500.00	Cft		%o Cft	
		ii) with new earth excavated from outside,lead upto 1/4 mile	3000.00	Cft		%o Cft	
10	7/5	Pacca brick work in Cement, sand mortar:- Ratio 1:5 i) Ground Floor (7/5-i)	2500.00	Cft		% Cft	
11	7/5	Pacca brick work in Cement, sand mortar:- Ratio 1:4 i) Ground Floor	100.00	Cft		% Cft	
12	11/10	Cement plaster 3/8" (10 mm) thick under soffit of R.C.C. roof slabs only, upto 20' height. Ratio 1:3	1000.00	Sft		% Sft	
13	11/9	Cement plaster 1:4 upto 20' (6.00 m) height:- i) ½" (13 mm) thick (11/9-b)	37500.00	Sft		% Sft	
		ii) 3/4" (20 mm) thick	6000.00	Sft		% Sft	
14	6/9	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 Deformed Bar 60-Grade	1500.00	Kg		% Kg	

15	6/6	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 mix1:2:4) using harrow sand Ground Floor	550	Cft		Per Cft	
16	7/30	Supplying and filling sand under floor; or plugging in wells	400.00	Cft		% Cft	
17	6/2	Dry rammed brick or stone ballast, 1½" to 2"(40 mm to 50 mm) gauge.	400.00	Cft		% Cft	
18	12/50	Providing and fixing 1½" (40mm) thick solid flush door shutter sterling or equivalent with commercial ply (5 mm thick) on both sides double pressed and deodar wood lipping 1½"x3/8" (40mm x 10mm) around shutter including chromium plated fitting, iron hinges with aluminium kick plate 22 SWG on both sides & finger plate complete in all respect.	200.00	Sft		Per Sft	
19	25/53	Providing and fixing all types of glazed aluminium windows of anodized champagne colour partly fixed and party sliding using deluxe section of approved manufacturer having Frame of size100mmx 30mm using frame at bottom, at top and side leaf frame sections of 60mm x 23mm at top & bottom and size 45mm x25mm at center and size 45mm x 25mm at sides, Jali leaf frame size 43mm x 13mm i/c fine quality aluminum jali, 5mm thick imported tinted glass with rubber gas ket using approved standard latches, wheel, stopper, brush chennel angle joint and hardware etc.complete in all respect 2 mm thick	250.00	Sft		Per Sft	
20	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.	500.00	Kg		% Kg	
21	13/31	Preparing surface & painting with 3 coats Emulsion paint complete in all respects	3000.00	Sft		% Sft	
22	13/5	Painting new surface: Preparing surface and painting of doors and windows any type (including edges):- 3 coats	200.00	Sft		% Sft	

23	13/32	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: new surface 2 coats i) upto 20' height	41000.00	Sft	% Sft	
24	10/15	Providing and laying topping of cement concrete 1:2:4, including surface finishing and dividing in panels:- 2" thick	400.00	Sft	% Sft	
25	12/18	Providing and fixing sliding bolt to doors:- iron sliding bolt, 12" (300 mm) long	10.00	No	Each	
26	10/42	Providing and fixing marble strip of any shade for dividing the mosaic flooring into panels Size 1½"x3/8" (40x10mm)	400.00	Rft	Per Rft	
27	7/7	Pacca brick work other than building upto 10ft. (3 m) height. cement, sand mortar:- 'Ratio 1:5	8000.00	Cft	% Cft	
28	10/43	Providing and laying Tuff pavers, having 7000 PSI, crushing strength of approved manufacturer, over 2" to 3" sand cushion i/c grouting with sand in joints i/c finishing to require slope complete in all respect. (50% Grey / 50% Coloured) 60 mm thick	9500.00	Sft	P/Sft	
					Total	
1	N.S	Civil Work (Non-Schedule) Providing, Fabricating and fixing 16 SWG M.S sheet hollow pressed Jamb frame (Factory primme) for door welded with MS flat size 10"x1"x1/8", hold fast i/c welding/screwing 4" long iron hinges, filling concrete for the jamb frame and embedding hold fast in the adjoining walls with 1:2:4 concrete, enamel painting etc. complete in all respects as show on the drawing and/ or as directed by the engineer, in conformance with following size i) 10"x2-1/2" ii) 6"x2-1/2"	250.00 55.00	Sft Sft	Per Sft Per Sft	
2	N.S	Providing & Fixing Fair Face Brick Guttka 9"x3"x2.25" (straight or on edges) joint in 1:3 cement surkhi over 3/4" thick (AVG) 1:4 C/S base mortor on wall including laying ornamental bricks in approved pattern, scaffolding & during at any height, complete in all respect as shown on the drawing or as directed by the engineer incharge.	2000.00	Sft	Per Sft	
3	N.S	Providing and laying Floor Tile 24"x24" Granite with dry/wet/venied application, DWV series Polished (Dark color) class SB including 05% Wastage laid in cement with pigment on a bed of 3/4" thick cement sand mortar 1:2, complete in all respects as approved by Engineering inch.	950.00	Sft	Per Sft	
4	N.S	Providing and laying Floor Tile 12"x18" SP Series on matching color base (Glossy) Dark Color Rectified SB) including 05% Wastage laid in cement with pigment on a bed of 3/4" thick cement sand mortar 1:2, complete in all respects as approved by Engineer incharge	60.00	Sft	Per Sft	
5	N.S	Providing and laying Dado Tile 12"x18" SP Series on matching color base (Glossy) Dark Color Rectified SB) including 05% Wastage laid in cement with pigment on a bed of 3/4" thick cement sand mortar 1:2, complete in all respects as approved by Engineer incharge	250.00	Sft	Per Sft	
6	N.S	Providing & Fixing marble 3/4" thick Buticina fency 12"X12" with floating coat of cement over a bed of 3/4" thick cement sand mortor 1:2 over 1" thick PCC 1:2:4 Gray cement, including colour pigment to match with the colour of marble tiles laid with cement sand mortor 1:2 rubbing and chemical Polishing, as approved by Engineering Incharge	30.00	Sft	Per Sft	
7	N.S	M.S Steel Grill for windows comprising of 1/2"x1/2" square bar @ 4" c/c with 1.25"x1.25"x1/8" MS box angle iron for frame including painting 3 coats complete in all respect as shown on the drawings, specification and/ or as directed by the Engineer incharge	350.00	Kg	Per Kg	
8	N.S	Providing and fixing 1½" (40mm) thick uPVC flush door of approved design & make, all hardware/ accessories chromium plated fitting, iron hinges with aluminium kick plate 22 SWG on both sides & finger plate complete in all respect as approved by the engineer incharge	50.00	Sft	Per Sft	
9	N.S	Putti filling for emulsion paint including rubbing and primary coat complete in all respects as approved by the Engineer Incharge.	3000.00	Sft	Per Sft	
10	N.S	Providing and fixing ornamental partial wooden architrave 3"x1/2" (75mmx12mm) tapered to 1/4" (6mm) all along the door frame complete in all respect as approved by the Engineer Incharge.	200.00	Sft	Per Sft	
11	N.S	Providing and fixing Razor cutt wire fencing double sharp four pointed razors @ 1- 1/4" c/c with 'U' shaped cladding over M.S wire making ring of 24" dia 3 Nos rings in one Rft				

