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**CONSTRUCTION OF MOSQUE AT RAHIM YAR KHAN CAMPUS, THE ISLAMIA UNIVERSITY OF BAHAWALPUR**

<b>BILL OF QUANTITIES</b>						
<b>CIVIL WORKS</b>						
<b>1st BI-ANNUAL-2020 (1st JANUARY-2020 to 30th JUNE-2020) DISTRICT RAHIM YAR KHAN</b>						
<b>Sr. No.</b>	<b>Item No.</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
1	C-3/21(b)	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) in ordinary soil.	%0Cft	39290.75		
2	C-26/42	Spraying anti-termite liquid mixed with water in the ratio of 1:40.	%Sft	34230.19		
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	2702.74		
4	C-6/6 a-ii (3)	Reinforced cement concrete in slab of rafts / strip foundation, base slab of column and retaining walls; etc and other structural members other than those mentioned above not requiring form work (i.e. horizontal in shuttering) complete in all respects: Type C (nominal mix 1: 2: 4)	P.Cft	7865.15		
5	C-6/6 a-i (3)	Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects: Type C (nominal mix 1: 2: 4), Ground floor	P.Cft	7751.42		
6	C-6/6 a-i (3)+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 C (nominal mix 1: 2: 4), add extra for First Floor.	P.Cft	5259.84		
7	C-6/6 a-i (3)+c	Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects: Type C (nominal mix 1: 2: 4), erecting and fixing in position, precast cement concrete or stone slab in roofs or lintels, etc. lift unto 30 ft., (9m) including all charges.	P.Cft	116.19		
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), Ground Floor	P.Cft	2534.43		
9	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	916.45		
10		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), Minar				
	C-6/6 a-i (2)	Foundation to F.G.L & F.G.L to 20' Height	P.Cft	236.25		
	C-6/6 a-i (2) + 13(a)	20' Height to 40' Height	P.Cft	210.00		
	C-6/6 a-i (2) + 13(a+b)	40' Height to 50' Height	P.Cft	124.69		
	C-6/6 a-i (2) + 13(a+b)	50' Height to 60' Height	P.Cft	104.99		
	C-6/6 a-i (2) + 13(a+b)	60' Height to Top Height	P.Cft	34.45		

11	C-6/9(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	94538.73		
12	C-7/4(i)	Pacca brick work in foundation and plinth in Cement,sand mortar. Ratio 1:6	%Cft	6315.88		
13	C-3/15(i)	Filling, watering, ramming earth under floors (with surplus earth foundation).	%0Cft	13096.92		
14	C-3/15(ii)	Filling, watering and ramming earth under floors with new earth excavated from outside lead upto one chain (30 m).	%0Cft	25473.76		
15	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 1.5km)				
	a	upto ¼ mile (400 m).	%0Cft	25473.76		
	b	for every 330 ft. (100 m) additional lead or part thereof, beyond ¼ mile (400 m) upto one mile. (1.6 Km.)	%0Cft	25473.76		
16	C-7/5(i)	Pacca brick work in ground floor cement, sand mortar Ratio 1:5	%Cft	5792.96		
17	C-7/5(i)	Pacca brick work in ground floor cement, sand mortar Ratio 1:4	%Cft	259.01		
18	C-7/5(i)+ 7/6(i)	Pacca brick work in first floor cement, sand mortar Ratio 1:5	%Cft	3359.91		
19	C-7/5(i)+ 7/6(i)	Pacca brick work in first floor cement, sand mortar Ratio 1:4	%Cft	283.17		
20	C-11/11(b)	Cement plaster 1:5 upto 20' (6.00 m) height, ½" (13 mm) thick.	%Sft	18287.35		
21	C-11/11(c)	Cement plaster 1:5 upto 20' (6.00 m) height, ¾" (20 mm) thick.	%Sft	5254.84		
22	C-11/9(c)	Cement plaster 1:4 upto 20' (6.00 m) height, ¾" (20 mm) thick.	%Sft	21524.14		
23	C-11/32(ii)	Providing grooved cement sand plaster 1:3 over existing plastered and roughened surface upto 20' (6.00 m) height. 1/2" (13 mm) thick	%Sft	1392.17		
24	C-11/10(b)	Cement plaster 3/8" thick under soffit or R.C.C. roof slab only upto 20' high ratio 1:3.	%Sft	16008.26		
25	C-13/31 (a+b)	Preparing surface and painting with emulsion paint:- 3 Coats.	%Sft	39550.45		
26	C-13/32A (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: new surface: 2 Coats.	%Sft	21524.14		
27	C-7/30	Supplying and filling sand under floor; or plugging in wells.	%Cft	4258.27		
