

**The Islamia University of Bahawalpur**  
**SUMMARY OF COST**

**Construction of Academic Block for Physics Department at**  
**Baghdad-ul-Jadeed Campus**

**ENGINEER'S COST ESTIMATE**

<b>S/N</b>	<b>DESCRIPTION</b>	<b>AMOUNT (Rs.)</b>
<b>A</b>	<b>SCHEDULED ITEMS</b>	
1	• CIVIL WORK	
2	• INTERNAL PUBLIC HEALTH WORK	
3	• EXTERNAL PUBLIC HEALTH	
4	• ELECTRICAL WORK	
5	• EXTERNAL ELECTRICAL WORK	
6	• IT DATA CABELING SYSTEM	
	<b>Sub Total (A) :</b>	
<b>B</b>	<b>NON-SCHEDULED ITEMS</b>	
1	• CIVIL WORK	
2	• ELECTRICAL WORK	
3	• EXTERNAL ELECTRICAL WORK	
4	• FIRE ALARM SYSTEM WORK	
	<b>Sub Total ( B ) :</b>	
	<b>TOTAL (A+B) :</b>	
<b>C</b>	<b>Add 3% Contingencies :</b>	
	<b>TOTAL (A+B+C) :</b>	
	<b>Add 5% PRA :</b>	
	<b>GRAND TOTAL :</b>	

Construction of Academic Block for Physics Department at Baghdad-ul-Jadeed Campus

ENGINEER'S COST ESTIMATE

CIVIL WORKS

Item No.	REF. Nos CH/ITEM	Description of Items	Unit	Qty	Rate (Rs.)	Amount (Rs.)
MRS, 1st BI-ANNUAL-2023 (1st Jan-2023 to 30th Jun -2023) DISTRICT BAHAWALPUR						
SCHEDULE ITEMS						
Earth Work						
1	CH:3 item 47(b) P-33	Jungle clearance and removing within 100 ft. (30 m).b) thick	1000 Sft	74,000.00		
2	CH:3 item 21 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.				
	a)ii	By Excavator (ii) In ordinary Soil	1000 Cft	325,800.00		
3	CH:3 item 18	Dressing and levelling of earhtwork to designed section. etc.Ordinary or hard soil	1000 Cft	99,800.00		
4	CH:3 item 15 P-29	Filling, watering and ramming earth under floors:				
	CH:3 item 15(i) P-29	i) with surplus earth from foundation, etc.	1000 Cft	217,200.00		
	CH:3 item 2+17 (a,b &c) P-27 + 29	i) with new earth excavated from outside,upto one mile. (1.6 Km.)	1000 Cft	295,000.00		
5	CH:3 item 25 (i) P-31	Compaction of earthwork with power road roller, including ploughing, mixing, moistening earth to optimum moisture) content in layers, etc. complete: i) 85% maximum modified AASHO dry density.	1000 Cft	74,000.00		
Anti-Termite						
6	CH:26 item 43 P-214	Spraying anti termite proofing by using liquid FMC Biflex 2.5%EC Mixing Ratio 1:50=137-Sft or using liquid MIRAGE Ali Akbar /RANGERS Auriga 5% SC Mixing Ability-HEXTAR Ratio 1:110=205-Sft or any other equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10-years complete in all respect .as approved by the Engineer Incharge	Per Sft	148,000.00		
Plain and Reinforcement Concrete						
7	CH:6 item 5 P-41	Cement concrete plain including placing, compacting , finishing and curing complete (including screening and washing of stone aggregate):-				
	(i)	Ratio 1: 4: 8	100 Cft	14,450.00		
	(f)	Ratio 1: 2: 4	100 Cft	24,150.00		
8	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.):-				
	(a)(iii) P-43	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						
	(2)	Type B (nominal mix 1: 1½: 3)	Per Cft	92,500.00		
	(a)(ii) P-42	Reinforced cement concrete in retaining /Shear walls laid in situ or precast laid in position, or prestressed members cast in situ (Form work on both sides) , complete in all respects:				
	b)i	Type B (nominal mix 1:1-1/2:3)				
		Upto 9" thick (Avg)	Per Cft	1,000.00		
	(a)(i) P-42	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				
	(a)(i)(2)	Type B (nominal mix 1: 1½: 3)	Per Cft	110,225.46		
		FIRST FLOOR				
	(a)(i)(2)+(d)	Type B (nominal mix 1: 1½: 3)	Per Cft	71,931.00		
		MUMTY				
	(a)(i)(2)+(dx2)	Type B (nominal mix 1: 1½: 3)	Per Cft	6,585.00		
Carriage						
9	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 to site of work)	% Cft	205,070.00		

Item No.	REF. Nos CH/ITEM	Description of Items	Unit	Qty	Rate (Rs.)	Amount (Rs.)
<b>Steel Reinforcement</b>						
10	CH:6 item 12 (c) P-45	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)	100Kg	1,092,585.00		
11	CH:6 item 36 (b)(i) P-48	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)	100 Sft	200.00		
12	CH:6 item 28 P-47	Providing and fixing 1/8" (3 mm) thick 3" (75 mm) wide aluminium strip on horizontal and vertical expansion joints in walls, columns, ceilings and floors etc., including cost of clips/screws etc., complete in all respects:-				
	a)	On interior surface (without mastic strip)	Per/Rft	500.00		
	b)	On exterior surface (with mastic strip)	Per/Rft	500.00		
13	CH:6 item 35 (b) P-47	Providing and fixing thermopore (foamed polythene) sheet in horizontal and vertical expansion joints:				
		b) 1½" (40 mm) thick thermopore sheet	Per/Sft	2,500.00		
14	CH:6 item 15 P-45	Providing and fixing ornamental cement jali 2" (50 mm) thick(1: 2: 4), without steel.	Per Sft	3,150.00		
<b>Brick Work</b>						
15	CH:7 item 4 (i) P-52	Pacca brick work in foundation and plinth in:- Cement, sand mortar:-Ratio 1:6	100 Cft	10,162.00		
		<b>GROUND FLOOR</b>				
16	CH:7 item 5 (i) P-53	Pacca brick work in ground floor :- Cement, sand mortar:-Ratio 1:6	100 Cft	65,574.00		
17	CH:7 item 5 (i) P-53	Pacca brick work in ground floor :- Cement, sand mortar:-Ratio 1:4	100 Cft	2,049.86		
		<b>FIRST FLOOR</b>				
18	Ch-7 item 5 (i) & 6 (i) P-53	Pacca brick work in first floor:- Cement, sand mortar:-Ratio 1:6	100 Cft	64,988.00		
19	CH:7 item 5 (I) & 6 (i) P-53	Pacca brick work in first floor :- Cement, sand mortar:-Ratio 1:4	100 Cft	2,049.86		
		<b>MUMTY</b>				
20	Ch-7 item 5 (i) & 6 (ii) P-53	Pacca brick work in second floor:- Cement, sand mortar:-Ratio 1:6	100 Cft	2,416.05		
21	Ch-7 item 9 P-54	Extra labour for arch work in brick masonry, including labour for centring and decentring.	100 Cft	250.00		
<b>Flooring</b>						
22	Ch-7 item 30 P-57	Supplying and filling sand under floor; or plugging in wells	100 Cft	24,500.00		
23	Ch-06 item 02	Dry rammed brick or stone ballast, 1½" to 2"( 40 mm to 50 mm) gauge.	100 Cft	42,235.08		
24	Ch-10 item 40 (a) P-72	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)	Per Rft	1,873.37		
25	Ch-10 item 41 (b) P-72	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) b) 60-mm thick	P.Sft	12,500.00		
26	Ch-10 item 42 (a-1) P-73	Providing and laying superb quality <b>Porcelain glazed tiles flooring</b> of MASTER brand of specified size in approved design,Color and Shade with adhesive/bond over 3/4"thick (1:3) cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respect as approved and directed by the Engineer Incharge. <b>Full body Glazed tiles</b>				
		(ii) 600mmx 600 mm	P.Sft	123,500.00		
27	Ch-10 item 43 (a-1) P-73	Providing and laying superb quality <b>Porcelain glazed tiles</b> of Master brand, <b>skirting/dado</b> of specified size, Color and Shade with adhesive/ bond over 1/2"thick (1:2) cement plaster i/c the cost of and sealer for finishing the joints, cutting grinding complete in all respect as approved and directed by the Engineer Incharge. <b>Full body Glazed tiles</b>				
		(ii) 600mmx 600 mm	P.Sft	32,889.35		
28	Ch-10 item 18 P-69	Extra labour for each storey above ground, for mosaic,conglomerate, <b>tiles</b> , stone and wooden floor.	100 Sft	60,500.00		
29	Ch-10 item 47 (i) P-74	Providing and laying 3/4" thick full width Prepolished <b>Marble slab for Vanities / Shelves / Treads/Window Cills</b> , having Uniform texture (Spotless) with adhesive bond over 3/4" thick (1:2) cement sand mortor i/c the cost of matching sealer complete in all respects as approved and directed by the Engineer Incharge.				
		China Verona	P.Sft	3,040.00		
30	Ch-10 item 48 P-74	Extra for Bevelling charges of marble edge in approved design complete in all respects i/c the cost of Carborandam disc as approved and directed by the Engineer Incharge.	P.Rft	1,500.00		

Item No.	REF. Nos CH/ITEM	Description of Items	Unit	Qty	Rate (Rs.)	Amount (Rs.)
31	Ch-10 item 49 P-74	Extra cost for making hole in Marble slab for fixtures, Sink,burners, basin Vanities i/c cost of bevelling of internal edge as approved and directed by the Engineer Incharge.	Each	85.00		
32	Ch-10 item 50 (i) P-74	Providing and laying Prepolished Granite of specified thickness and shade of full width of approved quality laid with adhesive bond over 3/4" thick (1:2) cement sand mortor bed , complete in all respect as approved and directed by the Engineer Incharge (for podium, Stair steps, Risers) (i) 3/4" thick	P.Sft	3,876.00		
33	Ch-10 item 24 (i) P-70	Providing and laying superb quality Ceramic tile floors of Master brand of specified size,Glossy/Matt/Texture of approved Color and Shade as per approved design with adhesive bond, over 3/4" thick (1:2) cement sand plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects and as approved and directed by the Engineer Incharge.	P.Sft	2,800.00		
		12"x18"/12"x24"/10"x24" /8"x24"/12"x36"	P.Sft	2,800.00		
34	Ch-10 item 25 (i) P-70	Providing and laying superb quality Ceramic tiles dado of Master brand of specified size,Glossy/Matt/Texture skirting/dado of approved Color and Shade with adhesive bond over 1/2"thick (1:2) cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects as approved and directed by the Engineer Incharge.	P.Sft	6,500.00		
		12"x18"/12"x24"/10"x24" /8"x24"/12"x36"	P.Sft	6,500.00		
<b>Surface Rendering</b>						
35	Ch-11 item 10 (b) P-76	Cement plaster ratio 1:3 under soffit of RCC roof slabs only , upto 20' height. 3/8" (10 mm) thick. (ceiling plaster )	100 Sft	79,178.73		
36	Ch-11 item 9 (b) P-76	Cement plaster 1:4 on internal walls upto 20' (6 m) height, 1/2" (13 mm ) thick.	100 Sft	220,555.00		
37	Ch-11 item 9 (c) P-76	Cement plaster 1:4 on external walls upto 20' (6 m) height, 3/4" (20 mm ) thick.	100 Sft	129,000.00		
38	Ch-11 item 9 (c) & 28 P-76+78	Cement plaster 1:4 on external walls upto 30' (9 m) height, 3/4" (20 mm ) thick.	100 Sft	12,565.00		
39	Ch-11 item 9 (c) & (28x2) P-76-78	Cement plaster 1:4 on external walls upto 40' (12 m) height, 3/4" (20 mm ) thick.	100 Sft	4,300.00		
<b>Wood Work &amp; Door Chowkat</b>						
40	Ch-12 item 61 (b-i) P-90	P/F 3/4" dia <b>Heavy Duty Sliding Bolt</b> of specified material i/c the cost of hardware complete in all respect as approved and directed by the Engineer Incharge.	Each	416.00		
		iii) brass sliding bolt. 10" (250 mm) long				
41	Ch-12 item 7(b)	Providing and fixing 1st class solid wood wrought joinery in panelled or panelled and glazed doors and windows of specified thickness with 1" thick solid wood panels with step and 1-1/2"x2-1/2" beadings all around the panels i/c the cost of Tower bolt and handles complete in all respect (Excluding the cost of sliding bolt,lock and chowkats (frame), etc.) as approved and directed by the Engineer Incharge.	Per Sft	8,850.00		
		h) Oak/Ash wood Door 1.50" Thick				
42	Ch-12 item 17- ii, iii P-84	Providing and fixing 2" wide <b>MS Chowkat</b> . <b>Singel/Double rebate</b> made of 16 SWG MS sheet pressed/welded / supported with M.S. flat 1-1/4"x1/8" i/c 6"long M.S. Flat 1"x1/8"hold fasts (6-Nos) welded/ screwed, punching of lock hole covered with MS Box,coating with antirust paint including filling with cement sand mortar (1:8) and embedding hold fast in cement concrete (1:2:4) ,complete in all respect as approved and directed by Engineer Incharge.				
		i) 10.50 " wide	Per Sft	2,975.00		
		ii) 5.5 " wide	Per Sft	975.00		
<b>Painting and Warnishing</b>						
43	Ch-13 item 31 (a)+(bx2) P-96	Preparing surface and painting with <b>Emulsion Paint:- 3 Coats New Surface</b>	100 Sft	330,000.00		
44	Ch-7 item 38 P-79	Providing and laying <b>Fair Face Gutka</b> cladding laid in (1:2) cement / red posso mortar having 1/4" thick groove finish i/c cost of 8 SWG wire in shape of 8 placed horizontally and vertically at 36" and 18" c/c respectively i/c cutting charges as per approved drawing , complete in all respect as approved and directed by the Engineer Incharge.	P. Sft	47,500.00		
		ii. 2-1/4" x 3" x 9"				

Item No.	REF. Nos CH/ITEM	Description of Items	Unit	Qty	Rate (Rs.)	Amount (Rs.)
45	Ch-13 item 46 P-98	Providing and applying <b>Wall Putty</b> of 2mm thickness over plastered surface (new surface) to prepare the surface even and smooth complete in all respects. (On Interior Walls/Members Only)	%Sft	267,000.00		
46	Ch-11 item 23 P-77	Distempering:-a) new surface:- <b>3 Coats (For Ceiling)</b>	%Sft	85,000.00		
47	Ch-13 item 33 P-98	Providing and applying <b>Weather Shield Paint</b> of approved quality on external surface of building including preparation of surface, application of primer complete in all respect: New Surface <b>2 Coats</b>	% Sft	35,622.00		
48	Ch-13 item 44-i P-98	Preparing surface and <b>Lacquer Polish</b> to reveal wooden grains by application of multiple coats of wood sealer, sand papering with different no of sandpapers and Lacquer to make glossy surface finish i/c the cost of cotton, thinner, wood sealer complete in all respects as approved and directed by the Engineer Incharge.				
		Matt Finish	Per Sft	15,550.00		
<b>Roofing &amp; Water Proofing</b>						
49	Ch-9 item 45 (c) P-66	Providing and Laying Insulation material of Extruded Polystyrene XPS in Rigid Insulation / <b>Foam Board</b> 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 closed cell) i/c cutting and placing in position. complete in all respect. c) 1.50" thick	100 Sft	73,650.00		
50	Ch-9 item 5 P-61 + Ch-26 item 37(iix2) P-214	<b>Single layer of Tiles 9"x4½"x1½"</b> (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	100 Sft	73,650.00		
51	Ch-9 item 15 P-63	<b>Khuras on Roof</b> 2'x2'x6" (600 x 600 x 150 mm).	Each	50.00		
52	Ch-9 item 16 P-63	<b>Bottom Khuras</b> of brick masonry in cement mortar 1:6, 4'x2'x4½" (1200x600x113 mm) over 3" (75 mm) cement concrete 1:4:8.	Each	50.00		
<b>Miscellaneous</b>						
53	Ch-25 item 59 (i) P-209	Providing and fixing <b>M.S. Grill</b> fabricated with MS Square polished Vertical/horizontal Bars of specified size @ 4" c/c ' passed through punched holes in MS Patti of 1-1/4"x1/8" i/c the cost of 1-1/4"x1/8" MS patti for Frame of windows and painting 3 coat complete in all respect as approved and directed by the Engineer Incharge.				
		(i) 3/8" Squar Bars	Per Sft	8,650.00		
54	Ch-25 item 56 P-209	Providing and fixing 2 mm thick <b>Double Glazed Aluminium Windows</b> of anodize / powder coated partly fixed and party sliding using deluxe section of 100mm x 40mm x2 mm using frame (70501) at bottom, (70502) at Top & Side made of Pakistan Cables/Alcop having Leaf Frame size 31mm x 60mm x2 mm (70506) at Top & Bottom, 35mm x 60mm x2 mm (70505) at center and 35mm x 60mm x2 mm (70503) at sides, fixing 5 mm thick imported tinted double glass and air tight using double tape, chemical strips, Silicon using approved latches, wheels for channel, stopper, brush channel angle joint and hardware etc.( excluding the cost of Fly Proofing). Complete in all respect as approved and directed by the Engineer	Per Sft	9,550.00		
55	Ch-25 item 53 P-208	Providing and fixing <b>Aluminum Fly Screen</b> comprising of Fiber / Aluminum wire guaze (Malasian) fixed in aluminum frame of approved manufacturer brownze Colour / powder coated of size 1- 1/2"x1/2" and thick with rubber gasket i/c cost of Hardwares as approved and directed by the engineer incharge. complete in all respect.	Per Sft	4,775.00		
56	Ch-25 item 64 P-210	Providing and fixing 2'-9" high <b>Stair Railing</b> comprising of non magnetic (304) Stain less steel 2" dia pipe railing of 18 SWG welded with vertical posts of 2" dia stainless steel round/ Squar pipe @ 2-ft c/c fixed on alternate steps with 3" long steel screws and brass rawal plugs, 3-Nos diagonal stainless steel pipes of 1/2" dia passes through godies fixed on vertical post, i/c staines steel welding, fixing & polishing complete in all respects as approved and directed by the Engineer Incharge.	Per Rft	400.00		
57	Ch-9 item 48 (iii) P-66	Providing and fixing <b>False Ceiling</b> comprises of <b>Gypsum board</b> laminated sheet of size 2'x2'/2'x3'/ 3'x3' of specified design and thickness i/c cost of fixtures i.e galvanized angle 1" x 1" at wall sides, galvanized tee 1¼" x 1" and 1½" x 1" both at 4' c/c (made of Taiwan CKM or equivalent), hanging with G.I/Copper wire 16 SWG, G.I hook, Rawal Plug etc: complete in all respects as approved and directed by the Engineer Incharge. (For Labs)				
		9 mm thick	Per Sft	50,786.00		-

Item No.	REF. Nos CH/ITEM	Description of Items	Unit	Qty	Rate (Rs.)	Amount (Rs.)
58	Ch-12 item 7-a-1 P-81	Providing and fixing 1st class solid wood wrought joinery in panelled or panelled and glazed doors and windows of specified thickness with 1" thick solid wood panels with step and 1-1/2"x2-1/2" beadings all around the panels i/c the cost of Tower bolt and handles complete in all respect (Excluding the cost of sliding bolt,lock and chowkats (frame), etc.) as approved and directed by the Engineer Incharge <b>Deodar wood Door: 2" thick (50 mm) (For Main Door)</b>	Per Sft	240.00		
		<b>Total "A"(Schedule items) C/o to Summary of Cost:</b>				
<b>NON SCHEDULE ITEMS</b>						
		<b>Flooring</b>				
		<b>Excavation Upto any Depth</b>				
1	N.S	<b>Structural Excavation</b> in any kind of soil above / below water level for levelling and grading of building, for raft / foundations and other structures upto any depth ( <b>Below 5' Feet</b> ), 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.	Per/Cft	113,871.25		
2	N.S	Providing and fixing UPVC Doors 38mm thickness i/c deluex matching color UPVC Frame (matt or glossy finish) having color (whiteGray-Marble Gray-Oak Wood- Dard Oak Wood, Coffee Wood Honey Pine Wood-Mahagony-Marry Gold-Chocolate Brown-Honey Dew) i/c all accessories complete in all respect as approval by the Engineer Incharge.	Per/Sft	965.00		
3	N.S	Providing and fixing <b>Handle lock</b> (Hiluke/DAF/Khas or equivalent), complete in all respect as per specification and as approved by the Engineering Incharge	Each	350.00		
4	N.S	Providing & Fixing Cabinet 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 sprit polish for gola complete in all respects as per design, drawing & pattern as approved by the 'engineer Incharge <b>(Cabinet Down portion)</b>	Per/Sft	500.00		
5	N.S	Providing & Fixing <b>Cabinet Upper Portion</b> 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 & pattern as approved by the Engineer Incharge.	Per/Sft	300.00		
6	N.S	Providing & Fixing <b>Looking Glass</b> 5-mm thick best quality,complete in all respect as per specifications and drawings and as approved by the Engineer Incharge	Per/Sft	320.00		
7	N.S	Providing and fixing <b>Steel Floor trap Jali</b> complete in all respect as per specification and as approved by the Engineering Incharge.	Each	80.00		
		<b>Total "B"(Schedule Items) C/o to Summary of Cost:</b>				
		<b>Net Total (A+B)</b>				

**Construction of Academic Block for Physics Department at Baghdad-ul-Jadeed Campus**

**ENGINEER'S ESTIMATE  
INTERNAL PUBLIC HEALTH WORK**

Item No.	REF. Nos CH/ITEM	Description of Items	Unit	Qty	Rate (Rs.)	Amount (Rs.)
<b>MRS, 1st BI-ANNUAL-2023 (1st Jan-2023 to 30th Jun -2023) DISTRICT BAHAWALPUR</b>						
		<u><b>Schedule Items (A)</b></u>				
<b>Plumbing Fixtures</b>						
1	Ch 19 item 23/P-127	Providing and fixing BATHROOM ACCESSORIES (7-piece set) MASTER BRAND - One Cosmetic Shelf, One Towel rod with bracket, One soap dish, One double hook, One towel ring, brush holder, toilet paper holder & looking glass i/c the cost of hardwares etc complete in all respect as approved and directed by the Engineer incharge.				
		i) Plastic soap dish	Each	84		
		ii) Plastic toilet paper holder	Each	84		
		iii) Plastic tower rail	Each	42		
		iii) Plastic shelf 60x13 cm (24:x5") with bracket and railing	Each	20		
		iv) Looking glass with plastic frame	Each	20		
2	Ch 19 item 1/P-125	Providing and fitting glazed earthen ware water closet European type, excluding seat and cover:-				
		coloured	Each	20		
3	Ch 19 item 2/P-125	Providing and fixing, double seat and cover only. Bakelite	Each	20		
4	Ch 19 item 4/P-125	Providing and fitting glazed earthen ware water closet, squatter type (Orisa pattern), combined with				
	ii)	coloured	Each	32		
5	Ch 19 item 7/P-125	Providing and fitting glazed earthen ware wash hand basin 56x40 cm (22"x16") including bracket set, waste pipe and waste coupling, etc.				
		i) white, with pedestal	Each	20		
		ii) Under Counter Vanity Basin	Each	64		
6	Ch 19 item 8/P-126	Providing and fixing stainless steel sink with drain board, size 120x60 cm (48"x24") including bracket set, waste pipe and waste coupling.	Each	8		
7	Ch 19 item 52/P-132	Providing and fixing CP bath Room Set made of Sonex/Master/Faisal comprising of 3-No Tee stop cocks, lever type Basin Mixer, double Bib Cock, open wall shower, Muslim shower,waste coupling and bottle trap etc. complete in all respect as approved and directed by the Engineer incharge.				
		(i) 3 No Tee Stop Cock	Each	46		
		(ii) Lever Type Basin Mixer	Each	84		
		(iii) Double Bib Cock	Each	16		
		(iv) Muslim shower	Each	92		
8	Ch 23 item 47-b P-159	Providing, laying, testing and commissioning of POLYPROPYLENE RANDOM COPOLYMER (PPRC) water supply pipe made of (Dadex /Popular/ Beta / BBJ) with specified pressure rating PN (PRESSURE NOMINAL)and conforming to DIN 8077-8078 code i/c cost of solvent, specials,making jharries complete in all respect as approved and directed by Engineer Incharge. (Internal/External Diameters mentioned)				
		<b>PN-20 pipe</b>				
		(i) (3/4") 25 mm	Per Rft	715		
		(ii) (1") 32 mm	Per Rft	2000		
		(iii) (1-1/4") 40 mm	Per Rft	1000		
		(iv) (1.5") 50 mm	Per Rft	1000		

Item No.	REF. Nos CH/ITEM	Description of Items	Unit	Qty	Rate (Rs.)	Amount (Rs.)
9	Ch 23 item 46/P-158	Providing and fixing CP heavy duty brass Ball valve with CP handle of specified diameter made of Faisal/Sonex / Master best quality or equivalent complete in all respect as approved and directed by the Engineer Incharge.				
		i) 1" dia	Each	16		
		ii) 1-1/4" dia	Each	12		
		ii) 1-1/2" dia	Each	5		
		iii) 2" dia	Each	3		
10	Ch 19 item 47/P-130	Providing, fixing, testing and commissioning of µ-PVC (Unplasticized polyvinyl Chloride ) Nikasi/ waste pipe make of dadex /Popular/Beta/BBJ plain /socket ended conforming to code EN-1401 of specified SDR (Standard Dimension Ratio) including the cost of specials and Solvents complete in all respect as approved and directed by the Engineer Incharge.				
	a)	<b>Type (SDR 41/SN-4)</b>				
		i) 3" (90 mm)	Per Rft	500		
		ii) 4"(110 mm)	Per Rft	1500		
		iii) 6" (160 mm)	Per Rft	200		
11	Ch 19 item 50 P-131	Providing, laying, testing and commissioning underground Yellow Polyethelene flexible gas pipe Tubing of required IPS(Iron Pipe Size) in the trenches , made of (Dadex/ Popular / Beta/ BBJ ) for Gas supply i/c the cost of solvent and specials complete as approved and directed by the Engineer Incharge.				
		<b>SDR-11</b>				
		(i) 1-1/4"	Per Rft	620		
		(ii) 1"	Per Rft	1288		
		<b>Sewerage System</b>				
12	Ch 19 item 49 P-131	Providing, fixing, testing and commissioning of µ-PVC (Unplasticized polyvinyl Chloride ) Nikasi/ waste pipe Fittings make of dadex /Popular/Beta/BBJ conforming to code EN-1401 including the cost of Solvents complete in all respect as approved and directed by the Engineer Incharge.				
		(a) P-Trap				
		(i) 4" dia	Each	175		
		(c) Vent Cowel				
		(i) 3" dia	Each	20		
12	Ch 19 item 13-ii P-126	Providing and fitting plastic made low down flushing cistern 13.63 litre (3 gallons) capacity, including bracket set, copper connection, etc. complete.ii) coloured	Each	32		
<b>Total "A"(Schedule items) C/o to Summary of Cost:</b>						



Construction of Academic Block for Physics Department at Baghdad-ul-Jadeed Campus						
ENGINEER'S ESTIMATE						
EXTERNAL PUBLIC HEALTH WORK						
Item No.	REF. Nos CH/ITEM	Description of Items	Unit	Qty	Rate (Rs.)	Amount (Rs.)
MRS, 1st BI-ANNUAL-2023 (1st Jan-2023 to 30th Jun -2023) DISTRICT BAHAWALPUR						
Schedule Items (A)						
		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.	1000 Cft	8500		
		Sewerage System (For Pipe Line)				
2	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	1000 Cft	10250		
3	Ch 7 item 30/P-57	Supplying and filling sand under floor; or plugging in wells	100 Cft	5500		
4	Ch 23 item 47/P-159	Providing, laying, testing and commissioning of POLYPROPYLENE RANDOM COPOLYMER (PPRC) water supply pipe made of (Dadex /Popular/ Beta / BBJ) with specified pressure rating PN (PRESSURE NOMINAL)and conforming to DIN 8077-8078 code i/c cost of solvent, specials,making jharries complete in all respect as approved and directed by Engineer Incharge. (Internal/External Diameters mentioned).				
	b)	PN-20 pipe				
		(2") 63 mm	Per Rft	1000		
5	Ch 23 item 46/P-159	Providing and fixing CP heavy duty brass Ball valve with CP handle of specified diameter made of Faisal/Sonex / Master best quality or equivalent complete in all respect as approved and directed by the Engineer Incharge.				
		ii) 2-1/2" dia	Each	1		
6	Ch 21 item 3/P-136	Providing and laying R.C.C. pipe sewers, moulded with cement concrete 1:1½:3 conforming to ASTM Specification C-76-20, Class II. Wall B, including carriage of pipe from factory to site of work, lowering in trenches to correct alignment and grade, jointing with rubber ring,cutting pipes where necessary, testing, etc., complete				
		i) 310 mm (12") i/d	Per Rft	900		
Total "A"(Schedule items) C/o to Summary of Cost:						

Item No.	REF. Nos CH/ITEM	Description of Items	Unit	Qty	Rate (Rs.)	Amount (Rs.)
<b>MRS, 1st BI-ANNUAL-2023 (1st Jan-2023 to 30th Jun -2023) DISTRICT BAHAWALPUR</b>						
1	24/3	<b>Electrical Work</b> 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)	Per M Per M Per M Per M	13704.00 M 6669.00 M 1800.00 M 2000.00 M		
2	24/6 ii	Supply and erection of PVC pipe for recessed wiring main and submain) purpose, i/c bends, specials etc in floor, walls or trenches: 3" i/d (80 mm)	Per M	2500.00 M		
3	24/10-a	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")	Per M Per M Per M Per M Per M Per M Per M	41112.00 M 10864.00 M 16816.00 M 480.00 M 400.00 M 4500.00 M 4000.00 M		
4	24/13	Supply and erection of copper conductor cables for service connection, in prelaidd pipe/G.I. wire/trenches, etc. (rate for cable only):-PVC insulated, PVC sheathed 4 core, 600/1000 volt non armoured cable: i) 7/1.63 mm (7/0.064") ii) 19/1.32 mm (19/0.052")	Per M Per M	500.00 M 500.00 M		
5	24/30	Supply and erection of ceiling rose, bakelite.	Each	2320.00 No		
6	24/103	P/F PVC double layer Switch kit Faceplate with specified switch holes i/c the cost of switches / sockets / dimmer made of Hi-Life / Bush / Schenider, screws complete as approved and directed by the Engineer Incharge <b>a) One way Gange Switch</b> <b>Small</b> i) 02 Gange ii) 03 Gange iii) Three pin Light Plug 10/13 Amp iv) Fan Dimmer v) Three Pin Power Plug 15-32 Amp <b>Large</b> i) 04 Gange ii) 05 Gange iii) 06 Gange	Each Each Each Each Each Each Each Each Each Each Each	20.00 No 20.00 No 700.00 No 200.00 No 320.00 No  142.00 No 50.00 No 220.00 No		
7	24/102	Providing and fixing Copper winded Exhaust fan with louver and shutter made of Pak/Younas/G.F.C. i/c the cost of necessary cable and hardware for connection from ceiling rose complete as approved and directed by Engineer Incharge. <b>a) Plastic body</b> i) 12" dia	Each	100.00 No		
8	24/86	Suppling, Installation and comissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY /SIEMEN GERMAN/TERASAKI JAPAN/ ABB SWITZERLAND in prelaidd DBs and Panels i/c the cost of screws, necessary w wire complete in all respect as approved and directed by the Engineer Incharge <b>a) Single Pole</b> 6-40 Amp (6 KA)	Each	1100.00 No		

Item No.	REF. Nos CH/ITEM	Description of Items	Unit	Qty		Rate (Rs.)	Amount (Rs.)
9	24/87	Supplying ,Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip ) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge a) Tripple Pole i) 15-100 Amp(18 KA) ii) 125-250 Amp(18 KA) iii) 300-630 Amp(36 KA)	Each Each Each	60.00 60.00 4.00	No No No		
10	24/88 a-x	Supplying,Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/ABB SWITZERL(with adjustable Thermal-Magnetic Trip ) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge <b>Tripple Pole With Adjustable Thermal-Magnetic Trip /Electronic Trip (60-100%)</b> 630-1600 Amp(50 KA)	Each	2.00	No		
11	24/94	Providing and fixing DB/Panel accessories of required rating and size i/c copper screws of approved brand Complete in all respect as approved and directed by the Engineer Incharge i) Selector Switch ii) Current Transformer Coil (Make: Metelx/Fico) iii) Digital Voltmeter (0-600 Volt) iv) Digital Ammeter (0-9999 Amp) v) LED Phase Indicator vi) Exhaust Fan with Louvers (Make: Imported/Plastim)	Each Each Each Each Each Each	8.00 6.00 4.00 4.00 12.00 4.00	No No No No No No		
12	24/90	P/F wall mounted DB (Distribution Board) made with 16SWG Sheet (Recessded/Surface mounted Type), Powder coated Paint, i/c the cost of Lock, Indication lights,Thimble, Copper Comb, Wiring, Netural & Earth Bar, Door Earthing, Digital Voltmeter, Digital Ammeter,Volt Selector Switch,Ammeter selector switch,Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately) i) 6" Deep 75~100A ii) 12" Deep 125~150A	Per Cft Per Cft	80.00 25.00	Cft Cft		
13	24/91 i-b	P/F floor mounted Electric Panel board of required depth and size, fabricarted with 14SWG M.S sheet (Indoor/Outdoor Type),derusting, zinc Phosphated, finish with electro static powder coating in approved colour i/c the cost of Lock, Indication lights, thimbles, Copper Comb, Wiring, Netural & Earth Bar, glands,Current Transformers of specified capacity ,Door Earthing, Brass glands,bus bars,controles complete in all respects as approved and directed by the Engineer Incharge (Breakers will be Paid Separately). <b>LT Switchboards</b> <b>3.00 Ft deep</b> 1600~2000A	Per Cft	386.00	Cft		
14	24/104	P/F PVC concealed Switch kit Box i/c the cost of screws complete as approved and directed by the Engineer Incharge i) Small ii) Large	Each Each	1420.00 675.00	No No		
1	N.S	<b>Electrical Work (Non-Schedule)</b> Supply & installation of LED 24W Down Light (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)	Each	985.00	No		

Item No.	REF. Nos CH/ITEM	Description of Items	Unit	Qty		Rate (Rs.)	Amount (Rs.)
2	N.S	Supply & installation of LED 600 x 600mm 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 RC048B or Equivalent)	Each	1000.00	No		
3	N.S	Supply & installation of LED search light 100W (220V~, CW or WW) with fitting arrangement for installation on walls, parapet, pole or etc. i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips BVP 151 or Equivalent)	Each	30.00	No		
4	N.S	Providing & Fixing of LED Wall Light 15 Watt 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. (WL008C OVAL Philips)	Each	80.00	No		
5	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)	Each	70.00	No		
6	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)	Each	250.00	No		
7	N.S	Supply & installation of Ceiling Fans, 56" sweep copper winding i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Royl Fan/Deluxe, Indus/Supreme, Pak Fan/Deluxe or equivalent)	Each	250.00	No		
8	N.S	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)	Each	150.00	No		
9	N.S	Supply & installation of Wall Bracket Fan 24" (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)	Each	14.00	No		
10	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 includs 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.	Each	8.00	No		
		<b>FIRE ALARM SYSTEM</b>					
		<b>FIRE ALARM CABLE</b>					
1	N.S	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), B Belden as approved by consultants, Complete in all respect	Per Rft	150.00	Rft		

Item No.	REF. Nos CH/ITEM	Description of Items	Unit	Qty		Rate (Rs.)	Amount (Rs.)
2	N.S	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	Per Rft	7580.00	Rft		
3	N.S	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.	Each	20.00	No		
4	N.S	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.	Each	20.00	No		
5	N.S	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.	Each	350.00	No		
6	N.S	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.	Each	8.00	No		
7	N.S	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	Each	1.00	No		
8	N.S	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.	Each	1.00	No		
1	3/1-b	<b>External Electrical Work</b> Earthwork excavation underessed lead upto a single throw of Kassi, phaorah or shovel:- In ordinary soil.	%o Cft	9752.00	Cft		
2	24/12	Supply and erection of single core PVC insulated, PVC sheathed copper conductor, 600/1000 volts grade cable, in prelaid G.I. pipe/M.S. conduits/PVC pipe/G.I. wire/trenches etc (rate for cable only):- 240 mm sq (37/0.114)	Per M	800.00	M		

Item No.	REF. Nos CH/ITEM	Description of Items	Unit	Qty	Rate (Rs.)	Amount (Rs.)
3	24/158	Supply, installation, testing, commissioning and termination of 8.7/15kV,AL/XLPE/SWA/PVC three Core (MV cables) along with cable glands, in already installed cable trench/cable ladder/cable tray/duct bank. (Armoured) 70mm sq 95 mm sq	Per M Per M	400.00 M 250.00 M		
4	24/105	Supply, insatllation, commissioning and testing of oil cooled type, Step down Power Transformer of specified rating,11/0.415 kV, i/c the cost of lifting hooks, thermometers, LT & HT bushing 5-steps, tap changer, imported double float buchholz relay, 2 earthing terminals, roller wheels, connecting terminals for cables M.S box on transformer in order to cover complete L.T side, all necessary materials required for connections on H.T & L.T side, rated voltage 11000/415/240 V impedance 6.25% or as specified by WAPDA/IEC system earth: Delta / Star, neutral solidly earthed, i/c Wapda testing charges,complete in all respects made of PEL, Siemens, as approved and directed by the Engineer Incharge <b>400 KVA</b>	Each	2.00 No		
1	N.S	<b>External Electrical (Non-Schedule)</b> 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	Each	2.00 No		
2	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.	Each	6.00 No		
3	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.	Each	4.00 No		
4	N.S	Supply and installation of 70mm² -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.	Each	6.00 No		

No	Reff.	Description	Unit	Quantity	Rate	Amount
MRS, 1st BI-ANNUAL-2023 (1st Jan-2023 to 30th Jun -2023) DISTRICT BAHAWALPUR						
1	24/3	<b>IT DATA CABELING SYSTEM</b> 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)	Per M Per M Per M Per M	3000.00 M 3000.00 M 1000.00 M 1000.00 M		
2	24/104	P/F PVC concealed Switch kit Box i/c the cost of screws complete as approved and directed by the Engineer Incharge i) Small ii) Large	Each Each	400.00 No 400.00 No		
3	24/106	Supply, Installation and commissioning of wiring with 4-pair data Cable, 23 AWG UL/EN listed cable * Conforming to following standards: TIA/EIA 568 / ISO/IEC 11801, in prelaidd conduit / cable tray from including all accessories, Manufacturer/OEM Authorization, Make: Schneider / i-connect UK/3M Corning USA/ D-Link/ Pollo Australian or equivalent <b>complete in all respect as approved and directed by Engineer Incharge.</b> <b>a) UTP (Unshielded Twisted pair)</b> (i) CAT-6 (Min.1G @ 250MHz or higher) (ii) CAT-6A (Min.1G/ 10G @ 500MHz or higher)	Per M Per M	4000.00 M 4000.00 M		
4	24/131	Supply, Installation and commissioning of Simple type, Dual Shutter Face Plates having fully populated I/O: Option 1:RJ-11 with RJ45/8P8C I/Os supporting either Cat6 or Cat6a cables as required by project Option 2: Two RJ45/8P8C I/Os supporting either Cat6 or Cat6a cables as required by project. (i) Single I/O (ii) Double I/O	Each Each	400.00 No 400.00 No		

**The Islamia University of Bahawalpur**  
**Construction of Academic Block for Mechanical Engineering Department at**  
**Baghdad-ul-Jadeed Campus**

**Estimate Based on MRS 1st Bi-Annual, 2023**

**ABSTRACT OF COST**

<b>A)</b>	<b><u>Schedule Items</u></b>	
i)	<b>Civil Work</b>	<u>Rs.</u>
ii)	<b>Electrical Work</b>	<u>Rs.</u>
iii)	<b>Plumbing Work</b>	<u>Rs.</u>
iv)	<b>IT Data Cabeling System</b>	<u>Rs.</u>
	<b>Total OF "A"</b>	<u>Rs.</u>
<b>B)</b>	<b><u>Non-Schedule Items</u></b>	
i)	<b>Civil Work</b>	<u>Rs.</u>
ii)	<b>Electrical Work</b>	<u>Rs.</u>
	<b>Total OF "B"</b>	<u>Rs.</u>
<b>C)</b>	<b><u>External Work</u></b>	
i)	<b>External Plumbing Work</b>	<u>Rs.</u>
ii)	<b>External Civil Work</b>	<u>Rs.</u>
iii)	<b>External Electrical Work</b>	<u>Rs.</u>
vi)	<b>External Electrical Work (N.S)</b>	<u>Rs.</u>
	<b>Total C</b>	<u>Rs.</u>
	<b>Total (A+B+C)</b>	<u>Rs.</u>
<b>D)</b>	Add 03% Contingencies	<u>Rs.</u>
	<b>Total (A+B+C+D)</b>	<u>Rs.</u>
	Add 05% PST	<u>Rs.</u>
	<b>Grand Total</b>	<u>Rs.</u>



# The Islamia University of Bahawalpur

## Construction of Academic Block for Mechanical Engineering Department at Baghdad-ul-Jadeed Campus

### Civil Work

MRS Jan-Jun, 2023

No	Reff	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). By Excavator (ii) In ordinary Soil	250000.00	Cft	8249.75		
2	3/18	Dressing and levelling of earhtwork to designed section, etc. Ordinary or hard soil	22000.00	Cft	701.90		
3	26/43	Spraying anti termite proofing by using liquid FMC Biflex 2.5%EC Mixing Ratio 1:50=137-Sft or using liquid MIRAGE Ali Akbar /RANGERS Auriga 5% SC Mixing Ability-HEXTAR Ratio 1:110=205-Sft or any other equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10-years complete in all respect .as approved by the Engineer Incharge	30000.00	Sft	9.90		
4	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	6000.00	Cft	25752.00		
5	6/12	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)	214029.00	Kg	32014.40		
6	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:- using harrow sand					
		i) Type B (nominal mix 1: 1½: 3)	13250.00	Cft	505.15		
7	6/6 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:using harrow sand					
		i) Type B (nominal mix 1: 1½: 3)	30205.00	Cft	615.30		
		ii) Type B (nominal mix 1: 1½: 3) (First Floor)	24250.00	Cft	657.30		
8	3/15 i)	Filling, watering & ramming earth under floors:- with surplus earth from foundation, etc.	26494.15	Cft	5620.55		
	ii) 3/17a	with new earth excavated from outside,lead upto 1 mile	145000.00	Cft	17330.80		
9	7/5	Pacca brick work in ground floor:- cement, sand mortar:-					
		i) Ratio 1:5	24500.00	Cft	32495.90		
		ii) Ratio 1:3 (For 4.5" Th.Walls only)	950.00	Cft	34835.90		
		iii) First Floor Ratio 1:5	21550.00	Cft	33998.05		
		iv) First Floor Ratio 1:3 (For 4.5" Th.Walls only)	950.00	Cft	36338.05		
		v) Second Floor Ratio 1:5 cement sand mortor	1000.00	Cft	35883.00		
10	7/4	Pacca brick work in foundation and plinth in:- cement sand mortor Ratio 1:6	2950.00	Cft	29348.05		
11	6/36+bi	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)	300.00	Sft	9418.95		
12	11/10-b	Cement plaster 3/8" (10 mm) thick under soffit of R.C.C. roof slabs only,					
		i) upto 20' height. 1:3	59850.00	Sft	4027.55		