12	N.S	lenth at 0.66 Kg P/Rft fixed on wall with M.S angle iron post 1.5"x1.5"x3/16" 2'-3" high + and 9" embeded in base of P.C.C 1:2:4 (9"x9"x9"at every 4' apart i/c 2 Nos bars 3/8" dia welded horizontally with angle iron, i/c binding wire i/c painting posts etc. complete in all respects.	1200.00	Rft		Per Rft	
		Providing and laying Floor Tile 24"x24" with dry/wet/venied application, Salt'Pepper (SPM-110) Dark Polished SB including 05% Wastage laid in cement with pigment on a bed of 3/4" thick cement sand mortar 1:2, complete in all respects as approved by Engineering incharge.	50.00	Sft		Per Sft	
						Total	
1	3/44	Plumbing work Excavation of trenches in all kinds of soil, except cutting 'rock, for water supply pipe lines upto 5 ft. (1.5 m) depth from ground level, including trimming, dressing sides, levelling the beds of trenches to correct grade and cutting pits for joints, etc	500.00	Cft		%o Cft	
2	3/42	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 upto: i) 0 to 7 ft	500.00	Cft		%oCft	
3	19/19	Providing and fixing looking glass 55x40 cm (22"x16") size, and 5 mm thick, first quality.	1.00	No		Each	
4	23/22	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. Light Quality a) ¾" i/d (20 mm) b) 1" i/d (25 mm)	100.00 100.00	Rft Rft		P/Rft P/Rft	
5	19/1	Providing and fitting glazed earthen ware water closet European type, excluding seat and cover:- coloured	1.00	No		Each	
6	19/2	Providing and fixing, double seat and cover only. bakelite	1.00	No		Each	
7	19/3	providing and fitting glazed earthen ware water closet, squatter type (Orisa pattern), combined with foot rest. coloured	3.00	No		Each	
8	19/6	Providing and fitting glazed earthen ware wash hand basin 56x40 cm (22"x16") including bracket set, waste pipe and waste coupling, etc. i) coloured, with pedestal	3.00	No		Each	
9	19/12	Providing and fitting plastic made low down flushing cistern 13.63 litre (3 gallons) capacity, including bracket set, copper connection, etc. complete. Coloured	3.00	No		Each	
10	19/22	Providing and fitting:- i) Plastic soap dish ii) Plastic toilet paper holder iii) Plastic towel rail iv) Plastic shelf 60x13 cm (24"x5") with bracket and railing.	3.00 3.00 3.00 3.00	No No No No		Each Each Each Each	
11	19/27	Providing and fixing chromium plated tee stop cock 15mm (½")	6.00	No		Each	
12	19/26	Providing and fixing chromium plated bib cock:- 1.5 cm (½")	3.00	No		Each	
13	19/28	Providing and fixing chromium plated shower rose:- 1.5x10 cm (½"x4")	1.00	No		Each	
14	19/29	Providing and fixing, chromium plated mixing valve, for wash hand basin, sink or shower.	1.00	No		Each	
15	19/34	Providing and fitting "P" trap:- 10 cm (4") glazed.	3.00	No		Each	
						Total	
1	N.S	Plumbing work (Non-Schedule) Providing, fixing, cutting, jointing & testing uPVC drainage pipes of approved quality, i/c uPVC drainage fitting with soil vent cement jointing, " Type-B" or approved equal, rates i/c cost of clamping to walls and ceiling, hangers supports, cutting through wall & providing sleeves through concrete slab for pipe line & pipe fitting of following dia meters i) 4" i/d ii) 6" i/d	50.00 50.00	Rft Rft		Per Rft Per Rft	
2	N.S	Providing, fixing, jointing and testing polypropylene Random (PPR) pipes of approved quality, for cold water as per DIN 8077-8078, PN-20 for pipes and DIN 16962, PN-25 for					