28	C-6/2	Dry rrammed brick or stone ballast, 1½" to 2"( 40 mm to 50mm) gauge.	%Cft	4258.27		
29	C-6/5(f)	Cement concrete plain including placing,compacting, finishing and curing complete (including screening and washing of stone aggregate), Ratio 1: 2: 4	%Cft	2825.09		
30	C-10/15(e)	Providing and laying topping of cement concrete 1:2:4, including surface finishing and dividing in panels: 2" (50 mm) thick.	%Sft	148.32		
31	C-9/5	Single layer of tiles 9"x4½"x1½" (225x113x40 mm) laid over 4"(100 mm) earth and 1" (25 mm) mud plaster without Bhoosa, grouted with cement sand 1:3 on top of RCC roof slab, provided with 34 lbs. per %Sft. or 1.72 Kg/Sq.m bitumen coating sand blinded.	%Sft	8693.20		
32	C-9/45(b)	Providing and Laying Insulation material of Extruded Polystyrene XPS in Rigid Insulation / Foam Board on roof or walls, Density 32-38Kg/M, compressive strength 250-400 kpa, R-value 5 per inch thickness and water absorption (1% by volume, cell structure closed cell) i/c cutting and placing in position. complete in all respect. 1-1/2" thick	%Sft	8693.20		
33	C-26/37(ii)	Supplying and laying polythene sheet over D.P.C. under floors and on roofs, etc.	P.Sft	8693.20		

34	C-25/53(b)	Providing and fixing all types of glazed aluminum windows of anodized champagne color partly fixed and party sliding using deluxe section of approved manufacturer having Frame of size 100mmx30mm using frame at bottom, attopand side leaf leaf frame sections of 60mmx23mm at top & bottom and size 45mmx25mm at center and size 45mmx25mm at sides,Jali leaf frame size 43mmx13mm i/c fine quality aluminum jali, 5mm thick imported tinted glass with rubber gasket using approved standard latches, wheel, stopper, brush channel angle joint and hardware etc.in all respect. 2 mm thick.	P.Sft	1896.75		
35	C-12/54	Providing and fixing M.S. flat ½"x1/8" (13mm x 3mm) grill including ¾" x 1/8" (20 mmx3 mm) M.S. flat frame, in windows of approved design, including painting three coats, complete in all respects.	P.Sft	1417.80		
36	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	206.00		
37	C-12/15(a)	Providing and fixing M.S. sheet hollow pressed frame of doors, windows, C. windows, etc. (chowkat only) of 20 SWG welded with M.S. flat 6"x 1¼" x 1/8" (150mmx30mmx3mm) M.S. holdfast 9"x1"x1/8" (225mmx25mmx3mm) welded/screwed 4" (100 mm) long iron hinges, including filling chowkat with cement sand mortar 1:8 and embedding holdfast in cement concrete 1:2:4, complete in all respects: single rebate	P.Sft	638.60		
38	C-13/7	French polishing complete: on new work.	%Sft	1277.20		
39	C-9/15	Khuras on roof 2'x2'x6" (600 x 600 x 150 mm)	Each	9.00		
40	C-6/33(a-ii)	Providing and laying damp proof course of cement concrete 1:2:4 (using cement, sand and shingle), including one coat bitumen and one coat polythene sheet 500 gauge, 2" thick (50 mm).	%Sft	177.87		
41	C-25/10+ 11	Fabrication of heavy steel work, with angle, tees, flat iron round iron and sheet iron for making trusses, girders, tanks, etc., including cutting, drilling, revitting, handling, assembling and fixing, including erection in position.	%kg	1078.09		
42	C-13/5 d(i+ii)	Painting new surface:- Preparing surface and painting guard bars, gates of iron bars, gratings, railing (including standards,braces, etc.) and in similar open work:- Prime coat + 2 subsequent coats	%Sft	915.08		
43	C-12/40 b(i)	Providing and fixing partition, including frame work: Sheets on both sides of frame work: Hard board (removeable partition)	%Sft	131.84		
<b>Total of MRS ITEMS</b>						<b>Total</b>
1	NSI	Providing and laying structural pad for foundation made of selected granular fill material (Mixture of 50% gravel and 50% 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	9459.42		