No	Reff	Description	Quantity		Rate	Unit	Amount
13	11/9.	Cement plaster 1:4 upto 20' (6.00 mm) height:- i) ½" (13 mm) thick ii) Above 20' -30' height iii) ¾" (20 mm) thick upto 20' height iv) Above 20' -30' height v) Above 30' - 40' height	80720.00	Sft	3513.95		
			25887.00	Sft	3977.55		
			60268.00	Sft	4714.20		
			20433.00	Sft	5177.80		
			2500.00	Sft	5641.40		
14	7/30	Supplying and filling sand under floor; or plugging in wells.	12405.00	Cft	2866.40		
15	6/2	Dry rammed brick or stone ballast, 1½" to 2"( 40 mm to 50 mm) gauge.	18039.00	Cft	9807.60		
16	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. (add 6% on composite rate) first floor	29500.00	Sft	12463.43		
17	9/45	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 closed cutting and placeing in Position complete in all respect 1.5" Thick	29500.00	Sft	9529.50		
18	26/37	Supplying and laying polythene sheet over D.P.C. under 'floors and on roofs, etc. 500 gauge (.005" thick)	29500.00	Sft	8.85		
19	6/16	Providing and fixing ornamental cement jali 2" (50 mm) thick (1: 2: 4), without steel.	1950.00	Sft	111.00		
20	10/40	Providing and fixing marble strip of any shade for dividing the mosaic flooring into panels. 1.5x3/8	6763.00	Rft	23.75		
21	10/15	Providing and laying topping of cement concrete 1:2:4,including surface finishing and dividing in panels:- 2"(50 mm) thick	5585.00	Sft	9143.35		
22	25/56	Providing and fixing 2 mm thick Double Glazed Aluminium Windows of anodize / powder coated partly fixed and party sliding using deluxe section of 100mm x 40mm x2 mm using frame (70501) at bottom, (70502) at Top & Side made of Pakistan Cables/Alcop having Leaf Frame size 31mm x 60mm x2 mm (70506) at Top & Bottom, 35mm x 60mm x2 mm (70505) at center and 35mm x 60mm x2 mm(70503) at sides , fixing 5 mm thick imported tinted double glass and air tight using double tape, chemical strips, Silicon using approved latches, wheels for channel, stopper, brush channel angle joint and hardware etc.(cost of Fly Proofing). Complete in all respect as approved and directed by the Engineer Incharge.	4550.00	Sft	2731.20		
23	25/53	Providing and fixing Aluminum Fly screen comprising of Fiber / Aluminum wire guaze (Malasian) fixed in aluminum frame of approved manufacturer brownze Colour / powder coated of size 1- 1/2"x1/2" and 1.6mm thick with rubber gasket i/c cost of Hardwares as approved and directed by the engineer incharge. complete in all respect.	2275.00	Sft	502.45		
24	6/35	Providing and fixing theremopore (foamed polythene) sheet in horizontal and vertical expansion joints: 1½" thick thermopore sheet	3752.14	Sft	27.30		
25	11/23	Distempering:-a) new surface:- 3 Coats (For Ceiling)	60000.00	Sft	1462.30		
26	13/46	Providing and applying Wall Putty of 2mm thickness over plastered surface (new surface) to prepare the surface even and smooth complete in all respects.(On Interior Walls/Members Only)	153653.00	Sft	419.00		

No	Reff	Description	Quantity		Rate	Unit	Amount
27	13/31	Preparing surface and painting with emulsion paint:- 3 coats	153653.00	Sft	3307.85		
28	6/5	Cement concrete plain including placing, compacting finishing and curing complete (including screening and washing of stone aggregate): i) Ratio 1:2:4	9200.00	Cft	36082.20		
29	12/61	P/F 3/4" dia heavy duty sliding bolt of specified material i/c the cost of hardware complete in all respect as approved and directed by the Engineer Incharge. brass sliding bolt, 10" (250 mm) long	80.00	No	715.65		
30	6/27	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	290.00	Rft	259.05		
31	12/7 b-ii	Providing and fixing 1st class solid wood wrought joinery in panelled or panelled and glazed doors and windows of specified thickness with 1" thick solid wood panels with step and 1-1/2"x2-1/2" beadings all around the panels i/c the cost of Tower bolt and handles complete in all respect (Excluding the cost of sliding bolt,lock and chowkats (frame), etc.) as approved and directed by the Engineer Incharge.b) Oak/Ash wood Door (iii) 1-1/2" thick (40 mm)	4250.00	Sft	2199.30		
32	1/1	Carriage of 100 Cft. (2.83 cu.m) of all materials like stone aggregate, spawl, kankar lime (unslaked), surkhi, etc. or 150 Cft. (4.25 cu.m) of timber, by truck or by any other means owned by the contractor. (Lead 366 kms From Sargodaha (or approved quarry) to site of work)	54000.00	Cft	11395.65		
33	12/7a	Providing and fixing 1st class solid wood wrought joinery in panelled or panelled and glazed doors and windows of specified thickness with 1" thick solid wood panels with step and 1-1/2"x2-1/2" beadings all around the panels i/c the cost of Tower bolt and handles complete in all respect (Excluding the cost of sliding bolt,lock and chowkats (frame), etc.) as approved and directed by the Engineer Incharge- <b>Deodar Wood 2" thick (50 mm)</b> (for Main Door)	120.00	Sft	2523.15		
34	25/36	Providing and fixing collapsible gate made of 2"x2"x1/4" tee iron at top and bottom, channel iron 'verticals 3/4"x1/4"x1/4"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 3/4"x1/4"x1/4"x1/8" channel iron, locking arrangement inside and outside, painting 3 coats of black Japan enameled, complete in working order.	75.00	Sft	1705.35		
35	10/42	Providing and laying superb quality <b>Porcelain glazed tiles flooring</b> of MASTER brand of specified size in approved design,Color and Shade with adhesive/bond over 3/4"thick (1:3) cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respect as approved and directed by the Engineer Incharge. <b>Full body Glazed tiles</b> (ii) 600mmx 600 mm	50850.00	Sft	362.10		
36	10/43	Providing and laying superb quality <b>Porcelain glazed tiles</b> of Master brand, <b>skirting/dado</b> of specified size, Color and Shade with adhesive/ bond over 1/2"thick (1:2) cement plaster i/c the cost of and sealer for finishing the joints, cutting grinding complete in all respect as approved and directed by the Engineer Incharge. (ii) 600mmx 600 mm	8500.00	Sft	362.10		
37	10/47	Providing and laying 3/4" thick full width Prepolished <b>Marble slab for Vanities</b> / Shelves / Treads/ <b>Window Cills</b> , having Uniform texture (Spotless) with adhesive bond over 3/4" thick (1:2) cement sand mortor i/c the cost of matching sealer complete in all respects as approved and directed by the Engineer Incharge. China Verona	3500.00	Sft	498.60		

No	Reff	Description	Quantity		Rate	Unit	Amount
38	10/48	Extra for Bevelling charges of marble edge in approved design complete in all respects i/c the cost of Carborandam disc as approved and directed by the Engineer Incharge.	1700.00	Rft	28.90		
39	10/49	Extra cost for making hole in Marble slab for fixtures, Sink, burners, basin Vanities i/c cost of bevelling of internal edge as approved and directed by the Engineer Incharge.	50.00	No	774.60		
40	10/50	Providing and laying Prepolished Granite of specified thickness and shade of full width of approved quality laid with adhesive bond over 3/4" thick (1:2) cement sand mortor bed , complete in all respect as approved and directed by the Engineer Incharge <b>(for podium, Stair steps, Risers)</b> (i) 3/4" thick	3500.00	Sft	1510.55		
41	10/24	Providing and laying superb quality Ceramic tile floors of Master brand of specified size,Glossy/Matt/Texture of approved Color and Shade as per approved design with adhesive bond, over 3/4" thick (1:2) cement sand plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects and as approved and directed by the Engineer Incharge.  12"x18"/12"x24"/10"x24" /8"x24"/12"x36"	1958.00	Sft	257.10		
42	10/25	Providing and laying superb quality Ceramic tiles dado of Master brand of specified size,Glossy/Matt/Texture skirting/dado of approved Color and Shade with adhesive bond over 1/2"thick (1:2) cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects as approved and directed by the Engineer Incharge. 12"x18"/12"x24"/10"x24" /8"x24"/12"x36"	6600.00	Sft	311.70		
43	10/18	Extra labour for each storey above ground, for mosaic,conglomerate, tiles, stone and wooden floor.	30,500.00	Sft	839.50		
44	25/59	Providing and fixing M.S. grill fabricated with MS Square polished Vertical/horizontal Bars of specified size @ 4" c/c ' passed through punched holes in MS Patti of 1-1/4"x1/8" i/c the cost of 1-1/4"x1/8" MS patti for Frame of windows and painting 3 coat complete in all respect as approved and directed by the Engineer Incharge.  (i) 3/8" Squar Bars	4550.00	Sft	913.75		
45	13/33	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	23900.00	Sft	5811.55		
46	7/38	Providing and laying Fair Face Gutka cladding laid in (1:2) cement / red posso mortar having 1/4" thick groove finish i/c cost of 8 SWG wire in shape of 8 placed horizontally and vertically at 36" and 18" c/c respectively i/c cutting charges as per approved drawing , complete in all respect as approved and directed by the Engineer Incharge. <b>ii. 2-1/4" x 3" x 9"</b>	32500.00	Sft	184.40		
47	25/64	Providing and fixing 2'-9" high stair railing comprising of non magnetic (304) Stain less steel 2" dia pipe railing of 18 SWG welded with vertical posts of 2" dia stainless steel round/ Squar pipe @ 2-ft c/c fixed on alternate steps with 3" long steel screws and brass rawal plugs , 3-Nos diagonal stainless steel pipes of 1/2" dia passes through goties fixed on vertical post, i/c stainles steel welding, fixing & polishing complete in all respects as approved and directed by the Engineer Incharge.	300.00	Sft	2649.15		
48	9/48	Providing and fixing false ceiling comprises of Gypsum board laminated sheet of size 2'x2'/2'x3'/ 3'x3'of specified design and thickness i/c cost of fixtures i.e galvanized angle 1" x 1" at wall sides, galvanized tee 1 1/4" x 1"and 1 1/2" x 1" both at 4' c/c ( made of Taiwan CKM or equivalent), hanging with G.I/Copper wire 16 SWG, G.I hook, Rawal Plug etc: complete in all respects as approved and directed by the Engineer Incharge. 9 mm thick	14500.00	Sft	105.45		

No	Reff	Description	Quantity		Rate	Unit	Amount
49	12/17	Providing and fixing 2" wide MS Chowkat singel/double rebate made of 16 SWG MS sheet pressed/welded / supported with M.S. flat 1-1/4"x1/8" i/c 6"long M.S. Flat 1"x1/8"hold fasts (6-Nos) welded/ screwed, punching of lock hole covered with MS Box,coating with antirust paint including filling with cement sand mortar (1:8) and embedding hold fast in cement concrete (1:2:4) ,complete in all respect as approved and directed by Engineer Incharge. i) 15 " wide ii) 10.50 " wide iii) 5.5 " wide	128.00 4250.00 420.00	Sft Sft Sft	774.70 664.45 463.50		
50	12/67	Providing and fixing autotomatic hydraulic operated door closer imported heavy duty complete in all respect as approved and directed by the Engineer Incharge.	60.00	No	3451.30		
51	25/62	P/F Iron door comprising of specified leaves made of 1-1/4" x1-1/4" x3/16" MS angle iron for leaf frame, diagonal and horizontal braces duly welded with MS. sheet 18-SWG i/c the cost of sliding bolt, tower bolt and painting 3-coats but excluding the cost of Chowkat complete in all respect as approved and directed by the Engineer incharge. Double Leaf	120.00	Sft	1432.80		
52	18/23	Providing and fixing M.S Grating comprising of Angle Iron frame size 1.50" x 1.50" x 3/16" and 1/2" square bars duly welded @ 4" c/c, including painting charges etc complete in all respect.	60.00	Sft	1731.95		
53	13/44.	Preparing surface and Lacquar polish to reveal wooden grains by application of multiple coats of wood sealer , sand papering with different no of sandpapers and Lacquar to make glossy surface finish i/c the cost of cotton, thinner, wood sealer complete in all respects as approved and directed by the Engineer Incharge. Matt Finish	7150.00	Sft	197.60		
1	N.S	<b>Civil Work (Non-Schedule)</b> P/F Handle Lock (Hiluke/DAF/Khas or equivalent) complete in all respect as approved by Engineer Incharge.	60.00	No	5043.21		
2	N.S	Providing and fixing UPVC Doors 38mm thickness i/c deluex matching color UPVC Frame (matt or glossy finish) having color (whiteGray-Marble Gray-Oak Wood- Dard Oak Wood, Coffee Wood Honey Pine Wood-Mahagony-Marry Gold-Chocolate Brown-Honey Dew) i/c all accessories complete in all respect as approval by the Engineer Incharge.	765.00	Sft	948.00		
3	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.	160.21	Sft	377.46		
4	N.S	Providing and fixing Steel Floor Jali complete in all respect as per specification and as approved by the Engineering Incharge.	60.00	No	565.56		
5	N.S	Providing & Fixing Cabinet 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 sprit polish for gola complete in all respects as per design, drawing & pattern as approved by the engineer incharge. <b>(Down portion)</b>	1200.00	Sft	770.00		
6	N.S	'Providing & Fixing Cabinet 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 & pattern as approved by the Engineer Incharge. (Upper Portion)	225.00	Sft	1011.00		
						<b>Total</b>	

No	Reff.	Description	Quantity		Rate	Unit	Amount
1	24/3	<b>IT DATA CABELING SYSTEM</b> 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)	1500.00	M		Per M	
			1500.00	M		Per M	
			500.00	M		Per M	
			500.00	M		Per M	
2	24/104	P/F PVC concealed Switch kit Box i/c the cost of screws complete as approved and directed by the Engineer Incharge i) Small ii) Large	300.00	No		Each	
			400.00	No		Each	
3	24/106	Supply, Installation and commissioning of wiring with 4-pair data Cable, 23 AWG UL/EN listed cable * Conforming to following standards: TIA/EIA 568 / ISO/IEC 11801, in prelaidd conduit / cable tray from including all accessories, Manufacturer/OEM Authorization, Make: Schneider / i-connect UK/3M Corning USA/ D-Link/ Pollo Australian or equivalent <b>complete in all respect as approved and directed by Engineer Incharge.</b> <b>a) UTP (Unshielded Twisted pair)</b> (i) CAT-6 (Min.1G @ 250MHz or higher) (ii) CAT-6A (Min.1G/ 10G @ 500MHz or higher)	2000.00	M		Per M	
			2000.00	M		Per M	
4	24/131	Supply, Installation and commissioning of Simple type, Dual Shutter Face Plates having fully populated I/O: Option 1:RJ-11 with RJ45/8P8C I/Os supporting either Cat6 or Cat6a cables as required by project Option 2: Two RJ45/8P8C I/Os supporting either Cat6 or Cat6a cables as required by project. (i) Single I/O (ii) Double I/O	300.00	No		Each	
			400.00	No		Each	
						<b>Total</b>	

The Islamia University of Bahawalpur

Construction of Academic Block for Mechanical Engineering Department at Baghdad-ul-Jadeed Campus

Civil Work				MRS Jan to Jun, 2023		
No	Reff	Description	Quantity	Rate	Unit	Amount
1	24/3	<b>Electrical Work</b> 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)	4350.00 M 5000.00 M 650.00 M 950.00 M		Per M Per M Per M Per M	
2	24/6 ii	Supply and erection of PVC pipe for recessed wiring main and submain) purpose, i/c bends, specials etc in floor, walls or trenches: 3" i/d (80 mm)	850.00 M		Per M	
3	24/10	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")	18500.00 M 8250.00 M 5500.00 M 8250.00 M 1200.00 M 4000.00 M 4500.00 M		Per M Per M Per M Per M Per M Per M Per M	
4	24/13	Supply and erection of copper conductor cables for service connection, in prelaidd pipe/G.I. wire/trenches, etc. (rate for cable only):- PVC insulated, PVC sheathed 4 core, 660/1100 volt non armoured cable:- i) 7/1.63 mm (7/0.064") ii) 19/1.32 mm (19/0.052")	450.00 M 450.00 M		Per M Per M	
5	24/30	Supply and erection of ceiling rose, bakelite.	1500.00 No		Each	
6	24/103	P/F PVC double layer Switch kit Faceplate with specified switch holes i/c the cost of switches / sockets / dimmer made of Hi-Life / Bush / Schenider, screws complete as approved and directed by the Engineer Incharge <b>a) One way Gange Switch</b> <b>Small</b> i) 02 Gange ii) 03 Gange iii) Three pin Light Plug 10/13 Amp iv) Fan Dimmer v) Three Pin Power Plug 15-32 Amp <b>Large</b> i) 04 Gange ii) 05 Gange iii) 06 Gange	10.00 No 10.00 No 400.00 No 120.00 No 180.00 No  85.00 No 50.00 No 140.00 No		Each Each Each Each Each  Each Each Each	
7	24/102	Providing and fixing Copper winded Exhaust fan with louver and shutter made of Pak/Younas/G.F.C. i/c the cost of necessary cable and hardware for connection from ceiling rose complete as approved and directed by Engineer Incharge. <b>a) Plastic body</b> i) 12" dia	50.00 No		Each	
8	24/95	Suplying, Installation, testing and commissioning of 415-Volt ,4 Pole (TP+N) compact Copper Busway (Bus Tie Duct B.T.D) of specified size/rating comprising of 10 mm thick sandwich copper Bus bars, insulated with non- flammable/ flame resistant resin applied at 130 OC by Automatic Electro- static application with Mayler Class-B, housed in Aluminium Housing i/c the cost of hangers, accessories, enclosures IP55, IEC 61439-1, complete in all respect, spaced to a minimum reducing reactance as approved & directed by the Engineer Incharge (i) 400 Amp (ii) 630 Amp (iii) 1250 Amp (iv) 1600 Amp	3.00 Rft 3.00 Rft 3.00 Rft 4.00 Rft		Per Rft Per Rft Per Rft Per Rft	

No	Reff	Description	Quantity		Rate	Unit	Amount
9	24/86	Suppling,Installation and comissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY /SIEMEN GERMAN/TERASAKI JAPAN/ ABB SWITZERLAND in prelaid DBs and Panels i/c the cost of screws,necessary w wire complete in all respect as approved and directed by the Engineer Incharge Single Pole 6-40 Amp (6 KA)	550.00	No		Each	
10	24/87	Supplying ,Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip ) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge Tripple Pole i) 15-100 Amp(18 KA) ii) 125-250 Amp(18 KA) iii) 300-630 Amp(36 KA)	30.00 30.00 2.00	No No No		Each Each Each	
11	24/88 a-x	Supplying,Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/ABB SWITZERL(with adjustable Thermal-Magnetic Trip ) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge <b>Tripple Pole With Adjustable Thermal-Magnetic Trip /Electronic Trip (60-100%)</b> 630-1600 Amp(50 KA)	1.00	No		Each	
12	24/94	Providing and fixing DB/Panel accessories of required rating and size i/c copper screws of approved brand Complete in all respect as approved and directed by the Engineer Incharge i) Selector Switch ii) Current Transformer Coil (Make: Metelx/Fico) iii) Digital Voltmeter (0-600 Volt) iv) Digital Ammeter (0-9999 Amp) v) LED Phase Indicator vi) Exhaust Fan with Louvers (Make: Imported/Plastim)	4.00 3.00 2.00 2.00 6.00 2.00	No No No No No No		Each Each Each Each Each Each	
13	24/90	P/F wall mounted DB (Distribution Board) made with 16SWG Sheet (Recessded/Surface mounted Type), Powder coated Paint, i/c the cost of Lock, Indication lights,Thimble, Copper Comb, Wiring, Netural & Earth Bar, Door Earthing, Digital Voltmeter, Digital Ammeter,Volt Selector Switch,Ammeter selector switch,Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately) i) 6" Deep 75~100A ii) 12" Deep 125~150A	40.00 10.00	Cft Cft		Per Cft Per Cft	
14	24/91 i-b	P/F floor mounted Electric Panel board of required depth and size, fabricarted with 14SWG M.S sheet (Indoor/Outdoor Type),derusting, zinc Phosphated, finish with electro static powder coating in approved colour i/c the cost of Lock, Indication lights, thimbles, Copper Comb, Wiring, Netural & Earth Bar, glands,Current Transformers of specified capacity ,Door Earthing, Brass glands,bus bars,controles complete in all respects as approved and directed by the Engineer Incharge (Breakers will be Paid Separately). <b>LT Switchboards</b> <b>3.00 Ft deep</b> 1600~2000A	180.00	Cft		Per Cft	
15	24/104	P/F PVC concealed Switch kit Box i/c the cost of screws complete as approved and directed by the Engineer Incharge i) Small ii) Large	720.00 275.00	No No		Each Each	
<b>Total</b>							



No	Reff	Description	Quantity		Rate	Unit	Amount
1	N.S	<b>Electrical Work (Non-Schedule)</b> Supply & installation of LED 24W Down Light (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)	375.00	No		Each	
2	N.S	Supply & installation of LED 600 x 600mm 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 RC048B or Equivalent)	500.00	No		Each	
3	N.S	Supply & installation of LED search light 100W (220V~, CW or WW) with fitting arrangement for installation on walls, parapet, pole or etc. i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips BVP 151 or Equivalent)	25.00	No		Each	
4	N.S	Providing & Fixing of LED Wall Light 15 Watt 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. (WL008C OVAL Philips)	70.00	No		Each	
5	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)	80.00	No		Each	
6	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)	150.00	No		Each	
7	N.S	Supply & installation of Ceiling Fans, 56" sweep copper winding i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Royl Fan/Deluxe, Indus/Supreme, Pak Fan/Deluxe or equivalent)	150.00	No		Each	
8	N.S	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)	80.00	No		Each	
9	N.S	Supply & installation of Wall Bracket Fan 24" (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)	12.00	No		Each	
10	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) & charcoal around copper strip I/c connecting with Electric machine. Complete in all respects as approved and as directed by the engineer incharge.	8.00	No		Each	
						<b>Total</b>	

# The Islamia University of Bahawalpur

## Construction of Academic Block for Mechanical Engineering Department at Baghdad-ul-Jadeed Campus

Civil Work				MRS Jan - Jun, 2023		
No	Reff	Description	Quantity	Rate	Unit	Amount
1	19/23	<b>Plumbing Work</b> Providing and fixing BATHROOM ACCESSORIES (7-piece set) MASTER BRAND - One Cosmetic Shelf, One Towel rod with bracket, One soap dish, One double hook, One towel ring, brush holder, toilet paper holder & looking glass i/c the cost of hardwares etc complete in all respect as approved and directed by the Engineer incharge. i) Plastic soap dish ii) Plastic toilet paper holder iii) Plastic tower rail iii) Plastic shelf 60x13 cm (24"x5") with bracket and railing iv) Looking glass with plastic frame	68.00 30.00 10.00 15.00 14.00	No No No No No	Each Each Each Each Each	
2	19/1	Providing and fitting glazed earthen ware water closet European type, excluding seat and cover:- coloured	17.00	No	Each	
3	19/2	Providing and fixing, double seat and cover only. Bakelite	17.00	No	Each	
4	19/4	Providing and fitting glazed earthen ware water closet, squatter type (Orisa pattern), combined with foot rest. coloured	36.00	No	Each	
5	19/7	Providing and fitting glazed earthen ware wash hand basin 56x40 cm (22"x16") including bracket set, waste pipe and waste coupling, etc. i) white, with pedestal ii) Under Counter Vanity Basin	6.00 42.00	No No	Each Each	
6	19/8	Providing and fixing stainless steel sink with drain board, size 120x60 cm (48"x24") including bracket set, waste pipe and waste coupling.	15.00	No	Each	
7	19/52	Providing and fixing CP bath Room Set made of Sonex/Master/Faisal comprising of 3-No Tee stop cocks, lever type Basin Mixer, double Bib Cock, open wall shower, Muslim shower,waste coupling and bottle trap etc. complete in all respect as approved and directed by the Engineer incharge.  (i) 3 No Tee Stop Cock (ii) Lever Type Basin Mixer (iii) Double Bib Cock (iv) Muslim shower	40.00 42.00 17.00 17.00	No No No No	Each Each Each Each	
8	23/47-b	Providing, laying, testing and commissioning of POLYPROPYLENE RANDOM COPOLYMER (PPRC) water supply pipe made of (Dadex /Popular/ Beta / BBJ) with specified pressure rating PN (PRESSURE NOMINAL)and conforming to DIN 8077-8078 code i/c cost of solvent, specials,making jharries complete in all respect as approved and directed by Engineer Incharge. (Internal/External Diameters mentioned). <b>PN-20 pipe</b> (i) (3/4") 25 mm (ii) (1") 32 mm (iii) (1-1/4") 40 mm (iv) (1-1/2") 50 mm (v) (2") 63 mm	3800.00 3500.00 1000.00 500.00 500.00	Rft Rft Rft Rft Rft	Per Rft Per Rft Per Rft Per Rft Per Rft	
9	23/46	Providing and fixing CP heavy duty brass Ball valve with CP handle of specified diameter made of Faisal/Sonex / Master best quality or equivalent complete in all respect as approved and directed by the Engineer Incharge. i) 1" dia ii) 1-1/4" dia iii) 1.50" dia iv) 2" dia	18.00 15.00 12.00 8.00	No No No No	Each Each Each Each	
10	19/47 -a	Providing, fixing, testing and commissioning of µ-PVC (Unplasticized polyvinyl Chloride ) Nikasi/ waste pipe make of dadex /Popular/Beta/BBJ plain /socket ended conforming to code EN-1401 of specified SDR (Standard Dimension Ratio) including the cost of specials and Solvents complete in all respect as approved and directed by the Engineer Incharge.				
		<b>Type (SDR 41/SN-4)</b> i) 3"(85 mm) ii) 4"(110 mm) iii) 6" (160 mm)	500.00 3075.00 2000.00	Rft Rft Rft	Per Rft Per Rft Per Rft	

No	Reff	Description	Quantity		Rate	Unit	Amount
11	19/50	Providing, laying, testing and commissioning underground Yellow Polyethelene flexible gas pipe Tubing of required IPS(Iron Pipe Size) in the trenches , made of (Dadex/ Popular / Beta/ BBJ ) for Gas supply i/c the cost of solvent and specials complete as approved and directed by the Engineer Incharge.  <b>SDR-11</b> (ii) 1" (ii) 2" (ii) 1.50"	900.00	Rft		Per Rft	
			500.00	Rft		Per Rft	
			500.00	Rft		Per Rft	
12	19/49.	Providing, fixing, testing and commissioning of µ-PVC (Unplasticized polyvinyl Chloride ) Nikasi/ waste pipe Fittings make of dadex /Popular/Beta/BBJ conforming to code EN-1401 including the cost of Solvents complete in all respect as approved and directed by the Engineer Incharge. (a) P-Trap (i) 4" dia (b) Vent Cowel (i) 3" dia	150.00	No		Each	
			10.00	No		Each	
13	19/13	Providing and fitting plastic made low down flushing cistern 13.63 litre (3 gallons) capacity, including bracket set, copper connection, etc. complete.	36.00	No		Each	
14	19/27	Providing and fixing chromium plated bib cock:- 1.5 cm (½")	50.00	No.		Each	
15	19/42	Providing and fitting chromium plated or oxidised, gas cock 6mm (1/4") Two way	25.00	No.		Each	
						<b>Total</b>	
1	3/42	<b>External Plumbing Work</b> 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	20325.00	Cft		%o Cft	
2	21/3	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. ii) 12 " i/d	700.00	Rft		Per Rft	
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	600.00	Cft		% Cft	
4	7/4	Pacca brick work in foundation & plinth:- cement, sand mortar:- Ratio 1:4	2000.00	Cft		% Cft	
5	11/8.	Cement plaster 1:3 upto 20' (6.00 mm) height:- i) ¾" thick ii) ½" thick	1000.00	Sft		% Sft	
			1250.00	Sft		% Sft	
6	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	8500.00	Cft		%o Cft	
7	21/16	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.	35.00	No.		Each	
8	24/42	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: i) upto 6" i/d (150 mm) ii) upto 8" i/d (200 mm)	2.00	Con		P.Con	
			1.00	Con		P.Con	
9	23/43	Providing, laying, cutting, jointing, testing and disinfecting High Density Polyethylene Pipe (HDPE-100) working presure pipe in trenches. complete in all respects PN-20(SDR-9) 3" (90mm)	500.00	Rft		Per Rft	
						<b>Total</b>	

No	Reff	Description	Quantity	Rate	Unit	Amount
1	7/30	<b>External Civil Work</b> Supplying and filling sand under floor; or plugging in wells.	2750.00    Cft		% Cft	
2	6/3	Cement concrete brick or stone ballast 1½ " to 2" (40 mm to 50 mm) gauge, in foundation and plinth:- Ratio 1:6:12	5500.00    Cft		% Cft	
3	10/41	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	20500.00    Sft		Per Sft	
4	6/52	Providing and fixing precast Edge Kerb Stone (4"to 6" thick), of 3500 PSI Compressive Strength, embeded in PCC 1:2:4 over lean concrete 1:4:8 etc complete in all respect. A) With Painting (i) 14" high	2400.00    Rft		Rft	
					<b>Total</b>	

The Islamia University of Bahawalpur

Construction of Academic Block for Mechanical Engineering Department at Baghdad-ul-Jadeed Campus

Civil Work				MRS Jan to Jun, 2023		
No	Reff	Description	Quantity	Rate	Unit	Amount
1	3/1-b	<b>External Electrical Work</b> Earthwork excavation underdressed lead upto a single throw of Kassi, phaorah or shovel:- In ordinary soil.	6500.00 Cft		%o Cft	
2	24/12	Supply and erection of single core PVC insulated, PVC sheathed copper conductor, 600/1000 volts grade cable, in prelaid G.I. pipe/M.S. conduits/PVC pipe/G.I. wire/trenches etc (rate for cable only):- 240 mm sq (37/0.114)	350.00 M		Per M	
3	24/158	Supply, installation, testing, commissioning and termination of 8.7/15kV,AL/XLPE/SWA/PVC three Core (MV cables) along with cable glands, in already installed cable trench/cable ladder/cable tray/duct bank. (Armoured) 70mm sq 95 mm sq	250.00 M 350.00 M		Per M Per M	
4	24/105	Supply, insatllation, commissioning and testing of oil cooled type, Step down Power Transformer of specified rating,11/0.415 kV, i/c the cost of lifting hooks, thermometers, LT & HT bushing 5-steps, tap changer, imported double float buchholz relay, 2 earthing terminals, roller wheels, connecting terminals for cables M.S box on transformer in order to cover complete L.T side, all necessary materials required for connections on H.T & L.T side, rated voltage 11000/415/240 V impedance 6.25% or as specified by WAPDA/IEC system earth: Delta / Star, neutral solidly earthed, i/c Wapda testing charges,complete in all respects made of PEL, Siemens, as approved and directed by the Engineer Incharge <b>400 KVA</b>	1.00 No		Each	
					<b>Total</b>	
		<b>External Electrical (Non-Schedule)</b>				
1	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	2.00 No		Each	
2	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.	6.00 No		Each	
3	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.	4.00 No		Each	
4	N.S	Supply and installation of 70mm² -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.	6.00 No		Each	
					<b>Total</b>	

# The Islamia University of Bahawalpur

Construction of Academic Block for South Punjab Institute of Agro-Industry & Environment at Baghdad-ul-Jadeed Campus

Estimate Based on MRS 1st Bi-Annual, 2023

## ABSTRACT OF COST

<b>A)</b>	<b><u>Schedule Items</u></b>	
i)	<b>Civil Work</b>	<u>Rs.</u>
ii)	<b>Electrical Work</b>	<u>Rs.</u>
iii)	<b>Plumbing Work</b>	<u>Rs.</u>
iv)	<b>IT Data Cabeling System</b>	<u>Rs.</u>
	<b>Total A</b>	<u>Rs.</u>
<b>B)</b>	<b><u>Non-Schedule Items</u></b>	
i)	<b>Civil Work</b>	<u>Rs.</u>
ii)	<b>Electrical Work</b>	<u>Rs.</u>
	<b>Total B</b>	<u>Rs.</u>
<b>C)</b>	<b><u>External Work</u></b>	
i)	<b>External Civil Work</b>	<u>Rs.</u>
ii)	<b>External Plumbing Work</b>	<u>Rs.</u>
iii)	<b>External Electrical Work</b>	<u>Rs.</u>
vi)	<b>External Electrical Work (N.S)</b>	<u>Rs.</u>
	<b>Total C</b>	<u>Rs.</u>
	<b>Total (A+B+C)</b>	<u>Rs.</u>
<b>D)</b>	<b>Add 03% Contingencies</b>	<u>Rs.</u>
	<b>Total (A+B+C+D)</b>	<u>Rs.</u>
	<b>Add 05% PST</b>	<u>Rs.</u>
	<b>Grand Total</b>	<u>Rs.</u>

**The Islamia University of Bahawalpur**  
**Construction of Academic Block for South Punjab Institute of Agro-Industry & Environment at**  
**Baghdad-ul-Jadeed Campus**

**Civil Work**

**MRS Jan - Jun, 2023**

No	Reff	Description	Quantity	Rate	Unit	Amount
1	3/21	Excavation in foundation of building, bridges & 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) in By Excavator (ii)ordinary soil	50750.00	Cft	%o Cft	
2	3/18	Dressing and levelling of earhtwork to designed section, etc. Ordinary or hard soil	15000.00	Cft	%o Cft	
3	26/43	Spraying anti termite proofing by using liquid FMC Biflex 2.5%EC Mixing Ratio 1:50=137-Sft or using liquid MIRAGE Ali Akbar /RANGERS Auriga 5% SC Mixing Ability-HEXTAR Ratio 1:110=205-Sft or any other equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10-years complete in all respect .as approved by the Engineer Incharge	25950.00	Sft	Per Sft	
4	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	3750.00	Cft	% Cft	
5	6/11	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)	112200.00	Kg	% Kg	
6	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:- using harrow sand i) Type B (nominal mix 1: 1½: 3)	8685.00	Cft	Per Cft	
7	6/6 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:using harrow sand i) Type B (nominal mix 1: 1½: 3) ii) Type B (nominal mix 1: 1½: 3) (For Mumty)	21115.00 750.00	Cft Cft	Per Cft Per Cft	
8	3/15	Filling, watering & ramming earth under floors:-				
i)	3/15-a	with surplus earth from foundation, etc.	16496.00	Cft	%o Cft	
ii)	3/15-b+ 3/17 a	with new earth excavated from outside,lead upto 1 mile	128000.00	Cft	%o Cft	
9	7/5	Pacca brick work in ground floor:- cement, sand mortar:- i) Ratio 1:5 ii) Ratio 1:3 <b>(For 4.5" Th.Walls only)</b> iii) First Floor Ratio 1:5 cement sand mortor	15500.00 2078.00 14500.00	Cft Cft Cft	% Cft % Cft % Cft	
10	7/4	Pacca brick work in foundation and plinth in:- cement sand mortor Ratio 1:6	3700.00	Cft	% Cft	
11	6/35	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)	300.00	Sft	% Sft	
12	11/10	Cement plaster 3/8" (10 mm) thick under soffit of R.C.C. roof slabs only, i) upto 20' height. 1:3	35663.00	Sft	% Sft	

No	Reff	Description	Quantity	Rate	Unit	Amount
13	11/9	Cement plaster 1:4 upto 20' (6.00 mm) height:- i) ½" (13 mm) thick ii) Above 20'- 30' height iii) ¾" (20 mm) thick iv) Above 20'-30' height	58500.00 Sft 7500.00 Sft 33260.00 Sft 8500.00 Sft		% Sft % Sft % Sft % Sft	
14	7/30	Supplying and filling sand under floor; or plugging in wells.	11500.00 Cft		% Cft	
15	6/2	Dry rammed brick or stone ballast, 1½" to 2"( 40 mm to 50 mm) gauge.	10500.00 Cft		% Cft	
16	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.	22500.00 Sft		% Sft	
17	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 1.50" Thick .	22500.00 Sft		% Sft	
18	26/37	Supplying and laying polythene sheet over D.P.C. under 'floors and on roofs, etc. 500 gauge (.005" thick)	22500.00 Sft		Per Sft	
19	6/16	Providing and fixing ornamental cement jali 2" (50 mm) thick (1: 2: 4), without steel.	2250.00 Sft		Per Sft	
20	10/40	Providing and fixing marble strip of any shade for dividing the mosaic flooring into panels. 1.5x3/8	5500.00 Rft		Per Rft	
21	10/15	Providing and laying topping of cement concrete 1:2:4,including surface finishing and dividing in panels:- 2"(50 mm) thick	10398.00 Sft		% Sft	
22	25/56	Providing and fixing 2 mm thick Double Glazed Aluminium Windows of anodize / powder coated partly fixed and party sliding using deluxe section of 100mm x 40mm x2 mm using frame (70501) at bottom, (70502) at Top & Side made of Pakistan Cables/Alcop having Leaf Frame size 31mm x 60mm x2 mm (70506) at Top & Bottom, 35mm x 60mm x2 mm (70505) at center and 35mm x 60mm x2 mm(70503) at sides , fixing 5 mm thick imported tinted double glass and air tight using double tape, chemical strips, Silicon using approved latches, wheels for channel, stopper, brush channel angle joint and hardware etc.(cost of Fly Proofing). Complete in all respect as approved and directed by the Engineer Incharge.	3600.00 Sft		Per Sft	
23	25/53	Providing and fixing Aluminum Fly screen comprising of Fiber / Aluminum wire guaze (Malasian) fixed in aluminum frame of approved manufacturer brownze Colour / powder coated of size 1- 1/2"x1/2" and 1.6mm thick with rubber gasket i/c cost of Hardwares as approved and directed by the engineer incharge. complete in all respect.	1800.00 Sft		Per Sft	



No	Reff	Description	Quantity	Rate	Unit	Amount
24	6/34	Providing and fixing thermopore (foamed polythene) sheet in horizontal and vertical expansion joints: 1½" thick thermopore sheet	500.00 Sft		Per Sft	
25	11/23	Distempering:-a) new surface:- 3 Coats (For Ceiling)	40975.00 Sft		%Sft	
26	13/46	Providing and applying Wall Putty of 2mm thickness over plastered surface (new surface) to prepare the surface even & smooth complete in all respects.(On Interior Walls/Members Only)	112653.00 Sft		%Sft	
27	13/31	Preparing surface and painting with emulsion paint:- 3 coats	86565.00 Sft		% Sft	
28	6/5	Cement concrete plain including placing, compacting finishing and curing complete (including screening and washing of stone aggregate): i) Ratio 1:2:4	6825.00 Cft		% Cft	
29	12/61	P/F ¾" dia heavy duty sliding bolt of specified material i/c the cost of hardware complete in all respect as approved and directed by the Engineer Incharge. brass sliding bolt, 10" (250 mm) long	50.00 No		Each	
30	6/26	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	150.00 Rft		Per Rft	
31	12/7(b-ii)	Providing and fixing 1st class solid wood wrought joinery in panelled or panelled and glazed doors and windows of specified thickness with 1" thick solid wood panels with step and 1-1/2"x2-1/2" beadings all around the panels i/c the cost of Tower bolt and handles complete in all respect (Excluding the cost of sliding bolt,lock and chowkats (frame), etc.) as approved and directed by the Engineer Incharge.b) Oak/Ash wood Door (iii) 1-1/2" thick (40 mm)	2450.00 Sft		Per Sft	
32	1/1	Carriage of 100 Cft. (2.83 cu.m) of all materials like stone aggregate, spawl, kankar lime (unslaked), surkhi, etc. or 150 Cft. (4.25 cu.m) of timber, by truck or by any other means owned by the contractor. (Lead 366 kms From Sargodaha (or approved quarry) to site of work)	35500.00 Cft		% Cft	
33	12/7	Providing and fixing 1st class solid wood wrought joinery in panelled or panelled and glazed doors and windows of specified thickness with 1" thick solid wood panels with step and 1-1/2"x2-1/2" beadings all around the panels i/c the cost of Tower bolt and handles complete in all respect (Excluding the cost of sliding bolt,lock and chowkats (frame), etc.) as approved and directed by the Engineer Incharge- <b>Deodar Wood 2" thick (50 mm)</b> (for Main Door)	120.00 Sft		Per Sft	