		fittings (polyfusion welded joints) inside building including fittings and specials (sockets, tees, elbows, bends, crosses, reducers, adaptor, plugs and union etc) recessed in walls or suspended form roof slab or run in chases including pipe hangers, supports, cutting and making good the chases and hole complete in all respects. i) 25mm o.d	100.00	Rft		Per Rft	
		ii) 32mm o.d	150.00	Rft		Per Rft	
3	N.S	Providing & Fixing uPVC P-trap 4" dia of approved quality	3.00	No		Each	
4	N.S	Providing and installing Brass Ball/ Handle valves of approved quality of following nominal dia, including jointing, fitting, painting, testing, complete in all respects to match with PPR/uPVC pipes of following diameters. i) 25 mm O.D ii) 32 mm O.D	1.00 1.00	No No		Each Each	
5	N.S	Providing & Fitting Steel floor jali best quality complete in all respect as per specifications and drawings and as approved by the Engineer Incharge.	3.00	No		Each	
						Total	
		Electrical Work (Schedule)					
1	24/6	Supply and erection PVC pipe for recessed wiring (main and sub-main) purpose, including bends, specials, etc. in floor, wall or trenches:- 50 mm i/d	200.00	Rft		Per Rft	
2	24/3	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. 25 mm i/d	1750.00	Rft		Per Rft	
3	24/10-a	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).250/440 volts, PVC insulated: i) 7/1.63 mm (7/0.064") ii) 7/0.74 mm (7/0.029") iii) 7/1.12 mm (7/0.044")	700.00 850.00 3700.00	Rft Rft Rft		Per Rft Per Rft Per Rft	
4	24/13	Supply and erection of copper conductor cables for service connection, in prelaid pipe/G.I. wire/trenches, etc. (rate for cable only):- PVC insulated, PVC sheathed 4 core, 660/1100 volt non armoured cable:- i c(vi) 7/1.63 mm (7/0.064")	250.00	Rft		Per Rft	
5	3/44	Excavation of trenches in all kinds of soil, except cutting 'rock, for water supply pipe lines upto 5 ft. (1.5 m) depth from ground level, including trimming, dressing sides, levelling the beds of trenches to correct grade and cutting pits for joints, etc. complete in all respects.	15000.00	Cft		%o Cft	
6	3/15-i	Filling, watering and ramming earth under floors:- with surplus earth from foundation, etc.	15000.00	Cft		%o Cft	
7	7/23	Dry brick pitching	600.00	Cft		% Cft	
						Total	
		Electrical Work (Non-Schedule)					
1	N.S	Wiring of light or fan point from switch board to the point with 3-Nos of 1.5 mm² (3/0.029") 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 in 20mm (3/4") PVC pipe i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge	30.00	No		Each	
2	N.S	Circuit wiring from MCBs board to gang switch board/multi light plug with 3-Nos of 2.5 mm² (7/0.029") 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 in 25mm (1") PVC pipe i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge	10.00	No		Each	
3	N.S	Wiring of light or fan from point to point with 3-Nos of 1.5 mm² (3/0.029") 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 in 20mm (3/4") PVC pipe i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge	15.00	No		Each	
4	N.S	Wiring of Multi/light plug from point to point with 3-Nos of 2.5 mm² (7/0.029") 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 in 20mm (¾") PVC pipe i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge	6.00	No		Each	
5	N.S	Circuit wiring from MCBs board to Power Plug with 3-Nos of 6 mm² (7/0.044") 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 in 25mm (1") PVC pipe i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge	5.00	No		Each	

6	N.S	Supply & installation of LED 17W Down Light (6" Surface Mounted, 220V~) i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips Meson or Equivalent)	8.00	No		Each	
7	N.S	Supply & installation of Wall Mounted LED Batten Light 20W (220V~, 6500K) i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips Slimline or Equivalent)	12.00	No		Each	
8	N.S	Supply & installation of Wall Bracket Fan 18" (99.99% Copper) i/c any accessories (i.e. mounting screws & etc) as required at site. Complete in all respect as directed and approved by the Engineer Incharge (Younis, Tamoor, Pakfan or Equivalent)	1.00	No		Each	
9	N.S	Supply & installation of Metal Body Wall Bracket Fan 24" (99.99% Copper) i/c any accessories (i.e. widening of mounting holes and 4.00nos of rawl bolts ¼" etc) as required at site. Complete in all respect as directed and approved by the Engineer Incharge (SK mega or Equivalent)	1.00	No		Each	
10	N.S	Supply & installation of Ceiling Fans, 56" sweep (As per "Pakistan Energy Lable" certified manufacturers). i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge	5.00	No		Each	
11	N.S	Supply & installation of PVC Exhaust fan 12" (99.99% Copper) i/c any accessories (i.e. screw. Rawl plug or steel nail, etc.) as required at site. Complete in all respect as directed and approved by the Engineer Incharge (GFC, Indus, Pakfan or Equivalent)	5.00	No		Each	
12	N.S	Supply & installation of Universal 3-Pole Socket with 13A Switch with plastic back box 3"x 3" i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips ECO Series Q2 or Equivalent)	10.00	No		Each	
13	N.S	Supply & installation of a Power plug 15A with plastic back box 3"x 3" i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips ECO Series Q2 or Equivalent)	5.00	No		Each	
14	N.S	Supply & installation of a Fan Dimmer 300W with plastic back box 3"x 3" i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips ECO Series Q2 or Equivalent)	5.00	No		Each	
15	N.S	Supply & installation of a Four Single Pole Switch Plate with plastic back box 3"x 3" i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips ECO Series Q2 or Equivalent)	3.00	No		Each	
16	N.S	Supply & installation of a Six Single Pole Switch Plate with plastic back box 3"x 6" i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge. (Philips ECO Series Q2 or Equivalent)	2.00	No		Each	
17	N.S	Supply & installation of a Eight Single Pole Switch Plate with plastic back box 3"x 6" i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge. (Philips ECO Series Q2 or Equivalent)	5.00	No		Each	
18	N.S	Supply & installation of a Four Single Pole Switch & Two 2-Pin Socket Plate with plastic back box 3"x 6" i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge. (Philips ECO Series Q2 or Equivalent)	2.00	No		Each	
19	N.S	Supply, installation, connection & commissioning of distribution boards, (Sub Main DB-N), Open type Wall mounted design, made of M.S. Sheet 18 SWG with hinged glass door, handle, and 2 coats of Approved paint, (Size 18"x24") including Incoming Main Molded Case Circuit Breaker of 80 Amps T-p (15KA) 1.00 No, Distribution Miniature Circuit Breaker of 10/20 Amps S-p (6KA) 18.00 Nos, LED phase light volt meter type (RYB), Earthling bar, Neutral bar and any accessories (i.e. Earth/neutral bar, Nut/bolts, Screws/rawl plugs, Jumper connections & etc.) required at site. Complete in all respects as approved by the engineer incharge. (for MCCB & MCBs Hitachi, Schneider Electric, Legrand or equivalent).	1.00	No			
20	N.S	Providing and Laying earthing for Electric Machines i/c boring up to moisture level (up to 60' below ground level) 4" i/d including copper strip 14" x 2" x 1/4" (350 x 50 x 6 mm) connecting with 1 Nos.bare copper wire of No.8 SWG to be run in PVC pipe 20mm i/d, 1¼" i/d GI pipe 5' long, GI tee & plug for watering also includes common salt, Lime (slaked) and charcoal around copper strip i/c connecting with Electric machine.	2.00	No		Each	
21	N.S	Supply & installation of Wall Light with 3 Watt LED Blub (Philips) (220V~, 6500K) i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge.	12.00	No		Each	
22	N.S	Supply & installation of PVC Fan Box with iron bar i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge. (GM, Bita or equivalent)	5.00	No		Each	
23	N.S	Supply & Installation & commissioning of 200 KVA (11 KV/415V) 3-phase, 50 Hz step down Pole mounted / enclosed type distribution Transformer having connection group, DY-11 oil immersed natural cooled with off load tap changer +2.1/2 % - 5% and 7.5% (as per WAPDA standard) i/c any other accessories required at site. Complete in all respects as approved by the Engineer incharge. (with complete purchase and tax documents) (PEL, Transfopower or Equivalent)	1.00	No		Each	
24	N.S	Supply and installation of Double pole Plate Farm for 200KVA Transformer (Rs.Joist size 4"x8" with cross, welding, nut bolts i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge	1.00	No		Each	