2	NSI	Providing and laying matt Ceramic tiles texture light color for flooring size 9"x26"x3/8" laid over 3/4" thick cement sand mortar (1:2) i/c filling joints in white cement and matching pigment i/c cutting charges complete in all respect as approved & directed by the engineer in charge.(Master or Equivalent)	P.Sft	2266.45		
3	NSI	Providing and laying matt Ceramic tiles texture light color for skirting / dado size 9"x26"x3/8" laid over 3/4" thick cement sand mortar (1:2) i/c filling joints in white cement and matching pigment i/c cutting charges complete in all respect as approved & directed by the engineer in charge. (Master or Equivalent)	P.Sft	3086.14		

4	NSI	Providing and laying Granite tiles flooring 24"x24"x3/8" salt pepper light polished SB laid in white cement and matching pigment over 3/4" thick cement sand mortar (1:2) i/c filling joints in white cement and matching pigment complete in all respect.(SPM-110 Master or Equivalent).	P.Sft	12722.56		
5	NSI	Providing and laying Granite tiles skirting dado 24"x24"x3/8" salt pepper light polished SB laid in white cement and matching pigment over 3/4" thick cement sand mortar (1:2) i/c filling joints in white cement and matching pigment complete in all respect.(SPM-110 Master or Equivalent).	P.Sft	730.22		
6	NSI	Providing and fixing 3/4" thick pre-polished cherry pink marble full width area above 2 sft laid in white cement matching pigment 3/4" thick cement sand mortar (1:2) i/c fitting joints in white cement & matching pigment i/c making gola on exposed edges complete in all respect as approved by the engineer in charge. (Internal Stairs)	P.Sft	473.80		
7	NSI	Providing and fixing 3/4" thick pre-polished cherry pink marble full width area above 2 sft laid in white cement matching pigment 3/4" thick cement sand mortar (1:2) i/c fitting joints in white cement & matching pigment i/c making gola on exposed edges complete in all respect as approved by the engineer in charge. (Stairs & Slab)	P.Sft	1043.06		
8	NSI	Providing and laying marble of pre-polished cherry pink marble size 2'x4'x3/8" laid in white cement and matching pigment over 3/4" thick cement sand mortar (1:2) i/c filling joints in white cement and matching pigment and chemical polishing complete in all respect as approved & directed by the engineer in charge. (Floor)	P.Sft	1283.77		
9	NSI	Providing and fixing solid engineered door of red oak (NTC SED-859 or Equivalent) including hinges, tower bolt rubber stop cleats handles and chord with hooks etc. complete in all respect and as approved by the engineer in charge.	P.Sft	552.08		
10	NSI	Providing and fixing solid engineered door of teak wood (NTC FGV-307 or Equivalent) including hinges, tower bolt rubber stop cleats handles and chord with hooks etc. complete in all respect and as approved by the engineer in charge.	P.Sft	86.52		
11	NSI	Providing & fixing door handle lock of good quality, complete in all respect as per approval of Engineer/ Incharge. (RW-46 MSN Royalwand or Equivalent)	Each	17.00		
12	NSI	Providing and fixing UPVC Doors 38mm thickness i/c delux 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	234.33		
13	NSI	Providing/ fixing islamic art pattern aluminium jali 11mm thick, size as per site requirement including M.S supporting frame and screws etc., complete in all respect as per instruction of Engineer/ Incharge.	P.Sft	2461.75		
14	NSI	Providing/ fixing railing consisting of S.S. Pipe section size 2" dia of 18 SWG welded with S.S. flat 1"x1/8" continuously and welded over S.S. pipe punched in S.S. flat 2 3/4' high @ 5 1/2" c/c fixed in steps of stair, complete in all respect as per Engineer/ Incharge.	P.Rft	293.55		
15	NSI	Providing high performance high range water reducer (superplasticizer)for concrete as per approved mix design and approval of Engineer Incharge (Sika or equivalent)	P.kg	2776.00		
<b>Total of Non MRS ITEMS</b>					<b>Total</b>	
<b>GRAND TOTAL OF CIVIL WORKS</b>						

Electrical Work

Item No.	Description	Unit	Qty	Unit Rate (Rs.)	Total Amount (Rs.)