No	Reff	Description	Quantity	Rate	Unit	Amount
34	25/36	Providing and fixing collapsible gate made of 2"x2"x1/4" tee iron at top and bottom, channel iron 'verticals 3/4"x1/4"x1/8" (20x6x3 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 3/4"x1/4"x1/8" channel iron, locking arrangement inside and outside, painting 3 coats of black Japan enameled, complete in working order.	75.00	Sft	Per Sft	
35	10/42	Providing and laying superb quality <b>Porcelain glazed tiles flooring</b> of MASTER brand of specified size in approved design, Color and Shade with adhesive/bond over 3/4" thick (1:3) cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respect as approved and directed by the Engineer Incharge. <b>Full body Glazed tiles</b> (ii) 600mmx 600 mm	33500.00	Sft	Per Sft	
36	10/43	Providing and laying superb quality <b>Porcelain glazed tiles</b> of Master brand, <b>skirting/dado</b> of specified size, Color and Shade with adhesive/ bond over 1/2" thick (1:2) cement plaster i/c the cost of and sealer for finishing the joints, cutting grinding complete in all respect as approved and directed by the Engineer Incharge.  (ii) 600mmx 600 mm	6850.00	Sft	Per Sft	
37	10/47	Providing and laying 3/4" thick full width Prepolished <b>Marble slab for Vanities / Shelves / Treads/Window Cills</b> , having Uniform texture (Spotless) with adhesive bond over 3/4" thick (1:2) cement sand mortar i/c the cost of matching sealer complete in all respects as approved and directed by the Engineer Incharge.  China Verona	2950.00	Sft	Per Sft	
38	10/48	Extra for Bevelling charges of marble edge in approved design complete in all respects i/c the cost of Carborandum disc as approved and directed by the Engineer Incharge.	750.00	Rft	Per Rft	
39	10/49	Extra cost for making hole in Marble slab for fixtures, Sink, burners, basin Vanities i/c cost of bevelling of internal edge as approved and directed by the Engineer Incharge.	40.00	No	Each	
40	10/50	Providing and laying Prepolished Granite of specified thickness and shade of full width of approved quality laid with adhesive bond over 3/4" thick (1:2) cement sand mortar bed , complete in all respect as approved and directed by the Engineer Incharge ( <b>for podium, Stair steps, Risers</b> ) (i) 3/4" thick	3575.00	Sft	Per Sft	
41	10/24	Providing and laying superb quality Ceramic tile floors of Master brand of specified size, Glossy/Matt/Texture of approved Color and Shade as per approved design with adhesive bond, over 3/4" thick (1:2) cement sand plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects and as approved and directed by the Engineer Incharge.  12"x18"/12"x24"/10"x24" /8"x24"/12"x36"	1450.00	Sft	Per Sft	
42	10/25	Providing and laying superb quality Ceramic tiles dado of Master brand of specified size, Glossy/Matt/Texture skirting/dado of approved Color and Shade with adhesive bond over 1/2" thick (1:2) cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects as approved and directed by the Engineer Incharge. 12"x18"/12"x24"/10"x24" /8"x24"/12"x36"	6750.00	Sft	Per Sft	
43	10/18	Extra labour for each storey above ground, for mosaic, conglomerate, tiles, stone and wooden floor.	18,000.00	Sft	% Sft	

No	Reff	Description	Quantity	Rate	Unit	Amount
44	25/59	Providing and fixing M.S. grill fabricated with MS Square polished Vertical/horizontal Bars of specified size @ 4" c/c ' passed through punched holes in MS Patti of 1-1/4"x1/8" i/c the cost of 1-1/4"x1/8" MS patti for Frame of windows and painting 3 coat complete in all respect as approved and directed by the Engineer Incharge. (i) 3/8" Squar Bars	3600.00	Sft	Per Sft	
45	25/64	Providing and fixing 2'-9" high stair railing comprising of non magnetic (304) Stain less steel 2" dia pipe railing of 18 SWG welded with vertical posts of 2" dia stainless steel round/ Squar pipe @ 2-ft c/c fixed on alternate steps with 3" long steel screws and brass rawal plugs , 3-Nos diagonal stainless steel pipes of 1/2" dia passes through gotties fixed on vertical post, i/c stainles steel welding, fixing & polishing complete in all respects as approved and directed by the Engineer Incharge	200.00	Sft	Per Sft	
46	9/48	Providing and fixing false ceiling comprises of Gypsum board laminated sheet of size 2'x2'/2'x3'/ 3'x3'of specified design and thickness i/c cost of fixtures i.e galvanized angle 1" x 1" at wall sides, galvanized tee 1 1/4" x 1"and 1 1/2" x 1" both at 4' c/c ( made of Taiwan CKM or equivalent), hanging with G.I/Copper wire 16 SWG, G.I hook, Rawal Plug etc: complete in all respects as approved and directed by the Engineer Incharge. 9 mm thick	12500.00	Sft	Per Sft	
47	12/60	Providing and fixing 2" wide MS Chowkat singel/double rebate made of 16 SWG MS sheet pressed/welded / supported with M.S. flat 1-1/4"x1/8" i/c 6"long M.S. Flat 1"x1/8"hold fasts (6-Nos) welded/ screwed, punching of lock hole covered with MS Box,coating with antirust paint including filling with cement sand mortar (1:8) and embedding hold fast in cement concrete (1:2:4) ,complete in all respect as approved and directed by Engineer Incharge. i) 15 " wide ii) 10.50 " wide iii) 5.5 " wide	128.00 3550.00 420.00	Sft Sft Sft	Per Sft Per Sft Per Sft	
48	12/67	Providing and fixing automatic hydraulic operated door closer imported heavy duty complete in all respect as approved and directed by the Engineer Incharge.	60.00	No	Each	
49	25/62	P/F Iron door comprising of specified leaves made of 1-1/4" x1-1/4" x3/16" MS angle iron for leaf frame, diagonal and horizontal braces duly welded with MS. sheet 18-SWG i/c the cost of sliding bolt, tower bolt and painting 3-coats but excluding the cost of Chowkat complete in all respect as approved and directed by the Engineer incharge. Double Leaf	120.00	Sft	Per Sft	
50	18/23	Providing and fixing M.S Grating comprising of Angle Iron frame size 1.50" x 1.50" x 3/16" and 1/2" square bars duly welded @ 4" c/c, including painting charges etc complete in all respect.	60.00	Sft	Per Sft	
51	13/33	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	21900.00	Sft	% Sft	
52	7/38	Providing and laying Fair Face Gutka cladding laid in (1:2) cement / red posso mortar having 1/4" thick groove finish i/c cost of 8 SWG wire in shape of 8 placed horizontally and vertically at 36" and 18" c/c respectively i/c cutting charges as per approved drawing , complete in all respect as approved and directed by the Engineer Incharge. ii. 2-1/4" x 3" x 9"	33500.00	Sft	P. Sft	

No	Reff	Description	Quantity	Rate	Unit	Amount
53	12/44	Preparing surface and Lacquar polish to reveal wooden grains by application of multiple coats of wood sealer , sand papering with different no of sandpapers and Lacquar to make glossy surface finish i/c the cost of cotton, thinner, wood sealer complete in all respects as approved and directed by the Engineer Incharge. Matt Finish	6000.00 Sft		Per Sft	
					<b>Total</b>	
		<b>Civil Work (Non-Schedule)</b>				
1	N.S	P/F Handle Lock (Hiluke/DAF/Khas or equivalent) complete in all respect as approved by Engineer Incharge.	80.00 No		Each	
2	N.S	Providing and fixing UPVC Doors 38mm thickness i/c deluex matching color UPVC Frame (matt or glossy finish) having color (whiteGray-Marble Gray-Oak Wood- Dard Oak Wood, Coffee Wood Honey Pine Wood-Mahagony-Marry Gold-Chocolate Brown-Honey Dew) i/c all accessories complete in all respect as approval by the Engineer Incharge.	625.00 Sft		P/Sft	
3	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.	234.56 Sft		P/Sft	
4	N.S	Providing and fixing Steel Floor Jali complete in all respect as per specification and as approved by the Engineering Incharge.	49.00 No		Each	
5	N.S	Providing & Fixing Cabinet 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 sprit polish for gola complete in all respects as per design, drawing & pattern as approved by the engineer incharge. <b>(Down portion)</b>	1350.00 Sft		P/Sft	
6	N.S	'Providing & Fixing Cabinet 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 & pattern as approved by the Engineer Incharge. <b>(Upper Portion)</b>	250.00 Sft		P/Sft	
					<b>Total</b>	

No	Reff.	Description	Quantity		Rate	Unit	Amount
		<b>IT DATA CABELING SYSTEM</b>					
1	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.					
		i) 3/4" i/d (20 mm)	1350.00	M		Per M	
		ii) 1" i/d (25 mm)	1350.00	M		Per M	
		iii) 1.50" i/d (40 mm)	450.00	M		Per M	
		iv) 2" i/d (50 mm)	400.00	M		Per M	
2	24/104	P/F PVC concealed Switch kit Box i/c the cost of screws complete as approved and directed by the Engineer Incharge					
		i) Small	200.00	No		Each	
		ii) Large	240.00	No		Each	
3	24/106	Supply, Installation and commissioning of wiring with 4-pair data Cable, 23 AWG UL/EN listed cable * Conforming to following standards: TIA/EIA 568 / ISO/IEC 11801, in prelaidd conduit / cable tray from including all accessories, Manufacturer/OEM Authorization, Make: Schneider / i-connect UK/3M Corning USA/ D-Link/ Pollo Australian or equivalent <b>complete in all respect as approved and directed by Engineer Incharge.</b>					
		<b>a) UTP (Unshielded Twisted pair)</b>					
		(i) CAT-6 (Min.1G @ 250MHz or higher)	1600.00	M		Per M	
		(ii) CAT-6A (Min.1G/ 10G @ 500MHz or higher)	1600.00	M		Per M	
4	24/131	Supply, Installation and commissioning of Simple type, Dual Shutter Face Plates having fully populated I/O: Option 1:RJ-11 with RJ45/8P8C I/Os supporting either Cat6 or Cat6a cables as required by project Option 2: Two RJ45/8P8C I/Os supporting either Cat6 or Cat6a cables as required by project.					
		(i) Single I/O	200.00	No		Each	
		(ii) Double I/O	240.00	No		Each	
						<b>Total</b>	

**The Islamia University of Bahawalpur**  
**Construction of Academic Block for South Punjab Institute of Agro-Industry & Environment at**  
**Baghdad-ul-Jadeed Campus**

MRS Jan to Jun, 2023

No	Reff	Description	Quantity	Rate	Unit	Amount
1	24/3	<b>Electrical Work</b> 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)	2310.00 M 2500.00 M 500.00 M 450.00 M		Per M Per M Per M Per M	
2	24/6 ii	Supply and erection of PVC pipe for recessed wiring main and submain) purpose, i/c bends, specials etc in floor, walls or trenches: 3" i/d (80 mm)	450.00 M		Per M	
3	24/10	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). 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")	16750.00 M 5500.00 M 2500.00 M 3200.00 M 1800.00 M 1975.00 M 1220.00 M		Per M Per M Per M Per M Per M Per M Per M	
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) 7/1.63 mm (7/0.064") ii) 19/1.32 mm (19/0.052")	250.00 M 200.00 M		Per M Per M	
5	24/30	Supply and erection of ceiling rose, bakelite.	50.00 No		Each	
6	24/103	P/F PVC double layer Switch kit Faceplate with specified switch holes i/c the cost of switches / sockets / dimmer made of Hi-Life / Bush / Schenider, screws complete as approved and directed by the Engineer Incharge <b>a) One way Gange Switch</b> <b>Small</b> i) 02 Gange ii) 03 Gange iii) Three pin Light Plug 10/13 Amp iv) Fan Dimmer v) Three Pin Power Plug 15-32 Amp <b>Large</b> i) 04 Gange ii) 05 Gange iii) 06 Gange	10.00 No 10.00 No 300.00 No 120.00 No 180.00 No 85.00 No 50.00 No 140.00 No		Each Each Each Each Each Each Each Each	
7	24/102	Providing and fixing Copper winded Exhaust fan with louver and shutter made of Pak/Younas/G.F.C. i/c the cost of necessary cable and hardware for connection from ceiling rose complete as approved and directed by Engineer Incharge. <b>a) Plastic body</b> i) 12" dia	25.00 No		Each	

No	Reff	Description	Quantity		Rate	Unit	Amount
8	24/86	Supplying,Installation and comissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY /SIEMEN GERMANY/TERASAKI JAPAN/ ABB SWITZERLAND in prelaid DBs and Panels i/c the cost of screws,necessary w wire complete in all respect as approved and directed by the Engineer Incharge Single Pole 6-40 Amp (6 KA)	400.00	No		Each	
9	24/87	Supplying ,Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip ) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge Tripple Pole i) 15-100 Amp(18 KA) ii) 125-250 Amp(18 KA) iii) 300-630 Amp(36 KA)	25.00 25.00 2.00	No No No		Each Each Each	
10	24/88 a-x	Supplying,Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/ABB SWITZERL(with adjustable Thermal-Magnetic Trip ) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge <b>Tripple Pole With Adjustable Thermal-Magnetic Trip /Electronic Trip (60-100%)</b> 630-1600 Amp(50 KA)	1.00	No		Each	
11	24/94	Providing and fixing DB/Panel accessories of required rating and size i/c copper screws of approved brand Complete in all respect as approved and directed by the Engineer Incharge i) Selector Switch ii) Current Transformer Coil (Make: Metelx/Fico) iii) Digital Voltmeter (0-600 Volt) iv) Digital Ammeter (0-9999 Amp) v) LED Phase Indicator vi) Exhaust Fan with Louvers (Make: Imported/Plastim)	4.00 3.00 2.00 2.00 6.00 2.00	No No No No No No		Each Each Each Each Each Each	
12	24/90	P/F wall mounted DB (Distribution Board) made with 16SWG Sheet (Recessded/Surface mounted Type), Powder coated Paint, i/c the cost of Lock, Indication lights,Thimble, Copper Comb, Wiring, Netural & Earth Bar, Door Earthing, Digital Voltmeter, Digital Ammeter,Volt Selector Switch,Ammeter selector switch,Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately) i) 6" Deep 75~100A ii) 12" Deep 125~150A	30.00 10.00	Cft Cft		Per Cft Per Cft	
13	24/91 i-b	P/F floor mounted Electric Panel board of required depth and size, fabricarted with 14SWG M.S sheet (Indoor/Outdoor Type),derusting, zinc Phosphated, finish with electro static powder coating in approved colour i/c the cost of Lock, Indication lights, thimbles, Copper Comb, Wiring, Netural & Earth Bar, glands,Current Transformers of specified capacity ,Door Earthing, Brass glands,bus bars,controls complete in all respects as approved and directed by the Engineer Incharge (Breakers will be Paid Separately). <b>LT Switchboards</b> <b>3.00 Ft deep</b> 1600~2000A	160.00	Cft		Per Cft	

No	Reff	Description	Quantity		Rate	Unit	Amount
14	24/104	P/F PVC concealed Switch kit Box i/c the cost of screws complete as approved and directed by the Engineer Incharge					
		i) Small	620.00	No		Each	
		ii) Large	275.00	No		Each	
		<b>Electrical Work (Non-Schedule)</b>				<b>Total</b>	
1	N.S	Supply & installation of LED 24W Down Light (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)	300.00	No		Each	
2	N.S	Supply & installation of LED 600 x 600mm 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 RC0488 or Equivalent)	400.00	No		Each	
3	N.S	Supply & installation of LED search light 100W (220V~, CW or WW) with fitting arrangement for installation on walls, parapet, pole or etc. i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips BVP 151 or Equivalent)	12.00	No		Each	
4	N.S	Providing & Fixing of LED Wall Light 15 Watt 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. (WL008C OVAL Philips)	50.00	No		Each	
5	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)	90.00	No		Each	
6	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)	120.00	No		Each	
7	N.S	Supply & installation of Ceiling Fans, 56" sweep copper winding i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Royl Fan/Deluxe, Indus/Supreme, Pak Fan/Deluxe or equivalent)	120.00	No		Each	
8	N.S	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)	100.00	No		Each	
9	N.S	Supply & installation of Wall Bracket Fan 24" (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	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) & 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	
						<b>Total</b>	



<p style="text-align: center;"><b>The Islamia University of Bahawalpur</b>  <b>Construction of Academic Block for South Punjab Institute of Agro-Industry &amp; Environment at</b>  <b>Baghdad-ul-Jadeed Campus</b></p>						
Civil Work				MRS Jan to Jun, 2023		
No	Reff	Description	Quantity	Rate	Unit	Amount
1	19/23	<b>Plumbing Work</b> Providing and fixing BATHROOM ACCESSORIES (7-piece set) MASTER BRAND - One Cosmetic Shelf, One Towel rod with bracket, One soap dish, One double hook, One towel ring, brush holder, toilet paper holder & looking glass i/c the cost of hardwares etc complete in all respect as approved and directed by the Engineer incharge. i) Plastic soap dish ii) Plastic toilet paper holder iii) Plastic tower rail iii) Plastic shelf 60x13 cm (24"x5") with bracket and railing iv) Looking glass with plastic frame	68.00 No 30.00 No 10.00 No 15.00 No 14.00 No		Each Each Each Each Each	
2	19/1	Providing and fitting glazed earthen ware water closet European type, excluding seat and cover:- coloured	17.00 No		Each	
3	19/2	Providing and fixing, double seat and cover only. Bakelite	17.00 No		Each	
4	19/4	Providing and fitting glazed earthen ware water closet, squatter type (Orisa pattern), combined with foot rest. coloured	36.00 No		Each	
5	19/7	Providing and fitting glazed earthen ware wash hand basin 56x40 cm (22"x16") including bracket set, waste pipe and waste coupling, etc. i) white, with pedestal ii) Under Counter Vanity Basin	6.00 No 42.00 No		Each Each	
6	19/8	Providing and fixing stainless steel sink with drain board, size 120x60 cm (48"x24") including bracket set, waste pipe and waste coupling.	15.00 No		Each	
7	19/52	Providing and fixing CP bath Room Set made of Sonex/Master/Faisal comprising of 3-No Tee stop cocks, lever type Basin Mixer, double Bib Cock, open wall shower, Muslim shower, waste coupling and bottle trap etc. complete in all respect as approved and directed by the Engineer incharge.  (i) 3 No Tee Stop Cock (ii) Lever Type Basin Mixer (iii) Double Bib Cock (iv) Muslim shower	40.00 No 42.00 No 17.00 No 17.00 No		Each Each Each Each	
8	23/47	Providing, laying, testing and commissioning of POLYPROPYLENE RANDOM COPOLYMER (PPRC) water supply pipe made of (Dadex /Popular/ Beta / BBJ) with specified pressure rating PN (PRESSURE NOMINAL) and conforming to DIN 8077-8078 code i/c cost of solvent, specials, making jharries complete in all respect as approved and directed by Engineer Incharge. (Internal/External Diameters mentioned).  <b>PN-20 pipe</b> (i) (3/4") 25 mm (ii) (1") 32 mm (iii) (1-1/4") 40 mm (iv) (1-1/2") 50 mm (v) (2") 63 mm	2500.00 Rft 4000.00 Rft 1000.00 Rft 350.00 Rft 350.00 Rft		Per Rft Per Rft Per Rft Per Rft Per Rft	

No	Reff	Description	Quantity		Rate	Unit	Amount
9	23/46	Providing and fixing CP heavy duty brass Ball valve with CP handle of specified diameter made of Faisal/Sonex / Master best quality or equivalent complete in all respect as approved and directed by the Engineer Incharge.  i) 1" dia ii) 1-1/4" dia iii) 1.50" dia iv) 2" dia	10.00 5.00 8.00 6.00	No No No No		Each Each Each Each	
10	19/47	Providing, fixing, testing and commissioning of µ-PVC (Unplasticized polyvinyl Chloride ) Nikasi/ waste pipe make of dadex /Popular/Beta/BBJ plain /socket ended conforming to code EN-1401 of specified SDR (Standard Dimension Ratio) including the cost of specials and Solvents complete in all respect as approved and directed by the Engineer Incharge.					
11	19/49	<b>Type (SDR 41/SN-4)</b> i) 3"(85 mm ) ii) 4"(110 mm) iii) 6" (160 mm)  Providing, laying, testing and commissioning underground Yellow Polyethelene flexible gas pipe Tubing of required IPS(Iron Pipe Size) in the trenches , made of (Dadex/ Popular / Beta/ BBJ ) for Gas supply i/c the cost of solvent and specials complete as approved and directed by the Engineer Incharge.  <b>SDR-11</b> (ii) 1" (ii) 2" (ii) 1-1/2"	500.00 3350.00 500.00	Rft Rft Rft		Per Rft Per Rft Per Rft	
12	19/48	Providing, fixing, testing and commissioning of µ-PVC (Unplasticized polyvinyl Chloride ) Nikasi/ waste pipe Fittings make of dadex /Popular/Beta/BBJ conforming to code EN-1401 ncluding the cost of Solvents complete in all respect as approved and directed by the Engineer Incharge.  (a) P-Trap (i) 4" dia (b) Vent Cowel (i) 3" dia	150.00 10.00	No No		Each Each	
13	19/13	Providing and fitting plastic made low down flushing cistern 13.63 litre (3 gallons) capacity, including bracket set, copper connection, etc. complete.	36.00	No		Each	
14	21/3	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. ii) 12 " i/d	500.00	Rft		Per Rft	
15	19/27	Providing and fixing chromium plated bib cock:- 1.5 cm (½")	17.00	No.		Each	
16	19/42	Providing and fitting chromium plated or oxidised, gas cock 6mm (1/4") Two way	5.00	No.		Each	
						<b>Total</b>	

No	Reff	Description	Quantity		Rate	Unit	Amount
		<b>External Plumbing Work</b>					
1	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:- 0 ft. to 7.0 ft. (0 to 2.10 m) depth	16340.00	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	600.00	Cft		% Cft	
3	7/4	Pacca brick work in foundation & plinth:- cement, sand mortar:- Ratio 1:4	2000.00	Cft		% Cft	
4	11/9	Cement plaster 1:3 upto 20' (6.00 mm) height:- i) ¾" thick ii) ½" thick	2400.00 2427.00	Sft Sft		% Sft % Sft	
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	7650.00	Cft		%o Cft	
6	21/16	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.	41.00	No.		Each	
7	24/42	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: i) upto 6" i/d (150 mm) ii) upto 8" i/d (200 mm)	2.00 2.00	Con Con		P.Con P.Con	
8	23/43	Providing, laying, cutting, jointing, testing and disinfecting High Density Polyethylene Pipe (HDPE-100) working presure pipe in trenches. complete in all respects PN-20 (SDR-9) 3" (90mm)	500.00	Rft		Per Rft	
		<b>External Civil Work</b>				<b>Total</b>	
1	7/30	Supplying and filling sand under floor; or plugging in wells.	2400.00	Cft		% Cft	
2	6/3	Cement concrete brick or stone ballast 1½ " to 2" (40 mm to 50 mm) gauge, in foundation and plinth:- Ratio 1:6:12	3336.00	Cft		% Cft	
4	10/41	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	15960.00	Sft		Per Sft	
7	6/51A	Providing and fixing precast Edge Kerb Stone (4"to 6" thick), of 3500 PSI Compressive Strength, embeded in PCC 1:2:4 over lean concrete 1:4:8 etc complete in all respect. A) With Painting (i) 14" high	1500.00	Rft		Rft	
						<b>Total</b>	

<p style="text-align: center;">The Islamia University of Bahawalpur</p> <p style="text-align: center;"><b>Construction of Academic Block for South Punjab Institute of Agro-Industry &amp; Environment at</b></p> <p style="text-align: center;"><b>Baghdad-ul-Jadeed Campus</b></p> <p style="text-align: right;"><b>MRS Jan to Jun, 2023</b></p>						
No	Reff	Description	Quantity	Rate	Unit	Amount
		<b>External Electrical Work</b>				
1	3/1-b	Earthwork excavation underdressed lead upto a single throw of Kassi, phaorah or shovel:- In ordinary soil.	4500.00 Cft		%o Cft	
2	24/12	Supply and erection of single core PVC insulated, PVC sheathed copper conductor, 600/1000 volts grade cable, in prelaid G.I. pipe/M.S. conduits/PVC pipe/G.I. wire/trenches etc (rate for cable only):- 240 mm sq (37/0.114)	300.00 M		Per M	
3	24/158	Supply, installation, testing, commissioning and termination of 8.7/15kV,AL/XLPE/SWA/PVC three Core (MV cables) along with cable glands, in already installed cable trench/cable ladder/cable tray/duct bank. (Armoured) 70mm sq 95 mm sq	300.00 M 200.00 M		Per M Per M	
4	24/105	Supply, insatllation, commissioning and testing of oil cooled type, Step down Power Transformer of specified rating,11/0.415 kV, i/c the cost of lifting hooks, thermometers, LT & HT bushing 5-steps, tap changer, imported double float buchholz relay, 2 earthing terminals, roller wheels, connecting terminals for cables M.S box on transformer in order to cover complete L.T side, all necessary materials required for connections on H.T & L.T side, rated voltage 11000/415/240 V impedance 6.25% or as specified by WAPDA/IEC system earth: Delta / Star, neutral solidly earthed, i/c Wapda testing charges,complete in all respects made of PEL, Siemens, as approved and directed by the Engineer Incharge <b>400 KVA</b>	1.00 No		Each	
					<b>Total</b>	
		<b>External Electrical (Non-Schedule)</b>				
1	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	
2	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.	3.00 No		Each	
3	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.	2.00 No		Each	
4	N.S	Supply and installation of 70mm <sup>2</sup> -120mm <sup>2</sup> , 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.	3.00 No		Each	
					<b>Total</b>	

*The Islamia University of Bahawalpur*  
Construction of Girls Hostel # 1 at Baghdad-ul-Jadeed Campus

Estimate Based on MRS Jan-Jun, 2023

**ABSTRACT OF COST**

<b>A) <u>Schedule Items</u></b>	
i. <i>Civil Works</i>	<u>Rs.</u>
ii. <i>Plumbing Works</i>	<u>Rs.</u>
iii. <i>Electrical Works</i>	<u>Rs.</u>
<i>Total of "A"</i>	<u>Rs.</u>
<b>B) <u>Non-Schedule Items</u></b>	
i. <i>Civil Works</i>	<u>Rs.</u>
ii. <i>Electrical Works</i>	<u>Rs.</u>
<i>Total of "B"</i>	<u>Rs.</u>
<b>C) <i>External Work</i></b>	
i. <i>External Civil Work</i>	<u>Rs.</u>
ii. <i>External Plumbing Work</i>	<u>Rs.</u>
iii. <i>External Electrical Work</i>	<u>Rs.</u>
iv. <i>External Electrical Work (N.S)</i>	<u>Rs.</u>
<i>Total of "C"</i>	<u>Rs.</u>
<i>Total (A+B+C)</i>	<u>Rs.</u>
<b>D) <i>Add 03% Contingencies</i></b>	<u>Rs.</u>
<i>Total (A+B+C+D)</i>	<u>Rs.</u>
<i>Add 5% PST</i>	<u>Rs.</u>
<i>Grand Total</i>	<u>Rs.</u>

# The Islamia University of Bahawalpur

## Construction of Girls Hostel # 2 at Baghdad-ul-Jadeed Campus

MRS Jan-Jun, 2023

No.	Reff.	Description	Quantity	Rate	Unit	Amount
1	3/21 b (ii)	<b>Civil Work</b> 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>By Excavator (ii) In ordinary soil.</b>	97500.00 Cft		%o Cft	
2	3/18	Dressing and levelling of earhtwork to designed section, etc. Ordinary or hard soil	25000.00 Cft		%o Cft	
3	6/5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): i) Ratio 1: 2: 4 <b>(For Flooring)</b> ii) Ratio 1:4:8	5500.00 Cft 500.00 Cft		% Cft % Cft	
4	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	4650.00 Cft		% Cft	
5	26/43	Spraying anti termite proofing by using liquid FMC Biflex 2.5%EC Mixing Ratio 1:50=137-Sft or using liquid MIRAGE Ali Akbar /RANGERS Auriga 5% SC Mixing Ability-HEXTAR Ratio 1:110=205-Sft or any other equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10-years complete in all respect .as approved by the Engineer Incharge	35000.00 Sft		Per Sft	
6	7/4 (i)	Pacca brick work in foundation and plinth in:-C/S mortar: <b>Ratio 1:6</b>	31500.00 Cft		% Cft	
7	6/36 a-ii	Providing and laying damp proof course of cement concrete 1:2: 4 (using cement, sand and shingle), including bitumen coating:-with 1 coat bitumen and 1 coat polythene sheet 500 gauge. <b>2" thick</b>	4700.00 Sft		% Sft	
8	6/38 a-ii-b	Providing and laying vertical damp proof course with cement sand 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)	3150.00 Sft		% Sft	
9	3/15	Filling, watering and ramming earth under floors:- i) with surplus earth from foundation, etc. ii) with new earth excavated from outside,lead upto <b>One (1) Mile</b>	97500.00 Cft 27500.00 Cft		%o Cft %o Cft	
10	3/24 a+b	Compaction of earthwork (soft, ordinary or hard soil) :- a) Mixing, moistening earth to optimum moisture content in layers for compaction, etc. complete. b) Compaction by rolling with animal driven roller/hand rammed:soft or sandy soil	128500.00 Cft		%o Cft	
11	7/5	Pacca brick work in Cement, sand mortar:- Ratio 1:5 i) Ground Floor (7/5-i) ii) First Floor (7/5-i) + (7/6-i) ii) Second Floor	24500.00 Cft 23550.00 Cft 3400.00 Cft		% Cft % Cft % Cft	
12	7/5	Pacca brick work in Cement, sand mortar:- Ratio 1:4 i) Ground Floor (for 4.5" thick wall) ii) First Floor ii) Second Floor	700.00 Cft 980.00 Cft 850.00 Cft		% Cft % Cft % Cft	
13	11/10	Cement plaster 3/8" (10 mm) thick under soffit of R.C.C. roof slabs only, upto 20' height. Ratio 1:3	29500.00 Sft		% Sft	
14	11/9	Cement plaster 1:4 upto 20' (6.00 m) height:- i) ½" (13 mm) thick (11/9-b) ii) ¾" (20 mm) thick	66500.00 Sft 46700.00 Sft		% Sft % Sft	
+11/28		iii) ¾" (20 mm) thick 20' to 30' height	23600.00 Sft		% Sft	
"		iii) ¾" (20 mm) thick 30' to 40' height	12500.00 Sft		% Sft	

No.	Reff.	Description	Quantity		Rate	Unit	Amount
15	26/37	Supplying and laying polythene sheet over D.P.C. under floors and on roofs, etc. 500 gauge (.005" thick)	29500.00	Sft		Per Sft	
16	6/12	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 i) Deformed Bar 60-Grade	75000.00	Kg		% Kg	
17	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 (6/6(a-i)2 ii) First Floor (6/6(a-i)2+6/6-d)	8195.00 7750.00	Cft Cft		Per Cft Per Cft	
18	7/30	Supplying and filling sand under floor; or plugging in wells	53580.00	Cft		% Cft	
19	6/2	Dry rammed brick or stone ballast, 1½" to 2"( 40 mm to 50 mm) gauge.	12000.00	Cft		% Cft	
20	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	13500.00	Sft		% Sft	
21	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. (add 6% on composite rate) first floor	13500.00	Sft		% Sft	
22	12/50	P/F 1-1/2" thick <b>Solid Flush Door</b> comprising of 2.5 mm thick Commercial ply compressed over 2.5 mm thick commercial ply over 1" thick packing wood in style and rails under proper pressure i/c the cost of nails, tower bolt , handles, glue, sawing charges, Painting charges, sand papering and 3/8" thick matching wooden lipping as approved and directed by the Engineer Incharge.	2750.00	Sft		Per Sft	
23	3/13+ 3/16	Rehandling of earthwork plus additional lead or part thereof :-Upto a lead of 500 ft. (150 m).	18500.00	Cft		%o Cft	
24	25/51	Providing and fixing all types of partly fixed and partly openable glazed anodised bronze colour , 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 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. <b>2mm thickness.</b>	400.00	Sft		Per Sft	
25	25/52	Providing and fitting all types of glazed <b>Aluminium Windows</b> 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 including 5 'mm thick imported tinted glass with rubber gasket using approved standard latches hardware etc., as approved by the Engineer. <b>1.60 mm Thickness</b>	3350.00	Sft		Per Sft	

No.	Reff.	Description	Quantity		Rate	Unit	Amount
26	25/53	Providing and fixing <b>Aluminum Fly Screen</b> comprising of Fiber/ Aluminum wireguaze (Malasian) fixed in aluminum frame of approved manu facturer brownze Colour/powder coated of size 1-1/2"x1/2" and 1.6mm thick with rubber gasket i/c cost of Hard wares as approved and directed by the engineer incharge.	1675.00	Sft		Per Sft	
27	10/18	Extra labour for each storey above ground, for mosaic, tiles, conglomerate,stone and wooden floor. <b>(1st Floor Labour Only)</b>	18500.00	Sft		% Sft	
28	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.	890.00	Kg		% Kg	
29	11/23	Distempering:-a) new surface:- 3 Coats (For Ceiling)	30000.00	Sft		%Sft	
30	13/46	Providing and applying Wall Putty of 2mm thickness over plastered surface (new surface) to prepare the surface even and smooth complete in all respects.(On Interior Walls/Members Only)	87000.00	Sft		%Sft	
31	13/31	Preparing surface & painting with 3 coats <b>Emulsion Paint</b> complete in all respects	87000.00	Sft		% Sft	
32	13/5	Painting new surface: Preparing surface and <b>Painting of Doors and Windows</b> any type (including edges):- 3 coats	4800.00	Sft		% Sft	
33	13/33	Providing and Applying <b>Weather Shield Paint</b> 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	17800.00	Sft		% Sft	
	+13/41	ii) 20' to 30 height	16300.00	Sft		% Sft	
	"	iii) 30' to 40 height	2250.00	Sft		% Sft	
34	12/7-a	Providing and fixing 1st class solid wood wrought joinery in panelled or panelled and glazed doors and windows of specified thickness with 1" thick solid wood panels with step and 1-1/2"x2-1/2" beadings all around the panels i/c the cost of Tower bolt and handles complete in all respect (Excluding the cost of sliding bolt,lock and chowkats (frame), etc.) as approved and directed by the Engineer Incharge Incharge <b>(i) 2" thick (50 mm) For Main Entrance Door</b>	120.00	Sft		Per Sft	
35	13/44	Preparing surface and <b>Lacquar polish</b> to reveal wooden grains by application of multiple coats of wood sealer , sand papering with different no of sandpapers and Lacquar to make glossy surface finish i/c the cost of cotton, thinner, wood sealer complete in all respects as approved and directed by the Engineer Incharge. <b>Glossy Finish (For Main Entrance Door)</b>	250.00	Sft		Per Sft	
36	10/15	Providing and laying topping of cement concrete 1:2:4, including surface finishing and dividing in panels:- 3" thick	3200.00	Sft		% Sft	
37	12/61	P/F 3/4" dia heavy duty sliding bolt of specified material i/c the cost of hardware complete in all respect as approved and directed by the Engineer Incharge.					
	a	<b>Iron Sliding Bolt, 12" (300 mm) long</b>	90.00	No		Each	
	b	<b>Brass Sliding Bolt 18" (450 mm) long (Main Enterance Door)</b>	2.00	No		Each	
38	10/40	Providing and fixing marble strip of any shade for dividing the mosaic flooring into panels Size 1½"x3/8" (40x10mm)	1650.00	Rft		Per Rft	



No.	Reff.	Description	Quantity		Rate	Unit	Amount
39	9/15	Khuras on roof 2'x2'x6" (600 x 600 x 150 mm)	20.00	No		Each	
40	10/41	Providing and laying <b>Tuff Pavers</b> , 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 (50% Grey / 50% Coloured) 60 mm thick	5000.00	Sft		P/Sft	
41	6/27-ii	Providing and fixing 6 in(150 mm). wide <b>Curved Sheet</b> of required shape fixed on face of the <b>Construction Joint</b> with G.I.screw,1.5 in (40 mm) long to cover construction joints vertically:- G.I. sheet, 18 SWG	550.00	Rft		Per Rft	
42	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)	13500.00	Sft		% Sft	
43	6/31	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.	180.00	Rft		Per Rft	
44	1/1	Carriage of 100 Cft. (2.83 cu.m) of all materials like stone aggregate, spawl, kankar lime (unslaked), surkhi, etc. or 150 Cft. (4.25 cu.m) of timber, by truck or by any other means owned by the contractor. <b>Lead 366 Km from Sargodha (or approved quarry to site of work)</b>	22500.00	Cft		% Cft	
45	10/42	Providing and laying superb quality <b>Porcelain glazed tiles flooring</b> of MASTER brand of specified size in approved design,Color and Shade with adhesive/bond over 3/4"thick (1:3) cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respect as approved and directed by the Engineer Incharge. <b>Full body Glazed tiles</b> (ii) 600mmx 600 mm	26800.00	Sft		Per Sft	
46	10/43	Providing and laying superb quality <b>Porcelain glazed tiles</b> of Master brand, <b>skirting/dado</b> of specified size, Color and Shade with adhesive/ bond over 1/2"thick (1:2) cement plaster i/c the cost of and sealer for finishing the joints, cutting grinding complete in all respect as approved and directed by the Engineer Incharge.  (ii) 600mmx 600 mm	3500.00	Sft		Per Sft	
47	10/47	Providing and laying 3/4" thick full width Prepolished <b>Marble slab for Vanities / Shelves / Treads/Window Cills</b> , having Uniform texture (Spotless) with adhesive bond over 3/4" thick (1:2) cement sand mortor i/c the cost of matching sealer complete in all respects as approved and directed by the Engineer Incharge.  China Verona	1700.00	Sft		Per Sft	
48	10/48	Extra for <b>Bevelling charges of marble</b> edge in approved design complete in all respects i/c the cost of Carborandam disc as approved and directed by the Engineer Incharge.	500.00	Rft		Per Rft	
49	10/49	Extra cost for <b>Making Hole in Marble slab</b> for fixtures, Sink,burners, basin Vanities i/c cost of bevelling of internal edge as approved and directed by the Engineer Incharge.	40.00	No		Each	
50	10/50	Providing and laying <b>Prepolished Granite</b> of specified thickness and shade of full width of approved quality laid with adhesive bond over 3/4" thick (1:2) cement sand mortor bed , complete in all respect as approved and directed by the Engineer Incharge ( <b>for podium, Stair steps, Risers</b> ) (i) 3/4" thick	2250.00	Sft		Per Sft	
51	10/24	Providing and laying superb quality <b>Ceramic Tile Floors</b> of Master brand of specified size,Glossy/Matt/Texture of approved Color and Shade as per approved design with adhesive bond, over 3/4" thick (1:2) cement sand plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects and as approved and directed by the Engineer Incharge. 12"x18"/12"x24"/10"x24" /8"x24"/12"x36"	2550.00	Sft		Per Sft	

No.	Reff.	Description	Quantity		Rate	Unit	Amount
52	10/25	Providing and laying superb quality <b>Ceramic Tiles Dado</b> of Master brand of specified size,Glossy/Matt/Texture skirting/dado of approved Color and Shade with adhesive bond over 1/2"thick (1:2) cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects as approved and directed by the Engineer Incharge. 12"x18"/12"x24"/10"x24" /8"x24"/12"x36"	7300.00	Sft		Per Sft	
53	25/59	Providing and fixing M.S. grill fabricated with MS Square polished Vertical/horizontal Bars of specified size @ 4" c/c ' passed through punched holes in MS Patti of 1-1/4"x1/8" i/c the cost of 1-1/4"x1/8" MS patti for Frame of windows and painting 3 coat complete in all respect as approved and directed by the Engineer Incharge.  (i) 3/8" Squar Bars	3250.00	Sft		Per Sft	
54	25/64	Providing and fixing 2'-9" high stair railing comprising of non magnetic (304) Stain less steel 2" dia pipe railing of 18 SWG welded with vertical posts of 2" dia stainless steel round/ Squar pipe @ 2-ft c/c fixed on alternate steps with 3" long steel screws and brass rawal plugs , 3-Nos diagonal stainless steel pipes of 1/2" dia passes through goties fixed on vertical post, i/c stainles steel weldina. fixina & polishina complete in all respects as approved and	425.00	Sft		Per Sft	
55	12/62	Providing and fixing almirah shutter comprising of 3/4" thick both side Laminated/Glossy MDF (Karachi) sheet with 1"x3/4"deodar wood golla all around the leaf fixed on (3"x1") Kail wood frame i/c the cost of 1/2" full brass hinges, C.P.handles, catchers, screws, and rawal plugs, polishing/ paint ing 3 coat to gola & frame i/c the cost of locking arrangement complete in all respect as approved and directed by Engineer Incharge. <b>(for Rooms)</b>	4750.00	Sft		Per Sft	
56	9/48	Providing and fixing <b>False Ceiling</b> comprises of Gypsum board laminated sheet of size 2'x2'/2'x3'/ 3'x3'of specified design and thickness i/c cost of fixtures i.e galvanized angle 1" x 1" at wall sides, galvanized tee 1¼" x 1"and 1 ½" x 1" both at 4' c/c ( made of Taiwan CKM or equivalent), hanging with G.I/Copper wire 16 SWG, G.I hook, Rawal Plug etc: complete in all respects as approved and directed by the Engineer Incharge.  9 mm thick	1500.00	Sft		Per Sft	
57	12/17	Providing and fixing 2" wide <b>MS Chowkat Singel/Double Rebate</b> made of 16 SWG MS sheet pressed/welded / supported with M.S. flat 1-1/4"x1/8" i/c 6"long M.S. Flat 1"x1/8"hold fasts (6-Nos) welded/ screwed, punching of lock hole covered with MS Box,coating with antirust paint including filling with cement sand mortar (1:8) and embedding hold fast in cement concrete (1:2:4) ,complete in all respect as approved and directed by Engineer Incharge.  i) 15 " wide ii) 10.50 " wide iii) 5.5 " wide	120.00 22.50 750.00	Sft Sft Sft		Per Sft Per Sft Per Sft	
58	12/67	Providing and fixing <b>Auotomatic Hydraulic Operated Door Closer</b> imported heavy duty complete in all respect as approved and directed by the Engineer Incharge.	8.00	No		Each	
59	25/62	P/F <b>Iron Door</b> comprising of specified leaves made of 1-1/4" x1-1/4" x3/16" MS angle iron for leaf frame, diagonal and horizontal braces duly welded with MS. sheet 18-SWG i/c the cost of sliding bolt, tower bolt and painting 3-coats but excluding the cost of Chowkat complete in all respect as approved and directed by the Engineer incharge. <b>Double Leaf</b>	80.00	Sft		Per Sft	
60	18/23	Providing and fixing <b>M.S Grating</b> comprising of Angle Iron frame size 1.50" x 1.50" x 3/16" and 1/2" square bars duly welded @ 4" c/c, including painting charges etc complete in all respect.	200.00	Sft		Per Sft	