25	N.S	Supply & installation of Die-Cast Aluminum LED Boundary Light 27W (220V~, 6500K) i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips, BRP210 LED 34 or Equivalent).	48.00	No		Each	
26	N.S	Supply & installation of 11-KV Dropout Fuse assemblies Set i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge	1.00	No		Each	
						Total	

The Islamia University of Bahawalpur

Construction of new Approach Road No.2 including Round-About at Baghdad-ul-Jadeed Campus

Civil work				MRS Jan to Jun, 2021			
No	MRS	Description	Quantity		Rate	Unit	Amount
1	3/5-iii iii+ 17/a	Earthowrk in ordinary soil for embankments including ploughing and mixing with blade grade or disc harrow or other suitable equipment, and compaction by mechanical means at optimum moisture content and dressing to designed section, complete 90% maximum modified AASHO dry density. i) Lead upto 100 ft. ii) Lead upto 1/4 mile	400000.00	Cft		%o Cft	
			500000.00	Cft		%o Cft	
2	3/2	Earthwork excavation in ashes, sand and soft soil or silt clearance, undressed lead upto 50 ft (15 metre).	200000.00	Cft		%o Cft	
3	3/25	Compaction of earthwork with power road roller including ploughing, mixing, moistening earth to optimum moisture content in layers, etc. complete: 90% maximum modified AASHO dry density.	200000.00	Cft		%o Cft	
4	18/19	Providing and laying dry brick pavement/soing in streets or roads, etc. sand grounted, laid in proper camber, including preparation, watering, compaction of bed to proper camber, and sand cushion.	90000.00	Cft		% Cft	
5	18/5	Providing and laying road edging of 3" (75 mm) wide and 9" (225 mm) deep brick on end, complete in all respects.	25000.00	Rft		Per Rft	
6	18/4	Providing and laying base course of crushed stone aggregate of approved quality and grade, and supply and spreading of stone screening, including placing, mixing, spreading and compaction of base course material to required depth, camber and grade to achieve 100% maximum modified AASHO dry density, i/c carriage of all materials to site of work.	130000.00	Cft		% Cft	
7	18/10 iv	Providing & Laying plant premixed bituminous including compaction and finishing to required grade and density, 4.50% bitumen 2" thick	265000.00	Sft		% Sft	
8	18/6	Providing and laying bituminous priming coat, using 10 'lbs. kerosene oil and 10 lbs. binder per 100 Sft. or 0.5 Kg kerosene and 0.5 Kg binder per square metre.	265000.00	Sft		% Sft	
9	10/43	Providing and laying Tuff pavers, having 7000 PSI, crushing strength of approved manufacturer, over 2" to 3" sand cushion i/c grouting with sand in joints i/c finishing to require slope. Complete in all respect. (50% Grey / 50% Coloured) 60mm thick	70000.00	Sft		P/Sft	
10	6/5-f	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): Ratio 1: 2: 4	3000.00	Cft		% Cft	
11	7/5	Pacca brick work in foundation & plinth with cement, sand mortar:- Ratio 1:6	15800.00	Cft		% Cft	
12	11/9	Cement plaster 1:4 upto 20' (6.00 m) height:- i) ½" (13 mm) thick	25000.00	Sft		% Sft	
13	6/3	Cement concrete brick or stone ballast 1½ " to 2" (40mm to 50 mm) gauge, in foundation and plinth:- Ratio 1:6:12	30000.00	Cft		% Cft	
						Total	
1	N.S	Civil Work (Non-Schedule) Providing & Fixing Pre-Cast Kerb stone size 12"x14"x6" (300mmx350mmx150mm) and duly embedded on a bed of PCC 1:6:12 (4" thick), PCC 1:2:4 for hanuching, laid with cement sand mortor 1:3, 3/4" thick i/c painting of 3 coats complete in all respects as per design & as approved by the engineer incharge made (Izhar/Banu Mukhtar/ Mukhtar Sons)	28000.00	Rft		Per Rft	
						Total	