<b><u>SECTION - A</u></b>					
<b><u>DISTRIBUTION BOARDS</u></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, JEL, Mazcorp engineering or equivalent approved by site engineer.				
	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 ABB, Schneider or equivalent approved by site engineer				
C-A-01	<b>DISTRIBUTION BOARD DB-Masiid RYK</b>				
	<b>INCOMING</b>				
	01-80 Amps TP MCCB RC=10KA				
	03 Nos. Phase indication lamps of colour Red, Yellow, Blue.				
	03 Nos. 2 Amps fuses				
	01 Nos Digital Voltmeter scaled 0-500 Volts of appropriate sizes.				
	01 Nos.Voltmeter selector switch				
	05 Nos.copper bus bars 80 Ampere,three phase,Earth and Netural for distrubitions.				
	<b>OUTGOING</b>				
	13-10 Amps SP MCB RC=6 KA				
	13-16 Amps SP MCB RC=6 KA				
	13-20 Amps SP MCB RC=6 KA	Job	2		
		Sub Total Part -A Rs.			
<b>Item No.</b>	<b>Description</b>	<b>Unit</b>	<b>Qty</b>	<b>Unit Rate (Rs.)</b>	<b>Total Amount (Rs.)</b>
	<b>SECTION - B</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 Phillips				
C-B-01	17 Watt LED/SMD Light Fixture, IP-44 rated	No.	165		
C-B-02	9 Watt LED Light Fixture surface/recessed mounted, IP-44 rated	No.	24		
		Sub Total Part -B Rs.			
<b>Item No.</b>	<b>Description</b>	<b>Unit</b>	<b>Qty</b>	<b>Unit Rate (Rs.)</b>	<b>Total Amount (Rs.)</b>
	<b>SECTION - C</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 or approved equivalent.				
C-C-01	12 " outer dia exhaust fan with metallic body,fan blades and louvers	No.	15		
C-C-02	24" outer dia Wall Bracket fan,1450Rpm, Max 50db sound level Fan shall be made with 99% purity Copper windings	No.	6		

	C-C-03	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.	90		
			Sub Total Part -C Rs.			
<b>Item</b>		<b>Description</b>	<b>Unit</b>	<b>Qty</b>	<b>Unit Rate (Rs.)</b>	<b>Total Amount (Rs.)</b>
		<b><u>SECTION - D</u></b>				
		<b><u>WIRING IN CONCEALED CONDUITS</u></b>				
-D-01		<b><u>Distribution board to Switch</u></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 Paksitan Cable,Newage or fast cable and conduit should be of Solo,popular or equivalent as approved by site engineer				
i	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 and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x 2.5 mm (7/0.029")	RMtr	1890		
ii	ch/24/3 (iii)	Supply and erection of PVC pipe for wiring recessed in wall including inspection boxes pull boxes, hooks, cutting jharries, and repairing surface, etc, complete with all specials ii) Cost of 25mm	Rmtr	315		
-D-02		<b><u>Switch to light point &amp; point to point wiring</u></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).				
i	ch/24/10 (a(i))	Supply and erection of single core PVC insulated copper conductor cables in prelaid PVC pipe/M.S conduit G.I pipe\wooden strip batten/wooden casing and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x 1.5 mm (3/0.029")	RMtr	9000		
ii	ch/24/3 (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 20mm	Rmtr	1500		
-D-03		<b><u>Switch to Switch</u></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).				