No.	Reff.	Description	Quantity		Rate	Unit	Amount
61	7/38	Providing and laying fair face Gutka cladding laid in (1:2) cement / red posso mortar having 1/4" thick groove finish i/c cost of 8 SWG wire in shape of 8 placed horizontally and vertically at 36" and 18" c/c respectively i/c cutting charges as per approved					
		drawing excluding carriage charges complete in all respect as approved and directed by the Engineer Incharge. 2-1/4" x 3" x 9"	22750.00	Sft		Per Sft	
62	12/58	Providing and fixing ornamental wooden architrave 3" x (1½" tapered to ¼") all along the door frame complete in all respects Deodar wood architrave	1020.00	Sft		Per Sft	
						<b>Total</b>	
1	N.S	<b>Civil Work (Non-Schedule)</b> 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.	28503.35	Cft		Per Cft	
2	N.S	Supplying, filling select fill material as specified in the drawing including all lead and lift dressing watering and compacting to produce in situ dry density not less than 95% modified AASHTO or as directed by the engineer	69171.20	Cft		Per Cft	
3	N.S	Providing and fixing UPVC Doors 38mm thickness i/c deluex matching color UPVC Frame (matt or glossy finish) having color (whiteGray-Marble Gray-Oak Wood- Dard Oak Wood, Coffee Wood Honey Pine Wood-Mahagony-Marry Gold-Chocolate Brown-Honey Dew) i/c all accessories complete in all respect as approval by the Engineer Incharge.	750.00	Sft		Per Sft	
4	N.S	Providing & Fixing Cabinet 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 sprit polish for gola complete in all respects as per design, drawing & pattern as approved by the engineer incharge. <b>(Down portion)</b>	450.00	Sft		P/Sft	
5	N.S	'Providing & Fixing Cabinet 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 & pattern as approved by the Engineer Incharge. <b>(Upper Portion)</b>	250.00	Sft		P/Sft	
6	N.S	Supply & installation Burner 36 Nozel with casing & round iron plate (pan) Complete in all respect and approved by Engineer Incharge.	5.00	No		Each	
7	N.S	Supply & installation Burner 24 Nozel with casing Complete in all respect and approved by Engineer Incharge.	1.00	No		Each	
8	N.S	Supply & installation Tandoor large size dia (25 Roti) complete in all respect and approved by Engineer inch.	1.00	No		Each	
9	N.S	Providing and fixing Steel Floor trap Jali complete in all respect as per specification and as approved by the Engineering Incharge.	60.00	No		Each	
10	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.	265.00	Sft		Per Sft	
						<b>Total</b>	

No.	Reff.	Description	Quantity		Rate	Unit	Amount
1	3/44	<b>Plumbing Work</b> Excavation of trenches in all kinds of soil, except cutting rock, for watersupply pipelines upto 5 ft. (1.5 m) depth from ground level, including trimming, dressing sides, leveling the beds of trenches to correct grade and cutting pits for joints, etc. complete in all respects.	8500.00	Cft		%oCft	
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:- 0 ft. to 7.0 ft. (0 to 2.10 m) depth	10720.00	Cft		%oCft	
3	19/23	Providing and fixing BATHROOM ACCESSORIES (7-piece set) i) Plastic soap dish ii) Plastic toilet paper holder iii) Plastic tower rail iii) Plastic shelf 60x13 cm (24:x5") with bracket and railing iv) Looking glass with plastic frame	16.00 8.00 16.00 4.00 4.00	No No No No No		Each Each Each Each Each	
4	19/1	Providing and fitting glazed earthen ware water closet European type, excluding seat and cover:- coloured	10.00	No		Each	
5	19/2	Providing and fixing, double seat and cover only. Bakelite	10.00	No		Each	
6	19/4	Providing and fitting glazed earthen ware water closet, squatter type (Orisa pattern), combined with foot rest. coloured	18.00	No		Each	
7	19/7	Providing and fitting glazed earthen ware wash hand basin 56x40 cm (22"x16") including bracket set, waste pipe and waste coupling, etc. i) white, with pedestal ii) Under Counter Vanity Basin	6.00 24.00	No No		Each Each	
8	19/8	Providing and fixing stainless steel sink with drain board, size 120x60 cm (48"x24") including bracket set, waste pipe and waste coupling.	4.00	No		Each	
9	19/52	Providing and fixing CP bath Room Set made of Sonex/Master/Faisal comprising of 3-No Tee stop cocks, lever type Basin Mixer, double Bib Cock, open wall shower, Muslim shower,waste coupling and bottle trap etc. complete in all respect as approved and directed by the Engineer incharge.  (i) 3 No Tee Stop Cock (ii) Lever Type Basin Mixer (iii) Double Bib Cock (iv) Muslim shower v) Open Type Wall Shower	90.00 24.00 6.00 10.00 20.00	No No No No No		Each Each Each Each Each	
10	23/47	P/laying, testing and commissioning of POLYPROPYLENE RANDOM COPOLYMER (PPRC) water supply pipe made of (Dadex/Popular/ Beta / BBJ) with specified pressure rating PN (PRESSURE NOMINAL)and conforming to DIN 8077-8078 code i/c cost of solvent, specials,making jharries complete in all respect as approved and directed by Engineer Incharge.  <b>PN-20 pipe</b> (i) (3/4") 25 mm (ii) (1") 32 mm (iii) (1-1/4") 40 mm (iv) (1-1/2") 50 mm (v) (2") 63 mm	4000.00 3500.00 1000.00 500.00 500.00	Rft Rft Rft Rft Rft		Per Rft Per Rft Per Rft Per Rft Per Rft	

No.	Reff.	Description	Quantity		Rate	Unit	Amount
11	23/46	Providing and fixing CP heavy duty brass Ball valve with CP handle of specified diameter made of Faisal/Sonex / Master best quality or equivalent complete in all respect as approved and directed by the Engineer Incharge. i) 1" dia ii) 1-1/4" dia iii) 1.50" dia iv) 2" dia	8.00	No		Each	
			4.00	No		Each	
			4.00	No		Each	
			2.00	No		Each	
12	19/47	Providing, fixing, testing and commissioning of µ-PVC (Unplasticized polyvinyl Chloride ) Nikasi/ waste pipe make of dadex /Popular/Beta/BBJ plain /socket ended conforming to code EN-1401 of specified SDR (Standard Dimension Ratio) including the cost of specials and Solvents complete in all respect as approved and directed by the Engineer Incharge. <b>Type (SDR 41/SN-4)</b> i) 3"(90 mm) ii) 4"(110 mm) iii) 6" (160 mm)	500.00	Rft		Per Rft	
			1200.00	Rft		Per Rft	
			600.00	Rft		Per Rft	
13	19/50	Providing, laying, testing and commissioning underground Yellow Polyethelene flexible gas pipe Tubing of required IPS(Iron Pipe Size) in the trenches , made of (Dadex/ Popular / Beta/ BBJ ) for Gas supply i/c the cost of solvent and specials complete as approved and directed by the Engineer Incharge. <b>SDR-11</b> (ii) 1" (iii) 1.50"	1350.00	Rft		Per Rft	
			500.00	Rft		Per Rft	
14	19/49	Providing, fixing, testing and commissioning of µ-PVC (a) P-Trap (i) 4" dia (b) Vent Cowel (i) 3" dia	45.00	No		Each	
			15.00	No		Each	
15	19/13	Providing and fitting plastic made low down flushing cistern 13.63 litre (3 gallons) capacity, including bracket set, copper connection, etc. complete.	18.00	No		Each	
16	21/1	Providing and laying R.C.C. pipe, moulded with cement concrete 1:1½:3. with spidot socket or collar joint. etc. including cost of reinforcement, conforming to B.S. 5911: Part I: 1981, Class "L" i/c 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. <b>9" i/d</b>	500.00	Rft		Rft	
17	19/27	Providing and fixing chromium plated bib cock:- 1.5 cm (½")	17.00	No.		Each	
18	19/42	Providing and fitting chromium plated or oxidised, gas cock 6mm (1/4") Two way	5.00	No.		Each	
						<b>Total</b>	
1	24/3	<b>Electrical Work</b> 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)	2250.00	M		Per M	
			2300.00	M		Per M	
			250.00	M		Per M	
			450.00	M		Per M	
2	24/6 ii	Supply and erection of PVC pipe for recessed wiring main and submain) purpose, i/c bends, specials etc in floor, walls or trenches: 3" i/d (80 mm)	800.00	M		Per M	
3	24/10	Supply and erection of single core PVC insulated copper conductor cables, in prelaidd PVC pipe/M.S. conduit/G.I					

No.	Reff.	Description	Quantity		Rate	Unit	Amount
		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")	13500.00	M		Per M	
			5852.00	M		Per M	
			2550.00	M		Per M	
			3000.00	M		Per M	
			1600.00	M		Per M	
			2100.00	M		Per M	
			1000.00	M		Per M	
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) 7/1.63 mm (7/0.064") ii) 19/1.32 mm (19/0.052")	300.00	M		Per M	
			285.00	M		Per M	
5	24/30	Supply and erection of ceiling rose, bakelite.	100.00	No		Each	
6	24/103	P/F PVC double layer Switch kit Faceplate with specified switch holes i/c the cost of switches / sockets / dimmer made of Hi-Life / Bush / Schenider, screws complete as approved and directed by the Engineer Incharge <b>a) One way Gange Switch</b> <b>Small</b> i) 02 Gange ii) 03 Gange iii) Three pin Light Plug 10/13 Amp iv) Fan Dimmer v) Three Pin Power Plug 15-32 Amp <b>Large</b> i) 04 Gange ii) 05 Gange iii) 06 Gange	12.00	No		Each	
			12.00	No		Each	
			300.00	No		Each	
			90.00	No		Each	
			120.00	No		Each	
			50.00	No		Each	
			50.00	No		Each	
			120.00	No		Each	
7	24/104	P/F PVC concealed Switch kit Box i/c the cost of screws complete as approved and directed by the Engineer Incharge i) Small ii) Large	534.00	No		Each	
			220.00	No		Each	
8	24/102	Providing and fixing Copper winded Exhaust fan with louver and shutter made of Pak/Younas/G.F.C. i/c the cost of necessary cable and hardware for connection from ceiling rose complete as approved and directed by Engineer Incharge. <b>a) Plastic body</b> i) 12" dia	35.00	No		Each	
9	24/86	Suppling,Installation and comissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY /SIEMEN GERMANY/TERASAKI JAPAN/ ABB SWITZERLAND in prelaid DBs and Panels i/c the cost of screws,necessary w wire complete in all respect as approved and directed by the Engineer Incharge Single Pole 6-40 Amp (6 KA)	550.00	No		Each	
10	24/87	Supplying ,Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip ) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge Tripple Pole i) 15-100 Amp(18 KA) ii) 125-250 Amp(18 KA) iii) 300-630 Amp(36 KA)	40.00	No		Each	
			40.00	No		Each	
			4.00	No		Each	

No.	Reff.	Description	Quantity		Rate	Unit	Amount
11	24/88 a-vi	Supplying,Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/ABB SWITZERL(with adjustable Thermal-Magnetic Trip ) in prelaidd DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge <b>Tripple Pole With Adjustable Thermal-Magnetic Trip /Electronic Trip (60-100%)</b> 300-1000 Amp(36 KA)	2.00	No		Each	
12	24/94	Providing and fixing DB/Panel accessories of required rating and size i/c copper screws of approved brand Complete in all respect as approved and directed by the Engineer Incharge i) Selector Switch ii) Current Transformer Coil (Make: Metelx/Fico) iii) Digital Voltmeter (0-600 Volt) iv) Digital Ammeter (0-9999 Amp) v) LED Phase Indicator vi) Exhaust Fan with Louvers (Make: Imported/Plastim)	4.00 3.00 2.00 2.00 6.00 2.00	No No No No No No		Each Each Each Each Each Each	
13	24/90	P/F wall mounted DB (Distribution Board) made with 16SWG Sheet (Recessdded/Surface mounted Type), Powder coated Paint, i/c the cost of Lock, Indication lights,Thimble, Copper Comb, Wiring, Netural & Earth Bar, Door Earthing, Digital Voltmeter, Digital Ammeter,Volt Selector Switch,Ammeter selector switch,Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately) i) 6" Deep 75~100A ii) 12" Deep 125~150A	50.00 20.00	Cft Cft		Per Cft Per Cft	
14	24/91 i-b	P/F floor mounted Electric Panel board of required depth and size, fabricarted with 14SWG M.S sheet (Indoor/Outdoor Type),derusting, zinc Phosphated, finish with electro static powder coating in approved colour i/c the cost of Lock, Indication lights, thimbles, Copper Comb, Wiring, Netural & Earth Bar, glands,Current Transformers of specified capacity ,Door Earthing, Brass glands,bus bars,controles complete in all respects as approved and directed by the Engineer Incharge (Breakers will be Paid Separately). <b>LT Switchboards</b> <b>3.00 Ft deep</b> 1600~2000A	180.00	Cft		Per Cft	
						<b>Total</b>	
1	N.S	<b>Electrical Work (Non-Schedule)</b> Supply & installation of LED 24W Down Light (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)	225.00	No		Each	
2	N.S	Supply & installation of LED 600 x 600mm 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 RC048B or Equivalent)	50.00	No		Each	
3	N.S	Supply & installation of LED search light 100W (220V~, CW or WW) with fitting arrangement for installation on walls, parapet, pole or etc. i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips BVP 151 or Equivalent)	10.00	No		Each	

No.	Reff.	Description	Quantity		Rate	Unit	Amount
4	N.S	Providing & Fixing of LED Wall Light 15 Watt 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. (WL008C OVAL Philips)	70.00	No		Each	
5	N.S	Supply & installation of Wall Mounted LED Batten Light 20W (220V~, 6500K) Size 4 Feet long, i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips Slimline or Equivalent)	340.00	No		Each	
6	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)	90.00	No		Each	
7	N.S	Supply & installation of Ceiling Fans, 56" sweep copper winding i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Royl Fan/Deluxe, Indus/Supreme, Pak Fan/Deluxe or equivalent)	90.00	No		Each	
8	N.S	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)	25.00	No		Each	
9	N.S	Supply & installation of Wall Bracket Fan 24" (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	
10	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) & charcoal around copper strip I/c connecting with Electric machine. Complete in all respects as approved and as directed by the engineer incharge.	2.00	No		Each	
						<b>Total</b>	
1	7/30	<b>External Civil Work</b> Supplying and filling sand under floor; or plugging in wells.	1600.00	Cft		% Cft	
2	6/3	Cement concrete brick or stone ballast 1½ " to 2" (40 mm to 50 mm) gauge, in foundation and plinth:- Ratio 1:6:12	1800.00	Cft		% Cft	
3	10/41	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	3000.00	Sft		Per Sft	
4	6/5	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	
5	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)	100.00	Cft		Per Cft	



No.	Reff.	Description	Quantity		Rate	Unit	Amount
6	6/52	Providing and fixing precast Edge Kerb Stone (4"to 6" thick), of 3500 PSI Compressive Strength, embedded in PCC 1:2:4 over lean concrete 1:4:8 etc complete in all respect. With Painting 14" High (Main Path to Enterance)	400.00	Rft		Per Rft	
						<b>Total</b>	
1	3/42	<b>External Plumbing Work</b> 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	7500.00	Cft		%o Cft	
2	7/4	Pacca brick work in foundation & plinth:- cement, sand mortar:- Ratio 1:4	650.00	Cft		% Cft	
3	11/8	Cement plaster 1:3 upto 20' (6.00 mm) height:- i) 3/4" thick ii) 1/2" thick	1250.00 1250.00	Sft Sft		% Sft % Sft	
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	3500.00	Cft		%o Cft	
5	21/16	Providing and fixing 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.	20.00	No.		Each	
6	23/42	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: i) upto 6" i/d (150 mm) ii) upto 8" i/d (200 mm)	1.00 2.00	Con Con		P.Con P.Con	
7	23/43	Providing, laying, cutting, jointing, testing and disinfecting High Density Polyethylene Pipe (HDPE-100) working presure pipe in trenches. complete in all respects PN-20 (SDR-9) 3" (90mm)	250.00	Rft		Per Rft	
1	3/1-b	<b>External Electrical Work</b> Earthwork excavation underessed lead upto a single throw of Kassi, phaorah or shovel:- In ordinary soil.	3500.00	Cft		%o Cft	
2	24/13 d	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,  600/1000 volt armoured cable 150 mm (37/0.093)	175.00	M		Per M	
						<b>Total</b>	
1	N.S	<b>External Electrical (Non-Schedule)</b> Supply and installation of 70mm² -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	
						<b>Total</b>	

**The Islamia University of Bahawalpur**  
**Construction of New Academic Block at Bahawalnagar Campus**  
**Estimate Based on MRS January to June, 2023 BWN**  
**Estimate**

A)	Civil Work	
I	Schedule Items	Rs. _____
II	Non-Schedule Items	Rs. _____
	Total of Civil Work:	Rs. _____
B)	Electrical Work	
I	Schedule Items	Rs. _____
II	Non-Schedule Items	Rs. _____
	Total of Electrical Work	Rs. _____
C)	Plumbing Work	
I	Schedule Items	Rs. _____
II	Non-Schedule Items	Rs. _____
	Total of Plumbing Work	Rs. _____
D)	IT DATA CABELING SYSTEM	
I	Schedule Items	Rs. _____
	Total of IT DATA CABELING SYSTEM	Rs. _____
Total of (A,B,C) Rs.		_____
Add 5 % Punjab Sales Tax		
Add 3 % Contingency Charges		_____
Grand Total		

**The Islamia University of Bahawalpur**  
**Construction of New Academic Block at Bahawalnagar Campus**  
**Estimate**

**MRS January to June, 2023 BWN**

Sr. No.	Description	Ref.	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) By Excavator. In ordinary soil.	3/21.2aii	61202.17 Cft		%o Cft	
2	Spraying termite proofing by using liquid FMC / Biflex/ Terminex Exin /Ms Hextaror equivalent @ specified suspension concente rate (SC),Mixing Ability-HEXTAR with Ratio (1:250)=540 Sft or equivalent approved liquid applying with shower and certificate will be provided by the contract or for 10-years complete in all respect.as approved by the Engineer Incharge.	26/43	76466.96 Sft		P/ Sft	
3	Supplying and laying polythene sheet over D.P.C. under 'floors and on roofs, etc.  500 gauge (.005" thick)	26/37-ii	117465.10 Sft		Per Sft	
4	Dry rammed brick or stone ballast 1.5" to 2"guage	6/2	26233.37 Cft		% Cft	
5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): Ratio 1:4:8	6/5-i	8181.67 Cft		% Cft	
	ii) Ratio 1:2:4	6/5-f	12482.61 Cft		% Cft	
6	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) 60-Grade	6/12-c	284842.54 Kg		% Kg	
	Providing and laying reinforced cement concrete (includingprestressed concrete), using Ordinary Portland Cement / Sulphateresisting cement / Slag cement as may be required; coarse sand andscreened graded and washed aggregate, in required shape and design,including forms, moulds, shuttering, lifting, compacting,curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.): Reinforced cement concrete in 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)	6/6-aiii-2b	25108.00 Cft		Per Cft	
7						
8	Two coats of bitumen laid hot using 34 lbs. per %Sft, or 1.72 Kg per square meter over roof and blinded with sand at one Cft. per %Sft. (0.003 cu.m per sq.m)	9/12	35879.00 Sft		% Sft	

Sr. No.	Description	Ref.	Quantity	Rate	Unit	Amount
9	Providing and laying reinforced cement concrete (including prestressed concrete), using Ordinary Portland Cement / Sulphate resisting cement / Slag cement as may be required; 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.):-  (a) (i) Reinforced cement concrete in roof slab, beams, extra. columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- Type B (nominal mix 1: 1½: 3) i) Ground Floor ( 1: 1½: 3)  ii) First Floor+2nd floor ( 1: 1½: 3)	6/6-ai-2c  6/6-ai-2c+d	23289.14 Cft 25550.87 Cft		Per Cft Per Cft	
10	Filling, watering and ramming earth under floors:- with surplus earth from foundation, etc.	3/15i.	20400.72 Cft		%o Cft	
11	Filling, watering and ramming earth under floors:- with new earth excavated from outside, lead up to one chain (30 m) including transportation of earth lead up to 5 mile	3/15-ii+17abc	241756.83 Cft		%o Cft	
12	Supplying and filling sand under floor; or plugging in wells.	7/30	13583.98 Cft		% Cft	
13	Pacca brick work in foundation and plinth in:- Cement, sand mortar:- Ratio 1:4	7/4-i	19100.95 Cft		% Cft	
14	Providing and laying damp proof course of cement concrete 1:2: 4 (using cement, sand and shingle), including bitumen coating : (a) with one coat bitumen and one coat polythene sheet 500 gauge i) 1½" thick (40 mm)	6/36.a, i	1908.68 Sft		% Sft	
15	Pacca brick work in Cement, sand mortar:- Ratio 1:4 i) Ground Floor  ii) First Floor  iii) 2nd Floor	7/5-i 7/5-i+6i 7/5-i+6ii	22603.52 Cft 24580.02 Cft 4355.49 Cft		% Cft % Cft % Cft	
16	Extra for pacca brick work in staining of wells or any other circular masonry.	7/10	10719.21 Cft		% Cft	
17	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"	12/15-a	5188.00 Sft		Per Sft	
18	Cement plaster Ratio (1:4) Upto 20' heights a) 1/2" Thick  Cement plaster Ratio (1:4) Upto 20' height b) 3/4" Thick  ii) 3/4" Upto 20' to 30' heights	11/9-b 11/9-c 11/9c+11/28	116213.65 Sft 46382.32 Sft 11417.58 Sft		% Sft % Sft % Sft	
19	3/8" thick cement plaster under soffit of RCC roof slabs Ratio 1:3 upto 20' height i) Ground Floor	11/10-b	31455.29 Sft		% Sft	

Sr. No.	Description	Ref.	Quantity	Rate	Unit	Amount
	ii) First Floor	11/10-b +11/28	31675.15 Sft		% Sft	
20	First class brick walling laid in 1:3 cement sand mortar, reinforced with 1" (25 mm) wide 18 gauge hoop iron:- 4½" (113 mm) thick walling with hoop iron, bonding 12" (300 mm) apart.					
	i) Ground Floor +1st Floor	7/21-ii	10719.21 Sft		% Sft	
21	Providing and Laying Insulation material of Extruded Polystyrene XPS in Rigid Insulation/Foam Board on roof or walls,Density32-38Kg/M,compressive strength250-400kpa,R-value 5 per inch thickness and water absorption (1% by volume, cell structure colored cell) i/c cutting and placing in position. complete in all respect. 1.5" thick					
		9/45b	27779.84		% Sft	
22	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.					
		9/5.	27779.84		% Sft	
23	Cement concrete brick or stone ballast 1½ " to 2" (40 mm to 50 mm) gauge, in foundation and plinth:- Ratio 1: 4: 8					
		6/3b	2670.13 Cft		% Cft	
24	Providing and fixing terrace railing of 2" (50 mm) i/d conduit pipe 16 SWG, welded with 5/8"x5/8" (16x16 mm) square bar 2.75 ft. (838 mm) high fixed at 5" (125 mm) centre to centre, in reinforced cement concrete slab with suitable arrangement, complete in all respects, as per design and drawing.					
		25/35	701.00 Rft		P/Rft	
25	Providing and fixing stair railing of 2½" (63 mm) i/d G.I. pipe, welded with 5/8"x5/8" (16x16 mm) square M.S. bars 2'-9" (838 mm) high, fixed in each step, complete in all respects, including painting, polishing three coats.					
		25/39	350.22 Rft		P/Rft	
26	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					
		3/42-i	16518.84 Cft		%o Cft	
27	Providing and fixing marble strip of any shade for dividing the mosaic flooring into panels. Size 1½" x 3/8" (40 x 10 mm)					
		10/40-a	2622.00 Rft		P/Rft	
28	Providing and laying topping of cement concrete 1:2:4,including surface finishing and dividing in panels:- 1½"(40 mm) thick					
		10/15-c	9573.00 Sft		% Sft	
29	Preparing surface and painting with emulsion paint:- new surface 3 coats					
		13/31	179344.09 Sft		% Sft	
30	Extra for making and finishing benching floor manhole chamber, with 1/8" thick work in cement finish					
		21/9	108.42 Sft		% Sft	
31	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.					
		25/10+ 25/11	16381.50 Kg		% Kg	

Sr. No.	Description	Ref.	Quantity	Rate	Unit	Amount
32	Preparing surface and painting of doors and windows any type (including edges):- new surface 3 coats	13/5-c i+ii+iii	310.94 Sft		% Sft	
33	P/F3/4"dia heavy duty sliding bolt of specified material i/c thecost of hardware complete in all respect as approved and directed by the Engineer Incharge. i) Brass ,12" (300 mm) long ii) 10" (250 mm) long	12/61-B-ii 12/61-B-i	111.00 No 103.00 No		Each Each	
34	Second class tile roofing consisting of 4" (100 mm) earth and 1" (25 mm) mud plaster with Gobri leaping over ½" (13 mm) thick cement plaster 1:6 with 34 lbs. per %Sft or 1.72 Kg/sq.m of hot bitumen coating sand blinded, provided over one layer of 12"x6"x2" (300x150x50 mm) tiles laid in 1:6 cement mortar, including 1:2 cement pointing underneath of tiles complete including curing, etc.	9/2	930.06 Sft		% Sft	
35	Khuras on roof 2'x2'x6" (600 x 600 x 150 mm)	9/15	35.00 No		Each	
36	Providing and fixing theremopore (foamed polythene) sheet in horizontal and vertical expansion joints: 1" (25 mm) thick thermopore sheet	6/35.a	1536.00 Sft		Per Sft	
37	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	6/27-ii	1212.68 Rft		Per Rft	
38	Providing and layingTuffpavers,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	10/41.b	11423.00 Sft		Per Sft	
39	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	13/33.A,i +ii	46004.83 Sft		% Sft	
40	Providing and laying superb quality Porcelain glazed tiles flooring of MASTER brand of specified size in approved design,Color and Shade with adhesive/bond over 3/4"thick(1:3)cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respect as approved and directed by the Engineer Incharge.Full body Glazed tiles.600mmx 600 mm	10/42aii	53027.47 Sft		Per Sft	
41	Providing and fixing M.S. grill fabricated with MS Square polished Vertical/horizontal Bars of specified size @ 4" c/c ' passed through punched holes in MS Patti of 1-1/4"x1/8" i/c the cost of 1-1/4"x1/8" MS patti for Frame of windows and painting 3 coat complete in all respect as approved and directed by the Engineer Incharge. ( a) 3/8" Squar Bars	25/59.i	4477.56 Sft		Per Sft	

Sr. No.	Description	Ref.	Quantity	Rate	Unit	Amount
42	Providing and fixing 2 mm thick Double glazed aluminium windows of anodized / powder coated bronze colour partly fixed and party sliding using deluxe section of 100mm x 40mm x2 mm using frame (70501) at bottom, (70502) at Top & Side made of Pakistan Cables/Alcop having Leaf Frame size 31mm x 60mm x2 mm (70506) at Top & Bottom, 35mm x 60mm x2 mm (70505) at center and 35mm x 60mm x2 mm(70503) at sides , fixing 5 mm thick imported tinted double glass and air tight using double tape, chemical strips, Silicon using approved latches, wheels for channel, stopper, brush channel angle joint and hardware etc ( excluding the cost of Fly Proofing). Complete in all respect as approved and directed by the Engineer Incharge.	25/56.	4477.56 Sft		Per Sft	
43	Providing and fixing Aluminum Fly screen comprising of Fiber/Aluminum wire guaze (Malasian) fixed in aluminum frame of approved manufacturer brownze Colour/powder coated of size 1-1/2"x1/2" and 1.6 mm thick with rubber gasket i /c cost of Hardwares as approved and directed by the engineer incharge complete in all respect.	25/53.	2238.78		Per Sft	
44	Providing and fixing 1st class solid wood wrought joinery in panelled or panelled and glazed doors and windows of specified thickness with 1" thick solid wood panels with step and 1-1/2"x2-1/2" beadings all around the panels i/c the cost of Tower bolt and handles complete in all respect (Excluding the cost of sliding bolt,lock and chowkats (frame), etc.) as approved and directed by the Engineer Incharge.b) Oak/Ash wood Door (iii) 1-1/2" thick (40 mm)	12/7.b.iii	4306.00 Sft		Per Sft	
45	Providing and laying superb quality Ceramic tile floors of Master brand of specified size,Glossy/Matt/Texture of approved Color and Shade as perapproved design with adhesive bond, over 3/4" thick(1;2) cement sand plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects and as approved and directed by the Engineer Incharge.12"x18"/12"x24"/10"x24" /8"x24"/12"x36"	10/24.i	2804.00 Sft		Per Sft	
46	Providing and laying superb quality Ceramic tiles dado of Master brand of specified size,Glossy/Matt/Texture skirting / dado of approved Color and Shade with adhesive bond over 1/2"thick (1:2) cemen tplaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects and as approved and directed by the Engineer Incharge.12"x18"/12"x24"/10"x24" /8"x24"/12"x36"	10/25.i	8620.00 Sft		Per Sft	
47	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.	6/31.	350.00 P/Rft		Per Rft	
48	Providing and laying Prepolished Granite of specified thickness and shade of full width of approved quality laid with adhesive bond over 3/4" thick (1:2) cement sand mortor bed ,complete in all respect as approved and directed by the Engineer Incharge.3/4" thick	10/50.i	1742.00 Sft		Per Sft	
49	Extra for Bevelling charges of marble edge in approved design complete in all respects i/c the cost of Carbor and amdisc as approved and directed by the Engineer Incharge.	10/48.	450.00 Rft		Per Rft	

Sr. No.	Description	Ref.	Quantity	Rate	Unit	Amount
50	Providing and fixing false ceiling comprises of Gypsum board laminated sheet of size 2'x2'1/2'x3'1/3'x3' of specified design and thickness i/c cost of fixtures i.e. galvanized angle 1"x1" at wall sides, galvanized tee 1 1/4"x1" and 1 1/2"x1" both at 4' c/c (made of Taiwan CKM or equivalent), hanging with G.I /Copper wire 16SWG, G.I hook, Rawal Plug etc: complete in all respects as approved and directed by the Engineer Incharge. 9mm thick	9/48.iii	2500.00 Sft		Per Sft	
51	Providing and laying superb quality Porcelain glazed tiles of Master brand, skirting/dado of specified size, Color and Shade with adhesive/bond over 1/2" thick (1:2) cement plaster i/c the cost of and sealer for finishing the joints, cutting grinding complete in all respect as approved and directed by the Engineer Incharge. a) Full body Glazed Tile 600mm x 600 mm	10/43.a.ii	10500.00 Sft		Per Sft	
52	Preparing surface and Lacquer polish to reveal wooden grains by application of multiple coats of wood sealer, sand papering with different no of sandpapers and Lacquer to make glossy surface finish i/c the cost of cotton, thinner, wood sealer complete in all respects as approved and directed by the Engineer Incharge. (ii) Glossy Finish	13/44.ii	9500.00 Sft		Per Sft	
53	First class teak wood wrought joinery in doors and windows, etc. panelled, panelled and glazed or fully glazed and fixed in position, including chowkat, holdfast, tower bolt, chocks, rubber stop, cleats/G.I. clamps, chords with hooks, nails, screws, etc. complete (excluding sliding bolt and lock iii) 1 1/2" (40 mm) thick	12/3.iii	350.00 Sft		Per Sft	
54	Providing and applying wall putty of 2mm thick over plastered surface (new surface) to prepare the surface even and smooth complete in all respect.	13/46	179344.09 Sft		P/Sft	
55	Providing and fixing Vin board cabinet 3/4" thick with drawers 3" deep in 'Kitchen including termite proofing and polishing with synthetic enamel as specified, with handles hinges, screws etc., complete in all respects i) 2' deep, without back ii) 2' deep, with back	12/59	100.00 125.00 Sft		P/Sft P/Sft	
	<b>Civil Work (Non Shedule Item)</b>				<b>Total</b>	
1	Construction of Fiber Glass 3/4" thick Dom on already prepared rigid circular base of 1st Floor as per drawing & approved by the Engineer Incharge.	NS	1350.00 Sft		Per Sft	
2	Providing & Fixing uPVC door 1.25" thick wooden colour i/c hinges, kick plate, door handle with locking arrangement complete in all respects.	NS	1067.50 Sft		Per Sft	
3	Subsequent carriage of crushed stone aggregate total distance from Sargodha to Bahawalnagar IUB Campus at site of work average 278 KM	NS	110714.77 Cft		%Cft	
					<b>Total</b>	



Sr. No.	Description	Ref.	Quantity	Rate	Unit	Amount
	<b>Electrical Work (Schedule Items)</b>					
1	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)	24/3-i	24509.57 Rft		Per Rft	
	ii) 1" i/d (25 mm)	24/3-ii	37547.33 Rft		Per Rft	
	iii) 1.5" i/d (40 mm)	24/3-v	10500.00 Rft		Per Rft	
	iv) 2" i/d (50 mm)	24/3-vi	1550.00 Rft		Per Rft	
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")	24/10-i	79851.00 Rft		Per Rft	
	ii) 7/0.74 mm (7/0.029")	24/10-iii	38314.00 Rft		Per Rft	
	iii) 7/0.91 mm (7/0.036")	24/10-iv	18649.00 Rft		Per Rft	
	iv) 7/1.12 mm (7/0.044")	24/10-v	16800.00 Rft		Per Rft	
3	Supply and erection of single core PVC insulated, PVC sheathed copper conductor, 660/1100 volts grade cable, in prelaidd G.I. pipe/M.S. conduits/ PVC pipe/G.I. wire/trenches, etc (rate for cable only)					
	i) 16 mm (7/0.064")	24/12-iv	14750.00 Rft		Per Rft	
4	Supply and erection of copper conductor cables for services connection, in prelaidd pipe/G.I. wire/trenches, etc. (rate for cable only)PVC insulated, PVC sheathed 4 core, 600/1000 volt non armoured cable:-: 240 mm sq (37/0.114)					
		24/13.c	656.00 Rft		Per Rft	
5	Supply and erection of copper conductor cables for service connection, in prelaidd pipe/G.I. wire/trenches, etc. (rate for cable only):- PVC insulated, PVC sheathed 4 core, 660/1100 volt non armored cable:- 7/1.63 mm (7/0.064")					
		24/13-c.vii	1250.00 Rft		Per Rft	
6	Supply and erection of button holder.bakelite large size	24/39-i	1092.00 No		Each	
7	Supply and erection of ceiling rose, bakelite.	24/30	36.00 No		Each	
8	P/F floor mounted Electric Panel board of required depth and size, fabricarted with 14SWG M.S sheet (Indoor/Outdoor Type),derusting, Zinc Phosphated, finish with electro static powder coating in approved colour i/c the cost of Lock, Indication lights,thimbles, Copper Comb, Wiring, Netural & Earth Bar, glands,Current Transformers of specified capacity ,Door Earthing, Brass glands,bus bars,controles complete in all respects as approved and directed by the Engineer Incharge (Breakers will be Paid Separately).3.00 Ft deep 2500~3200A (4.5'x7'x3')					
		24/91.i,b, ii.	94.50 Cft		Per Cft	
9	Supplying,Installation and commissioning of MCCB (MouldedCase Circuit Breaker) of specified rating made of LEGRANDFRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKIJAPAN/ABB SWITZERL(with adjustable Thermal-MagneticTrip ) in prelaidd DBs and Panels i/c the cost of screws,necessary wire complete in all respect as approved anddirected by the Engineer InchargeTripple Pole With Adjustable Thermal-Magnetic Trip/Electronic Trip (60-100%)630-1600 Amp(50 KA)					
		24/88 a.x	1.00 No		Each	

Sr. No.	Description	Ref.	Quantity	Rate	Unit	Amount
10	Supplying ,Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip ) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge. There Pole					
	i-300-630 Amp(36 KA)	24/87.a.x	18.00		Each	
	ii-125-250Amp(25KA)	24/87.a.vi	18.00		Each	
11	Providing and fixing DB/Panel accessories of required rating and size i/c copper screws of approved brand Complete in all respect as approved and directed by the Engineer Incharge.	24/94				
	Selector Switch	i	1.00		Each	
	Current Transformer Coil (Make: Metelx/Fico)	ii	1.00		Each	
	Digital Voltmeter (0-600 Volt)	iii	1.00		Each	
	Digital Ammeter (0-9999 Amp)	iv	1.00		Each	
	LED Phase Indicator	v	1.00		Each	
	Push Button ON/OFF (Make: Schneider/Himal/Eqv.)	vi	1.00		Each	
	Auxiliary Contactor. (Make: Schneider/ Terasaki/ABB)	vii	1.00		Each	
	Control MCB S/P 6A (Make: Schneider/ Terasaki/ABB)	viii	1.00		Each	
	Exhaust Fan with Louvers (Make: Imported/Plastim)	xi	1.00		Each	
	Temperature Regulator 0~60C	xii	1.00		Each	
		No				
12	P/F wall mounted DB (Distribution Board) made with 16SWG Sheet (Recessded/Surface mounted Type), Powder coated Paint, i/c the cost of Lock, Indication lights,Thimble, Copper Comb, Wiring, Netural & Earth Bar, Door Earthing, Digital Voltmeter,Digital Ammeter,Volt Selector Switch,Ammeter selector switch,Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately).6" 75~100A	24/90-a.ii	45.00 Cft		Cft	
13	Supplying ,Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip ) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge. There Pole 15-100 Amp (10 KA,15KA)	24/87-a-ii	18.00		Each	
14	Suppling,Installation and comissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY /SIEMEN GERMAN/TERASAKI JAPAN/ ABB SWITZERLAND in prelaid DBs and Panels i/c the cost of screwes,necessary wire complete in all respect as approved and directed by the Engineer Incharge.6-40 Amp (6 KA)	24/86-a-ii	540.00 No		Each	
15	P/F PVC double layer Switch kit Faceplate with specified switch holes i/c the cost of switches / sockets / dimmer made of Hi-Life / Bush / Schenider, screws complete as approved and directed by the Engineer Incharge	24/103.a				
	<b>One way Gange Switch</b>					
	<b>Small</b>					
	03 Gange		75.00		Each	
	Three pin Light Plug 10/13 Amp		85.00		Each	
	Fan Dimmer		360.00		Each	
	Three Pin Power Plug 15-32 Amp		160.00		Each	
	<b>Large</b>					
	04 Gange		105.00		Each	
	05 Gange		105.00		Each	
	06 Gange		105.00		Each	
	<b>Two way Gange Switch small</b>					
	03 Gange		80.00		Each	
	04 Gange		80.00		Each	

Sr. No.	Description	Ref.	Quantity	Rate	Unit	Amount
16	Providing and fixing Copper winded Exhaust fan with louver and shutter made of Pak/Younas/G.F.C. i/c the cost of necessary cable and hardware for connection from ceiling rose complete as approved and directed by Engineer Incharge. <b>Plastic body 12 " dia</b>	24/102.a.ii	30.00		Each	
	<b>Steel body</b>					
	<b>18" sweep</b>		24.00		Each	
17	P/F PVC concealed Switch kit Box i/c the cost of screwscomplete as approved and directed by the Engineer Incharge	24/104				
	i) Small		710.00		Each	
	ii) Large		No			
			475.00		Each	
			No			
18	Supply and erection of PVC pipe for recessed wiring main andsubmain) purpose, i/c bends, specials etc in floor, walls or trenches:iii) 100 mm i/d	24/6	800.00		Per Rft	
			Rft			
					<b>Total</b>	
	<b>Electrical Work (Non-Schedule)</b>					
1	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)	N.S	360.00		Each	
			No			
2	Supply & installation of LED 2'x 2' Ceiling Panel Light 40W (220V~, 6500K) i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips RC09led 40S/865 or Equivalent)	NS	126.00		Each	
			No			
3	Supply & installation LED flood light 100 watt Philips quality including casing bracket, hanging arrangement complete in all respects as approved by the Engineer Incharge.	NS	24.00		Each	
			No			
4	Supply & installation of LED 24 W Down Light (Surface Mounted, 220V~) i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips Essential or Equivalent)	NS	600.00		Each	
			No			
5	Supply & installation of Strip (Patti) with 20W Led tube rod (220V~, 6500K) i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips or Equivalent)	NS	600.00		Each	
			No			
6	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)	NS	48.00		Each	
			No			
7	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)	NS	64.00		Each	
			No			
8	Supply & installation of Ceiling Fan 56" (99.99% Copper) i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Younis-Deluxe, Tamoor-Deluxe, Pakfan-Deluxe , SK or Equivalent)	NS	360.00		Each	
			No			
9	Providing and Laying ear thing 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. Complete in all respects as approved and as directed by the Engineer Incharge.	NS	20.00		Each	
			No			
					<b>Total</b>	

Sr. No.	Description	Ref.	Quantity	Rate	Unit	Amount
	<b>Plumbing Work (Schedule Items)</b>					
1	Providing and fitting glazed earthen ware water closet, squatter type (Orissa pattern), combined with foot rest. <b>Colored</b>	19/4.ii	40.00 No.		Each	
2	Providing and fitting glazed earthen ware wash hand basin 56x40 cm (22"x16") including bracket set, waste pipe and waste coupling, etc. ii) colored, with pedestal	19/7.ii	56.00 No.		Each	
3	Providing and fixing chromium plated bib cock:- ii) '1.5 cm (½")	19/27ii	52.00 No.		Each	
4	Providing and fitting plastic made low down flushing cistern 13.63 liter (3 gallons) capacity, including bracket set, copper connection, etc. complete. ii) colored	19/13.ii	40.00 No.		Each	
5	Providing and fixing stainless steel sink with drain board, size 120x60 cm (48"x24") including bracket set, waste pipe and waste coupling.	19/8.	4.00 No.		Each	
6	Providing and fixing chromium plated tee stop cock '15mm (½").	19/28.	144.00 No.		Each	
7	Providing and fixing glazed earthen ware flat back urinal.	19/11.	24.00 No.		Each	
8	Providing and fixing chromium plated pillar-cock, heavy:- ii) '1.5 cm (1/2")	19/24.ii	56.00 No.		Each	
9	Providing and fixing, chromium plated mixing valve, for wash hand basin, sink or shower.	19/30.	4.00 No.		Each	
10	Providing, laying, testing and commissioning of POLY PROPYLENE RANDOM COPOLYMER (PPRC) water supply pipe made of (Dadex/Popular/Beta/BBJ) with specified pressurating PN (PRESSURE NOMINAL) and conforming to DIN 8077-8078 code i/c cost of solvent, specials ,making jharries complete in all respectas approved and directedby Engineer Incharge.(Internal/External Diameters mentioned).  <b>PN-20 pipe</b> ii)(3/4") 25 mm iii)(1") 32 mm vi)(2") 63 mm	23/47.b ii	1650.00 2800.00 1600.00 Rft		P/Rft P/Rft P/Rft	