Construction of 4 Nos Pipe Culverts 40' wide

No		Description	Quantity		Rate	Unit	Amount
1	3/21	Excavation in foundation of building, bridges and other structures including deg-belling, dressing, refilling around structure with excavated earth, watering and ramming lift upto 5 ft. - in ordinary soil	2400.00	Cft		%o Cft	
2	6/3	Cement concrete brick or stone ballast 1½ " to 2" (40 mm to 50 mm) gauge, in foundation & plinth:- Ratio 1:4:8	400.00	Cft		% Cft	

3	7/4	Pacca brcik work in foundation and plinth in Cement Sand Mortar Ratio 1:6	2000.00	Cft	% Cft	
4	11/9	Cement Plaster 1:4 upto 20' height 1/2" thick	3000.0	Sft	% Sft	
5	21/3	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, i/c 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., 18" i/d	160.00	Rft	Per Rft	
6	6/9-b	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 Bar 40-Grade	1200.0	Kg	% Kg	
7	6/6	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 Type C (nominal mix 1: 2: 4)	800.00	Cft	Per Cft	
8	6/5-f	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): Ratio 1: 2: 4	200.00	Cft	% Cft	
					Total	

A		Electrical Work (Schedule)					
1	24/4-ii	Supply and erection of PVC pipe for wiring on surface including clamps inspection boxes, pull boxes, bends, tees, repairing surface, etc., complete with all specials:-					
		20 mm i/d	400.00	Rft		Per Rft	
2	24/10-a	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).250/440 volts, PVC insulated:.					
		7/0.74 mm (7/0.029")	8800.00	Rft		Per Rft	
3	24/13	Supply and erection of copper conductor cables for service connection, in prelaid pipe/G.I. wire/trenches, etc. (rate for cable only):- .					
i		PVC insulated, PVC sheathed 3 core, 660/1100 volt cable:-7/0.74 mm (7/0.029")	3100.00	Rft		Per Rft	
ii		PVC insulated, PVC sheathed 4 core, 660/1100 volt non armoured cable:- 7/1.63 mm (7/0.064")	8800.00	Rft		Per Rft	
4	3/44	Excavation of trenches in all kinds of soil, except cutting 'rock, for water supply pipe lines upto 5 ft. (1.5 m) depth from ground level, including trimming, dressing sides, levelling the beds of trenches to correct grade and cutting pits for joints, etc. complete in all respects.	58000.00	Cft		%o Cft	
5	3/15-i	Filling, watering and ramming earth under floors:-					
		with surplus earth from foundation, etc.	58000.00	Cft		%o Cft	
6	7/23	Dry brick pitching	5500.00	Cft		% Cft	
7	24/18a-iii	Supply and erection of iron/aluminum clad, 500 volts main switches with kitkat fuses, on angle iron board with 3 mm (1/8") thick M.S. sheet covering, including bonding to earth with necessary flexible pipe and thimbles, etc. 60/65 Amp.	2.00	No		Each	
8	24/63	Supply and erection of street light pole bracket 30 mm (1¼") G.I. pipe 2 metre long, complete with 2 No. pole clamp	10.00	No		Each	
9	24/62	Supply and erection of all aluminum stranded hard drawn bare conductor, of size 7/3.099 mm (7/0.122").	2000.00	M		Per M	
10	24/57	Supply and erection of shackle insulator, medium size.	65.00	No		Each	
11	6/5-f	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):Ratio 1: 2: 4	300.00	Cft		%Cft	
						A	

B		Electrical Work (Non-Schedule)					
1	N.S	Supply & installation of Die-Cast Aluminum LED Street light 120W (220V~, 6500K) i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips, BRP372 LED 144/CW or Equivalent) with 3 year warranty.	96.00	No		Each	
2	N.S	Supply & installation of Die-Cast Aluminum LED Street light 36W (220V~, 6500K) i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips, BRP390 LED 750/CW or Equivalent) with 3 year warranty.	10.00	No		Each	
3	N.S	Providing and Laying earthing for Electric Machines l/c boring up to moisture level (up to 60' below ground level) 4" i/d including copper strip 14" x 2" x 1/4" (350 x 50 x 6 mm) connecting with 1 Nos.bare copper wire of No.8 SWG to be run in PVC pipe 20mm i/d, 1¼" i/d GI pipe 5' long, GI tee & plug for watering also includs common salt, Lime (slaked) and charcoal around copper strip l/c connecting with Electric machine. Complete in all respects as approved and as directed by the engineer incharge.	10.00	No		Each	