i	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 and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x 2.5 mm (7/0.029")	RMtr	1050		
ii	ch/24/3 (iii)	Supply and erection of PVC pipe for wiring recessed in wall including inspection boxes pull boxes, hooks, cutting jharries, and repairing surface, etc, complete with all specials ii) Cost of 25mm	Rmtr	250		
-D-04		<b><u>Distribution board to General Purpose ( 5A/13A) socket</u></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)				
i	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 and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x 2.5 mm (7/0.029")	RMtr	1296		
ii	ch/24/3 (iii)	Supply and erection of PVC pipe for wiring recessed in wall including inspection boxes pull boxes, hooks, cutting jharries, and repairing surface, etc, complete with all specials ii) Cost of 25mm	Rmtr	216		
-D-05		<b><u>Socket to Socket</u></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)				
i	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 and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x 2.5 mm (7/0.029")	RMtr	405		
ii	ch/24/3 (iii)	Supply and erection of PVC pipe for wiring recessed in wall including inspection boxes pull boxes, hooks, cutting jharries, and repairing surface, etc, complete with all specials ii) Cost of 25mm	Rmtr	135		
C-D-06		<b><u>Distribution board to 15Amps socket</u></b>				
		Wiring of circuit from distribution board to 15A, 230Volts, DP switch with 3 nos. single core 4Sqmm PVC insulated 450/750 Volts grade stranded copper conductor cables in concealed PVC conduit including PVC conduit, Conduit accessories, etc (conduit partly shared for A/Cs)				
i	ch/24/10 (a(iv))	Supply and erection of single core PVC insulated copper conductor cables in prelaid PVC pipe/M.S conduit G.I pipe/wooden strip batten/wooden casing and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x 4 mm (7/0.036")	RMtr	969		
ii	ch/24/3 (iii)	Supply and erection of PVC pipe for wiring recessed in wall including inspection boxes pull boxes, hooks, cutting jharries, and repairing surface, etc, complete with all specials ii) Cost of 25mm	Rmtr	171		
C-D-07		<b><u>Distribution board to 20Amps socket</u></b>				
		Wiring of circuit from distribution board to 20A, 230Volts, DP switch with 3 nos. single core 6 Sqmm PVC insulated 450/750 Volts grade stranded copper conductor cables in concealed PVC conduit including PVC conduit, Conduit accessories, etc (conduit partly shared for A/Cs)				
i	ch/24/10 (a(v))	Supply and erection of single core PVC insulated copper conductor cables in prelaid PVC pipe/M.S conduit G.I pipe/wooden strip batten/wooden casing and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x 4 mm (7/0.044")	RMtr	1026		
ii	ch/24/3 (iii)	Supply and erection of PVC pipe for wiring recessed in wall including inspection boxes pull boxes, hooks, cutting jharries, and repairing surface, etc, complete with all specials ii) Cost of 25mm	Rmtr	171		
			Sub Total Part -D Rs.			
<b>Ite m</b>		<b>Description</b>	<b>Unit</b>	<b>Qty</b>	<b>Unit Rate (Rs.)</b>	<b>Total Amount (Rs.)</b>
		<b><u>SECTION-E</u></b>				
		<b><u>LT CABLES</u></b>				
		Supply at site, installation, testing and commissioning of PVC insulated non armoured copper conductor cable 600 / 1000 Volt grade (or otherwise mentioned in cable description ) in prelaid conduits / trenches to be installed as per routes shown on drawings including cost of all necessary materials, connections, identification tags, cables lugs properly crimped at both ends for the following sizes complete in all respects. Actual length of cables to be installed shall be practically measured at site by the Contractor, duly authenticated by the Engineer before placing the order with the manufacturer, however, approximate length of cables are shown herewith. Payments shall be made as per actual length installed. Cable should be of Paksitan Cable,Newage or fast cable and conduit should be of Solo,popular or equivalent as approved by site engineer				
-E-0	ch/24/13 (c-vii)	Supply and erection of copper conductor cables for service ditto connection, in prelaid pipe/G.I. wire/trenches, etc. (rate for cable only) cost of 4 x 25mm (19/0.052)	R.Mtr	250		

ii	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	250		
			Sub Total Part -E Rs.			