Sr. No.	Description	Ref.	Quantity	Rate	Unit	Amount
11	Providing and fixing, chromium plated toilet paper holder.	19/18.	4.00		Each	
12	Providing and fixing BATHROOM ACCESSORIES (7-piece set) MASTER BRAND - One Cosmetic Shelf, One Towel rod with bracket, One soap dish, One double hook, One towel ring, brush holder, toilet paper holder & looking glass i/c the cost of hardwares etc complete in all respect as approved and directed by the Engineer incharge	19/23.				
	Plastic soap dish		48.00		Each	
	Plastic toilet paper holder		32.00		Each	
	Plastic tower rail		64.00		Each	
	Looking glass with plastic frame		96.00		Each	
13	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. 9" i/d	21/1.iii	2650.00 Rft		P/Rft	
14	Providing ,fixing testing and commissioning of µ-PVC (Unplasticized polyvinyl Chloride) Nikasi /waste pipe make of dadex /Popular /Beta/BBJ plain/ socket ended conforming to code EN-1401 of specified SDR (Standard Dimension Ratio) including thecost of specials and Solvents complete in all respect as approved and directed by the Engineer Incharge.Type (SDR 32.5/SN-8)	19/47.				
	i)4"(110 mm)		3250.00		P/Rft	
	ii)3"(85 mm )		1625.00 Rft		P/Rft	
15	Providing and fitting European Coupled set of Water Closet (WC) and flushing Cistern of PORT Abr and (full size) i/c thecost of CP /rubber connection ,thimble ,seat cover and rawal bolts complete in all respects asapproved and directed by the Engineer Incharge.	19/3.	22.00		Each	
16	Providing and fixing CP bath Room Set made of Sonex /Master /Faisal comprising of 3-NoTee stop cocks ,lever type Basin Mixer,double Bib Cock,open wall shower,Muslim shower,waste coupling and bottle trap etc.complete in all respect as approved and directed by the Engineer incharge.	19/52.				
	i)Double Bib Cock		22.00		Each	
	ii)Open Type Wall Shower		4.00		Each	
	iii)Muslim shower		22.00		Each	
	iv)Waste Coupling		55.00 Nos		Each	
17	Providing, fixing, testing and commissioning of µ-PVC (Unplasticized polyvinyl Chloride) Nikasi /wastepipe Fittings make of dadex /Popular /Beta/ BBJ conformingto code EN-1401 including thecost of Solvents complete in all respect as approved and directed by the Engineer .Incharge.	19/49.				
	P-Trap 4" dia		250.00		Each	
	P-Trap 3" dia		250.00		Each	
	Multi-Trap 4" dia		50.00		Each	
	Multi-Trap 3" dia		50.00		Each	
	Vent Cowel 4" dia		36.00 Nos		Each	
					<b>Total</b>	

Sr. No.	Description	Ref.	Quantity	Rate	Unit	Amount
1	<b><u>Plumbing Work (Non Schedule)</u></b> Providing & Fixing looking glass 5 mm thick best quality including aluminum frame 2'x1' complete in all respects	N.S	384.00 Sft		Per Sft	
2	Providing & fixing floor trap Jali Stainlesssteel complete in all respect and as approved by the Engineer Incharge.	N.S	52.00 No		Each	
3	Providing & Fixing Floor trap jali plastic colored complete in all respects	N.S	40.00 No		Each	
					<b>Total</b>	
	<b><u>IT DATA CABELING SYSTEM</u></b>					
1	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)	24/3	4428.00  2132.00  2132.00  2031.25 Rft		Per Rft  Per Rft  Per Rft  Per Rft	
2	P/F PVC concealed Switch kit Box i/c the cost of screws complete as approved and directed by the Engineer Incharge i) Small  ii) Large	24/104	225.00 No 125.00 No		Each  Each	
3	Supply, Installation and commissioning of wiring with 4-pair data Cable, 23 AWG UL/EN listed cable * Conforming to following standards: TIA/EIA 568 / ISO/IEC 11801, in prelaidd conduit / cable tray from including all accessories, Manufacturer/OEM Authorization, Make: Schneider / i-connect UK/3M Corning USA/ D-Link/ Pollo Australian or equivalent <b>complete in all respect as approved and directed by Engineer Incharge.</b> <b>a) UTP (Unshielded Twisted pair)</b> (i) CAT-6 (Min.1G @ 250MHz or higher) (ii) CAT-6A (Min.1G/ 10G @ 500MHz or higher)	24/106	8500.00 8500.00 M		Per M Per M	
4	Supply, Installation and commissioning of Simple type, Dual Shutter Face Plates having fully populated I/O: Option 1:RJ-11 with RJ45/8P8C I/Os supporting either Cat6 or Cat6a cables as required by project Option 2: Two RJ45/8P8C I/Os supporting either Cat6 or Cat6a cables as required by project. (i) Single I/O (ii) Double I/O	24/131	700.00 700.00 No		Each Each	
				<b>Total</b>		

*The Islamia University of Bahawalpur*  
Construction of Girls Hostel # 2 at Baghdad-ul-Jadeed Campus

Estimate Based on MRS Jan-Jun, 2023

ABSTRACT OF COST

A)	<u>Schedule Items</u>	
i.	Civil Works	<u>Rs.</u>
ii.	Plumbing Works	<u>Rs.</u>
iii.	Electrical Works	<u>Rs.</u>
	Total of "A"	<u>Rs.</u>
B)	<u>Non-Schedule Items</u>	
i.	Civil Works	<u>Rs.</u>
ii.	Electrical Works	<u>Rs.</u>
	Total of "B"	<u>Rs.</u>
C)	External Work	
i.	External Civil Work	<u>Rs.</u>
ii.	External Plumbing Work	<u>Rs.</u>
iii.	External Electrical Work	<u>Rs.</u>
iv.	External Electrical Work (N.S)	<u>Rs.</u>
	Total of "C"	<u>Rs.</u>
	Total (A+B+C)	<u>Rs.</u>
D)	Add 03% Contingencies	<u>Rs.</u>
	Total (A+B+C+D)	<u>Rs.</u>
	Add 5% PST	<u>Rs.</u>
	Grand Total	<u>Rs.</u>

The Islamia University of Bahawalpur

Construction of Girls Hostel # 2 at Baghdad-ul-Jadeed Campus

MRS Jan-Jun, 2023

No.	Reff.	Description	Quantity		Rate	Unit	Amount
1	3/21 b (ii)	<b>Civil Work</b> 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>By Excavator (ii) In ordinary soil.</b>	97500.00	Cft		%o Cft	
2	3/18	Dressing and levelling of earhtwork to designed section, etc. Ordinary or hard soil	25000.00	Cft		%o Cft	
3	6/5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): i) Ratio 1: 2: 4 <b>(For Flooring)</b> ii) Ratio 1:4:8	5500.00 500.00	Cft Cft		% Cft % Cft	
4	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	4650.00	Cft		% Cft	
5	26/43	Spraying anti termite proofing by using liquid FMC Biflex 2.5%EC Mixing Ratio 1:50=137-Sft or using liquid MIRAGE Ali Akbar /RANGERS Auriga 5% SC Mixing Ability-HEXTAR Ratio 1:110=205-Sft or any other equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10-years complete in all respect .as approved by the Engineer Incharge	35000.00	Sft		Per Sft	
6	7/4 (i)	Pacca brick work in foundation and plinth in:-C/S mortar: <b>Ratio 1:6</b>	31500.00	Cft		% Cft	
7	6/36 a-ii	Providing and laying damp proof course of cement concrete 1:2: 4 (using cement, sand and shingle), including bitumen coating:-with 1 coat bitumen and 1 coat polythene sheet 500 gauge. <b>2" thick</b>	4700.00	Sft		% Sft	
8	6/38 a-ii-b	Providing and laying vertical damp proof course with cement sand 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)	3150.00	Sft		% Sft	
9	3/15	Filling, watering and ramming earth under floors:- i) with surplus earth from foundation, etc. ii) with new earth excavated from outside,lead upto <b>One (1) Mile</b>	97500.00 27500.00	Cft Cft		%o Cft %o Cft	
10	3/24 a+b	Compaction of earthwork (soft, ordinary or hard soil) :- a) Mixing, moistening earth to optimum moisture content in layers for compaction, etc. complete. b) Compaction by rolling with animal driven roller/hand rammed:soft or sandy soil	128500.00	Cft		%o Cft	
11	7/5	Pacca brick work in Cement, sand mortar:- Ratio 1:5 i) Ground Floor (7/5-i) ii) First Floor (7/5-i) + (7/6-i) ii) Second Floor	24500.00 23550.00 3400.00	Cft Cft Cft		% Cft % Cft % Cft	
12	7/5	Pacca brick work in Cement, sand mortar:- Ratio 1:4 i) Ground Floor (for 4.5" thick wall) ii) First Floor ii) Second Floor	700.00 980.00 850.00	Cft Cft Cft		% Cft % Cft % Cft	
13	11/10	Cement plaster 3/8" (10 mm) thick under soffit of R.C.C. roof slabs only, upto 20' height. Ratio 1:3	29500.00	Sft		% Sft	
14	11/9	Cement plaster 1:4 upto 20' (6.00 m) height:- i) ½" (13 mm) thick (11/9-b) ii) ¾" (20 mm) thick	66500.00 46700.00	Sft Sft		% Sft % Sft	
	+11/28 "	iii) ¾" (20 mm) thick 20' to 30' height iii) ¾" (20 mm) thick 30' to 40' height	23600.00 12500.00	Sft Sft		% Sft % Sft	



No.	Reff.	Description	Quantity		Rate	Unit	Amount
15	26/37	Supplying and laying polythene sheet over D.P.C. under floors and on roofs, etc. 500 gauge (.005" thick)	29500.00	Sft		Per Sft	
16	6/12	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 i) Deformed Bar 60-Grade	75000.00	Kg		% Kg	
17	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 (6/6(a-i)2 ii) First Floor (6/6(a-i)2+6/6-d)	8195.00 7750.00	Cft Cft		Per Cft Per Cft	
18	7/30	Supplying and filling sand under floor; or plugging in wells	53580.00	Cft		% Cft	
19	6/2	Dry rammed brick or stone ballast, 1½" to 2"( 40 mm to 50 mm) gauge.	12000.00	Cft		% Cft	
20	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	13500.00	Sft		% Sft	
21	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. (add 6% on composite rate) first floor	13500.00	Sft		% Sft	
22	12/50	P/F 1-1/2" thick <b>Solid Flush Door</b> comprising of 2.5 mm thick Commercial ply compressed over 2.5 mm thick commercial ply over 1" thick packing wood in style and rails under proper pressure i/c the cost of nails, tower bolt , handles, glue, sawing charges, Painting charges, sand papering and 3/8" thick matching wooden lipping as approved and directed by the Engineer Incharge.	2750.00	Sft		Per Sft	
23	3/13+ 3/16	Rehandling of earthwork plus additional lead or part thereof :-Upto a lead of 500 ft. (150 m).	18500.00	Cft		%o Cft	
24	25/51	Providing and fixing all types of partly fixed and partly openable glazed anodised bronze colour , 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 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. <b>2mm thickness.</b>	400.00	Sft		Per Sft	
25	25/52	Providing and fitting all types of glazed <b>Aluminium Windows</b> 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 including 5 'mm thick imported tinted glass with rubber gasket using approved standard latches hardware etc., as approved by the Engineer. <b>1.60 mm Thickness</b>	3350.00	Sft		Per Sft	

No.	Reff.	Description	Quantity		Rate	Unit	Amount
26	25/53	Providing and fixing <b>Aluminum Fly Screen</b> comprising of Fiber/ Aluminum wireguaze (Malasian) fixed in aluminum frame of approved manu facturer brownze Colour/powder coated of size 1-1/2"x1/2" and 1.6mm thick with rubber gasket i/c cost of Hard wares as approved and directed by the engineer incharge.	1675.00	Sft		Per Sft	
27	10/18	Extra labour for each storey above ground, for mosaic, tiles, conglomerate,stone and wooden floor. <b>(1st Floor Labour Only)</b>	18500.00	Sft		% Sft	
28	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.	890.00	Kg		% Kg	
29	11/23	Distempering:-a) new surface:- 3 Coats (For Ceiling)	30000.00	Sft		%Sft	
30	13/46	Providing and applying Wall Putty of 2mm thickness over plastered surface (new surface) to prepare the surface even and smooth complete in all respects.(On Interior Walls/Members Only)	87000.00	Sft		%Sft	
31	13/31	Preparing surface & painting with 3 coats <b>Emulsion Paint</b> complete in all respects	87000.00	Sft		% Sft	
32	13/5	Painting new surface: Preparing surface and <b>Painting of Doors and Windows</b> any type (including edges):- 3 coats	4800.00	Sft		% Sft	
33	13/33	Providing and Applying <b>Weather Shield Paint</b> of approved quality on external surface of building including preparation of surface, application of primer complete in all respect: new surface 2 coats	17800.00	Sft		% Sft	
	+13/41	i) upto 20' height	16300.00	Sft		% Sft	
	"	ii) 20' to 30 height	2250.00	Sft		% Sft	
		iii) 30' to 40 height					
34	12/7-a	Providing and fixing 1st class solid wood wrought joinery in panelled or panelled and glazed doors and windows of specified thickness with 1" thick solid wood panels with step and 1-1/2"x2-1/2" beadings all around the panels i/c the cost of Tower bolt and handles complete in all respect (Excluding the cost of sliding bolt,lock and chowkats (frame), etc.) as approved and directed by the Engineer Incharge <b>Incharge (i) 2" thick (50 mm) For Main Entrance Door</b>	120.00	Sft		Per Sft	
35	13/44	Preparing surface and <b>Lacquar polish</b> to reveal wooden grains by application of multiple coats of wood sealer , sand papering with different no of sandpapers and Lacquar to make glossy surface finish i/c the cost of cotton, thinner, wood sealer complete in all respects as approved and directed by the Engineer Incharge. <b>Glossy Finish (For Main Entrance Door)</b>	250.00	Sft		Per Sft	
36	10/15	Providing and laying topping of cement concrete 1:2:4, including surface finishing and dividing in panels:- 3" thick	3200.00	Sft		% Sft	
37	12/61	P/F 3/4" dia heavy duty sliding bolt of specified material i/c the cost of hardware complete in all respect as approved and directed by the Engineer Incharge.	90.00	No		Each	
	a	<b>Iron Sliding Bolt, 12" (300 mm) long</b>	2.00	No		Each	
	b	<b>Brass Sliding Bolt 18" (450 mm) long (Main Entrance Door)</b>					
38	10/40	Providing and fixing marble strip of any shade for dividing the mosaic flooring into panels Size 1½"x3/8" (40x10mm)	1650.00	Rft		Per Rft	

No.	Reff.	Description	Quantity		Rate	Unit	Amount
39	9/15	Khuras on roof 2'x2'x6" (600 x 600 x 150 mm)	20.00	No		Each	
40	10/41	Providing and laying <b>Tuff Pavers</b> , 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 (50% Grey / 50% Coloured) 60 mm thick	5000.00	Sft		P/Sft	
41	6/27-ii	Providing and fixing 6 in(150 mm). wide <b>Curved Sheet</b> of required shape fixed on face of the <b>Construction Joint</b> with G.I.screw,1.5 in (40 mm) long to cover construction joints vertically:- G.I. sheet, 18 SWG	550.00	Rft		Per Rft	
42	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)	13500.00	Sft		% Sft	
43	6/31	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.	180.00	Rft		Per Rft	
44	1/1	Carriage of 100 Cft. (2.83 cu.m) of all materials like stone aggregate, spawl, kankar lime (unslaked), surkhi, etc. or 150 Cft. (4.25 cu.m) of timber, by truck or by any other means owned by the contractor. <b>Lead 366 Km from Sargodha (or approved quarry to site of work)</b>	22500.00	Cft		% Cft	
45	10/42	Providing and laying superb quality <b>Porcelain glazed tiles flooring</b> of MASTER brand of specified size in approved design,Color and Shade with adhesive/bond over 3/4"thick (1:3) cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respect as approved and directed by the Engineer Incharge. <b>Full bodv Glazed tiles</b> (ii) 600mmx 600 mm	26800.00	Sft		Per Sft	
46	10/43	Providing and laying superb quality <b>Porcelain glazed tiles</b> of Master brand, <b>skirting/dado</b> of specified size, Color and Shade with adhesive/ bond over 1/2"thick (1:2) cement plaster i/c the cost of and sealer for finishing the joints, cutting grinding complete in all respect as approved and directed by the Engineer Incharge.  (ii) 600mmx 600 mm	3500.00	Sft		Per Sft	
47	10/47	Providing and laying 3/4" thick full width Prepolished <b>Marble slab for Vanities</b> / Shelves / Treads/ <b>Window Cills</b> , having Uniform texture (Spotless) with adhesive bond over 3/4" thick (1:2) cement sand mortor i/c the cost of matching sealer complete in all respects as approved and directed by the Engineer Incharge.  China Verona	1700.00	Sft		Per Sft	
48	10/48	Extra for <b>Bevelling charges of marble</b> edge in approved design complete in all respects i/c the cost of Carborandam disc as approved and directed by the Engineer Incharge.	500.00	Rft		Per Rft	
49	10/49	Extra cost for <b>Making Hole in Marble slab</b> for fixtures, Sink,burners, basin Vanities i/c cost of bevelling of internal edge as approved and directed by the Engineer Incharge.	40.00	No		Each	
50	10/50	Providing and laying <b>Prepolished Granite</b> of specified thickness and shade of full width of approved quality laid with adhesive bond over 3/4" thick (1:2) cement sand mortor bed , complete in all respect as approved and directed by the Engineer Incharge ( <b>for podium, Stair steps, Risers</b> ) (i) 3/4" thick	2250.00	Sft		Per Sft	
51	10/24	Providing and laying superb quality <b>Ceramic Tile Floors</b> of Master brand of specified size,Glossy/Matt/Texture of approved Color and Shade as per approved design with adhesive bond, over 3/4" thick (1:2) cement sand plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects and as approved and directed by the Engineer Incharge. 12"x18"/12"x24"/10"x24" /8"x24"/12"x36"	2550.00	Sft		Per Sft	

No.	Reff.	Description	Quantity		Rate	Unit	Amount
52	10/25	Providing and laying superb quality <b>Ceramic Tiles Dado</b> of Master brand of specified size,Glossy/Matt/Texture skirting/dado of approved Color and Shade with adhesive bond over 1/2"thick (1:2) cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects as approved and directed by the Engineer Incharge. 12"x18"/12"x24"/10"x24" /8"x24"/12"x36"	7300.00	Sft		Per Sft	
53	25/59	Providing and fixing M.S. grill fabricated with MS Square polished Vertical/horizontal Bars of specified size @ 4" c/c ' passed through punched holes in MS Patti of 1-1/4"x1/8" i/c the cost of 1-1/4"x1/8" MS patti for Frame of windows and painting 3 coat complete in all respect as approved and directed by the Engineer Incharge. (i) 3/8" Squar Bars	3250.00	Sft		Per Sft	
54	25/64	Providing and fixing 2'-9" high stair railing comprising of non magnetic (304) Stain less steel 2" dia pipe railing of 18 SWG welded with vertical posts of 2" dia stainless steel round/ Squar pipe @ 2-ft c/c fixed on alternate steps with 3" long steel screws and brass rawal plugs , 3-Nos diagonal stainless steel pipes of 1/2" dia passes through goties fixed on vertical post, i/c staines steel weldina. fixina & polishing complete in all respects as approved and	425.00	Sft		Per Sft	
55	12/62	Providing and fixing almirah shutter comprising of 3/4" thick both side Laminated/Glossy MDF (Karachi) sheet with 1"x3/4"deodar wood golla all around the leaf fixed on (3"x1") Kail wood frame i/c the cost of 1/2" full brass hinges, C.P.handles, catchers, screws, and rawal plugs, polishing/ paint ing 3 coat to gola & frame i/c the cost of locking arrangement complete in all respect as approved and directed by Engineer Incharge. <b>(for Rooms)</b>	4750.00	Sft		Per Sft	
56	9/48	Providing and fixing <b>False Ceiling</b> comprises of Gypsum board laminated sheet of size 2'x2'/2'x3'/ 3'x3'of specified design and thickness i/c cost of fixtures i.e galvanized angle 1" x 1" at wall sides, galvanized tee 1¼" x 1"and 1 ½" x 1" both at 4' c/c ( made of Taiwan CKM or equivalent), hanging with G.I/Copper wire 16 SWG, G.I hook, Rawal Plug etc: complete in all respects as approved and directed by the Engineer Incharge. 9 mm thick	1500.00	Sft		Per Sft	
57	12/17	Providing and fixing 2" wide <b>MS Chowkat Singel/Double Rebate</b> made of 16 SWG MS sheet pressed/welded / supported with M.S. flat 1-1/4"x1/8" i/c 6"long M.S. Flat 1"x1/8"hold fasts (6-Nos) welded/ screwed, punching of lock hole covered with MS Box,coating with antirust paint including filling with cement sand mortar (1:8) and embedding hold fast in cement concrete (1:2:4) ,complete in all respect as approved and directed by Engineer Incharge.  i) 15 " wide ii) 10.50 " wide iii) 5.5 " wide	120.00 22.50 750.00	Sft Sft Sft		Per Sft Per Sft Per Sft	
58	12/67	Providing and fixing <b>Auotomatic Hydraulic Operated Door Closer</b> imported heavy duty complete in all respect as approved and directed by the Engineer Incharge.	8.00	No		Each	
59	25/62	P/F <b>Iron Door</b> comprising of specified leaves made of 1-1/4" x1-1/4" x3/16" MS angle iron for leaf frame, diagonal and horizontal braces duly welded with MS. sheet 18-SWG i/c the cost of sliding bolt, tower bolt and painting 3-coats but excluding the cost of Chowkat complete in all respect as approved and directed by the Engineer incharge. <b>Double Leaf</b>	80.00	Sft		Per Sft	
60	18/23	Providing and fixing <b>M.S Grating</b> comprising of Angle Iron frame size 1.50" x 1.50" x 3/16" and 1/2" square bars duly welded @ 4" c/c, including painting charges etc complete in all respect.	200.00	Sft		Per Sft	

No.	Reff.	Description	Quantity		Rate	Unit	Amount
61	7/38	Providing and laying fair face Gutka cladding laid in (1:2) cement / red posso mortar having 1/4" thick groove finish i/c cost of 8 SWG wire in shape of 8 placed horizontally and vertically at 36" and 18" c/c respectively i/c cutting charges as per approved					
		drawing excluding carriage charges complete in all respect as approved and directed by the Engineer Incharge. 2-1/4" x 3" x 9"	22750.00	Sft		Per Sft	
62	12/58	Providing and fixing ornamental wooden architrave 3" x (1½" tapered to ¼") all along the door frame complete in all respects Deodar wood architrave	1020.00	Sft		Per Sft	
						<b>Total</b>	
1	N.S	<b>Civil Work (Non-Schedule)</b> 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.	28503.35	Cft		Per Cft	
2	N.S	Supplying, filling select fill material as specified in the drawing including all lead and lift dressing watering and compacting to produce in situ dry density not less than 95% modified AASHTO or as directed by the engineer	69171.20	Cft		Per Cft	
3	N.S	Providing and fixing UPVC Doors 38mm thickness i/c deluex matching color UPVC Frame (matt or glossy finish) having color (whiteGray-Marble Gray-Oak Wood- Dard Oak Wood, Coffee Wood Honey Pine Wood-Mahagony-Marry Gold-Chocolate Brown-Honey Dew) i/c all accessories complete in all respect as approval by the Engineer Incharge.	750.00	Sft		Per Sft	
4	N.S	Providing & Fixing Cabinet 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 sprit polish for gola complete in all respects as per design, drawing & pattern as approved by the engineer incharge. <b>(Down portion)</b>	450.00	Sft		P/Sft	
5	N.S	'Providing & Fixing Cabinet 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 & pattern as approved by the Engineer Incharge. <b>(Upper Portion)</b>	250.00	Sft		P/Sft	
6	N.S	Supply & installation Burner 36 Nozel with casing & round iron plate (pan) Complete in all respect and approved by Engineer Incharge.	5.00	No		Each	
7	N.S	Supply & installation Burner 24 Nozel with casing Complete in all respect and approved by Engineer Incharge.	1.00	No		Each	
8	N.S	Supply & installation Tandoor large size dia (25 Roti) complete in all respect and approved by Engineer inch.	1.00	No		Each	
9	N.S	Providing and fixing Steel Floor trap Jali complete in all respect as per specification and as approved by the Engineering Incharge.	60.00	No		Each	
10	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.	265.00	Sft		Per Sft	
						<b>Total</b>	

No.	Reff.	Description	Quantity		Rate	Unit	Amount
1	3/44	<b>Plumbing Work</b> Excavation of trenches in all kinds of soil, except cutting rock, for watersupply pipelines upto 5 ft. (1.5 m) depth from ground level, including trimming, dressing sides, leveling the beds of trenches to correct grade and cutting pits for joints, etc. complete in all respects.	8500.00	Cft		%oCft	
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:- 0 ft. to 7.0 ft. (0 to 2.10 m) depth	10720.00	Cft		%oCft	
3	19/23	Providing and fixing BATHROOM ACCESSORIES (7-piece set) i) Plastic soap dish ii) Plastic toilet paper holder iii) Plastic tower rail iii) Plastic shelf 60x13 cm (24:x5") with bracket and railing iv) Looking glass with plastic frame	16.00 8.00 16.00 4.00 4.00	No No No No No		Each Each Each Each Each	
4	19/1	Providing and fitting glazed earthen ware water closet European type, excluding seat and cover:- coloured	10.00	No		Each	
5	19/2	Providing and fixing, double seat and cover only. Bakelite	10.00	No		Each	
6	19/4	Providing and fitting glazed earthen ware water closet, squatter type (Orisa pattern), combined with foot rest. coloured	18.00	No		Each	
7	19/7	Providing and fitting glazed earthen ware wash hand basin 56x40 cm (22"x16") including bracket set, waste pipe and waste coupling, etc. i) white, with pedestal ii) Under Counter Vanity Basin	6.00 24.00	No No		Each Each	
8	19/8	Providing and fixing stainless steel sink with drain board, size 120x60 cm (48"x24") including bracket set, waste pipe and waste coupling.	4.00	No		Each	
9	19/52	Providing and fixing CP bath Room Set made of Sonex/Master/Faisal comprising of 3-No Tee stop cocks, lever type Basin Mixer, double Bib Cock, open wall shower, Muslim shower,waste coupling and bottle trap etc. complete in all respect as approved and directed by the Engineer incharge.  (i) 3 No Tee Stop Cock (ii) Lever Type Basin Mixer (iii) Double Bib Cock (iv) Muslim shower v) Open Type Wall Shower	90.00 24.00 6.00 10.00 20.00	No No No No No		Each Each Each Each Each	
10	23/47	P/laying, testing and commissioning of POLYPROPYLENE RANDOM COPOLYMER (PPRC) water supply pipe made of (Dadex/Popular/ Beta / BBJ) with specified pressure rating PN (PRESSURE NOMINAL)and conforming to DIN 8077-8078 code i/c cost of solvent, specials,making jharries complete in all respect as approved and directed by Engineer Incharge. <b>PN-20 pipe</b> (i) (3/4") 25 mm (ii) (1") 32 mm (iii) (1-1/4") 40 mm (iv) (1-1/2") 50 mm (v) (2") 63 mm	4000.00 3500.00 1000.00 500.00 500.00	Rft Rft Rft Rft Rft		Per Rft Per Rft Per Rft Per Rft Per Rft	

No.	Reff.	Description	Quantity		Rate	Unit	Amount
11	23/46	Providing and fixing CP heavy duty brass Ball valve with CP handle of specified diameter made of Faisal/Sonex / Master best quality or equivalent complete in all respect as approved and directed by the Engineer Incharge. i) 1" dia ii) 1-1/4" dia iii) 1.50" dia iv) 2" dia	8.00	No		Each	
			4.00	No		Each	
			4.00	No		Each	
			2.00	No		Each	
12	19/47	Providing, fixing, testing and commissioning of µ-PVC (Unplasticized polyvinyl Chloride ) Nikasi/ waste pipe make of dadex /Popular/Beta/BBJ plain /socket ended conforming to code EN-1401 of specified SDR (Standard Dimension Ratio) including the cost of specials and Solvents complete in all respect as approved and directed by the Engineer Incharge.  <b>Type (SDR 41/SN-4)</b> i) 3"(90 mm) ii) 4"(110 mm) iii) 6" (160 mm)	500.00	Rft		Per Rft	
			1200.00	Rft		Per Rft	
			600.00	Rft		Per Rft	
13	19/50	Providing, laying, testing and commissioning underground Yellow Polyethelene flexible gas pipe Tubing of required IPS(Iron Pipe Size) in the trenches , made of (Dadex/ Popular / Beta/ BBJ ) for Gas supply i/c the cost of solvent and specials complete as approved and directed by the Engineer Incharge.  <b>SDR-11</b> (ii) 1" (iii) 1.50"	1350.00	Rft		Per Rft	
			500.00	Rft		Per Rft	
14	19/49	Providing, fixing, testing and commissioning of µ-PVC (a) P-Trap (i) 4" dia (b) Vent Cowel (i) 3" dia	45.00	No		Each	
			15.00	No		Each	
15	19/13	Providing and fitting plastic made low down flushing cistern 13.63 litre (3 gallons) capacity, including bracket set, copper connection, etc. complete.	18.00	No		Each	
16	21/1	Providing and laying R.C.C. pipe, moulded with cement concrete 1:1½:3. with spidot socket or collar joint. etc. including cost of reinforcement, conforming to B.S. 5911: Part I: 1981, Class "L" i/c 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. <b>9" i/d</b>	500.00	Rft		Rft	
17	19/27	Providing and fixing chromium plated bib cock:- 1.5 cm (½")	17.00	No.		Each	
18	19/42	Providing and fitting chromium plated or oxidised, gas cock 6mm (1/4") Two way	5.00	No.		Each	
						<b>Total</b>	
1	24/3	<b>Electrical Work</b> 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)	2250.00	M		Per M	
			2300.00	M		Per M	
			250.00	M		Per M	
			450.00	M		Per M	
2	24/6 ii	Supply and erection of PVC pipe for recessed wiring main and submain) purpose, i/c bends, specials etc in floor, walls or trenches: 3" i/d (80 mm)	800.00	M		Per M	
3	24/10	Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe/M.S. conduit/G.I					

No.	Reff.	Description	Quantity		Rate	Unit	Amount
		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")	13500.00	M		Per M	
			5852.00	M		Per M	
			2550.00	M		Per M	
			3000.00	M		Per M	
			1600.00	M		Per M	
			2100.00	M		Per M	
			1000.00	M		Per M	
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) 7/1.63 mm (7/0.064") ii) 19/1.32 mm (19/0.052")	300.00	M		Per M	
			285.00	M		Per M	
5	24/30	Supply and erection of ceiling rose, bakelite.	100.00	No		Each	
6	24/103	P/F PVC double layer Switch kit Faceplate with specified switch holes i/c the cost of switches / sockets / dimmer made of Hi-Life / Bush / Schenider, screws complete as approved and directed by the Engineer Incharge <b>a) One way Gange Switch</b> <b>Small</b> i) 02 Gange ii) 03 Gange iii) Three pin Light Plug 10/13 Amp iv) Fan Dimmer v) Three Pin Power Plug 15-32 Amp <b>Large</b> i) 04 Gange ii) 05 Gange iii) 06 Gange	12.00	No		Each	
			12.00	No		Each	
			300.00	No		Each	
			90.00	No		Each	
			120.00	No		Each	
			50.00	No		Each	
			50.00	No		Each	
			120.00	No		Each	
7	24/104	P/F PVC concealed Switch kit Box i/c the cost of screws complete as approved and directed by the Engineer Incharge i) Small ii) Large	534.00	No		Each	
			220.00	No		Each	
8	24/102	Providing and fixing Copper winded Exhaust fan with louver and shutter made of Pak/Younas/G.F.C. i/c the cost of necessary cable and hardware for connection from ceiling rose complete as approved and directed by Engineer Incharge. <b>a) Plastic body</b> i) 12" dia	35.00	No		Each	
9	24/86	Suppling,Installation and comissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY /SIEMEN GERMAN/TERASAKI JAPAN/ ABB SWITZERLAND in prelaid DBs and Panels i/c the cost of screwes,necessary w wire complete in all respect as approved and directed by the Engineer Incharge Single Pole 6-40 Amp (6 KA)	550.00	No		Each	
10	24/87	Supplying ,Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip ) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge Tripple Pole i) 15-100 Amp(18 KA) ii) 125-250 Amp(18 KA) iii) 300-630 Amp(36 KA)	40.00	No		Each	
			40.00	No		Each	
			4.00	No		Each	



No.	Reff.	Description	Quantity		Rate	Unit	Amount
11	24/88 a-vi	Supplying,Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/ABB SWITZERL(with adjustable Thermal-Magnetic Trip ) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge <b>Tripple Pole With Adjustable Thermal-Magnetic Trip /Electronic Trip (60-100%)</b> 300-1000 Amp(36 KA)	2.00	No		Each	
12	24/94	Providing and fixing DB/Panel accessories of required rating and size i/c copper screws of approved brand Complete in all respect as approved and directed by the Engineer Incharge i) Selector Switch ii) Current Transformer Coil (Make: Metelx/Fico) iii) Digital Voltmeter (0-600 Volt) iv) Digital Ammeter (0-9999 Amp) v) LED Phase Indicator vi) Exhaust Fan with Louvers (Make: Imported/Plastim)	4.00 3.00 2.00 2.00 6.00 2.00	No No No No No No		Each Each Each Each Each Each	
13	24/90	P/F wall mounted DB (Distribution Board) made with 16SWG Sheet (Recessded/Surface mounted Type), Powder coated Paint, i/c the cost of Lock, Indication lights,Thimble, Copper Comb, Wiring, Netural & Earth Bar, Door Earthing, Digital Voltmeter, Digital Ammeter,Volt Selector Switch,Ammeter selector switch,Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately) i) 6" Deep 75~100A ii) 12" Deep 125~150A	50.00 20.00	Cft Cft		Per Cft Per Cft	
14	24/91 i-b	P/F floor mounted Electric Panel board of required depth and size, fabricarted with 14SWG M.S sheet (Indoor/Outdoor Type),derusting, zinc Phosphated, finish with electro static powder coating in approved colour i/c the cost of Lock, Indication lights, thimbles, Copper Comb, Wiring, Netural & Earth Bar, glands,Current Transformers of specified capacity ,Door Earthing, Brass glands,bus bars,controles complete in all respects as approved and directed by the Engineer Incharge (Breakers will be Paid Separately). <b>LT Switchboards</b> <b>3.00 Ft deep</b> 1600~2000A	180.00	Cft		Per Cft	
						<b>Total</b>	
1	N.S	<b>Electrical Work (Non-Schedule)</b> Supply & installation of LED 24W Down Light (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)	225.00	No		Each	
2	N.S	Supply & installation of LED 600 x 600mm 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 RC048B or Equivalent)	50.00	No		Each	
3	N.S	Supply & installation of LED search light 100W (220V~, CW or WW) with fitting arrangement for installation on walls, parapet, pole or etc. i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips BVP 151 or Equivalent)	10.00	No		Each	

No.	Reff.	Description	Quantity		Rate	Unit	Amount
4	N.S	Providing & Fixing of LED Wall Light 15 Watt 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. (WL008C OVAL Philips)	70.00	No		Each	
5	N.S	Supply & installation of Wall Mounted LED Batten Light 20W (220V~, 6500K) Size 4 Feet long, i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips Slimline or Equivalent)	340.00	No		Each	
6	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)	90.00	No		Each	
7	N.S	Supply & installation of Ceiling Fans, 56" sweep copper winding i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Royl Fan/Deluxe, Indus/Supreme, Pak Fan/Deluxe or equivalent)	90.00	No		Each	
8	N.S	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)	25.00	No		Each	
9	N.S	Supply & installation of Wall Bracket Fan 24" (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	
10	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) & charcoal around copper strip I/c connecting with Electric machine. Complete in all respects as approved and as directed by the engineer incharge.	2.00	No		Each	
						<b>Total</b>	
1	7/30	<b>External Civil Work</b> Supplying and filling sand under floor; or plugging in wells.	1600.00	Cft		% Cft	
2	6/3	Cement concrete brick or stone ballast 1½ " to 2" (40 mm to 50 mm) gauge, in foundation and plinth:- Ratio 1:6:12	1800.00	Cft		% Cft	
3	10/41	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	3000.00	Sft		Per Sft	
4	6/5	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	
5	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)	100.00	Cft		Per Cft	

No.	Reff.	Description	Quantity		Rate	Unit	Amount
6	6/52	Providing and fixing precast Edge Kerb Stone (4"to 6" thick), of 3500 PSI Compressive Strength, embeded in PCC 1:2:4 over lean concrete 1:4:8 etc complete in all respect. With Painting 14" High (Main Path to Enterance)	400.00	Rft		Per Rft	
						<b>Total</b>	
1	3/42	<b>External Plumbing Work</b> 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	7500.00	Cft		%o Cft	
2	7/4	Pacca brick work in foundation & plinth:- cement, sand mortar:- Ratio 1:4	650.00	Cft		% Cft	
3	11/8	Cement plaster 1:3 upto 20' (6.00 mm) height:- i) 3/4" thick ii) ½" thick	1250.00 1250.00	Sft Sft		% Sft % Sft	
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	3500.00	Cft		%o Cft	
5	21/16	Providing and fixing 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.	20.00	No.		Each	
6	23/42	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: i) upto 6" i/d (150 mm) ii) upto 8" i/d (200 mm)	1.00 2.00	Con Con		P.Con P.Con	
7	23/43	Providing, laying, cutting, jointing, testing and disinfecting High Density Polyethylene Pipe (HDPE-100) working presure pipe in trenches. complete in all respects PN-20 (SDR-9) 3" (90mm)	250.00	Rft		Per Rft	
1	3/1-b	<b>External Electrical Work</b> Earthwork excavation underessed lead upto a single throw of Kassi, phaorah or shovel:- In ordinary soil.	3500.00	Cft		%o Cft	
2	24/13 d	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,  600/1000 volt armoured cable 150 mm (37/0.093)	175.00	M		Per M	
						<b>Total</b>	
1	N.S	<b>External Electrical (Non-Schedule)</b> Supply and installation of 70mm² -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	
						<b>Total</b>	

**The Islamia University of Bahawalpur**  
**Construction of New Girls Hostel No 01 at Bahawalnagar Campus**  
**Estimate Based on MRS January to June, 2023 BWN**  
**Estimate**

A)	Civil Work	
I	Schedule Items	Rs. _____
II	Non-Schedule Items	Rs. _____
	Total of Civil Work:	Rs. _____
B)	Electrical Work	
I	Schedule Items	Rs. _____
II	Non-Schedule Items	Rs. _____
	Total of Electrical Work	Rs. _____
C)	Plumbing Work	
I	Schedule Items	Rs. _____
II	Non-Schedule Items	Rs. _____
	Total of Plumbing Work	Rs. _____
D)	IT DATA CABELING SYSTEM	
I	Schedule Items	Rs. _____
	Total of IT DATA CABELING SYSTEM	Rs. _____
Total of (A,B,C) Rs. _____		
Add 5 % PST		
Add 3 % Contingencies		
Grand Total _____		

**The Islamia University of Bahawalpur**  
**Construction of New Girls Hostel No 01 at Bahawalnagar Campus**

**Estimate**

**Estimate Based on MRS January to June, 2023 BWN**

No.	Description	Ref.	Quantity	Rate	Unit	Amount
	<b><u>Civil Work (Schedule Items)</u></b>					
1	Jungle clearance and removing within 100 ft. (30 m).light	3/47.a	46714.13 Sft		%Sft	
2	Excavation in foundation of building,bridges andother structures,including dagbelling, dressing,refilling around structure with excavated earth,watering and rammiing lead 'upto one chain (30m) and lift upto 5 ft. (1.5 m) By Excavator.In ordinary soil.	3/21-B-ii	58486.15 Cft		%oCft	
3	Spraying termite proofing by using liquid FMC / Biflex/ Terminex Exin /Ms Hextaror equivalent @ specified suspension concen- tate rate (SC),Mixing Ability-HEXTAR with Ratio (1:250)=540 Sft or equivalent approved liquid applying with shower and certificate will be provided by the contract or for 10-years complete in all respect.as approved by the Engineer Incharge.	26/43	62868.25 Sft		Per Sft	
4	Supplying and laying polythene sheet over D.P.C. under floors and on roofs, etc 500 gauge (.005" thick)	26/37-ii	66260.84 Sft		Per Sft	
5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): i) Ratio 1:4:8 ii)'Ratio ( 1 : 2 : 4 )	6/5-i 6/5.f	12668.64 5728.86 Cft		% Cft % Cft	
6	Fabrication of M.S. Reinforcement for cement concrete including bending, laying in position, making joints and fastening i/c cast of binding wire and labour charges for bending of steel reinforcement also includes removal of rust from bars - Deformed Bar Grade 60	6/12-c	135923.78 Kg		% Kg	
7	Providing and laying reinforced cement concrete (includingprestressed concrete), using Ordinary Portland Cement / Sulphateresisting cement / Slag cement as may be required; coarse sand andscreened graded and washed aggregate, in required shape and design,including forms, moulds, shuttering, lifting, compacting,curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.): - Reinforced cement concrete in 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)	6/6-aiii- 2b	19878.00 Cft		Per Cft	
8	Providing and laying reinforced cement concrete (includingprestressed concrete), using Ordinary Portland Cement / Sulphateresisting cement / Slag cement as may be required; coarse sand andscreened graded and washed aggregate, in required shape and design,including forms, moulds, shuttering, lifting, compacting,curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.): - Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects.	6/6-ai-2c				
i)	Ground Floor      Ratio ( 1:1½:3 )		26817.88		Per Cft	
ii)	First Floor        Ratio ( 1:1½:3 )	6/6-ai- 2c+d	1617.44 Cft		Per Cft	