4	N.S	Supply, installation, connection & commissioning of Automatic Street Light Control Board, Open type Pole mounted design, made of M.S. Sheet 18 SWG with hinged door, handle, and 2 coats of Approved paint, (Size 24"x18") including Incoming Main Molded Case Circuit Breaker of 125 Amps T-p (15KA) 1.00 No, Magnetic Contactor AC3 of (1NC + 1NO) 65 Amps 1.00 Nos, Electronic Time relay 1.00 No, Kit kat Fuses 500V 200A, 3.00 No, Light activated relay 220V, 10A 1.00 No, No/Off LED phase light 2.00 Nos, Earthling bar, Neutral bar and any accessories (i.e. Earth/neutral bar, Nut/bolts, Screws/rawl plugs, Jumper connections & etc.) required at site. Complete in all respects as approved by the engineer incharge. (for MCCB & MCBs Hitachi, Schneider Electric, Legrand or equivalent).	4.00	No		Each	
5	N.S	Horizontal boring underneath roads, walking path & ramps of houses for crossing of Electric power cables, PVC pipes or Water lines. Complete in all respects as approved and as directed by the engineer incharge.	400.00	Rft		Per Rft	
6	N.S	Preparing surface and painting with Silver Enamel paint of grey shade 3 coats for tubular poles 30' height i/c scaffolding and labour complete in all respects as approved by the engineer incharge.	12.00	Job		Per Job	
7	N.S	Supply, installation, connection & commissioning of MS box 7"x 4"x 4" 16 SWG with 3/16" thick Bakelite sheet on top with 1 or 2-Amp S-p Circuit breaker and fixing arrangement on pole etc. i/c any accessories required at site. Complete in all respects as approved by the engineer incharge.	10.00	Job		Per Job	
8	N.S	Supply & Installation & commissioning of 200 KVA (11 KV/415V) 3-phase, 50 Hz step down Pole mounted / enclosed type distribution Transformer having connection group, DY-11 oil immersed natural cooled with off load tap changer +2.1/2 % - 5% and 7.5% (as per WAPDA standard) i/c any other accessories required at site. Complete in all respects as approved by the Engineer incharge. (with complete purchase and tax documents) (PEL, Transfopower or Equivalent)	1.00	Job		Per Job	
9	N.S	Supply & Laying of 3-core, 240mm², XLPE/PVC/SWA/PVC, 8.7/15Kv Aluminum conductor cable i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Fast Cable or Equivalent)	620.00	M		Per M	
10	N.S	Supply and installation of 240mm², 3-core, 11-KV Termination Kit i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge.(Raychem or Equavalent)	6.00	Job		Per Job	
11	N.S	Providing & Fixing Tubler Steet Light Poles 30' Height (Double Arm) with 5" dia G.I pipe heavy quality 10', 4" dia G.I pipe Heavy quality 10' & 2.5" dia G.i pipe Heavy quality 10' including 1.5" dia G.I pipe Light quality 2 Nos 5' Each with RCC foundation 2'x2'x5', MS plate 1" thick 1.5'x1.5' and MS plate 1/2" Thick 1.5'x1.5' including 1" dia Nut bolts 4' high 4 Nos imbeded in RCC foundaton complete in all respects as approved by the engineer incharge.	26.00	No		Each	
12	N.S	Providing & Fixing Tubler Steet Light Poles 30' Height (Single Arm) with 5" dia G.I pipe heavy quality 10', 4" dia G.I pipe Heavy quality 10' & 2.5" dia G.i pipe Heavy quality 10' including 1.5" dia G.I pipe Light quality 1 Nos 5' Each with RCC foundation 2'x2'x5', MS plate 1" thick 1.5'x1.5' and MS plate 1/2" Thick 1.5'x1.5' including 1" dia Nut bolts 4' high 4 Nos imbeded in RCC foundaton complete in all respects as approved by the engineer incharge.	25.00	No		Each	
13	N.S	Manufacturing and erection of galvanized angle iron lattice steel structure HT pole of size 34'-8" long using high tensile steel angle 1¼"x1¼"x3/16" with MS angle iron and 1"x1"x½" and flat iron 2"x½"bracing, weighing 200±3%kg i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge.	10.00	No		Each	
14	N.S	Supply & installation of Creosoted Wooden cross arm on steel structure pole with galvanized steel bracing & bolts i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge.	18.00	No		Each	
15	N.S	Supply & Installation of 11KV Pin Insulator i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge.	33.00	No		Each	
16	N.S	Supply & Installation of 11KV Disc Insulator i/c aluminum alloy Dead end clamp and any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge.	15.00	No		Each	
17	N.S	Supply & erection of ACSR Dog (118.5 mm²) Conductor (Aluminum Conductor Steel Reinforced) for overhead11 KV Lines i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge.	4000.00	Rft		Per Rft	
18	N.S	Supply & Installation of Stay wire set i/c all accessories such as 'U' clamp, Rod & concrete block etc and any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge	12.00	No		Each	
19	N.S	Manufacturing and erection of galvanized angle iron lattice steel structure LT pole of size 30'-8" long using high tensile steel angle 1¼"x1¼"x3/16" with MS angle iron and 1"x1"x½" and flat iron 2"x½"bracing, weighing 130±3%kg i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge.	2.00	No		Each	
20	N.S	Supply & installation of 11-KV Dropout Fuse assemblies Set i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge	1.00	No		Each	
21	N.S	Supply and installation of Double pole Plate Farm for 200KVA Transformer (Rs.Joist size 4"x8" with cross, welding, nut bolts i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge	1.00	No		Each	
22	N.S	Providing & laying of PVC/PVC 3-Core flexible 110/0.0076" copper conductor cable i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (KM, Eagle or Equivalent)	50.00	M		Per M	

					Total of	B	
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The Islamia University of Bahawalpur
Extension of Main Arterial Road at Baghdad-ul-Jadeed Campus