<b>Item</b>		<b>Description</b>	<b>Unit</b>	<b>Qty</b>	<b>Unit Rate (Rs.)</b>	<b>Total Amount (Rs.)</b>
		<b><u>SECTION - F</u></b>				
		<b><u>WIRING ACCESSORIES</u></b>				
		Supply at site, installation, testing and commissioning of the following wiring accessories, complete in all respects. Made of Phillips				
C-F-01		Supply at site, installation, testing and commissioning of the following wiring accessories, complete in all respects. Made of Phillips	No.	22		
C-F-02		10 Amps, 250Volts one way, One gang light control switches including appropriate size concealed Plastic back box.	No.	10		
C-F-03		10 Amps, 250Volts one way, Two gang light control switches including appropriate size concealed Plastic back box.	No.	1		
C-F-04		10 Amps, 250Volts one way, Three gang light control switches including appropriate size concealed Plastic back box.	No.	4		
C-F-05		10 Amps, 250Volts one way, Four gang light control switches including appropriate size concealed Plastic back box.	No.	4		
C-F-06		10 Amps, 250Volts one way, Five gang light control switches including appropriate size concealed Plastic back box.	No.	37		
C-F-07		10 Amps, 250Volts one way, Six gang light control switches including appropriate size concealed Plastic back box.	No.	4		
C-F-08		5 Amps, 250Volts, 2 & 3 pin switched socket unit round pin including appropriate size Plastic back box.	No.	29		
C-F-09		13 Amps, 250Volts, Mutli pin duplex switched socket unit including appropriate size Plastic back box.	No.	12		
C-F-10		15 Amps, 250Volts, 3 pin duplex switched socket unit including appropriate size Plastic back box.	No.	19		
C-F-11		20 Amps Double Pole(DP) switch with neon indication lamp complete including appropriate size Plastic back box.	No.	15		
C-F-12		40 Amps Double Pole(DP) switch with neon indication lamp complete including appropriate size Plastic back box.	No.	6		
C-F-13		Fan Dimmer 300 watt with switch/ MS, including appropriate size Plastic back box. with all associated accessories.	No.	90		
C-F-14		Appropriate size of plastic body fan box and ceiling fan rod 24" in length	Nos	90		
C-F-15	Ch/24/49	Supply and erection of 3/8" (10 mm) dia M.S. bar fan hook,placed at the time of casting of slab.	No.	90		
			Sub Total Part -F Rs.			
<b>Item</b>		<b>Description</b>	<b>Unit</b>	<b>Qty</b>	<b>Unit Rate (Rs.)</b>	<b>Total Amount (Rs.)</b>
		<b><u>SECTION - G</u></b>				
		<b><u>GROUNDING SYSTEM</u></b>				
-G-01		<b><u>Grounding Cables</u></b>				



	<p>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 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. Made of Pakistan, newage, Fast cables or equivalent as approved by site engineer.</p>				
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	ch/24/10 (a(vi))	Supply and erection of copper conductor cables for service ditto connection, in prelaidd pipe/G.I. wire/trenches, etc. (rate for cable only) cost of 1 x 16mm (7/0.064)	R.Mtr	100		
-G-02		<b>Grounding Plate</b>				
		Ground electrode for the Grounding of LT electrical system . The Ground electrode shall comprise 600 x 600 x 6mm Thick Copper plate with Four nos. 1/2 inch dia copper nuts, bolts and washers, 02 Nos 70sqmm bare stranded Copper wire as Grounding leads, TWO inch dia GI pipe (15 feet long), lime and charcoal (Ratio 1:3), inspection chamber (CC 1:4:8), light duty CI cover, excavation & backfilling, all accessories as per site requirements & as directed by the Engineer, complete. A pit of dimensions 4 feet x 4 feet & 15 feet deep shall be excavated in the ground. The lime and charcoal shall be mixed throughly in the ratio of 1:3 with ONE foot thick hard packed bed in pit. The Copper plate with Grounding leads shall be placed vertically above the lime and charcoal bed. The 2nos. 70sqmm single core stranded Grounding leads shall be connected diagonally to the nuts and bolts on the copper plate, brought out through the GI pipe upto the first grounding connection point.	No.	2		
-G-03		<b>Grounding Connection Point</b>				
		Supply of Grounding connecting points consisting of copper plate 300mm long x50mm wide x 6mm thick to be installed, complete with fixing arrangement, brass nuts bolts, washers, lugs, 12.5mm dia. holes to facilitate connections of Incoming copper strips / copper conductors.	Nos.	2		
			Sub Total Part -G Rs.			
<b>Item</b>		<b>Description</b>	<b>Unit</b>	<b>Qty</b>	<b>Unit Rate (Rs.)</b>	<b>Total Amount (Rs.)</b>
<b>SECTION - H</b>						
<b>CONDUITS, PIPES, DUCT , CABLE TRAYS, FIXING CLAMPS AND FIXING ARRANGEMENTS</b>						
-H-01						
		Supply, installation, testing and commisiioning 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 or equivalent as approved by site engineer.				
i	ch/24/6 (i)	50mm dia PVC conduits ( Class D)	R.Mtr	100		
ii	ch/24/6 (ii)	80mm dia PVC conduits ( Class D)	R.Mtr	45		
-H-02		<b>Flexible Pipe</b>				
		Supply, installation and connections of PVC insulated flexible conduit with nipples, check-nuts fixed on RCC slabs for the following sizes, these conduits shall be used to pass the cables from light and other points made on RCC slab to fixtures mounted at walls, recessed in false ceiling or as required as per site conditions. Approximate quantity is given, actual quantity shall be as per site requirements.				
i	ch/24/5 (ii)	20 mm. dia. (3/4" dia)	R.Mtr	35		
ii	ch/24/5 (iii)	25 mm. dia. (1" dia)	R.Mtr	45		
			Sub Total Part -H Rs.			