No.	Description	Ref.	Quantity	Rate	Unit	Amount
9	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)	9/12	37330.70 Sft		%Sft	
10	Providing and fixing theremopore (foamed polythene) sheet in horizontal and vertical expansion joints: a) 1" (25 mm) thick thermopore sheet	6/35-a	1852.00 Sft		Per Sft	
11	Filling, watering and ramming earth under floors:- i) with surplus earth from foundation, etc.	3/15i.	19495.38 Cft		%oCft	
12	Filling, watering and ramming earth under floors:- ii) with new earth excavated from outside,lead upto one chain (30 m). Transportation of earth all types when the total distance,including the lead covered in the item of work,is more than 1000 ft.(300 m) lead upto 5 mile.	3/15- ii+17a,b ,c	195000.00 Cft		%oCft	
13	Pacca brick work in foundation and plinth in:- i) cement, sand mortar:- Ratio 1:4	7/4-i	16556.36 Cft		% Cft	
14	Providing and laying damp proof course of cement concrete 1:2:4 (using cement, sand and shingle), including bitumen coating :- (a) with one coat bitumen and one coat polythene sheet 500 gauge. ii) 1-1/2" thick (40 mm)	6/36ai	2518.85 Sft		%Sft	
15	Pacca brick work in ground floor:- i) cement, sand mortar:- Ratio 1:4 i) Ground Floor ii) First Floor	7/5-i 7/5-i+6i	26024.82 6543.94 Cft		% Cft % Cft	
16	First class brick walling laid in 1:3 cement sand mortar, reinforced with 1" (25 mm) wide 18 gauge hoop iron:- ii) 4½" (113 mm) thick walling with hoop iron, bonding 12" (300 mm) apart. i) Ground Floor	7/21-ii	6932.50 Sft		% Sft	
17	Supplying and filling sand under floor; or plugging in wells.	7/30.	12373.35 Cft		% Cft	
18	Dry rammed brick or stone ballast, 1½" to 2"( 40 mm to 50 mm) gauge.	6/2	12905.11 Cft		% Cft	
19	Cement concrete brick or stone ballast 1½ " to 2" (40 mm to 50 mm) gauge, in foundation and plinth:- (1:4:8)	6/3.b	3375.35 Cft		% Cft	
20	Cement plaster 3/8" (10 mm) thick under soffit of R.C.C. roof slabs only, upto 20' height. Ratio 1:3 i) Ground Floor up to 20' height ii) First Floor up to 30' height	11/10-b 11/10- b+11/28	37619.67 2286.81 Sft		% Sft % Sft	
21	Cement plaster 1:4 upto 20' (6.00 m) height: i) Upto 20' heights ii) a) ½" (13 mm) thick b) ¾" (20 mm) thick	11/9-b 11/9-c	106932.90 40883.01 Sft		% Sft % Sft	
22	Providing & Laying Insulation material of Extruded Polystyrene XPS in Rigid Insulation /Foam Board on roof or wall ,Density 32-38 Kg/M, Compressive Strenght 250-400 kpa,R-Value 5 per inch thickness & water obsorbtion (1% by volume, cell structure clored cell) i/c cutting & placing in position complete in all respect . b)1.5" Thick	9/45.b	29846.72 Sft		%Sft	

No.	Description	Ref.	Quantity	Rate	Unit	Amount
23	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.	9/5.	29846.72 Sft		%Sft	
24	Khuras on roof 2'x2'x6" (600 x 600 x 150 mm)	9/15.	27.00 No		Each	
25	Providing and fixing mild steel chowkat of doors, windows, C.window, etc. including holdfast, making and threading holes for hinges, etc. complete:- a) M.S. angle iron 1½"x 1½"x ¼" (40x40x6 mm) welded with M.S. flat 2"x ¼" (50 mm x 6 mm)	12/15-a	2765.00 Sft		Per Sft	
26	P/F1-1/2"thick solid flush door comprising of 2.5mm thick Deodar/Ash/Oak ply with grooves,compressed over 2.5mm thick commercial ply over 1"thick packing woodin style and rails under proper pressure i/c the cost of nails,tower bolt,handles,glue,sawing charges and lacquar polishing to show the grains of plyproperly,sand papering and 3/8" thick matching wooden lippingas approved and directed by the Engineer Incharge.	12/52.	1925.00 Sft		Per Sft	
27	Providing and fixing marble strip of any shade for dividing the mosaic flooring into panels. 'Size 1½" x 3/8" (40 x 10 mm)	10/40.a	2,566.36 Rft		Per Rft	
28	Providing and laying topping of cement concrete 1:2:4,including surface finishing and dividing in panels: 1.5"(40 mm) thick	10/15-c	8,576.97 Sft		% Sft	
29	Preparing surface and painting with emulsion paint:- New surface 3-coats	13/31. i+ii+ii	106932.91 Sft		%Sft	
30	Painting new surface:- Preparing surface and painting of doors and windows any type (including edges):- 3-Coats	13/5-c i+ii+ii	1925.00 Sft		%Sft	
31	Priming coat of chalk under distemper.	11/22.	39906.48 Sft		%Sft	
32	Distempering:- a) new surface:- iii) three coats	11/23.a. iii	39906.48 Sft		%Sft	
33	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	6/27-ii	1450.00 Rft		P/Rft	
34	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	13/33-a- i+ii	40883.01 Sft		% Sft	
35	P/F3/4"dia heavy duty sliding bolt of specified material i/c thecost of hardware complete in all respect as approved and directed by the Engineer Incharge. (B)Brass sliding bolt, 10" (250 mm) long	12/61-B- i	172.00 Nos		Each	

No.	Description	Ref.	Quantity	Rate	Unit	Amount
36	P/F3/4"dia heavy duty sliding bolt of specified material i/c thecost of hardware complete in all respect as approved and directed by the Engineer Incharge.(A) Iron i) Iron sliding bolt, 10" (250 mm) long  ii) Iron sliding bolt, 12" (300 mm) long	12/61-A.i  12/61-Ai.i	91.00  95.00 Nos		Each  Each	
37	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	10/41.b	6306.83 Sft		Per Sft	
38	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 1.6 mm 'thickness including 5 mm thick imported tinted glass with rubber gasket using approved standard latches, hardware etc., as approved by the Engineer in-charge.	25/52.	2720.00 Sft		Per Sft	
39	Providing and fixing Aluminum Fly screen comprising of Fiber/Aluminum wire guaze (Malasian) fixed in aluminum frame of approved manufacturer brownze Colour/powder coated of size 1-1/2"x1/2" and 1.6 mm thick with rubber gasket i /c cost of Hardwares as approved and directed by the engineer incharge complete in all respect.	25/53.	1360.00 Sft		Per Sft	
40	Providing and fixing G.I. wire gauze 22 SWG, 12x12 'meshes per square inch, (5x5 meshes in cm2) fixed to steel window, complete with flat iron patti ½"x 1/8" (13 mmx3 mm) and machine made screws.	12/55.	707.04 Sft		P/Sft	
41	Glazing with panes (16 oz. to 18 oz.,) including cost of putty.	12/45.b	65.90 Sft		P/Sft	
42	Providing and laying superb quality Porcelain glazed tiles flooring of MASTER brand of specified size in approved design,Color and Shade with adhesive/bond over 3/4"thick(1:3)cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respect as approved and directed by the Engineer Incharge.Full body Glazed tiles.400mmx 400 mm	10/42.a.i	26672.69 Sft		Per Sft	
43	Providing and fixing M.S. grill fabricated with MS Square polished Vertical/horizontal Bars of specified size @ 4" c/c ' passed through punched holes in MS Patti of 1-1/4"x1/8" i/c the cost of 1-1/4"x1/8" MS patti for Frame of windows and painting 3 coat complete in all respect as approved and directed by the Engineer Incharge. a) 3/8" Squar Bars	25/59.i	2720.00 Sft		Per Sft	



No.	Description	Ref.	Quantity	Rate	Unit	Amount
44	Providing and fixing 2" wide M S Chowkats in gel / double rebate made of 16 SWG MS sheet pressed /welded /supported with M.S.flat 1-1/4"x1/8"/i/c6" long M.S. Flat 1"x1/8" hold fasts (6-Nos) welded /screwed, punching of lock hole covered with MS Box, coating with anti rust paint including filling with cement sand mortar (1:8) and embedding hold fast in cement concrete (1:2:4), complete in all respect as approved and directed by Engineer Incharge.					
	(i) 10.50 " wide	12/17ii	548.00 Sft		Per Sft	
45	Providing and laying superb quality Ceramic tile floors of Master brand of specified size,Glossy/Matt/Texture of approved Color and Shade as perapproved design with adhesive bond, over 3/4" thick(1;2) cement sand plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects and as approved and directed by the Engineer Incharge.12"x18"/12"x24"/10"x24" /8"x24"/12"x36"	10/24.i	2225.07 Sft		P/Sft	
46	Providing and laying superb quality Ceramic tiles dado of Master brand of specified size,Glossy/Matt/Texture skirting / dado of approved Color and Shade with adhesive bond over 1/2"thick (1:2) cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects and as approved and directed by the Engineer Incharge.12"x18"/12"x24"/10"x24" /8"x24"/12"x36"	10/25.i	9153.85 Sft		Per Sft	
47	Providing and laying 3/8 inch thick superb class Multani tiles of specified size and design of approved Colorand Shade with adhesive bond ,over1/2" thick (1:2) cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects and as approved and directed by the Engineer Incharge.	.10/44	238.20 Sft		P/Sft	
48	Providing and laying Prepolished Granite of specified thickness and shade of full width of approved quality laid with adhesive bond over 3/4" thick (1:2) cement sand mortar bed ,complete in all respect as approved and directed by the Engineer Incharge.3/4" thick	10/50.i	2398.84 Sft		Per Sft	
49	Extra for Bevelling charges of marble edge in approved design complete in all respects i/c the cost of Carbor and amdisc as approved and directed by the Engineer Incharge.	10/48.	980.00 Rft		Per Rft	
50	Extra cost for making hole in Marble slab for fixtures,Sink,burners,basin Vanities i/c cost of bevelling of internal edge as approved and directed by the Engineer Incharge.	10/49.	24.00 Nos		Each	
51	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.	6/31.	350.00 P/Rft		Per Rft	

Estimate Based on MRS January to June, 2023 BWN						
No.	Description	Ref.	Quantity	Rate	Unit	Amount
52	Providing and fixing 2'-9" high stair railing comprising of non magnetic (304) Stain less steel 2" dia pipe railing of 18 SWG welded with vertical posts of 2" dia stainless steel round/ Squar pipe @ 2-ft c/c fixed on alternate steps with 3" long steel screws and brass rawal plugs , 3-Nos diagonal stainless steel pipes of 1/2" dia passes through goties fixed on vertical post, i/c stainles steel welding, fixing & polishing complete in all respects as approved and directed by the Engineer Incharge.	25/64	516.64 Rft		P/Rft	
53	Providing and laying superb quality Porcelain glazed tiles of Master brand, skirting/dado of specified size, Color and Shade with adhesive/bond over 1/2"thick (1:2) cement plaster i/c the cost of and sealer for finishing the joints, cutting grinding complete in all respect as approved and directed by the Engineer Incharge.a) Full body Glazed Tile 400mmx 400 mm	10/43.a.i	3377.80 Sft		Per Sft	
54	Providing and applying wall putty of 2 mm thickness over plastered surface (new surface) to prepare the surface even and smooth complete in all respect.	13/46	106932.91 Sft		% Sft	
55	Providing and fixing 1st class solid wood wrought joinery in panelled or panelled and glazed doors and windows of specified thickness with 1" thick solid wood panels with step and 1-1/2"x2-1/2" beadings all around the panels i/c the cost of Tower bolt and handles complete in all respect (Excluding the cost of sliding bolt,lock and chowkats (frame), etc.) as approved and directed by the Engineer InchargeOak/Ash wood Door(iii) 1-1/2" thick (40 mm)	12/7 b.iii	72.00 Sft		Per Sft	
56	Providing and fixing Vin board cabinet 3/4" thick with drawers 3"deep in 'Kitchen including termite proofing and polishing with synthetic enamel as specified, with handles hinges,screws etc., complete in all respects i) 2' deep,without back ii)2' deep,with back	12/59	46.20 67.90 Sft		Per Sft Per Sft	
					Total	
<b>Civil Work (Non-Schedule Items)</b>						
1	Making and erecting in position MS Grill Door with M.S box pipe 1.5"x1.5" main frame and M.S Box pipe 1/2"x1/2" , 18 SWG for grill, complete in all respects and duly painted as approved by the Engineer Incharge.(Fly/Mosquito Proof Grill Doors for Fixing at Gallaries openings)	NS	1190.25 Sft		Per Sft	
2	Providing and fixing 3/4" thick laminated Board shutter with 3/4" x 3/4" deodar wood beading wardrobe frame of 3"x1.5" M.S Box pipe 18 SWG including catchers, lock, CP hanger rod with hooks, hinges, french polish on beading complete in all respects including hanger rod etc. as approved by the Engineer Incharge.	NS	8316.00 Sft		Per Sft	
3	Providing & Fixing uPVC door 1.25" thick wooden colour i/c hinges, door handle with locking arrangement complete in all respects.	NS	857.50 Sft		Per Sft	

No.	Description	Ref.	Quantity	Rate	Unit	Amount
4	Providing & Fixing Magnet stopper for doors with screws best quality complete in all respects as approved by the Engineer Incharge.	NS	160.00 Nos		Each	
5	Preparing surface & applying siprit polish best quality complete in all respects as approved by the Engineer Incharge.	NS	144.00 Sft Sft		P/Sft	
6	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	NS	650.00 Rft		P/Rft	
7	Subsequent carriage of crushed stone aggregate total distance from Sargodha to Bahawalnagar IUB Campus at site of work average 278 KM		74947.48 Cft		% Cft	
					Total	
	<b>Electric Work (Schedule Items)</b>					
1	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) 20 mm i/d ii) 25 mm i/d iii) 1.5" i/d (40 mm) iv) 2" i/d (50 mm)	24/3-ii 24/3-iii 24/3-v 24/3-vi	8514.91 13277.60 150.00 1381.00 Rft		Per Rft Per Rft Per Rft Per Rft	
2	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). a) 250/440 volts, PVC insulated: i) 3/0.74 mm (3/0.029") ii) 3/0.91 mm (3/0.036") iii) 7/0.74 mm (7/0.029") iv) 7/0.91 mm (7/0.036") v) 7/1.12 mm (7/0.044") vi) 7/1.63 mm (7/0.064") vii) 19/1.32 mm (19/0.052")	24/10-i 24/10-ii 24/10-iii 24/10-iv 24/10-v 24/10-vi 24/10-viii	12668.00 34248.00 20125.00 10553.00 2208.00 6677.00 2460.00 Rft		Per Rft Per Rft Per Rft Per Rft Per Rft Per Rft Per Rft	
3	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. i) 185 mm (37/0.103") ii) 16 mm (7/0.064")	24/13-d 24/13	79.27 Per M 420.50 Per M		Per M Per M	
4	Providing and fixing Copper winded Exhaust fan with louver and shutter made of Pak/Younas/G.F.C. i/c the cost of necessary cable and hardware for connection from ceiling rose complete as approved and directed by Engineer Incharge. i .Plastic body 12 " dia ii Steel body 18" sweep	24/102.a.ii	15.00 3.00 No		Each Each	
5	P/F PVC double layer Switch kit Faceplate with specified switch holes i/c the cost of switches / sockets / dimmer made of Hi-Life / Bush / Schenider, screws complete as approved and directed by the Engineer Incharge One way Gange Switch	24/103.a				

No.	Description	Ref.	Quantity	Rate	Unit	Amount
6	<b>Small</b>					
	03 Gange		108.00		Each	
	Three pin Light Plug 10/13 Amp		110.00		Each	
	Fan Dimmer		103.00		Each	
	Three Pin Power Plug 15-32 Amp		96.00		Each	
	<b>Large</b>					
	04 Gange		57.00		Each	
	05 Gange		24.00		Each	
	06 Gange		32.00		Each	
	<b>Two way Gange Switch small</b>					
7	03 Gange		108.00		Each	
	04 Gange		11.00		Each	
	No					
	P/F floor mounted Electric Panel board of required depth and size, fabricarted with 14SWG M.S sheet (Indoor/Outdoor Type),derusting, zinc Phosphated, finish with electro static powder coating in approved colour i/c the cost of Lock, Indication lights,thimbles, Copper Comb, Wiring, Netural & Earth Bar, glands,Current Transformers of specified capacity ,Door Earthing, Brass glands,bus bars,controles complete in all respects as approved and directed by the Engineer Incharge (Breakers will be Paid Separately).3.00 Ft deep 2500~3200A)		105.00		Cft	
			Cft			
	Supplying ,Installation and comissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip ) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge. There Pole					
	i 300-630 Amp(36 KA)		2.00		Each	
	ii 125-250 Amp(25KA)		9.00		Each	
	iii) 15-100 Amp (10 KA,15KA)		20.00		Each	
			No			
8	P/F wall mounted DB (Distribution Board) made with 16SWG Sheet (Recessded/Surface mounted Type), Powder coated Paint, i/c the cost of Lock, Indication lights,Thimble, Copper Comb, Wiring, Netural & Earth Bar, Door Earthing, Digital Voltmeter,Digital Ammeter,Volt Selector Switch,Ammeter selector switch,Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately).(a) 6" deep75~100A					
			25.00		Cft	
			Cft			
	Suppling,Installation and comissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY /SIEMEN GERMAN/TERASAKI JAPAN/ ABB SWITZERLAND in prelaid DBs and Panels i/c the cost of screws,necessary wire complete in all respect as approved and directed by the Engineer Incharge.6-40 Amp (6 KA)					
			216.00		Each	
			No			
	Supply and erection of PVC pipe for recessed wiring main andsubmain) purpose, i/c bends, specials etc in floor, walls ortrenches:iii)					
	100 mm i/d		1312.00		Per Rft	
			Rft			

No.	Description	Ref.	Quantity	Rate	Unit	Amount
11	Supplying,Installation and commissioning of MCCB (MouldedCase Circuit Breaker) of specified rating made of LEGRANDFRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKIJAPAN/ABB SWITZERL(with adjustable Thermal-MagneticTrip ) in prelaiddBs and Panels i/c the cost of screws,necessary wire complete in all respect as approved anddirected by the Engineer InchargeTripple Pole With Adjustable Thermal-Magnetic Trip/Electronic Trip (60-100%)630-1600 Amp(50 KA)	24/88-a-x	1.00 No		Each	
12	P/F PVC concealed Switch kit Box i/c the cost of screwscomplete as approved and directed by the Engineer Incharge i) Small ii) Large	24/104	250.00 150.00 No		Each Each	
					Total	
	Electric Work (Non-Schedule Items)					
1	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)	NS	103.00 No		Each	
2	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	NS	103.00 No		Each	
3	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)	NS	8.00		Each	
4	Supply & installation of LED 24 W Down Light 6500 K ,2000 Lumen (Surface Mounted, 220V~) i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips Essential or Equivalent)	NS	128.00 Nos		Each	
5	Supply & installation of Strip (patti) with 20W Led tube rod (220V~, 6500K) i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips or Equivalent)	NS	340.00 No.		Each	
6	Supply & installation LED flood light 100 watt Philips quality including casing bracket, hanging arrangement complete in all respects as approved by the Engineer Incharge.	NS	16.00 No		Each	
7	Supply and Installation of Stainless Steel/Aluminum Exhaust Hood with exhaust fan (170W) and 4 x20W halogen lamp i/c any other accessories required at site. Complete in all respects as approved by Engineer Incharge. (Canon-HD-GL9011 or Equivalent)	NS	1.00 No		Each	

No.	Description	Ref.	Quantity	Rate	Unit	Amount
8	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. Complete in all respects as approved and as directed by the engineer incharge.	NS	2.00 No		Each	
					Total	
	Plumbing Work (Schedule Items)					
1	Providing and fitting glazed earthen ware water closet squatter type (Orissa pattern) combined with foot rest. (Coloured).	19/4ii.	21.00 No		Each	
2	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 ii. Under Counter Vanity Basin	19/7.i 19/7.v	6.00 20.00 No		Each Each	
3	Providing and Fixing Crommium plated bib cock 1/2" dia.	19/27.ii	38.00 Nos		Each	
4	Providing and fixing chromium plated pillar-cock, heavy:- ii) (1/2")	19/24.ii	6.00 No.		Each	
5	Providing and fixing chromium plated tee stop cock '15mm (½").	19/28	34.00 No.		Each	
6	Providing and fixing BATHROOM ACCESSORIES (7-piece set) MASTER BRAND - One Cosmetic Shelf, One Towel rod with bracket, One soap dish, One double hook, One towel ring, brush holder, toilet paper holder & looking glass i/c the cost of hardwares etc complete in all respect as approved and directed by the Engineer incharge i) plastic soap dish ii) plastic toilet paper holder iii) plastic towel rail	19/23.	12.00 12.00 12.00 No.		Each Each Each	
7	Providing and fitting plastic made low down flushing cistern 13.63 litre (3 gallons) capacity, including bracket set, copper connection, etc. complete. ii) coloured	19/13.ii	25.00 No.		Each	
8	Providing and fixing, chromium plated mixing valve, for wash hand basin, sink or shower, as approved by the engineer in charge	19/30.	26.00		Each	
9	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	3/42-i	8848.48 Cft		%0 Cft	
10	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 i) 310 mm (12") i/d	21/3 i	1,665.00 Rft		P/Rft	
11	Cement plaster 1:3 upto 20' (6.00 m) height:- b) ½" (13 mm) thick	11/8.b	5676.00 Sft		% Sft	

No.	Description	Ref.	Quantity	Rate	Unit	Amount
12	Constructing standard gully grating chamber, 3'x2½' (900x750 mm), with chinaware trap as per PHED Drawing STD/PD No. 3 of 1977, complete in all respects.	21/8.	6.00 No		Each	
13	Extra for making and finishing benching floor work in manhole chamber, with 1/8" (3 mm) thick cement finish.	21/9.	150.00 Sft		% Sft	
14	Providing, fixing, testing and commissioning of µ-PVC (Unplasticized polyvinyl Chloride) Nikasi /wastepipe Fittings make of dadex /Popular /Beta/ BBJ conformingto code EN-1401 including thecost of Solvents complete in all respect as approved and directed by the Engineer Incharge.  P-Trap 4" dia P-Trap 3" dia Multi-Trap 4" dia Multi-Trap 3" dia Vent Cowel 4" dia	19/49.	69.00 69.00 22.00 22.00 20.00 Nos		Each Each Each Each Each	
15	Providing ,fixing testing and commissioning of µ-PVC (Unplasticized polyvinyl Chloride) Nikasi /waste pipe make of dadex /Popular /Beta/BBJ plain/ socket ended conforming to code EN-1401 of specified SDR (Standard Dimension Ratio) including thecost of specials and Solvents complete in all respect as approved and directed by the Engineer Incharge.Type (SDR 32.5/SN-8)  i)4" (110 mm) ii)3" (85 mm )	19/47.	1905.07 750.00 Rft		P/Rft P/Rft	
16	Providing, laying, testing and commissioning of POLY PROPYLENE RANDOM COPOLYMER (PPRC) water supply pipe made of (Dadex/Popular/Beta/BBJ) with specified pressurerating PN (PRESSURE NOMINAL) and conforming to DIN 8077-8078 code i/c cost of solvent, specials ,making jharries complete in all respectas approved and directedby Engineer Incharge.(Internal/External Diameters mentioned).  <b>PN-20 pipe</b> ii)(3/4") 25 mm iii)(1") 32 mm vi)(2") 63 mm	23/47.bi i	523.00 1211.00 1050.00 Rft		P/Rft P/Rft P/Rft	
17	Providing and fixing CP bath Room Set made of Sonex/ Master /Faisal comprising of 3-NoTee stop cocks ,lever type Basin Mixer,double Bib Cock,open wall shower,Muslim shower,waste coupling and bottle trap etc.complete in all respect as approved and directed by the Engineer incharge.  i)Double Bib Cock ii)Open Type Wall Shower iii)Muslim shower iv)Waste Coupling	19/52.	25.00 25.00 25.00 25.00 No		Each Each Each Each	
18	Providing and fixing stainless steel sink with drain board, size 120x60 cm (48"x24") including bracket set, waste pipe and waste coupling.	19/8.	6.00 No.		Each	

No.	Description	Ref.	Quantity	Rate	Unit	Amount
19	Providing and fitting one piece European Coupled set of Water Closet (WC) and flushing Cistern of PORT Abrand (fullsize) i/c the cost of CP /rubber connection ,thimble,normal seat cover and rawal bolts completein all respects as approved and directed by the Engineer Incharge	19/3.	4.00 No		Each	
	<b><u>Plumbing Work (Non-Schedule Items)</u></b>				<b>Total</b>	
1	P/F Looking glass imported quality complete in all respect and as approved by the Engineer Incharge.	NS	111.00 Sft		P/ Sft	
2	Providing & fixing floor trap Jali plastic complete in all respect and as approved by the Engineer Incharge.	NS	33.00 No		Each	
3	Providing & fixing floor trap Jali Stainlesssteel complete in all respect and as approved by the Engineer Incharge.	NS	37.00 No		Each	
	<b><u>IT DATA CABELING SYSTEM</u></b>				<b>Total</b>	
1	Supply and erection of PVC pipe for wiring recessed in wallsincluding inspection boxes, pull boxes, hooks, cuttingjharries,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)	24/3	525.00 530.00 250.00 260.00 Ft		Per Ft Per Ft Per Ft Per Ft	
2	P/F PVC concealed Switch kit Box i/c the cost of screwscomplete as approved and directed by the Engineer Incharge i) Small  ii) Large	24/104	50.00 No 50.00 No		Each Each	
3	Supply, Installation and commissioning of wiring with 4-pairdata Cable, 23 AWG UL/EN listed cable * Conforming tofollowing standards: TIA/EIA 568 / ISO/IEC 11801, in prelaidconduit / cable tray from including all accessories, Manufacturer/OEM Authorization, Make: Schneider / i-connectUK/3M Corning USA/ D-Link/ Pollo Australian or equivalentcomplete in all respect as approved and directed byEngineer Incharge.	24/106				
	<b>a) UTP (Unshielded Twisted pair)</b> (i) CAT-6 (Min.1G @ 250MHz or higher) (ii) CAT-6A (Min.1G/ 10G @ 500MHz or higher)		600.00 600.00 M		Per M Per M	
4	Supply, Installation and commissioning of Simple type, DualShutter Face Plates having fully populated I/O: Option 1:RJ-11 withRJ45/8P8C I/Os supporting either Cat6 or Cat6a cables asrequired by project Option 2: Two RJ45/8P8C I/Os supportingeither Cat6 or Cat6a cables as required by project.  (i) Single I/O (ii) Double I/O	24/131	100.00 100.00 No		Each Each	
				<b>Total</b>		



**The Islamia University of Bahawalpur**  
**Construction of New Girls Hostel No 02 at Bahawalnagar Campus**  
**Estimate Based on MRS January to June, 2023 BWN**  
**Estimate**

A)	Civil Work	
I	Schedule Items	Rs. _____
II	Non-Schedule Items	Rs. _____
	Total of Civil Work:	Rs. _____
B)	Electrical Work	
I	Schedule Items	Rs. _____
II	Non-Schedule Items	Rs. _____
	Total of Electrical Work	Rs. _____
C)	Plumbing Work	
I	Schedule Items	Rs. _____
II	Non-Schedule Items	Rs. _____
	Total of Plumbing Work	Rs. _____
D)	IT DATA CABELING SYSTEM	
I	Schedule Items	Rs. _____
	Total of IT DATA CABELING SYSTEM	Rs. _____
Total of (A,B,C) Rs. _____		
Add 5 % PST		
Add 3 % Contingencies		
Grand Total _____		

**The Islamia University of Bahawalpur**  
**Construction of New Girls Hostel No 02 at Bahawalnagar Campus**  
**Estimate**

Estimate Based on MRS January to June, 2023 BWN

No.	Description	Ref.	Quantity	Rate	Unit	Amount
	<b><u>Civil Work (Schedule Items)</u></b>					
1	Jungle clearance and removing within 100 ft. (30 m).light	3/47.a	46714.13 Sft		%Sft	
2	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 (30m) and lift upto 5 ft. (1.5 m) By Excavator. In ordinary soil.	3/21-B-ii	58486.15 Cft		%oCft	
3	Spraying termite proofing by using liquid FMC / Biflex/ Terminex Exin /Ms Hextaror equivalent @ specified suspension concentrate rate (SC), Mixing Ability-HEXTAR with Ratio (1:250)=540 Sft or equivalent approved liquid applying with shower and certificate will be provided by the contract or for 10-years complete in all respect.as approved by the Engineer Incharge.	26/43	62868.25 Sft		Per Sft	
4	Supplying and laying polythene sheet over D.P.C. under floors and on roofs, etc 500 gauge (.005" thick)	26/37-ii	66260.84 Sft		Per Sft	
5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): i) Ratio 1:4:8 ii)'Ratio ( 1 : 2 : 4 )	6/5-i 6/5.f	12668.64 5728.86 Cft		% Cft % Cft	
6	Fabrication of M.S. Reinforcement for cement concrete including bending, laying in position, making joints and fastening i/c cast of binding wire and labour charges for bending of steel reinforcement also includes removal of rust from bars - Deformed Bar Grade 60	6/12-c	135923.78 Kg		% Kg	
7	Providing and laying reinforced cement concrete (including prestressed concrete), using Ordinary Portland Cement / Sulphate resisting cement / Slag cement as may be required; coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.): - Reinforced cement concrete in 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)	6/6-aiii- 2b	19878.00 Cft		Per Cft	

No.	Description	Ref.	Quantity	Rate	Unit	Amount
8	Providing and laying reinforced cement concrete (including prestressed concrete), using Ordinary Portland Cement / Sulphate resisting cement / Slag cement as may be required; coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):- Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects.					
i)	Ground Floor      Ratio ( 1:1½:3 )	6/6-ai-2c	26817.88		Per Cft	
ii)	First Floor         Ratio ( 1:1½:3 )	6/6-ai-2c+d	1617.44 Cft		Per Cft	
9	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)	9/12	37330.70 Sft		%Sft	
10	Providing and fixing thermopore (foamed polythene) sheet in horizontal and vertical expansion joints: a) 1" (25 mm) thick thermopore sheet	6/35-a	1852.00 Sft		Per Sft	
11	Filling, watering and ramming earth under floors:- i) with surplus earth from foundation, etc.	3/15i.	19495.38 Cft		%oCft	
12	Filling, watering and ramming earth under floors:- ii) with new earth excavated from outside, lead upto one chain (30 m). Transportation of earth all types when the total distance, including the lead covered in the item of work, is more than 1000 ft. (300 m) lead upto 5 mile.	3/15- ii+17a,b, c	195000.00 Cft		%oCft	
13	Pacca brick work in foundation and plinth in:- i) cement, sand mortar:- Ratio 1:4	7/4-i	16556.36 Cft		% Cft	
14	Providing and laying damp proof course of cement concrete 1:2:4 (using cement, sand and shingle), including bitumen coating :- (a) with one coat bitumen and one coat polythene sheet 500 gauge. ii) 1-1/2" thick (40 mm)	6/36ai	2518.85 Sft		%Sft	
15	Pacca brick work in ground floor:- i) cement, sand mortar:- Ratio 1:4	7/5-i	26024.82		% Cft	
i)	Ground Floor	7/5-i+6i	6543.94		% Cft	
ii)	First Floor		Cft			
16	First class brick walling laid in 1:3 cement sand mortar, reinforced with 1" (25 mm) wide 18 gauge hoop iron:- ii) 4½" (113 mm) thick walling with hoop iron, bonding 12" (300 mm) apart.	7/21-ii	6932.50 Sft		% Sft	
i)	Ground Floor					
17	Supplying and filling sand under floor; or plugging in wells.	7/30.	12373.35 Cft		% Cft	
18	Dry rammed brick or stone ballast, 1½" to 2" (40 mm to 50 mm) gauge.	6/2	12905.11 Cft		% Cft	
19	Cement concrete brick or stone ballast 1½ " to 2" (40 mm to 50 mm) gauge, in foundation and plinth:- (1:4:8)	6/3.b	3375.35 Cft		% Cft	

No.	Description	Ref.	Quantity	Rate	Unit	Amount
20	Cement plaster 3/8" (10 mm) thick under soffit of R.C.C. roof slabs only, upto 20' height. Ratio 1:3					
i)	Ground Floor up to 20' height	11/10-b	37619.67		% Sft	
ii)	First Floor up to 30' height	11/10-b+11/28	2286.81 Sft		% Sft	
21	Cement plaster 1:4 upto 20' (6.00 m) height:					
i)	Upto 20' heights					
ii)	a) 1/2" (13 mm) thick	11/9-b	106932.90		% Sft	
	b) 3/4" (20 mm) thick	11/9-c	40883.01 Sft		% Sft	
22	Providing & Laying Insulation material of Extruded Polystyrene XPS in Rigid Insulation /Foam Board on roof or wall ,Density 32-38 Kg/M, Compressive Strenght 250-400 kpa,R-Value 5 per inch thickness & water obsorbtion (1% by volume, cell structure clored cell) i/c cutting & placing in position complete in all respect . b)1.5" Thick	9/45.b	29846.72 Sft		%Sft	
23	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.	9/5.	29846.72 Sft		%Sft	
24	Khuras on roof 2'x2'x6" (600 x 600 x 150 mm)	9/15.	27.00 No		Each	
25	Providing and fixing mild steel chowkat of doors, windows, C.window, etc. including holdfast, making and threading holes for hinges, etc. complete:- a) M.S. angle iron 1½"x 1½"x ¼" (40x40x6 mm) welded with M.S. flat 2"x ¼" (50 mm x 6 mm)	12/15-a	2765.00 Sft		Per Sft	
26	P/F1-1/2"thick solid flush door comprising of 2.5mm thick Deodar/Ash/Oak ply with grooves,compressed over 2.5mm thick commercial ply over 1"thick packing woodin style and rails under proper pressure i/c the cost of nails,tower bolt,handles,glue,sawing charges and lacquar polishing to show the grains of plyproperly,sand papering and 3/8" thick matching wooden lippingas approved and directed by the Engineer Incharge.	12/52.	1925.00 Sft		Per Sft	
27	Providing and fixing marble strip of any shade for dividing the mosaic flooring into panels. 'Size 1½" x 3/8" (40 x 10 mm)	10/40.a	2,566.36 Rft		Per Rft	
28	Providing and laying topping of cement concrete 1:2:4,including surface finishing and dividing in panels: 1.5"(40 mm) thick	10/15-c	8,576.97 Sft		% Sft	
29	Preparing surface and painting with emulsion paint:- New surface 3-coats	13/31. i+ii+ii	106932.91 Sft		%Sft	
30	Painting new surface:- Preparing surface and painting of doors and windows any type (including edges):- 3-Coats	13/5-c i+ii+ii	1925.00 Sft		%Sft	
31	Priming coat of chalk under distemper.	11/22.	39906.48 Sft		%Sft	

No.	Description	Ref.	Quantity	Rate	Unit	Amount
32	Distempering:- a) new surface:- iii) three coats	11/23.a.i ii	39906.48 Sft		%Sft	
33	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	6/27-ii	1450.00 Rft		P/Rft	
34	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	13/33-a- i+ii	40883.01 Sft		% Sft	
i)	upto 20' height					
35	P/F3/4"dia heavy duty sliding bolt of specified material i/c thecost of hardware complete in all respect as approved and directed by the Engineer Incharge.	12/61-B- i	172.00 Nos		Each	
	(B)Brass sliding bolt, 10" (250 mm) long					
36	P/F3/4"dia heavy duty sliding bolt of specified material i/c thecost of hardware complete in all respect as approved and directed by the Engineer Incharge.(A) Iron					
	i) Iron sliding bolt, 10" (250 mm) long	12/61-A.i	91.00		Each	
	ii) Iron sliding bolt, 12" (300 mm) long	12/61-Ai.i	95.00 Nos		Each	
37	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	10/41.b	6306.83 Sft		Per Sft	
38	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 1.6 mm 'thickness including 5 mm thick imported tinted glass with rubber gasket using approved standard latches, hardware etc., as approved by the Engineer in-charge.	25/52.	2720.00 Sft		Per Sft	
39	Providing and fixing Aluminum Fly screen comprising of Fiber/Aluminum wire guaze (Malasian) fixed in aluminum frame of approved manufacturer brownze Colour/powder coated of size 1-1/2"x1/2" and 1.6 mm thick with rubber gasket i /c cost of Hardwares as approved and directed by the engineer incharge complete in all respect.	25/53.	1360.00 Sft		Per Sft	
40	Providing and fixing G.I. wire gauze 22 SWG, 12x12 'meshes per square inch, (5x5 meshes in cm2) fixed to steel window, complete with flat iron patti ½"x 1/8" (13 mmx3 mm) and machine made screws.	12/55.	707.04 Sft		P/Sft	
41	Glazing with panes (16 oz. to 18 oz.) including cost of putty.	12/45.b	65.90 Sft		P/Sft	

No.	Description	Ref.	Quantity	Rate	Unit	Amount
42	Providing and laying superb quality Porcelain glazed tiles flooring of MASTER brand of specified size in approved design,Color and Shade with adhesive/bond over 3/4"thick(1:3)cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respect as approved and directed by the Engineer Incharge.Full body Glazed tiles.400mmx 400 mm	10/42.a.i	26672.69 Sft		Per Sft	
43	Providing and fixing M.S. grill fabricated with MS Square polished Vertical/horizontal Bars of specified size @ 4" c/c ' passed through punched holes in MS Patti of 1-1/4"x1/8" i/c the cost of 1-1/4"x1/8" MS patti for Frame of windows and painting 3 coat complete in all respect as approved and directed by the Engineer Incharge. a) 3/8" Squar Bars	25/59.i	2720.00 Sft		Per Sft	
44	Providing and fixing 2" wide M S Chowkats in gel / double rebate made of 16 SWG MS sheet pressed /welded /supported with M.S.flat 1-1/4"x1/8"i/c6" long M.S. Flat 1"x1/8" hold fasts (6-Nos) welded /screwed, punching of lock hole covered with MS Box, coating with anti rust paint including filling with cement sand mortar (1:8) and embedding hold fast in cement concrete (1:2:4), complete in all respect as approved and directed by Engineer Incharge.					
	(i) 10.50 " wide	12/17ii	548.00 Sft		Per Sft	
45	Providing and laying superb quality Ceramic tile floors of Master brand of specified size,Glossy/Matt/Texture of approved Color and Shade as perapproved design with adhesive bond, over 3/4" thick(1;2) cement sand plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects and as approved and directed by the Engineer Incharge.12"x18"/12"x24"/10"x24" /8"x24"/12"x36"	10/24.i	2225.07 Sft		P/Sft	
46	Providing and laying superb quality Ceramic tiles dado of Master brand of specified size,Glossy/Matt/Texture skirting / dado of approved Color and Shade with adhesive bond over 1/2"thick (1:2) cemen tplaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects and as approved and directed by the Engineer Incharge.12"x18"/12"x24"/10"x24" /8"x24"/12"x36"	10/25.i	9153.85 Sft		Per Sft	
47	Providing and laying 3/8 inch thick superb class Multani tiles of specified size and design of approved Colorand Shade with adhesive bond ,over1/2" thick (1:2) cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects and as approved and directed by the Engineer Incharge.	.10/44	238.20 Sft		P/Sft	

No.	Description	Ref.	Quantity	Rate	Unit	Amount
48	Providing and laying Prepolished Granite of specified thickness and shade of full width of approved quality laid with adhesive bond over 3/4" thick (1:2) cement sand mortor bed ,complete in all respect as approved and directed by the Engineer Incharge.3/4" thick	10/50.i	2398.84 Sft		Per Sft	
49	Extra for Bevelling charges of marble edge in approved design complete in all respects i/c the cost of Carbor and amdisc as approved and directed by the Engineer Incharge.	10/48.	980.00 Rft		Per Rft	
50	Extra cost for making hole in Marble slab for fixtures,Sink,burners,basin Vanities i/c cost of bevelling of internal edge as approved and directed by the Engineer Incharge.	10/49.	24.00 Nos		Each	
51	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.	6/31.	350.00 P/Rft		Per Rft	
52	Providing and fixing 2'-9" high stair railing comprising of non magnetic (304) Stain less steel 2" dia pipe railing of 18 SWG welded with vertical posts of 2" dia stainless steel round/ Squar pipe @ 2-ft c/c fixed on alternate steps with 3" long steel screws and brass rawal plugs , 3-Nos diagonal stainless steel pipes of 1/2" dia passes through goties fixed on vertical post, i/c stainles steel welding, fixing & polishing complete in all respects as approved and directed by the Engineer Incharge.	25/64	516.64 Rft		P/Rft	
53	Providing and laying superb quality Porcelain glazed tiles of Master brand, skirting/dado of specified size, Color and Shade with adhesive/bond over 1/2"thick (1:2) cement plaster i/c the cost of and sealer for finishing the joints, cutting grinding complete in all respect as approved and directed by the Engineer Incharge.a) Full body Glazed Tile 400mmx 400 mm	10/43.a.i	3377.80 Sft		Per Sft	
54	Providing and applying wall putty of 2 mm thickness over plastered surface (new surface) to prepare the surface even and smooth complete in all respect.	13/46	106932.91 Sft		% Sft	
55	Providing and fixing 1st class solid wood wrought joinery in panelled or panelled and glazed doors and windows of specified thickness with 1" thick solid wood panels with step and 1-1/2"x2-1/2" beadings all around the panels i/c the cost of Tower bolt and handles complete in all respect (Excluding the cost of sliding bolt,lock and chowkats (frame), etc.) as approved and directed by the Engineer InchargeOak/Ash wood Door(iii) 1-1/2" thick (40 mm)	12/7 b.iii	72.00 Sft		Per Sft	