Civil work				MRS Jan to Jun, 2021		
No	MRS	Description	Quantity	Rate	Unit	Amount
1	3/5-iii iii+ 17/a	Earthowrk in ordinary soil for embankments including ploughing and mixing with blade grade or disc harrow or other suitable equipment, and compaction by mechanical means at optimum moisture content and dressing to designed section, complete 90% maximum modified AASHO dry density. i) Lead upto 100 ft. ii) Lead upto 1/4 mile	240000.00 Cft 500000.00 Cft		%o Cft %o Cft	
2	3/2	Earthwork excavation in ashes, sand and soft soil or silt clearance, undressed lead upto 50 ft (15 metre).	150000.00 Cft		%o Cft	
3	3/25	Compaction of earthwork with power road roller including ploughing, mixing, moistening earth to optimum moisture content in layers, etc. complete: 90% maximum modified AASHO dry density.	150000.00 Cft		%o Cft	
4	18/19	Providing and laying dry brick pavement/soling in streets or roads, etc. sand grouted, laid in proper camber, including preparation, watering, compaction of bed to proper camber, and sand cushion.	83500.00 Cft		% Cft	
4	18/5	Providing and laying road edging of 3" (75 mm) wide and 9" (225 mm) deep brick on end, complete in all respects.	25000.00 Rft		Per Rft	
5	18/4	Providing and laying base course of crushed stone aggregate of approved quality and grade, and supply and spreading of stone screening, including placing, mixing, spreading and compaction of base course material to required depth, camber and grade to achieve 100% maximum modified AASHO dry density, i/c carriage of all materials to site of work.	129250.00 Cft		% Cft	
6	18/10 iv	Providing & Laying plant premixed bituminous including compaction and finishing to required grade and density, 4.50% bitumen 2" thick	262500.0 Sft		% Sft	
7	18/6	Providing and laying bituminous priming coat, using 10 'lbs. kerosene oil and 10 lbs. binder per 100 Sft. or 0.5 Kg kerosene and 0.5 Kg binder per square metre.	262500.0 Sft		% Sft	
8	10/43	Providing and laying Tuff pavers, having 7000 PSI, crushing strength of approved manufacturer, over 2" to 3" sand cushion i/c grouting with sand in joints i/c finishing to require slope. Complete in all respect. (50% Grey / 50% Coloured) 60mm thick	65000.00 Sft		P/Sft	
9	6/5-f	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): Ratio 1: 2: 4	2500.00 Cft		% Cft	
10	7/5	Pacca brick work in foundation & plinth: cement, sand mortar:- Ratio 1:6	15750.00 Cft		% Cft	
11	11/9	Cement plaster 1:4 upto 20' (6.00 m) height:- i) ½" (13 mm) thick	21000.00 Sft		% Sft	
12	6/3	Cement concrete brick or stone ballast 1½ " to 2" (40mm to 50 mm) gauge, in foundation and plinth:- Ratio 1:6:12	28500.00 Cft		% Cft	
					Total	
1	N.S	Civil Work (Non-Schedule) Providing & Fixing Pre-Cast Kerb stone size 12"x14"x6" (300mmx350mmx150mm) and duly embedded on a bed of PCC 1:6:12 (4" thick), PCC 1:2:4 for hanuching, laid with cement sand mortor 1:3, 3/4" thick i/c painting of 3 coats complete in all respects as per design & as approved by the engineer incharge made (Izhar/Banu Mukhtar/ Mukhtar Sons)	27500.00 Rft		Per Rft	
					Total	

Construction of 2 Nos Pipe Culverts 40' wide

No		Description	Quantity	Rate	Unit	Amount
1	3/21	Excavation in foundation of building, bridges and other structures including deg-belling, dressing, refilling around structure with excavated earth, watering and ramming lift upto 5 ft. - in ordinary soil	1200.00 Cft		%o Cft	
2	6/3	Cement concrete brick or stone ballast 1½ " to 2" (40 mm to 50 mm) gauge, in foundation and plinth:- Ratio 1:4:8	200.00 Cft		% Cft	
3	7/4	Pacca brcik work in foundation and plinth in Cement Sand Mortar Ratio 1:6	1000.00 Cft		% Cft	
4	11/9	Cement Plaster 1:4 upto 20' height 1/2" thick	1500.0 Sft		% Sft	
5	21/3	Providing and laying R.C.C. pipe sewers, moulded with				

6	6/9-b	cement concrete 1:1½:3 conforming to ASTM Specification C-76-79, Class II. Wall B, i/c 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., 18" i/d	80.00	Rft		Per Rft	
		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 Bar 40-Grade	600.0	Kg		% Kg	
7	6/6	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 Type C (nominal mix 1: 2: 4)	400.00	Cft		Per Cft	
8	6/5-f	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): Ratio 1: 2: 4	100.00	Cft		% Cft	
						Total	
1	3/42	Sewer Line 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	150000.00	Cft		%o Cft	
		ii) 7-01 ft. to 15.0 ft. (2.15 to 4.5 m) depth	200000.00	Cft		%o Cft	
2	6/2	Dry rammed brick or stone ballast, 1½" to 2"(40 mm to 50 mm) gauge.	18000.00	Cft		% Cft	
3	6/3	Cement concrete brick or stone ballast 1½ " to 2" (40 mm to 50 mm) gauge, in foundation and plinth:- Ratio 1:4:8	1200.00	Cft		% Cft	
4	7/4	Pacca brcik work in foundation and plinth in Cement Sand Mortar Ratio 1:4	6500.00	Cft		% Cft	
5	11/9	Cement Plaster 1:4 upto 20' height 3/4" thick	8000.0	Sft		% Sft	
6	6/5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): Ratio 1: 2: 4	750.00	Cft		% Cft	
7	21/3	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) 12" i/d	1000.00	Rft		Per Rft	
		ii) 18" i/d	2000.00	Rft		Per Rft	
8	21/15A	Providing and fixing 6" thick R.C.C. manhole cover with tee shaped C.I. frame of 22" I/d (frame weighing 37.324 Kg. or one maund as per Standard Drawing STD/PD No. 6, of 1977, complete in all respect.	30.00	No		Each	
9	9/12	Two coats of bitumen laid hot using 34 lbs. per %Sft, or 1.72 Kg per square metre over roof and blinded with sand at one Cft. per %Sft. (0.003 cu.m per sq.m)	6500.0	Sft		% Sft	
10	26/37	Supplying and laying polythene sheet over D.P.C. under 'floors and on roofs, etc. 500 gauge (.005" thick)	6500.00	Sft		Per Sft	
11	3/13 -b	Rehandling of earthwork: Upto a lead of 50 ft. (15 m).	350000.00	Cft		%o Cft	
						Total	
A		Electrical Work (Schedule)					
1	24/4-ii	Supply and erection of PVC pipe for wiring on surface including clamps inspection boxes, pull boxes, bends, tees, repairing surface, etc., complete with all specials:-					
		20 mm i/d	100.00	Rft		Per Rft	
2	24/10-a	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).250/440 volts, PVC insulated:.					
		7/0.74 mm (7/0.029")	4500.00	Rft		Per Rft	
3	24/13	Supply and erection of copper conductor cables for service connection, in prelaid pipe/G.I. wire/trenches, etc. (rate for cable only):- .					
i		PVC insulated, PVC sheathed 3 core, 660/1100 volt cable:-7/0.74 mm (7/0.029")	2800.00	Rft		Per Rft	
ii		PVC insulated, PVC sheathed 4 core, 660/1100 volt non armoured cable:- 7/1.63 mm (7/0.064")	4500.00	Rft		Per Rft	