<b>Item No.</b>		<b>Description</b>	<b>Unit</b>	<b>Qty</b>	<b>Unit Rate (Rs.)</b>	<b>Total Amount (Rs.)</b>
<b>SECTION - J</b>						
<b>CIVIL WORKS</b>						
C-I-01		<b>Trench ( for LT Cable )</b>				
		Labour for excavation and refilling of trench 24" wide, 24" deep 4" sand compaction below and above in preinstalled PVC pipes, ramming watering all necessary material, labour etc, complete in all respect. Actual length of the trench shall be as per site condition and paid accordingly however approximate length of trench is given.	R.Mtr	25		

C-1-02	<u>Manhole For LT Cable Pulling ( If Required)</u>				
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	Construction of manholes to facilitate pulling of cables in trench or conduit as shown on drawing, manholes shall be of the size 24" x 24" x 30" deep with 9" thick wall with cement mortar, internal plaster 1:4, 100mm thick RCC cover for manhole, including cost of all accessories / materials, complete in all respects. (Tentative number of manholes have been provided, however payment shall be made as per actual and as per quantity requirement)	Nos.	2		
		Sub Total Part -N Rs.			
<b>Item No.</b>	<b>Description</b>	<b>Unit</b>	<b>Qty</b>	<b>Unit Rate (Rs.)</b>	<b>Total Amount (Rs.)</b>
	<b>SECTION J</b>				
	<b>Air Conditioning</b>				
	Providing, shifting, fixing, testing, commissioning, adjusting and balancing of standard ( Cool only) DC inverter technology air conditioning units, piping insulation including condensate copper piping connection, between indoor/outdoor units conduiting and any additional charge of refrigerant accessories, and Drain piping upto nearest drain water line included in these rates making the job complete in all respect. copper piping should be of muller, trox and insulation of Durkflex or equivalent, Drain pipe should be 3/4" dia pvc pipeof master, turkplast or equivalent as approved by site engineer				
C-J-04	10ft drain pipe and cooper pipe with insulation of 4.0 Ton air conditioner.	Nos.	19		
C-J-05	Mild Steel 14 SWG Frame For Outer Unit	Nos.	19		
		Sub Total Part -J Rs.			
<b>Item</b>	<b>Description</b>	<b>Unit</b>	<b>Qty</b>	<b>Unit Rate (Rs.)</b>	<b>Total Amount (Rs.)</b>
	<b>SECTION - K</b>				
	<b>SOUND SYSTEM INSTALLATION</b>				
NSI	Sound System Installation,Supply, Install, Connect and commissioning,conduits wiring testing complete job, sound system (PA) complete,with wires, conduits, boxes and all accessories needed as shown on drawings and specifications .The input resistance of shunt speakers must be in the range(4-8Ω) the work consist: OR approved by Incharge/Engineer.				
C-K-01	Power amplifier 900w (Type is PHONIC, MAX 1500 or equivalent )	No.	1		
C-K-02	Mixer 8 lines (Type is Bchringe, 4B. 1204 or equivalent )	No.	1		
C-K-03	Laud speaker (250Watt) 12" with box , with mounting stand and arms.( Cotina ) or equivalent	No.	4		
C-K-04	Outdoor horn on minaret (150Watt) (Type is COPA or equivalent ) , complete with all needed to fix it.	No.	1		
C-K-05	Hand mic . (Type is Shure 606N or equivalent)	No.	1		
C-K-06	Tie-Pin condenser mic (Philips or equivalent)	No.	2		
C-K-07	Floor mic stand.	No.	2		
C-K-08	Spiral mic stand.	No.	1		
C-K-09	Complete Microphone Socket Panel with switch	Job.	2		
C-K-10	Supply& install rack U10 to hold the amplifier & mixer, the item include fixing 10 double toggle switches to the one sides of rack to control the input & output sounds , wiring and all needed accessories.All woks must be according to the engineer instructions, complete installation complete job.,OR approved by Incharge/Engineer.	No.	1		
	<b>UPS System</b>				
C-K-11	APC Smart-UPS SUA 5000va 230V High density, double-conversion line interactive with 0.8 PF model # SUA5000RMI5U or Equivalent approved by site engineer.	Nos	1		
C-K-12	Dry Battery 120 AH or 5760va(LEOCH) Back up time 90 minutes on 80% load made of Leoch or equivalent approved by site engineer	Nos	4		
C-K-13	Battery Rack (Iron)	Nos.	1		
C-K-14	Transport and testing charges	Job	1		
		Sub Total Part -K Rs.			