No.	Description	Ref.	Quantity	Rate	Unit	Amount
56	Providing and fixing Vin board cabinet 3/4" thick with drawers 3"deep in 'Kitchen including termite proofing and polishing with synthetic enamel as specified, with handles hinges,screws etc., complete in all respects i) 2' deep,without back ii)2' deep,with back	12/59	46.20 67.90 Sft		Per Sft Per Sft	
					Total	
	Civil Work (Non-Schedule Items)					
1	Making and erecting in position MS Grill Door with M.S box pipe 1.5"x1.5" main frame and M.S Box pipe 1/2"x1/2" , 18 SWG for grill, complete in all respects and duly painted as approved by the Engineer Incharge.(Fly/Mosquito Proof Grill Doors for Fixing at Gallaries openings)	NS	1190.25 Sft		Per Sft	
2	Providing and fixing 3/4" thick laminated Board shutter with 3/4" x 3/4" deodar wood beading wardrobe frame of 3"x1.5" M.S Box pipe 18 SWG including catchers, lock, CP hanger rod with hooks, hinges, french polish on beading complete in all respects including hanger rod etc. as approved by the Engineer Incharge.	NS	8316.00 Sft		Per Sft	
3	Providing & Fixing uPVC door 1.25" thick wooden colour i/c hinges, door handle with locking arrangement complete in all respects.	NS	857.50 Sft		Per Sft	
4	Providing & Fixing Magnet stopper for doors with screws best quality complete in all respects as approved by the Engineer Incharge.	NS	160.00 Nos		Each	
5	Preparing surface & applying siprit polish best quality complete in all respects as approved by the Engineer Incharge.	NS	144.00 Sft Sft		P/Sft	
6	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	NS	650.00 Rft		P/Rft	
7	Subsequent carriage of crushed stone aggregate total distance from Sargodha to Bahawalnagar IUB Campus at site of work average 278 KM		74947.48 Cft		% Cft	
					Total	
	Electric Work (Schedule Items)					
1	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) 20 mm i/d ii) 25 mm i/d iii) 1.5" i/d (40 mm) iv)2" i/d (50 mm)	24/3-ii 24/3-iii 24/3-v 24/3-vi	8514.91 13277.60 150.00 1381.00 Rft		Per Rft Per Rft Per Rft Per Rft	



No.	Description	Ref.	Quantity	Rate	Unit	Amount
2	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). a) 250/440 volts, PVC insulated:					
	3/0.74 mm (3/0.029")	24/10-i	12668.00		Per Rft	
i)	3/0.91 mm (3/0.036")	24/10-ii	34248.00		Per Rft	
ii)	7/0.74 mm (7/0.029")	24/10-iii	20125.00		Per Rft	
iii)	7/0.91 mm (7/0.036")	24/10-iv	10553.00		Per Rft	
iv)	7/1.12 mm (7/0.044")	24/10-v	2208.00		Per Rft	
v)	7/1.63 mm (7/0.064")	24/10-vi	6677.00		Per Rft	
vi)	19/1.32 mm (19/0.052")	24/10-viii	2460.00		Per Rft	
			Rft			
3	Supply and erection of copper conductor cablesfor service connection, in prelaid pipe/G.I.wire/trenches, etc. (rate for cable only):- PVCinsulated, PVC sheathed 4 core 660/1100 voltgrade cable, armoured with G.I. wire 16 SWG.					
	i) 185 mm (37/0.103")	24/13-d	79.27		Per M	
			Per M			
	ii)16 mm (7/0.064")	24/13	375.00		Per M	
			Per M			
4	Providing and fixing Copper winded Exhaust fan with louver and shutter made of Pak/Younas/G.F.C. i/c the cost of necessary cable and hardware for connection from ceiling rose complete as approved and directed by Engineer Incharge.					
		24/102.a.ii				
i	.Plastic body 12 " dia		15.00		Each	
ii	Steel body 18" sweep		3.00		Each	
			No			
5	P/F PVC double layer Switch kit Faceplate with specified switch holes i/c the cost of switches / sockets / dimmer made of Hi-Life / Bush / Schenider, screws complete as approved and directed by the Engineer Incharge					
	One way Gange Switch	24/103.a				
	Small					
	03 Gange		108.00		Each	
	Three pin Light Plug 10/13 Amp		110.00		Each	
	Fan Dimmer		103.00		Each	
	Three Pin Power Plug 15-32 Amp		96.00		Each	
	Large					
	04 Gange		57.00		Each	
	05 Gange		24.00		Each	
	06 Gange		32.00		Each	
	Two way Gange Switch small					
	03 Gange		108.00		Each	
	04 Gange		11.00		Each	
			No			
6	P/F floor mounted Electric Panel board of required depth and size, fabricarted with 14SWG M.S sheet (Indoor/Outdoor Type),derusting, zinc Phosphated, finish with electro static powder coating in approved colour i/c the cost of Lock, Indication lights,thimbles, Copper Comb, Wiring, Netural & Earth Bar, glands,Current Transformers of specified capacity ,Door Earthing, Brass glands,bus bars,controles complete in all respects as approved and directed by the Engineer Incharge (Breakers will be Paid Separately).3.00 Ft deep 2500~3200A)					
		24/91.i,b,iv.	105.00		Cft	
			Cft			

No.	Description	Ref.	Quantity	Rate	Unit	Amount
7	Supplying ,Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip ) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge. There Pole					
	300-630 Amp(36 KA)	24/87.a.x	2.00		Each	
i	125-250 Amp(25KA)	24/87.a.vi	9.00		Each	
ii	15-100 Amp (10 KA,15KA)	24/87.a.ii	20.00		Each	
iii)			No			
8	P/F wall mounted DB (Distribution Board) made with 16SWG Sheet (Recessded/Surface mounted Type), Powder coated Paint, i/c the cost of Lock, Indication lights,Thimble, Copper Comb, Wiring, Netural & Earth Bar, Door Earthing, Digital Voltmeter,Digital Ammeter,Volt Selector Switch,Ammeter selector switch,Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately).(a) 6" deep75~100A	24/90-a.ii	25.00		Cft	
			Cft			
9	Suppling,Installation and comissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY /SIEMEN GERMAN/TERASAKI JAPAN/ ABB SWITZERLAND in prelaid DBs and Panels i/c the cost of screws,necessary wire complete in all respect as approved and directed by the Engineer Incharge.6-40 Amp (6 KA)	24/86-a-ii	216.00		Each	
			No			
10	Supply and erection of PVC pipe for recessed wiring main andsubmain) purpose, i/c bends, specials etc in floor, walls ortrenches:iii) 100 mm i/d	24/6.iii	1312.00		Per Rft	
			Rft			
11	Supplying,Installation and commissioning of MCCB (MouldedCase Circuit Breaker) of specified rating made of LEGRANDFRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKIJAPAN/ABB SWITZERL(with adjustable Thermal-MagneticTrip ) in prelaid DBs and Panels i/c the cost of screws,necessary wire complete in all respect as approved anddirected by the Engineer InchargeTripple Pole With Adjustable Thermal-Magnetic Trip/Electronic Trip (60-100%)630-1600 Amp(50 KA)	24/88-a-x	1.00		Each	
			No			
12	P/F PVC concealed Switch kit Box i/c the cost of screwscomplete as approved and directed by the Engineer Incharge	24/104	250.00		Each	
	i) Small		150.00		Each	
	ii) Large		No			
					Total	

No.	Description	Ref.	Quantity	Rate	Unit	Amount
	<b><u>Electric Work (Non-Schedule Items)</u></b>					
1	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)	NS	103.00 No		Each	
2	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	NS	103.00 No		Each	
3	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)	NS	8.00		Each	
4	Supply & installation of LED 24 W Down Light 6500 K ,2000 Lumen (Surface Mounted, 220V~) i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips Essential or Equivalent)	NS	128.00 Nos		Each	
5	Supply & installation of Strip (patti) with 20W Led tube rod (220V~, 6500K) i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips or Equivalent)	NS	340.00 No.		Each	
6	Supply & installation LED flood light 100 watt Philips quality including casing bracket, hanging arrangement complete in all respects as approved by the Engineer Incharge.	NS	16.00 No		Each	
7	Supply and Installation of Stainless Steel/Aluminum Exhaust Hood with exhaust fan (170W) and 4 x20W halogen lamp i/c any other accessories required at site. Complete in all respects as approved by Engineer Incharge. (Canon-HD-GL9011 or Equivalent)	NS	1.00 No		Each	
8	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.	NS	2.00 No		Each	
					<b>Total</b>	

No.	Description	Ref.	Quantity	Rate	Unit	Amount
	<b>Plumbing Work (Schedule Items)</b>					
1	Providing and fitting glazed earthen ware water closet squatter type (Orissa pattern) combined with foot rest. (Coloured).	19/4ii.	21.00 No		Each	
2	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 ii. Under Counter Vanity Basin	19/7.i 19/7.v	6.00 20.00 No		Each Each	
3	Providing and Fixing Crommium plated bib cock 1/2" dia.	19/27.ii	38.00 Nos		Each	
4	Providing and fixing chromium plated pillar-cock, heavy:- ii) (1/2")	19/24.ii	6.00 No.		Each	
5	Providing and fixing chromium plated tee stop cock '15mm (½").	19/28	34.00 No.		Each	
6	Providing and fixing BATHROOM ACCESSORIES (7-piece set) MASTER BRAND - One Cosmetic Shelf, One Towel rod with bracket, One soap dish, One double hook, One towel ring, brush holder, toilet paper holder & looking glass i/c the cost of hardwares etc complete in all respect as approved and directed by the Engineer incharge i) plastic soap dish ii) plastic toilet paper holder iii) plastic towel rail	19/23.	12.00 12.00 12.00 No.		Each Each Each	
7	Providing and fitting plastic made low down flushing cistern 13.63 litre (3 gallons) capacity, including bracket set, copper connection, etc. complete. ii) coloured	19/13.ii	25.00 No.		Each	

No.	Description	Ref.	Quantity	Rate	Unit	Amount
8	Providing and fixing, chromium plated mixing valve, for wash hand basin, sink or shower, as approved by the engineer in charge	19/30.	26.00		Each	
9	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	3/42-i	8848.48 Cft		%0 Cft	
10	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					
i)	310 mm (12") i/d	21/3 i	1,215.00 Rft		P/Rft	
11	Cement plaster 1:3 upto 20' (6.00 m) height:- b) ½" (13 mm) thick	11/8.b	5676.00 Sft		% Sft	
12	Constructing standard gully grating chamber, 3'x2½' '(900x750 mm), with chinaware trap as per PHED Drawing STD/PD No. 3 of 1977, complete in all respects.	21/8.	6.00 No		Each	
13	Extra for making and finishing benching floor work in manhole chamber, with 1/8" (3 mm) thick cement finish.	21/9.	150.00 Sft		% Sft	
14	Providing, fixing, testing and commissioning of µ-PVC (Unplasticized polyvinyl Chloride) Nikasi /wastepipe Fittings make of dadex /Popular /Beta/ BBJ conformingto code EN-1401 including thecost of Solvents complete in all respect as approved and directed by the Engineer Incharge.	19/49.	69.00 69.00 22.00 22.00 20.00 Nos		Each Each Each Each Each	
15	Providing ,fixing testing and commissioning of µ-PVC (Unplasticized polyvinyl Chloride) Nikasi /waste pipe make of dadex /Popular /Beta/BBJ plain/ socket ended conforming to code EN-1401 of specified SDR (Standard Dimension Ratio) including thecost of specials and Solvents complete in all respect as approved and directed by the Engineer Incharge.Type (SDR 32.5/SN-8)	19/47.	1905.07 750.00 Rft		P/Rft P/Rft	
	i)4" (110 mm)					
	ii)3" (85 mm )					

No.	Description	Ref.	Quantity	Rate	Unit	Amount
16	Providing, laying, testing and commissioning of POLY PROPYLENE RANDOM COPOLYMER (PPRC) water supply pipe made of (Dadex/Popular/Beta/BBJ) with specified pressurerating PN (PRESSURE NOMINAL) and conforming to DIN 8077-8078 code i/c cost of solvent, specials ,making jharries complete in all respectas approved and directedby Engineer Incharge.(Internal/External Diameters mentioned).	23/47.bii				
	<b>PN-20 pipe</b>					
	ii)(3/4") 25 mm		523.00		P/Rft	
	iii)(1") 32 mm		1211.00		P/Rft	
	vi)(2") 63 mm		1050.00		P/Rft	
			Rft			
17	Providing and fixing CP bath Room Set made of Sonex/ Master /Faisal comprising of 3-NoTee stop cocks ,lever type Basin Mixer,double Bib Cock,open wall shower,Muslim shower,waste coupling and bottle trap etc.complete in all respect as approved and directed by the Engineer incharge.	19/52.				
	i)Double Bib Cock		25.00		Each	
	ii)Open Type Wall Shower		25.00		Each	
	iii)Muslim shower		25.00		Each	
	iv)Waste Coupling		25.00		Each	
			No			
18	Providing and fixing stainless steel sink with drain board, size 120x60 cm (48"x24") including bracket set, waste pipe and waste coupling.	19/8.	6.00		Each	
			No.			
19	Providing and fitting one piece Europeon Coupled set of Water Closet (WC) and flushing Cistern of PORT Abrand (fullsize) i/c the cost of CP /rubber connection ,thimble,normal seat cover and rawal bolts completein all respects as approved and directed by the Engineer Incharge	19/3.	4.00		Each	
			No			
	<b><u>Plumbing Work (Non-Schedule Items)</u></b>				<b>Total</b>	
1	P/F Looking glass imported quality complete in all respect and as approved by the Engineer Incharge.	NS	111.00		P/ Sft	
			Sft			
2	Providing & fixing floor trap Jali plastic complete in all respect and as approved by the Engineer Incharge.	NS	33.00		Each	
			No			
3	Providing & fixing floor trap Jali Stainlessteel complete in all respect and as approved by the Engineer Incharge.	NS	37.00		Each	
			No			
					<b>Total</b>	

No.	Description	Ref.	Quantity	Rate	Unit	Amount
1	<b>IT DATA CABELING SYSTEM</b>	24/3				
	Supply and erection of PVC pipe for wiring recessed in wallsincluding inspection boxes, pull boxes, hooks, cuttingjharries,and repairing surface, etc.,complete with all specials.					
	i) 3/4" i/d (20 mm)		525.00		Per Ft	
	ii) 1" i/d (25 mm)		530.00		Per Ft	
	iii) 1.50" i/d (40 mm)		250.00		Per Ft	
2	iv) 2" i/d (50 mm)	24/104	260.00		Per Ft	
			Ft			
	P/F PVC concealed Switch kit Box i/c the cost of screwscomplete as approved and directed by the Engineer Incharge					
3	i) Small	24/106	50.00		Each	
	ii) Large		No			
4		24/131	50.00		Each	
			No			
3	Supply, Installation and commissioning of wiring with 4-pairdata Cable, 23 AWG UL/EN listed cable * Conforming tofollowing standards: TIA/EIA 568 / ISO/IEC 11801, in prelaiddconduit / cable tray from including all accessories, Manufacturer/OEM Authorization, Make: Schneider / i-connectUK/3M Corning USA/ D-Link/ Pollo Australian or equivalentcomplete in all respect as approved and directed byEngineer Incharge.	24/106				
	a) UTP (Unshielded Twisted pair)					
	(i) CAT-6 (Min.1G @ 250MHz or higher)		600.00		Per M	
	(ii) CAT-6A (Min.1G/ 10G @ 500MHz or higher)		600.00		Per M	
			M			
4	Supply, Installation and commissioning of Simple type, DualShutter Face Plates having fully populated I/O: Option 1:RJ-11 withRJ45/8P8C I/Os supporting either Cat6 or Cat6a cables asrequired by project Option 2: Two RJ45/8P8C I/Os supportingeither Cat6 or Cat6a cables as required by project.	24/131				
	(i) Single I/O		100.00		Each	
	(ii) Double I/O		100.00		Each	
			No			
				Total		

**ESTABLISHMENT AND DEVELOPMENT OF THE ISLAMIA UNIVERSITY OF  
BAHAWALPUR SUB CAMPUS AT AHMADPUR EAST  
ACADEMIC BLOCK**

**BILL OF QUANTITIES**

**SUMMARY OF COST**

<b>Sr. No.</b>	<b>DESCRIPTION</b>	<b>AMOUNT</b>
1.	CIVIL WORKS	
2.	PUBLIC HEALTH WORKS	
3.	ELECTRIC WORKS	
	<b>Main Building</b> <span style="float: right;"><b>TOTAL - A</b></span>	
4.	EXTERNAL DEVELOPMENT	
	<b>External Civil Works</b> <span style="float: right;"><b>TOTAL - B</b></span>	
	<b>SUB-TOTAL (A+B)</b>	
5.	HVAC WORKS	
	<b>HVAC Works</b> <span style="float: right;"><b>TOTAL - C</b></span>	
	<b>SUB-TOTAL (A+B)+C</b>	
	<b>ADD PST</b>	
	<b>GRAND TOTAL</b>	



**ESTABLISHMENT AND DEVELOPMENT OF THE ISLAMIA UNIVERSITY OF BAHAWALPUR SUB CAMPUS AT  
AHMADPUR EAST  
ACADEMIC BLOCK**

**BILL OF QUANTITIES**

**CIVIL WORKS**

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
1	C-3/21(a)-(ii)	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and ramming lead 'upto one chain (30 m) and lift upto 5 ft. (1.5 m) a) By Manual: in ordinary soil.	%0Cft	195774.8		
2	C-26/43	Spraying anti termite proofing by using liquid FMC Biflex 2.5%EC Per Sft 1.20 10.00 Sq.m 13.00 107.50 Mixing Ratio 1:50=137-Sft or using liquid MIRAGE Ali Akbar /RANGERS Auriga 5% SC Mixing Ability-HEXTAR Ratio 1:110=205-Sft or any other equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10-years complete in all respect .as approved by the Engineer Incharge	P.Sft	176847.6		
3	C-6/5(i)	Cement concrete plain including placing,compacting, finishing and curing complete (including screening and washing of stone aggregate):Ratio 1:4:8	%Cft	13249.8		
4	C-6/6 a-i (2)	Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- Type B (nominal mix 1: 1.5: 3), Ground Floor	P.Cft	35072.3		
5	C-6/6 a-i (2)	Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- Type B (nominal mix 1: 1.5: 3), Ground Floor	P.Cft	34832.2		
6	C-6/6 a-i (2)+d	Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- Type B (nominal mix 1: 1.5: 3), add extra for First Floor.	P.Cft	27632.4		
7	C-6/6 a-i (2)+d	Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- Type B (nominal mix 1: 1.5: 3), add extra for Second Floor.	P.Cft	3159.7		
8	C-6/6 a-i (2)	Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- Type B (nominal mix 1: 1.5: 3), Under Plinth Level	P.Cft	5942.1		
9	C-6/6 a-i (2)	Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- Type B (nominal mix 1: 1.5: 3), Ground Floor	P.Cft	7505.9		
10	C-6/6 a-i (2)+d	Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- Type B (nominal mix 1: 1.5: 3), add extra for First Floor.	P.Cft	6011.8		
11	C-6/6 a-i (2)+d	Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- Type B (nominal mix 1: 1.5: 3), add extra for Second Floor.	P.Cft	52.8		
12	C-6/12(c)	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars):- Deformed bars (Grade-60)	%Kg	408181.8		

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
13	C-7/4(i)	Pacca brick work in foundation and plinth in Cement,sand mortar. Ratio 1:6	%Cft	72011.7		
14	C-3/15(i)	Filling, watering, ramming earth under floors (with surplus earth foundation).	%0Cft	65258.3		
15	C-3/15(ii)	Filling, watering and ramming earth under floors:-ii) with new earth excavated from outside lead upto one chain (30 m).	%0Cft	297690.4		
16	C-3/17	Transportation of earth all types when the total distance, this rate will be paid in addition to the including the lead covered in the item of work, is more than rate of earthwork, without deducting 1000 ft. (300 m) (Lead will be paid as per actual but not more than 7km)				
	a	upto ¼ mile (400 m).	%0Cft	297690.4		
	b	for every 330 ft. (100 m) additional lead or part thereof, beyond ¼ mile (400 m) upto one mile. (1.6 Km.)	%0Cft	297690.4		
	c	for every ¼ mile (400 m) additional lead or part thereof, beyond one mile (1.6 Km.) upto 5 mile ( 8 Km).	%0Cft	297690.4		
17	C-7/5(i)	Pacca brick work in ground floor cement, sand mortar Ratio 1:5	%Cft	33695.2		
18	C-7/5(i)	Pacca brick work in ground floor cement, sand mortar Ratio 1:4	%Cft	768		
19	C-7/5(i) + 6(i)	Pacca brick work in First floor cement, sand mortar Ratio 1:5	%Cft	25050.0		
20	C-7/5(i) + 6(i)	Pacca brick work in First floor cement, sand mortar Ratio 1:4	%Cft	1164.6		
21	C-11/11(b)	Cement plaster 1:5 upto 20' (6.00 m) height:- ½" (13 mm) thick. (Internal Ground Floor)	%Sft	79125.5		
22	C-11/11(c)	Cement plaster 1:5 upto 20' (6.00 m) height:- c) ¾" (20 mm) thick. (Internal Ground Floor)	%Sft	41697.1		
23	C-11/9-c	Cement plaster 1:4 Ground Floor:- c) ¾" (20 mm) thick (External)	%Sft	33541.7		
24	C-11/9-c + 28	Cement plaster 1:4 First Floor:- c) ¾" (20 mm) thick (External)	%Sft	29242.8		
25	C-11/9-c + 28	Cement plaster 1:4 Second Floor:- c) ¾" (20 mm) thick (External)	%Sft	110379.6		
26	C-7/38-(i)	Providing and laying fair face Gutka cladding laid in (1:2) cement / red posso mortar having 1/4" thick groove finish i/c cost of 8 SWG wire in shape of 8 placed horizontally and vertically at 36" and 18" c/c respectively i/c cutting charges as per approved drawing , complete in all respect as approved and directed by the Engineer Incharg i. 2-1/4" x 2-1/4" x 9"	P.Sft	59283.40		
27	C-9/48 (iv)	Providing and fixing false ceiling comprises of Gypsum board laminated sheet of size 2'x2'/2'x3'/ 3'x3'of specified design and thickness i/c cost of fixtures i.e galvanized angle 1" x 1" at wall sides, galvanized tee 1¼" x 1"and 1 ½" x 1" both at 4' c/c ( made of Taiwan CKM or equivalent), hanging with G.I/Copper wire 16 SWG, G.I hook, Rawal Plug etc: complete in all respects as approved and directed by the Engineer Incharge. iv) 12 mm thick	P.Sft	83918.2		
28	C-11/23-a-(iii)	Distempering:- a) new surface:- 3 coats	%Sft	120822.60		
29	C-13/46	Providing and applying wall putty of 2mm thickness over plastered surface (new surface) to prepare the surface even and smooth complete in all respect.	%Sft	241645.20		
30	C-13/33-a-(i+ii)	Providing and applying weather shield paint of approved quality on external surface of building including preparation of surface, application of primer complete in all respect: a) new surface: Two coats	%Sft	6587.04		
31	C-10/3	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 respects.	%Cft	27245.4		
32	C-6/5(f)	Cement concrete plain including placing,compacting, finishing and curing complete (including screening and washing of stone aggregate):(f) Ratio 1: 2: 4	%Cft	13038.9		

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
33	C-10/15(e)	Providing and laying topping of cement concrete 1:2:4,including surface finishing and dividing in panels:-(e) 2"(50 mm) thick	%Sft	7430.6		
34	C-9/35 (iii)	Providing and laying roof insulation, comprising of single layer of tiles 9"x4½"x1½" (225x113x40 mm) grouted with cement sand mortar 1:3 laid over 2" (50 mm) thick earth (including mud plaster) over thermopore sheet, over polythene sheet 300 gauge over a layer of bitumen, complete in all respects:- iii) Thermopore sheet 1" (25 mm) thick	%Sft	47457.5		
35	C-9/15	Khuras on roof 2'x2'x6" (600 x 600 x 150 mm)	Each	36.0		
36	Ch 10/42-a-(ii)	Providing and laying superb quality Porcelain glazed tiles flooring of MASTER brand of specified size in approved design,Color and Shade with adhesive/bond over 3/4"thick (1:3) cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respect as approved and directed by the Engineer Incharge. .a) Full body Glazed tiles (ii) 600 mm x 600 mm.	P.Sft	78611.82		
37	Ch 10/43-a-(ii)	Providing and laying superb quality Porcelain glazed tiles of Master brand, skirting/dado of specified size, Color and Shade with adhesive/bond over 1/2"thick (1:2) cement plaster i/c the cost of and sealer for finishing the joints, cutting grinding complete in all respect as approved and directed by the Engineer Incharge.a) Full body Glazed tiles (ii) 600 mm x 600 mm.	P.Sft	7572.35		
38	C-10/22(a)	1½"(40 mm) thick mosaic flooring, consisting of ½ "(13 mm) mosaic topping of one part of cement and marble powder in the ratio of 3:1 and two parts of marble chips, laid over 1"(25 mm) thick floor of 1:2:4 cement concrete, including rubbing and polishing complete with finishing :- (a) using Grey cement. Ground Floor	%Sft	264.57		
39	C-10/37 (a-ii)	Mosaic dado or skirting with one part of cement and marble powder in the ratio of 3:1 and two parts of marble chips, laid over ½"(13 mm) thick cement plaster 1:3, including rubbing and polishing, complete with finishing: (a) using Grey cement : ii) ½"(13 mm) thick	%Sft	270.19		
40	C-10/24(i)	Providing and laying superb quality Ceramic tile floors of Master brand of specified size, Glossy/Matt/Texture of approved Color and Shade as per approved design with adhesive bond, over 3/4" thick (1:2) cement sand plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects and as approved and directed by the Engineer Incharge. i) 12"x18"/12"x24"/10"x24" /8"x24"/12"x36"	P.Sft	1582.94		
41	C-10/25(i)	Providing and laying superb quality Ceramic tiles dado of Master brand of specified size, Glossy/Matt/Texture skirting/dado of approved Color and Shade with adhesive bond over 1/2"thick (1:2) cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects as approved and directed by the Engineer Incharge. i) 12"x18"/12"x24"/10"x24" /8"x24"/12"x36"	P.Sft	5333.32		
42	C-10/50 (i)	Providing and laying Prepolished Granite of specified thickness and shade of full width of approved quality laid with adhesive bond over 3/4" thick (1:2) cement sand mortar bed , complete in all respect as approved and directed by the Engineer Incharge. (i) 3/4" thick	P.Sft	11460.46		
43	C-10/48	Extra for Bevelling charges of marble edge in approved design complete in all respects i/c the cost of Carborandam disc as approved and directed by the Engineer Incharge.	P.Rft	8676.15		
44	C-10/49	Extra cost for making hole in Marble slab for fixtures, Sink,burners, basin Vanities i/c cost of bevelling of internal edge as approved and directed by the Engineer Incharge.	Each	6.00		
45	C-12/51	P/F 1-1/2" thick solid flush door comprising of 2.5 mm thick Commercial ply compressed over 2.5 mm thick commercial ply over 1" thick packing wood in style and rails under proper pressure i/c the cost of nails, tower bolt , handles, glue, sawing charges, Painting charges, sand papering and 3/8" thick matching wooden lipping as approved and directed by the Engineer Incharge.	P.Sft	3031.88		

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
46	C-12/61 (b) - (ii)	P/F 3/4" dia heavy duty sliding bolt of specified material i/c the cost of hardware complete in all respect as approved and directed by the Engineer Incharge. (ii) 12" (300 mm) long	Each	89.00		
47	C-12/22	Providing and fixing, approved quality mortice lock	Each	89.00		
48	C- 12/17 - (ii)	Providing and fixing 2" wide MS/ GI Chowkat singel/double rebate made of 16 SWG MS sheet pressed/welded / supported with M.S. flat 1-1/4"x1/8" i/c 6"long M.S. Flat 1"x1/8"hold fasts (6-Nos) welded/ screwed, punching of lock hole covered with MS Box,coating with antirust paint including filling with cement sand mortar (1:8) and embedding hold fast in cement concrete (1:2:4) ,complete in all respect as approved and directed by Engineer Incharge.(ii) 10.50 " wide	P.Sft	3031.88		
49	C-13/5 c(i+ii)	Painting new surface:- c) Preparing surface and painting of doors and windows any type (including edges):- 3 coats (Chowkats)	%Sft	7568.36		
50	C-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 sections including the cost of ¼" (5 mm) thick imported tinted glass with aluminium triangular gola and rubber gasket to support the glass and leaf edging, using approved standard fittings, locks, 3" (75 mm) wide long handles etc., and hardware any required as approved by the engineer in-charge.	P.Sft	322.7		
51	C-25/52	Providing and fitting all types of glazed aluminium windows of anodised bronze colour partly fixed and partly sliding using delux sections of approved manufacturer having frame size of 100 x 20 mm (4"x¾") and leaf frame sections of 50 x 20 mm (2"x¾"), all of 1.6mm hickness including 5 mm thick imported tinted glass with rubber gasket using approved standard latches, hardware etc., as approved by the Engineer in-charge.	P.Sft	6044.8		
52	C-25/53	Providing and fixing Aluminum Fly screen comprising of Fiber / Aluminum wire gauze (Malasian) fixed in aluminum frame of approved manufacturer brownze colour / powder coated of size 1-1/2" x 1/2" and 1.6mm thick with rubber gasket i/c cost of hardwares as approved and directed by the engineer incharge complete in all respect.	P.Sft	6044.8		
53	Ch-25/59-(ii)	Providing and fixing M.S. grill fabricated with MS Square polished Vertical/ horizontal Bars of specified size @ 4" c/c ' passed through punched holes in MS Patti of 1-1/4"x1/8" i/c the cost of 1-1/4"x1/8" MS patti for Frame of windows and painting 3 coat complete in all respect as approved and directed by the Engineer Incharge. (ii) 1/2" Squar Bars	P.Sft	6044.77		
54	Ch-25/64	Providing and fixing 2'-9" high stair railing comprising of non magnetic (304) Stain less steel 2" dia pipe railing of 18 SWG welded with vertical posts of 2" dia stainless steel round/ Squar pipe/ Tong (chimta) @ 2-ft c/c fixed on alternate steps with 3" long steel screws and brass rawal plugs , 3-Nos diagonal stainless steel pipes of 1/2" dia passes through gopies fixed on vertical post, i/c staines steel welding, fixing & polishing complete in all respects as approved and directed by the Engineer Incharge.	P.Rft	345.45		
55	C-25/57	Providing and fixing aluminium glazed partition of anodized / powder coated using section of M/s. Al-Cop/ Pakistan Cable having 2 mm thick Frame size D48-A , i/c 12 mm tinted TEMPERED glass with sand blasting and edge polishing i/c the cost of tear resistance film,rubber gasket and hardware etc. complete in all respect as approved and directed by the Engineer Incharge.(Floor hinge will be paid separately)	P.Sft	9935.70		
56	C-13/9(i)	Bitumen coating to plastered or cement concrete surface:-i) 20 lbs. per 100 Sft. (9.07 Kg per Sq.m)	%Sft	5061.5		
57	C-26/37(ii)	Supplying and laying polythene sheet over D.P.C. under floors and on roofs, etc.ii)500 gauge (.005" thick)	P.Sft	52519.0		
58	C-19/40 (iii)	Supply and fitting of cast iron manhole cover with frame, etc. complete. iii) 60 cm (24") dia	Each	1.00		

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
59	C-21/13	Providing and fixing 1¼"x1¼"x3/16" (31x31x5 mm) angle iron step, in manhole chambers, including carriage and setting the same in work to correct lines and levels.	Each	6.00		
60	C-6/31	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.	P.Rft	65.45		
61	C-6/28/a	Providing and fixing 1/8" (3 mm) thick 3" (75 mm) wide aluminium strip on horizontal and vertical expansion joints in walls, columns, ceilings and floors etc., including cost of clips/screws etc., complete in all respects:- a) On interior surface (without mastic strip)	P.Rft	813.64		
62	C-6/28/b	Providing and fixing 1/8" (3 mm) thick 3" (75 mm) wide aluminium strip on horizontal and vertical expansion joints in walls, columns, ceilings and floors etc., including cost of clips/screws etc., complete in all respects:- b) On exterior surface (with mastic strip)	P.Rft	546.82		
63	C-6/35/b	Providing and fixing thermopore (foamed polythene) sheet in horizontal and vertical expansion joints: b) 1½" (40 mm) thick thermopore sheet	P.Sft	4669.35		
64	C-6/55	Providing and mixing super plasticizer (water reducing admixture) as defined in ASTM C-94 in order to achieve the required consistancy / workability measured by the slump, used in the ratio of (0.05% to 1.00%) by weight of cement as proposed by the designer etc complete in all respect.	P.Ltr	15465.39		
65	C-1/1	Carriage of 100 Cft. (2.83 cu.m) of all materials like stone aggregate, spawl, kankar lime (unslaked), surkhi, etc. or 150 Cft. (4.25 cu.m) of timber, by truck or by any other means owned by the contractor. (Sargodha to Ahmadpur East 399 KM) (Lead will be paid as per actual but not more than 399km)	%Cft	135472.94		
<b>Total of MRS ITEMS</b>						
1	NSI	Excavation in foundation of building, bridges and other structures, including dag belling, dressing refilling around structure with excavated earth, watering and ramming, lead upto one chain (30 metre) and lift 5 ft. to 10 ft:- In ordinary soil.	%0Cft	124153.49		
2	NSI	Providing and laying structural pad for foundation made of selected granular fill material (Mixture of 70% gravel and 30% sand of approved quality and grade) including placing, mixing, spreading and compaction of sub-base material to required depth, grade to achieve 95% maximum modified AASHTO dry density, including carriage of all material to site of work complete in all respect as approved by the Engineer incharge.	P.Cft	114501.34		
3	NSI	Providing and fixing UPVC Doors 38mm thickness i/c deluex matching color UPVC frame matt or glossy finish having color (white-Gray-Marble Gray-Oak Wood- Dard Oak Wood, Coffee Wood Honey Pine Wood- Mahagony-Marry Gold-Chocolate Brown-Honey Dew) i/c all accessories i/c mortice locks complete in all respect as approval by the Engineer Incharge.	P.Sft	485.10		
4	NSI	Providing and fixing steel Fire Rated Emergency Exit Door ,Door manufactured as per NFPA 252 & UL 10C standards Steel Door (MS) Size: 48" x 98" Double Leaf door, Filled with fire-rated material With Inner Steel Stiffeners for reinforcement. Door Leaf 1.2-1.5mm, Door Frame 1.5- 2.0mm, Accessories: Hinges, Panic Bar On single Leaf, SS Handle, Glass 12x24 ft, and Door closer including carriage complete in all respect as approved & directed by the Engineer/ Incharge. (TECHNO (PVT) LTD or Equivalent)	Each	3.00		
5	NSI	Providing and fixing of Fiber Glass Shed on main Entrance Podium and Side having box shape M.S pipe 4" x 6" (10-SWG) used for main frame and M.S pipe 4" x 4" (12-SWG) used for distribution Pipes and cover with 3 ply clear fiber glass sheet approved colour, includingapint, cutting, drilling, revitting, handling, assembling and fixing, nutbolt, carriage fabrication and all accessories which is being used as per Design etc complete in all respect as approval by the Engineer Incharge.	P.Sft	1141.35		

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
6	NSI	Providing and fixing Stainless Steel (24 SWG) Letters 18" height with CNC laser cutting i/c all hardware required complete in all respect as per drawings and direction of Engineer In-charge.	Each	20.00		
7	NSI	Providing and fixing Stainless Steel Logo with colour print including the cost of fitting accessories complete in all respect as per drawings and approval of Engineer Incharge.	Each	1.00		
8	NSI	Providing and fixing stainless steel mesh of 16 guage fixed with nails for concrete and bricks joint complete in all respect and as approved and directed by the Engineer Incharge.	P.Sft	11550.00		
<b>Total of Non MRS ITEMS</b>						
<b>GRAND TOTAL OF CIVIL WORKS</b>						

ESTABLISHMENT AND DEVELOPMENT OF THE ISLAMIA UNIVERSITY OF BAHAWALPUR SUB CAMPUS AT AHMADPUR EAST ACADEMIC BLOCK						
BILL OF QUANTITIES						
PUBLIC HEALTH WORKS						
SR. NO.	ITEM NO.	DESCRIPTION	UNIT	QTY	RATE (RS)	AMOUNT (RS)
		<b>SANITARY FIXTURES AND FITTINGS</b>				
1	Ch 19/3	Providing and fitting European Coupled set of Water Closet (WC) and flushing Cistern of PORTA brand (full size) i/c the cost of CP /rubber connection,thimble,seat cover and rawal bolts complete in all respects as approved and directed by the Engineer Incharge.	Each	14.00		
2	Ch 19/4	Providing and fitting glazed earthen ware water closet, squatter type (Orisa pattern), combined with foot rest. i) white	Each	8.00		
3	Ch 19/13 (i)	Providing and fitting plastic made low down flushing cistern 13.63 litre (3 gallons) capacity, including bracket set, copper connection, etc. complete. i) white	Each	8.00		
4	Ch 19/8	Providing and fixing stainless steel sink with drain board, size 120x60 cm (48"x24") including bracket set, waste pipe and waste coupling.	Each	1.00		
5	19/16	Providing and fixing, chromium plated soap dish.	Each	18.00		
6	19/18	Providing and fixing, chromium plated toilet paper holder.	Each	22.00		
7	19/19 (i)	Providing and fixing, chromium plated towel rail:- i) 60 cm (24") long, and 2 cm (¾") dia.	Each	10.00		
8	19/49 a (i)	Providing, fixing, testing and commissioning of µ-PVC (Unplasticized polyvinyl Chloride ) Nikasi/ waste pipe Fittings make of dadex /Popular/Beta/BBJ conforming to code EN-1401 including the cost of Solvents complete in all respect as approved and directed by the Engineer Incharge. (a) P-Trap (i) 4" dia	Each	22.00		
9	19/36	Providing and fitting 10 cm (4") gully trap, including cement concrete, cost of PVC grating 15x15 cm (6"x6") and masonry chamber 30x30 cm (12"x12").	Each	8.00		
10	19/55 (5) ii	Providing and fixing chromium plated bottle trap with waste pipe, etc. complete ii) 4 cm (1½")	Each	19.00		
11	21/3 (i)	Providing and laying R.C.C. pipe sewers, moulded with cement concrete 1:1½:3 conforming to ASTM Specification C-76-79, Class II. Wall B, including carriage of pipe from factory to site of work, lowering in trenches to correct alignment and grade, jointing with rubber ring, cutting pipes where necessary, testing, etc., complete i) 310 mm (12") i/d	P.Rft	400.00		
12	3/42 (i)	Earthwork excavation in open cutting for sewers and manholes as shown in drawings including shuttering and timbering, dressing to correct section and dimensions according to templates and levels, and removing surface water, in all types of soil except shingle, gravel and rock: - i) 0 ft. to 7.0 ft. (0 to 2.10 m) depth	1000 Cft	3,600.00		
13	3/24 (c)	Compaction of earthwork (soft, ordinary or hard soil) :- c) Ramming earthwork (all types of soil).	1000 Cft	3,600.00		
14	3/13 (a)	Rehandling of earthwork: a) Lead upto a single throw of Kassi, phaorah or shovel	1000 Cft	3,600.00		
15	19/31 (i)	Providing and fixing gun metal peet/gate valve (screwed):- i) 30 mm (1¼") dia	Each	6.00		
16	19/31 (ii)	Providing and fixing gun metal peet/gate valve (screwed):-ii) 40 mm(1½") dia	Each	6.00		

SR. NO.	ITEM NO.	DESCRIPTION	UNIT	QTY	RATE (RS)	AMOUNT (RS)
17	Ch 19/49 b (i)	Providing, fixing, testing and commissioning of $\mu$ -PVC (Unplasticized polyvinyl Chloride ) Nikasi/ waste pipe Fittings make of dadex /Popular/Beta/BBJ conforming to code EN-1401 including the cost of Solvents complete in all respect as approved and directed by the Engineer Incharge. (b) Multi-Trap (i) 4" dia	Each	10.00		
18	Ch 19/49 d (i)	Providing, fixing, testing and commissioning of $\mu$ -PVC (Unplasticized polyvinyl Chloride ) Nikasi/ waste pipe Fittings make of dadex /Popular/Beta/BBJ conforming to code EN-1401 including the cost of Solvents complete in all respect as approved and directed by the Engineer Incharge. (d) Clean Out (i) 4" dia	Each	6.00		
19	19/52 (v)	Providing and fixing CP bath Room Set made of Sonex/ Master/ Faisal comprising of 3-No Tee stop cocks, lever type Basin Mixer, double Bib Cock, open wall shower, Muslim shower, waste coupling and bottle trap etc. complete in all respect as approved and directed by the Engineer in charge. (v) Muslim shower	Each	22.00		
20	19/52 (iii)	Providing and fixing CP bath Room Set made of Sonex/ Master/ Faisal comprising of 3-No Tee stop cocks, lever type Basin Mixer, double Bib Cock, open wall shower, Muslim shower, waste coupling and bottle trap etc. complete in all respect as approved and directed by the Engineer in charge. (iii) Double Bib Cock	Each	22.00		
22	19/25 (ii)	Providing and fixing chromium plated stop cock, heavy:- ii) 1.5 cm ( $\frac{1}{2}$ ")	Each	60.00		
23	19/27 (ii)	Providing and fixing chromium plated bib cock:- ii) 1.5 cm ( $\frac{1}{2}$ ")	Each	8.00		
24	19/7 (v)	Providing and fitting glazed earthen ware wash hand basin /vanity56x40 cm (22"x16") including bracket set, waste pipe and waste coupling, etc. v) Under Counter Vanity Basin	Each	18.00		
25	19/30	Providing and fixing, chromium plated mixing valve, for wash hand basin, sink or shower.	Each	18.00		
26	Ch 23/47	<b><u>WATER SUPPLY PIPES AND FITTINGS</u></b>				
		Providing, laying, testing and commissioning of POLYPROPYLENE RANDOM COPOLYMER (PPRC) water supply pipe made of (Dadex /Popular/ Beta / BBJ) with specified pressure rating PN (PRESSURE NOMINAL)and conforming to DIN 8077-8078 code i/c cost of solvent, specials,making jharries complete in all respect as approved and directed by Engineer Incharge.(Internal/External Diameters mentioned) b) PN-20 pipe				
	ii	3/4" (25 mm) dia.	Rft	450.00		
	iii	1" (32 mm) dia.	Rft	240.00		
	v	1 1/2" (50 mm) dia	Rft	170.00		
	vi	2" (63 mm) dia.	Rft	190.00		