4	3/44	Excavation of trenches in all kinds of soil, except cutting 'rock, for water supply pipe lines upto 5 ft. (1.5 m) depth from ground level, including trimming, dressing sides, levelling the beds of trenches to correct grade and cutting pits for joints, etc. complete in all respects.	20000.00	Cft		%o Cft	
5	3/15-i	Filling, watering and ramming earth under floors:-					
		with surplus earth from foundation, etc.	20000.00	Cft		%o Cft	
6	7/23	Dry brick pitching	2500.00	Cft		% Cft	
7	24/8a-iii	Supply and erection of iron/aluminum clad, 500 volts main switches with kitkat fuses, on angle iron board with 3 mm (1/8") thick M.S. sheet covering, including bonding to earth with necessary flexible pipe and thimbles, etc. 60/65 Amp.	2.00	No		Each	
8	24/62	Supply and erection of all aluminum stranded hard drawn bare conductor, of size 7/3.099 mm (7/0.122").	2000.00	M		Per M	
9	24/57	Supply and erection of shackle insulator, medium size.	85.00	No		Each	
10	6/5-f	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):Ratio 1: 2: 4	100.00	Cft		%Cft	
						A	
B		Electrical Work (Non-Schedule)					
1	N.S	Supply & installation of Die-Cast Aluminum LED Street light 120W (220V~, 6500K) i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips, BRP372 LED 144/CW or Equivalent) with 3 year warranty.	72.00	No		Each	
2	N.S	Providing and Laying earthing for Electric Machines I/c boring up to moisture level (up to 60' below ground level) 4" i/d including copper strip 14" x 2" x 1/4" (350 x 50 x 6 mm) connecting with 1 Nos.bare copper wire of No.8 SWG to be run in PVC pipe 20mm i/d, 1 1/4" i/d GI pipe 5' long, GI tee & plug for watering also includes common salt, Lime (slaked) and charcoal around copper strip I/c connecting with Electric machine. Complete in all respects as approved and as directed by the engineer incharge.	4.00	No		Each	
3	N.S	Supply, installation, connection & commissioning of Automatic Street Light Control Board, Open type Pole mounted design, made of M.S. Sheet 18 SWG with hinged door, handle, and 2 coats of Approved paint, (Size 24"x18") including Incoming Main Molded Case Circuit Breaker of 125 Amps T-p (15KA) 1.00 No, Magnetic Contactor AC3 of (1NC + 1NO) 65 Amps 1.00 Nos, Electronic Time relay 1.00 No, Kit kat Fuses 500V 200A, 3.00 No, Light activated relay 220V, 10A 1.00 No, No/Off LED phase light 2.00 Nos, Earthing bar, Neutral bar and any accessories (i.e. Earth/neutral bar, Nut/bolts, Screws/rawl plugs, Jumper connections & etc.) required at site. Complete in all respects as approved by the engineer incharge. (for MCCB & MCBs Hitachi, Schneider Electric, Legrand or equivalent).	2.00	No		Each	
4	N.S	Horizontal boring underneath roads, walking path & ramps of houses for crossing of Electric power cables, PVC pipes or Water lines. Complete in all respects as approved and as directed by the engineer incharge.	200.00	Rft		Per Rft	
5	N.S	Providing & Fixing Tubler Street Light Poles 30' Height (Double Arm) with 5" dia G.I pipe heavy quality 10', 4" dia G.I pipe Heavy quality 10' & 2.5" dia G.i pipe Heavy quality 10' including 1.5" dia G.I pipe Light quality 2 Nos 5' Each with RCC foundation 2'x2'x5', MS plate 1" thick 1.5'x1.5' and MS plate 1/2" Thick 1.5'x1.5' including 1" dia Nut bolts 4' high 4 Nos imbeded in RCC foundaton complete in all respects as approved by the engineer incharge.	29.00	No		Each	
6	N.S	Supply & Installation of Stay wire set i/c all accessories such as 'U' clamp, Rod & concrete block etc and any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge	4.00	No		Each	
7	N.S	Providing & laying of PVC/PVC 3-Core flexible 110/0.0076" copper conductor cable i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (KM, Eagle or Equivalent)	50.00	M		Per M	
					Total of	B	