SR. NO.	ITEM NO.	DESCRIPTION	UNIT	QTY	RATE (RS)	AMOUNT (RS)
27	Ch 19/47	<b><u>SOIL, WASTE, VENTILATING PIPES &amp; FITTINGS</u></b>				
		Providing, fixing, testing and commissioning of $\mu$ -PVC (Unplasticized polyvinyl Chloride ) Nikasi/ waste pipe make of dadex /Popular/Beta/BBJ plain /socket ended conforming to code EN-1401 of specified SDR (Standard Dimension Ratio) including the cost of specials and Solvents complete in all respect as approved and directed by the Engineer Incharge. Type (SDR 32.5/SN-8)				
	iii	60 mm (2") dia.	Rft	220.00		
	iv	85 mm (3") dia.	Rft	320.00		
	v	110 mm (4") dia.	Rft	430.00		
28		<b><u>VALVES</u></b>				
	Ch 23/46	Providing and fixing CP heavy duty brass Ball valve with CP handle of specified diameter made of Faisal/Sonex / Master best quality or equivalent complete in all respect as approved and directed by the Engineer Incharge.				
	ii	3/4 inch	Each	10.00		
	i	1/2 inch	Each	6.00		
		<b><u>GEYSER</u></b>				
29	Ch 19/53 (iii)	Providing /fixing Gas water heater (Geyser) of specified capacity, comprising of water tank made of 14 SWG steel sheet and cover with 20 SWG MS sheet, best quality of approved make of Corona / Ambassador /Super Asia/ Canon i/c the cost of non return valve, imported thermostate, G.I. accessories, safety valve and making connection with existing water supply pipe line complete in all respects as approved and directed by the Engineer Incharge. (iii) 55 Gallons	Each	1.00		
30	Ch 19/55 (ii)	Providing /fixing Electric water heater (Geyser) comprising of tank of 14 SWG, GI sheet and external cover of 22 SWG MS sheet, insulated with 4" thick high density glass wool, imported thermostat i/c electricrod, safety valve (Ambassador/Canon) i/c cost of accessories & making connection complete in all respect as approved and directed by Engineer Incharge. (i) 20 Gal capacity	Each	1.00		
<b>TOTAL OF MRS ITEMS</b>						
1	NSI	Providing and fixing, floor trap of PVC, including concrete chamber all round, and C.I. grating:-. (Master, sonex or Equivalent).	Each	48.00		
2	NSI	Providing and fixing looking glass 5 mm thick size as per requirement/ drawings and direction of engineer incharge complete in all respect. (Ghani Glass or Equivalent)	Sft	162.00		
3	NSI	Providing and fitting Chromium plated floor Trap Jali 6"x6" double filter National and as approved by the Engineer incharge complete in all respect.	Each	48.00		
		<b><u>MANHOLE</u></b>				
4	NSI	Making of manhole size 3'x2-1/2'x3' brick work, plaster complete as requirment including RCC manhole cover 22" dia with Tee shape C.I frame complete in all respect as per engineer Incharge.	Job	10.00		

SR. NO.	ITEM NO.	DESCRIPTION	UNIT	QTY	RATE (RS)	AMOUNT (RS)
		<b>WATER COOLER</b>				
5	NSI	Providing and fiixing Domestic type electric water cooler of 85 ltrs cap body SS Pressure type Canon (DWC-85) or equivalent complete in all respects as approved by the Engineer incharge.	Each	6.00		
<b>TOTAL OF NSI ITEMS</b>						
<b>GRAND TOTAL OF PUBLIC HEALTH WORKS</b>						

ESTABLISHMENT AND DEVELOPMENT OF THE ISLAMIA UNIVERSITY OF BAHAWALPUR SUB CAMPUS						
ENGINEER'S COST ESTIMATE						
ELECTRICAL WORKS						
Sr. No.	Item No.	Description	Unit	Qty	Unit Rate (Rs.)	Total Amount (Rs.)
1		<b>WIRING IN CONCEALED CONDUITS</b>				
i)		<b>Distribution board to Switch</b>				
		Wiring of light circuit from Distribution Board to switch, with Three nos. single core 2.5 Sqmm PVC insulated 450/750 volts grade stranded copper conductor cables in concealed PVC conduits (conduits partly shared) including PVC conduit, and conduit accessories etc. Cable should be of FAST, Newage or universal cables and conduit should be of Solo, popular, easyfit or equivalent as approved by engineer incharge				
a	ch/24/10 (a(iii))	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 and capping/G.I. wire/trenches (rate for cables only):- a) 250/440 volts, PVC insulated: iii) 7/0.74 mm (7/0.029") <b>(17010+6480++15795+31824)</b>	RMtr	71109		
b	ch/24/3 (iii)	Supply and erection of PVC pipe for wiring recessed in walls, including inspection boxes, pull boxes, hooks, cutting jharries, and repairing surface, etc., complete with all specials. iii) 25 mm i/d <b>(5670+2160+5265+10608)</b>	Rmtr	23703		
ii)		<b>Switch to light point &amp; point to point wiring</b>				
		Wiring from switch to light or fan point with 3 nos. single core 1.5 Sqmm PVC insulated 450/750 Volts grade stranded copper conductor cables in concealed PVC conduit including PVC conduit, Conduit accessories, etc. (conduit partly shared). Cable should be of FAST, Newage or universal cables and conduit should be of Solo, popular, easyfit or equivalent as approved by engineer incharge				
a	ch/24/10 (a(i))	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 and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x 1.5 mm (3/0.029")	RMtr	9342		
b	ch/24/3 (ii)	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. ii) 20 mm i/d	Rmtr	3114		
iii)		<b>Switch to Switch</b>				
		Wiring from switch to switch with 3 nos. single core 2.5 Sqmm PVC insulated 450/750 Volts grade stranded copper conductor cables in concealed PVC conduit including PVC conduit, Conduit accessories, etc. (conduit partly shared). Cable should be of FAST, Newage or universal cables and conduit should be of Solo, popular, easyfit or equivalent as approved by engineer incharge				
a	ch/24/10 (a(iii))	Supply and erection of single core PVC insulated copper 38.1 conductor cables, in prelaidd PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing and capping/G.I. wire/trenches (rate for cables only):- a) 250/440 volts, PVC insulated: iii) 7/0.74 mm (7/0.029") <b>(6480)</b>	RMtr			

b	ch/24/ 3 (iii)	Supply and erection of PVC pipe for wiring recessed in walls, including inspection boxes, pull boxes, hooks, cutting jharries, and repairing surface, etc., complete with all specials. iii) 25 mm i/d (2160)	Rmtr			
iv)		<b>Distribution board to General Purpose ( 5A/13A) socket</b>				
		Wiring of circuit from Distribution Board to 5A/13A ,230Volts with 3 nos. single core 2.5 Sqmm PVC insulated 450/750 Volts graded , 2&3 pin switched socket, stranded copper conductor cables in concealed PVC conduit, including conduit accessories, etc(conduit partly shared). Cable should be of FAST, Newage or universal cables and conduit should be of Solo,popular,easyfit or equivalent as approved by engineer incharge				
a	ch/24/ 10 (a(iii))	Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only):- a) 250/440 volts, PVC insulated: iii) 7/0.74 mm (7/0.029") (15795)	RMtr			
b	ch/24/ 3 (iii)	Supply and erection of PVC pipe for wiring recessed in walls, including inspection boxes, pull boxes, hooks, cutting jharries, and repairing surface, etc., complete with all specials. iii) 25 mm i/d (5265)	Rmtr			
v)		<b>Socket to Socket</b>				
		Wiring from 5 Amps, 2&3 pin socket to socket with 3 nos. single core 2.5 Sqmm PVC insulated 450/750 Volts grade solid or stanerd copper conductor cables in concealed PVC conduit including PVC conduit,Conduit accessories, etc complete. (conduit partly shared). Cable should be of FAST, Newage or universal cables and conduit should be of Solo,popular,easyfit or equivalent as approved by engineer incharge				
a	ch/24/ 10 (a(iii))	Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only):- a) 250/440 volts, PVC insulated: iii) 7/0.74 mm (7/0.029") (31824)	RMtr			
b	ch/24/ 3 (iii)	Supply and erection of PVC pipe for wiring recessed in walls, including inspection boxes, pull boxes, hooks, cutting jharries, and repairing surface, etc., complete with all specials. iii) 25 mm i/d (10608)	Rmtr			

2		<b>LT CABLES</b>				
		Supply at site, installation, testing and commissioning of PVC insulated armoured copper conductor cable 600 / 1000 Volt grade (or otherwise mentioned in cable description ) in 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 Engineer before placing the order with the manufacturer, however, approximate length of cables are shown herewith. Payments shall be made as per actual length installed. Cable should be of FAST, Newage or universal cables and conduit should be of Solo,popular,easyfit or equivalent as approved by engineer incharge				
i)	ch/24/13 (c-v)	Supply and erection of copper conductor cables for service connection, in prelaidd pipe/G.I. wire/trenches, etc. (rate for cable only):- c) PVC insulated, PVC sheathed 4 core, 660/1100 volt non armoured cable:- v) 6 mm sq (7/0.044")	R.Mtr	250		
i)	ch/24/13 (c-vi)	Supply and erection of copper conductor cables for service connection, in prelaidd pipe/G.I. wire/trenches, etc. (rate for cable only):- c) PVC insulated, PVC sheathed 4 core, 660/1100 volt non armoured cable:- vi) 10 mm sq (7/0.052")	R.Mtr	220		
i)	ch/24/13 (c-vii)	Supply and erection of copper conductor cables for service connection, in prelaidd pipe/G.I. wire/trenches, etc. (rate for cable only):- c) PVC insulated, PVC sheathed 4 core, 660/1100 volt non armoured cable:- vii) 16 mm sq (7/0.064")	R.Mtr	290		
ii)	ch/24/13 (c-viii)	Supply and erection of copper conductor cables for service connection, in prelaidd pipe/G.I. wire/trenches, etc. (rate for cable only):- c) PVC insulated, PVC sheathed 4 core, 660/1100 volt non armoured cable:- viii) 25 mm sq (19/0.052")	R.Mtr	280		
iii)	ch/24/13 (c-xiii)	Supply and erection of copper conductor cables for service connection, in prelaidd pipe/G.I. wire/trenches, etc. (rate for cable only):- c) PVC insulated, PVC sheathed 4 core, 660/1100 volt non armoured cable:- xiii) 120 mm sq (37/0.83")	R.Mtr	150		
iv)	ch/24/13 (c-xiv)	Supply and erection of copper conductor cables for service connection, in prelaidd pipe/G.I. wire/trenches, etc. (rate for cable only):- c) PVC insulated, PVC sheathed 4 core, 660/1100 volt non armoured cable:- xiv) 150 mm sq (37/0.93")	R.Mtr	150		
v)	ch/24/13 (c-xv)	Supply and erection of copper conductor cables for service connection, in prelaidd pipe/G.I. wire/trenches, etc. (rate for cable only):- c) PVC insulated, PVC sheathed 4 core, 660/1100 volt non armoured cable:- xv) 185 mm sq (37/0.103")	R.Mtr	100		
vi)	ch/24/13 (c-xvi)	Supply and erection of copper conductor cables for service connection, in prelaidd pipe/G.I. wire/trenches, etc. (rate for cable only):- c) PVC insulated, PVC sheathed 4 core, 660/1100 volt non armoured cable:- xvi) 240 mm sq (37/0.114")	R.Mtr	150		

<b>3</b>		<b>GROUNDING SYSTEM</b>				
i)		<b>Grounding Cables</b>				
		Supply at site, installation, testing and commissioning of PVC insulated non armoured copper conductor cable 450/ 750 Volt grade (or otherwise mentioned in cable description ) in prelaid conduits / trenches to be installed as per routes shown on drawings including cost of all necessary materials, connections, identification tags, cables lugs properly crimped at both ends for the following sizes complete in all respects. Actual length of cables to be installed shall be practically measured at site by the Contractor, duly authenticated by the Engineer before placing the order with the manufacturer, however, approximate length of cables are shown herewith. Payments shall be made as per actual length installed. Cable should be of FAST, Newage or universal cables and conduit should be of Solo,popular,easyfit or equivalent as approved by engineer incharge				
a	ch/24/12 (ii)	Supply and erection of single core PVC insulated, PVC sheathed copper conductor, 660/1100 volts grade cable, in prelaid G.I. pipe/M.S. conduits/PVC pipe/G.I. wire/trenches, etc (rate for cable only):- ii) 6 mm sq (7/0.044")	R.Mtr	640		
b	ch/24/12 (iv)	Supply and erection of single core PVC insulated, PVC sheathed copper conductor, 660/1100 volts grade cable, in prelaid G.I. pipe/M.S. conduits/PVC pipe/G.I. wire/trenches, etc (rate for cable only):- iv) 16 mm sq (7/0.064")	R.Mtr	80		
c	ch/24/12 (vii)	Supply and erection of single core PVC insulated, PVC sheathed copper conductor, 660/1100 volts grade cable, in prelaid G.I. pipe/M.S. conduits/PVC pipe/G.I. wire/trenches, etc (rate for cable only):- vii) 50 mm sq (19/0.072")	R.Mtr	100		
d	ch/24/12 (viii)	Supply and erection of single core PVC insulated, PVC sheathed copper conductor, 660/1100 volts grade cable, in prelaid G.I. pipe/M.S. conduits/PVC pipe/G.I. wire/trenches, etc (rate for cable only):- viii) 70 mm sq (19/0.083")	R.Mtr	100		
e	ch/24/12 (ix)	Supply and erection of single core PVC insulated, PVC sheathed copper conductor, 660/1100 volts grade cable, in prelaid G.I. pipe/M.S. conduits/PVC pipe/G.I. wire/trenches, etc (rate for cable only):- ix) 95 mm sq (37/0.072")	R.Mtr	100		
f	ch/24/12 (x)	Supply and erection of single core PVC insulated, PVC sheathed copper conductor, 660/1100 volts grade cable, in prelaid G.I. pipe/M.S. conduits/PVC pipe/G.I. wire/trenches, etc (rate for cable only):- x) 120 mm sq (37/0.083")	R.Mtr	150		
<b>4</b>		<b><u>CONDUITS, PIPES, DUCT, CABLE TRAYS, FIXING CLAMPS AND FIXING ARRANGEMENTS</u></b>				

		Supply, installation, testing and commissioning of following conduits laid under floor for telephone/ data cables , optical fiber cables, Sub main power cables & earth cables including all conduit accessories. The PVC conduits shall be laid under floor including chiseling and cutting of floor for required dimensions, laying of conduit, backfilling of remaining cavity with CC as specified for floor in that area, making good, complete in all respect. conduit made of solo, popular, easyfit or equivalent as approved by engineer incharge.				
i)		<b>PVC Conduit</b>				
a	ch/24/3 (iii)	Supply and erection of PVC pipe for wiring recessed in walls, including inspection boxes, pull boxes, hooks, cutting jharries, and repairing surface, etc., complete with all specials. iii) 25 mm i/d	Rmtr	550		
b	ch/24/6 (i)	Supply and erection of PVC pipe for wiring recessed in wall including inspection boxes pull boxes, hooks, cutting jharries, and repairing surface, etc, complete with all specials ii) Cost of 50mm	Rmtr	280		
c	ch/24/6(ii)	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 80mm	Rmtr	50		
d	ch/24/6 (iii)	Supply and erection PVC pipe for recessed wiring (main and 38.2 & 38.3 sub-main) purpose, including bends, specials, etc. in floor, wall or trenches:- iii) Cost of 100mm	Rmtr	550		
5		<b>DISTRIBUTION BOARDS</b>				
		Supply at site, fabrication, installation, testing and commissioning of Distribution Board (DB) , made of sheet steel 16 SWG, degreased and derusted, with 2 coats of antirust paint, 2 coats of powder coated paint of approved colour, protection classification IP-44, totally enclosed indoor floor mounting cubicle type in free standing design, with hinged door, handle including cost of all auxiliaries, internal wiring, designation lables on MCCBS, grounding bar suitable for system Voltage 415 V, 50 Hz, 3 Phase and neutral bus bars of 99.9% electrolytic copper, including cost of cable terminal blocks wiring from breakers, brass cable glands, all accessories complete in all respects. All incoming and outgoing breakers shall be accessible only by opening the front door having further M.S. sheet cover gaskets shall also be provided where necessary. Panel should be compeltely made in certified factory. ie PEL, Green T & D, Mazcorp engineering or equivalent approved by engineer incharge.				
		All MCCBs shall be suitable to operate without any derating at 40°C ambient temperature and shall be of one make only. The sides of MDB shall also have louvers at bottom and top on sides of panel for hot air exhaust, wire mesh etc. The back of the panel shall be lockable door instead of bolted and shall conform to single line diagram. item should be of Schneider, Terasaki or equivalent approved by engineer incharge				

i)		<b>MAIN-DB HVAC</b>				
	ch24-91(a-ii)	P/F floor mounted Electric Panel board of required depth and size, fabricarted with 14SWG M.S sheet (Indoor/Outdoor Type),derusting, zinc Phosphated, finish with electro static powder coating in approved colour i/c the cost of Lock, Indication lights,thimbles, Copper Comb, Wiring, Netural & Earth Bar, glands,Current Transformers of specified capacity ,Door Earthing, Brass glands,bus bars,controles complete in all respects as approved and directed by the Engineer Incharge (Breakers will be Paid Separately). i) LT Switchboards (a) 2.50 Ft deep (ii)800~1200A	CFT	9		
		<b>INCOMING</b>				
	ch24-88/(a-x)	Supplying,Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/ABB SWITZERL(with adjustable Thermal-Magnetic Trip ) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge. Tripple Pole With Adjustable Thermal-Magnetic Trip /Electronic Trip (60-100%) (x) 630-1600 Amp(50 KA)	Each	1		
		<b>OUTGOING</b>				
		Supplying ,Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip ) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge				
	ch24-87/(a-vi)	a) Triple Pole (vi) 125-250 Amp (25 KA)	Each	2		
	ch24-87/(a-x)	a) Triple Pole (x) 300-630 Amp(36 KA)	Each	2		
ii)		<b>MAIN-DB</b>				
	ch24-91(a-i)	P/F floor mounted Electric Panel board of required depth and size, fabricarted with 14SWG M.S sheet (Indoor/Outdoor Type),derusting, zinc Phosphated, finish with electro static powder coating in approved colour i/c the cost of Lock, Indication lights,thimbles, Copper Comb, Wiring, Netural & Earth Bar, glands,Current Transformers of specified capacity ,Door Earthing, Brass glands,bus bars,controles complete in all respects as approved and directed by the Engineer Incharge (Breakers will be Paid Separately). i) LT Switchboards (a) 2.50 Ft deep (i) 300~600A	CFT	9		



		<b>INCOMING</b>				
	ch24-87/(a-x)	Supplying ,Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip ) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge. a) Tripple Pole (x) 300-630 Amp (36 KA)	Each	1		
		<b>OUTGOING</b>				
		Supplying ,Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip ) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge				
	ch24-87/(a-ii)	a) Triple Pole (ii) 15-100 Amp (10 KA, 15 KA)	Each	18		
iii)		<b>DB-GF-01</b>				
	ch24-90(a-ii)	P/F wall mounted DB (Distribution Board) made with 16SWG Sheet (Recessded/Surface mounted Type), Powder coated Paint, i/c the cost of Lock, Indication lights,Thimble, Copper Comb, Wiring, Netural & Earth Bar, Door Earthing, Digital Voltmeter,Digital Ammeter,Volt Selector Switch,Ammeter selector switch,Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately). (a) 6" deep (ii) 75~100A	CFT	9		
		<b>INCOMING</b>				
	ch24-87/(a-ii)	Supplying ,Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip ) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge. a) Tripple Pole (ii) 15-100 Amp (10 KA,15KA)	Each	1		
		<b>OUTGOING</b>				
		Suppling,Installation and comissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY /SIEMEN GERMAN/TERASAKI JAPAN/ ABB SWITZERLAND in prelaid DBs and Panels i/c the cost of screwes,necessary wire complete in all respect as approved and directed by the Engineer Incharge.				
	ch24-86/(a-ii)	a) Single Pole (ii) 6-40 Amp (6 KA)	Each	18		

iv)		<b>DB-GF-02</b>				
	ch24-90(a-ii)	P/F wall mounted DB (Distribution Board) made with 16SWG Sheet (Recessded/Surface mounted Type), Powder coated Paint, i/c the cost of Lock, Indication lights,Thimble, Copper Comb, Wiring, Netural & Earth Bar, Door Earthing, Digital Voltmeter,Digital Ammeter,Volt Selector Switch,Ammeter selector switch,Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately). (a) 6" deep (ii) 75~100A	CFT	9		
		<b>INCOMING</b>				
	ch24-87/(a-ii)	Supplying ,Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip ) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge. a) Tripple Pole (ii) 15-100 Amp (10 KA,15KA)	Each	1		
		<b>OUTGOING</b>				
		Supplying,Installation and comissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY /SIEMEN GERMANY/TERASAKI JAPAN/ ABB SWITZERLAND in prelaid DBs and Panels i/c the cost of screwes,necessary wire complete in all respect as approved and directed by the Engineer Incharge.				
	ch24-86/(a-ii)	a) Single Pole (ii) 6-40 Amp (6 KA)	Each	24		
v)		<b>DB-GF-03</b>				
	ch24-90(a-ii)	P/F wall mounted DB (Distribution Board) made with 16SWG Sheet (Recessded/Surface mounted Type), Powder coated Paint, i/c the cost of Lock, Indication lights,Thimble, Copper Comb, Wiring, Netural & Earth Bar, Door Earthing, Digital Voltmeter,Digital Ammeter,Volt Selector Switch,Ammeter selector switch,Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately). (a) 6" deep (ii) 75~100A	CFT	9		
		<b>INCOMING</b>				
	ch24-87/(a-ii)	Supplying ,Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip ) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge. a) Tripple Pole (ii) 15-100 Amp (10 KA,15KA)	Each	1		

		<b>OUTGOING</b>				
		Supplying,Installation and comissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY /SIEMEN GERMAN/TERASAKI JAPAN/ ABB SWITZERLAND in prelaid DBs and Panels i/c the cost of screwes,necessary wire complete in all respect as approved and directed by the Engineer Incharge.				
	ch24-86/(a-ii)	a) Single Pole (ii) 6-40 Amp (6 KA)	Each	30		
vi)		<b>DB-GF-04</b>				
	ch24-90(a-ii)	P/F wall mounted DB (Distribution Board) made with 16SWG Sheet (Recessded/Surface mounted Type), Powder coated Paint, i/c the cost of Lock, Indication lights,Thimble, Copper Comb, Wiring, Netural & Earth Bar, Door Earthing, Digital Voltmeter,Digital Ammeter,Volt Selector Switch,Ammeter selector switch,Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately). (a) 6" deep (ii) 75~100A	CFT	9		
		<b>INCOMING</b>				
	ch24-87/(a-ii)	Supplying ,Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip ) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge. a) Tripple Pole (ii) 15-100 Amp (10 KA,15KA)	Each	1		
		<b>OUTGOING</b>				
		Supplying,Installation and comissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY /SIEMEN GERMAN/TERASAKI JAPAN/ ABB SWITZERLAND in prelaid DBs and Panels i/c the cost of screwes,necessary wire complete in all respect as approved and directed by the Engineer Incharge.				
	ch24-86/(a-ii)	a) Single Pole (ii) 6-40 Amp (6 KA)	Each	26		
vii)		<b>DB-Lighting FF-01</b>				
	ch24-90(a-ii)	P/F wall mounted DB (Distribution Board) made with 16SWG Sheet (Recessded/Surface mounted Type), Powder coated Paint, i/c the cost of Lock, Indication lights,Thimble, Copper Comb, Wiring, Netural & Earth Bar, Door Earthing, Digital Voltmeter,Digital Ammeter,Volt Selector Switch,Ammeter selector switch,Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately). (a) 6" deep (ii) 75~100A	CFT	9		

		<b>INCOMING</b>				
	ch24-87/(a-ii)	Supplying ,Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip ) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge. a) Tripple Pole (ii) 15-100 Amp (10 KA,15KA)	Each	1		
		<b>OUTGOING</b>				
		Suppling,Installation and comissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY /SIEMEN GERMANY/TERASAKI JAPAN/ ABB SWITZERLAND in prelaid DBs and Panels i/c the cost of screwes,necessary wire complete in all respect as approved and directed by the Engineer Incharge.				
	ch24-86/(a-ii)	a) Single Pole (ii) 6-40 Amp (6 KA)	Each	12		
viii)		<b>DB-Lighting FF-02</b>				
	ch24-90(a-ii)	P/F wall mounted DB (Distribution Board) made with 16SWG Sheet (Recessded/Surface mounted Type), Powder coated Paint, i/c the cost of Lock, Indication lights,Thimble, Copper Comb, Wiring, Netural & Earth Bar, Door Earthing, Digital Voltmeter,Digital Ammeter,Volt Selector Switch,Ammeter selector switch,Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately). (a) 6" deep (ii) 75~100A	CFT	9		
		<b>INCOMING</b>				
	ch24-87/(a-ii)	Supplying ,Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip ) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge. a) Tripple Pole (ii) 15-100 Amp (10 KA,15KA)	Each	1		
		<b>OUTGOING</b>				
		Suppling,Installation and comissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY /SIEMEN GERMANY/TERASAKI JAPAN/ ABB SWITZERLAND in prelaid DBs and Panels i/c the cost of screwes,necessary wire complete in all respect as approved and directed by the Engineer Incharge.				
	ch24-86/(a-ii)	a) Single Pole (ii) 6-40 Amp (6 KA)	Each	8		

ix)		<b>DB-Power FF</b>				
	ch24-90(a-ii)	P/F wall mounted DB (Distribution Board) made with 16SWG Sheet (Recessded/Surface mounted Type), Powder coated Paint, i/c the cost of Lock, Indication lights,Thimble, Copper Comb, Wiring, Netural & Earth Bar, Door Earthing, Digital Voltmeter,Digital Ammeter,Volt Selector Switch,Ammeter selector switch,Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately). (a) 6" deep (ii) 75~100A	CFT	9		
		<b>INCOMING</b>				
	ch24-87/(a-ii)	Supplying ,Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip ) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge. a) Tripple Pole (ii) 15-100 Amp (10 KA,15KA)	Each	1		
		<b>OUTGOING</b>				
		Supplying,Installation and comissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY /SIEMEN GERMANY/TERASAKI JAPAN/ ABB SWITZERLAND in prelaid DBs and Panels i/c the cost of screwes,necessary wire complete in all respect as approved and directed by the Engineer Incharge.				
	ch24-86/(a-ii)	a) Single Pole (ii) 6-40 Amp (6 KA)	Each	8		
x)		<b>DB-Power Computer Labs*10</b>				
	ch24-90(a-ii)	P/F wall mounted DB (Distribution Board) made with 16SWG Sheet (Recessded/Surface mounted Type), Powder coated Paint, i/c the cost of Lock, Indication lights,Thimble, Copper Comb, Wiring, Netural & Earth Bar, Door Earthing, Digital Voltmeter,Digital Ammeter,Volt Selector Switch,Ammeter selector switch,Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately). (a) 6" deep (ii) 75~100A	CFT	90		
		<b>INCOMING</b>				
	ch24-87/(a-ii)	Supplying ,Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip ) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge. a) Tripple Pole (ii) 15-100 Amp (10 KA,15KA)	Each	10		

		<b>OUTGOING</b>				
		Supplying, Installation and commissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY /SIEMEN GERMANY/TERASAKI JAPAN/ ABB SWITZERLAND in pre-laid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge.				
	ch24-86/(a-ii)	a) Single Pole (ii) 6-40 Amp (6 KA)	Each	150		
<b>6</b>		<b>MISCELLANEOUS FITTINGS</b>				
		Providing and fixing Copper winded Exhaust fan with louver and shutter made of Pak/Younas/G.F.C. i/c the cost of necessary cable and hardware for connection from ceiling rose complete as approved and directed by Engineer Incharge.				
	ch24-102/(a-i)	(a) Plastic body (i) 10" dia	Each	13		
<b>7</b>		<b>WIRING ACCESSORIES</b>				
		P/F PVC double layer Switch kit Faceplate with specified switch holes i/c the cost of switches / sockets / dimmer made of Hi-Life / Bush / Schenider, screws complete as approved and directed by the Engineer Incharge				
		(a) One way Gange Switch				
	ch24-103 (a-vi)	(vi) Fan Dimmer	No.	380		
	ch24-103 (a-i)	Small (i) 01 Gange	No.	2		
	ch24-103 (a-ii)	Small (ii) 02 Gange	No.	8		
	ch24-103 (a-iii)	Small (iii) 03 Gange	No.	4		
	ch24-103 (a-iv)	(iv) Three pin Light Plug 10/13 Amp	No.	1221		
	ch24-103 (a-v)	(v) Telephone / TV/Datacable socket	No.	547		
	ch24-103 (a-i)	Large (i) 04 Gange	No.	79		
	ch24-103 (a-ii)	Large (ii) 05 Gange	No.	24		
	ch24-103 (a-iii)	Large (iii) 06 Gange	No.	22		
	ch24-103 (a-viii)	(viii) Three Pin Power Plug 15-32 Amp	No.	20		
		P/F PVC concealed Switch kit Box i/c the cost of screws complete as approved and directed by the Engineer Incharge				
	ch24-104 (i)	(i) Small	No.	1615		
	ch24-104 (ii)	(ii) Large	No.	145		

<b>8</b>		<b>CCTV System</b>				
i		<b>Camera Cable</b>				
		Supply, Installation and commissioning of wiring with 4-pair data Cable, 23 AWG UL/EN listed cable * Conforming to following standards: TIA/EIA 568 / ISO/IEC 11801, in prelaidd conduit / cable tray from including all accessories, Manufacturer/OEM Authorization, Make: Schneider / i-connect UK/3M Corning USA/ D-Link/ Pollo Australian or equivalent complete in all respect as approved and directed by Engineer Incharge.				
	ch24-106 (a-ii)	a) UTP (Unshielded Twisted pair) (ii)CAT-6A (Min.1G/ 10G @ 500MHz or higher)	MTR	800		
<b>Total of MRS Items</b>						
<b>1</b>		<b>LIGHT FIXTURES</b>				
		Supply, installation, testing and commissioning of following light fittings, ceiling, recessed,wall mounted as per specified fixture. Complete with internal wiring, Grounding terminal , driver complete in all respects. Lights should be of ledvance, Osaka or equivalent approved by engineer incharge				
i)	NSI	20 Watt LED Light Fixture surface/recessed mounted, IP-22 rated	No.	909		
ii)	NSI	15 Watt (White) LED Light Fixture surface/recessed mounted, IP-22 rated	No.	220		
iii)	NSI	10 Watt LED Light Fixture surface/recessed mounted, IP-22 rated	No.	60		
<b>2</b>		<b>MISCELLANEOUS FITTINGS</b>				
		Supply, installation, testing & commissioning of Ceiling/ Exhaust fan. The ceiling/exhaust fan shall comprise circular fan metallic/ plastic body, metallic fan blades, down rod (if necessary) of suitable dia & length, AC capacitor, internal wiring, terminals all installation & operational accessories as per tender specifications, as per site requirements and as directed by the Engineer. make Bilal Switchgear Engineering, GFC, Pak Fan or approved equivalent by engineer incharge				
i)	NSI	56" dia ceiling fan suitable to give an air displacement of minimum 8000 Cu. ft./ min. Fan shall be made with 99% purity Copper windings.	No.	380		
ii)	NSI	Providing and Fixing of brass bracket fan 18" (good quality)	No.	9		
<b>3</b>		<b>WIRING ACCESSORIES</b>				
		Supply at site, installation, testing and commissioning of the following wiring accessories, complete in all respects. Made of TJ, HiLife or equivalent approved by engineer incharge				
i)	NSI	Appropriate size of plastic body fan box and ceiling fan rod 24" in length	Nos	380		
<b>4</b>		<b>Fire Alarm System</b>				
		<b>(General Description)</b> Supply, installation, testing and commissioning of following items as per drawings, specifications, & instructions of the Engineer, complete in all respect, all item should be of Gent by honeywell, ETON uk or approved equivalent as per instructions by the Engineer as required.				

i)		<b>Manual Call Point</b>				
	NSI	Supply, install testing and commisioning of manual call point RESET type with allied components with full functionality as per specification of manufacturer / drawing with proper staff and tools and plants etc. Input Source Zone signal Address Coding dip switch Operating Voltage 26V DC Alarm Current 6mA Quiescent Current 850µA Ambient Temperature 0°C ~ +50°C Material Fire-proof plastic	Each	10		
ii)		<b>Smoke Detector</b>				
	NSI	Supply, install testing and commisioning of Addressable Optical Smoke Detectors incorporating a with in the housing of the detector. Sensing of the detector shall be adjustable via software between 0-90 seconds. Address Coding Binary Alarm Current DC26V 6mA Standby Current DC26V 850µA Sensitivity Setting Comply to EN54 Ambient Temperature 0°C ~ +50°C Material Fire-proof plastic	Each	172		
iv)		<b>Sounder</b>				
	NSI	Supply, install testing and commisioning of Intelligent analogue addressable Loop powered sounder with flasher and red body and wall mounting base. Input Source Zone signal Address Coding Binary dip switch Operating Voltage 26.5V DC Standby Current Under 850µA Alarm Current Under 8mA Sound Output 90 ±4dB at 1 meter Sounder Output 2.3~3.4KHz Ingress Protection IP65 Ambient Temperature -20°C ~ +50°C Ambient Humidity 10% ~ 95% Material Fire-proof plastic	Each	10		
v)		<b>FACP</b>				
	NSI	Supply, install, testing and commisioning of Addressable FACP. Each loop can connect up to 250 addressable devices. Maximum networking are 32 loops and total addressable points are 8000. Large LCD screen (40 x 15 lines) allows more events to be displayed on the same screen. Power 220V AC 50/60Hz *Others also available Battery Capacity 24V DC 4Ah Charging Voltage, Current 26V DC 100~400mA *With auto adjustment function Zone Voltage, Current 26.5V DC 340mA System Capacity 250 devices/1 loop *Expandable for site requirement Exterior Resistance Round-trip under 40Ω Transmitting Method Digital series transmitting Accumulation Time 0~40 seconds Main Sound 85dB @1M Material 1.6mm steel plate	Each	1		



vi)		<b>Cable</b>				
	NSI	Supply, install testing and commissioning of 2 x 2.5 mmsq shielded drain wire, 30 minutes fire resistance, red, LPCB approved, BS 7629-1/2008, BS 5839-1 standard in 25 mm dia pvc conduit complete in all respects including cost of conduit and its accessories installing arrangement, making juries in wall and repairment of wall. (Newage, Pakistan Cable, Fast or approved equivalent). conduit should be of Dadex, Turkplast, Easyfit or equivalent as per instructions by engineer in charge.	Rmtr	800		
vii)		<b>Programming, Testing and Commissioning</b>				
	NSI	Programming, Testing and Commissioning of Complete system by authorized certified company complete in all respects as per instructions of the Engineer.	Job	1		
viii)		<b>Fire Extinguishers</b>				
	NSI	Supply & installation of 1 x 6kg DCP CO2 Fire Extinguishers installed as per instructions of Cleint, complete with wall hanging and mounting arrangement complete in all respects. Complete in all respect as per instructions by site engineer	Nos.	10		
5		<b>GROUNDING SYSTEM</b>				
i)		<b>Earthing system with road</b>				
	NSI	Supply and install pair of earth electrode comprising 13ft (4m) long 2" (50mm) dia G.I. pipe having 3/8" (10mm) dia holes at 20" (500mm) c/c all along the length of pipe buried 40ft (6.09m) underground in upright position including all accessories for complete installation such as nuts bolts, washers 2x3/0 SWG copper conductor earthing lead complete in all respect	No.	2		
ii)		<b>Grounding Connection Point</b>				
	NSI	Supply of Grounding connecting points consisting of copper plate 300mm long x 50mm wide x 6mm thick to be installed, complete with fixing arrangement, brass nuts bolts, washers, lugs, 12.5mm dia. holes to facilitate connections of Incoming copper strips / copper conductors.	Nos.	2		
iii)		<b>Testing and commissioning</b>				
	NSI	Testing and commissioning of the earthing system in the presence of site engineer with electronic devices such as megger etc, making so report with after approximating 3 time testing and the grounding ohm must be less than or upto 3 ohms	Nos.	2		
<b>Total of Non-MRS Items</b>						
<b>Grand Total</b>						

**ESTABLISHMENT AND DEVELOPMENT OF THE ISLAMIA UNIVERSITY OF BAHAWALPUR SUB CAMPUS AT  
AHMADPUR EAST  
ACADEMIC BLOCK**

**BILL OF QUANTITIES**

**EXTERNAL DEVELOPMENT**

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
1	C-10/3	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 respects.	%Cft	7977.1		
2	C-10/41-c	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) c) 80-mm thick	P.Sft	7977.11		
3	C-6/53-(ii)	Providing & fixing precast Edge Kerb Stone (4" to 6" thick) and 14" high of Compressive Strength of 3500 PSI laid in cement sand mortar (1:3) over pre-laid brick masonry for drain cum footpath etc complete in all respect.	P.Rft	3452.40		
4	C-26/45-(i)	Supply and Erection of 10 ft high Cantiliver type Car Parking Shed consisting of 3 mm thick fiber glass sheet roof fixed / riveted with moulded curved frame comprising of 1-1/2"x1-1/2" 16-SWG MS box placed @ 2 ft C/C both sides and 1-1/2"x3" M.S box 16-SWG at front and back side welded on cantiliver arch type MS pipe 3" dia arms welded with 3/8" thick and 8 " dia Main Post duly welded with 1/2" thick 1.5'x1.5' base plate and 4 no stiffeners of 1/2" thick MS sheet embeded in PCC 2'x2'x3' with 18" long nut bolts 1"dia i/c cost of foundation, cutting straightening assembling, bending as per drawing, welding / grinding of joints and painting three coats complete in all respect as approved by the Engineer Incharg respects. (i) One side Cantiliver	P.Sft	4620.00		
5	C-6/5(f)	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):(f) Ratio 1: 2: 4	%Cft	2664.4		
<b>Total of MRS ITEMS</b>						
<b>GRAND TOTAL OF CIVIL WORKS</b>						

**ESTABLISHMENT AND DEVELOPMENT OF THE ISLAMIA UNIVERSITY OF BAHAWALPUR SUB CAMPUS AT AHMADPUR  
EAST  
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**BILL OF QUANTITIES**

**HVAC WORKS**

Sr. No.		Qty	Unit	Supplies (PKR)		Installations (PKR)		Total Amount
				Rate	Amount	Rate	Amount	
	<b>EQUIPMENT</b>							
1	Supply, Installation Testing & Commissioning of All DC Inverter Controlled Variable Refrigerant Flow (VRF) Heat Pump Type Multi Split A/c System with 02 compressors complete with built-in auto control system & Central Controller with display (Tablet) including unloading, Lifting, placing and Fixing at foundation at locations shown on drawing. Capable to operate at 48 °C ambient without tripping with T3 compressor.  <b>Make: GREE, AUX, HISENSE or Eq.</b>							
	a) Outdoor Condensing Units							
	CU-1 (Net Cap. 62 TR)	1	No.					
	CU-2 (Net Cap. 56 TR)	1	No.					
	CU-3 (Net Cap. 58 TR)	1	No.					
	CU-4 (Net Cap. 54 TR)	1	No.					
	CU-5 (Net Cap. 45 TR)	1	No.					
	CU-6 (Net Cap. 44 TR)	1	No.					
	CU-7 (Net Cap. 44 TR)	1	No.					
	CU-8 (Net Cap. 48 TR)	1	No.					
	b) Indoor Units							
	i) Cassette Type Units							
	CIU-1 ( 1.2 TR)	35	Nos.					
	CIU-1 ( 1.5 TR)	9	Nos.					
	CIU-1 ( 2.0 TR)	96	Nos.					
	CIU-1 ( 3.0 TR)	18	Nos.					
	ii) Fresh Air Ducted Units							
	FIU-1 (2000 CFM - 14 TR - ESP 0.88")	4	Nos.					
	FIU-2 (1600 CFM - 12 TR - ESP 0.75")	4	Nos.					
	iii) Auto Control System For VRF System with Central C	1	Nos.					
	iv) Refrigerant Distributer (Y-Type) Pipe Joints	1	Lot					
2	Supply & Installation of Centrifugal Fans as specified and scheduled complete with gravity shutter, un-loading, lifting and fixing at locations as shown on the drawings.							
	EF-1 (200 CFM @ 0.75" E.S.P)	4	No.					
	EF-2 (500 CFM @ 1.0" E.S.P)	1	No.					
	<b>DUCT WORKS</b>							
3	Supply, Fabrication and Installation of G.I. ducting & Sheet Metal work complete with 1" thick foam insulation, hangers, bracings, splitter dampers etc							
	US Gauge 26	###	Sft					
	US Gauge 24	###	Sft					
4	Supply & Installation of round insulated flexible duct complete with jubilee clamps.							
	Ø 6"	250	Rft					
5	Supply & Installation of 18 gauge G.I. Sheet Volume Control dampers as specified	10	Sft					
6	Supply & Installation of Aluminum air devices as specified and scheduled							

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EAST  
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**BILL OF QUANTITIES**

**HVAC WORKS**

Sr. No.		Qty	Unit	Supplies (PKR)		Installations (PKR)		Total Amount
				Rate	Amount	Rate	Amount	
	L Fresh / Exhaust Air Louvers	18	Sft					
	D 4D Diffuser	25	Sft					
	<b>PIPE WORKS</b>							
7	Supply and Installation of Gas & Liquid Copper Piping along with isolation valves with each indoor unit for A/c System Complete with ArmaFlex O Class Tube type 19mm thick insulation, gas charging, accessories, clamping and other related material for installation purpose, complete in all respect.  <b>REFRIGERANT PIPE SIZES SHALL BE AS PER MANUFACTURER'S RECOMMENDATION.</b>	1	Lot					
8	Supply & installation of G.I Sheet Tray with top covering required to install refrigerant pipes running at exposed roof	1	Lot					
9	Supply, fabrication and installation of PVC Drain Piping & Fittings complete with the insulation and taping, including hangers, anchor bolts, rubber vibration mounts etc.							
	Ø 0.75 Inch	###	Rft					
	Ø 1.00 Inch	350	Rft					
	<b>ELECTRICAL WORKS</b>							
10	Supply & installation of HVAC related Electrical works as specified and as shown on the drawings							
	a) Electrical Panels							
	ACP-1	1	No					
	ACP-2	1	No					
	ACP-3	1	No					
	ACP-4	1	No					
	b) Conduiting and wiring onward from main panel room to MCC, MCC to all outdoor units and DB to all HVAC equipment (indoor & outdoor) complete with cables/wires, cables glands, cable ties, cable trays, cable trunking, G.I./PVC conduits etc. including earthing, control wiring and all other items to complete the Job.	1	Lot					
				<b>Total</b>				
				GST (17%) & SST (16%)				
				<b>Grand Total</b>				