<b>CONSTRUCTION OF MOSQUE AT RAHIM YAR KHAN CAMPUS, THE ISLAMIA UNIVERSITY OF</b>					

BILL OF QUANTITIES						
PUBLIC HEALTH WORKS						
1st BI-ANNUAL-2020 (1st JANUARY-2020 to 30th JUNE-2020) DISTRICT RAHIM YAR KHAN						
SR. NO.	ITEM NO.	DESCRIPTION	UNIT	QTY	RATE (RS)	AMOUNT (RS)
<b>SANITARY FIXTURES AND FITTINGS</b>						
1	19/3 (i)	Providing and fitting glazed earthen ware water closet, squatter type (Orisa pattern), combined with foot rest.	Each	13		
2	19/12 (i)	Providing and fitting plastic made low down flushing cistern 13.63 litre (3 gallons) capacity, including bracket set, copper connection, etc. complete.	Each	13		
3	19/19	Providing and fixing looking glass 55x40 cm (22"x16") size, and 5 mm thick, first quality.	Each	10		
4	19/15	Providing and fixing, chromium plated soap dish.	Each	10		
5	19/33 ii	Providing and fixing, floor trap of cast iron, including concrete chamber all round, and C.I. grating:- ii) 10x7.5 cm (4"x3")	Each	13		
6	19/34 ii	Providing and fitting "P" trap:- ii) 10 cm (4") glazed.	Each	13		
7	19/35	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	6		
8	19/26 (ii)	Providing and fixing chromium plated bib cock:- ii) 1.5 cm (½")	Each	113		
9	19/24 (ii)	Providing and fixing chromium plated stop cock, heavy:- ii) 1.5 cm (½")	Each	33		
10	23/36 (ii) e	Providing, laying, cutting, jointing, testing and disinfecting Cost of sockets, tees, elbows, G.I. pipe line in trenches, with flanged joints, using G.I. bends, valves, crosses, unions and pipe of B.S.S. 1387-1967 complete in all respects, plugs, etc. is included in the rates. including specials and valves:- ii) C.I. flanged joints (Medium Quality) e) 4" i/d (100 mm)	P.Rft	212		
11	21/1 (iii)	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.iii) 225 mm (9") i/d.	P.Rft	285		
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	2565		
13	3/24 (c)	Compaction of earthwork (soft, ordinary or hard soil) :- c) Ramming earthwork (all types of soil).	1000 Cft	2565		
14	3/13 (a)	Rehandling of earthwork: a) Lead upto a single throw of Kassi, phaorah or shovel	1000 Cft	2565		
<b>TOTAL OF MRS ITEMS</b>						
1	NSI	Providing and fixing Basin BOWL White ,Porta(HD-16) or equivalent complete in all respects as approved by the Engineer incharge.	Each	10		
2	NSI	Providing and fixing Basin, sink mixing valve master(HDA-0501M) ,sonex or equivalent complete with all respects as approved by the engineer incharg :-white	Each	10		
3	NSI	UPVC Multi Floor Trap (110x75mm) including strainer; making required number of connections; breaking concrete or masonry work & then making it good; etc. of approved make.	Each	23		
4	NSI	Providing, Fixing Dadex Class D or equivalent UPVC clean out with cover making requisite number of holes in walls, plinth or floor for pipe connection and making good the same as necessary to the structure complete including, rubber gasket and clamp.	Each	3		
5	<b>WATER SUPPLY PIPES AND FITTINGS</b>					

		P/F Polypropylene Random copolymer (PPRC) pipe with fusion / threaded joints including the cost of all specials/ accessories i.e elbow, bend, sockets etc. (Dadex /Beeta/BBJ or equivalent) complete in all respect.				
	i	2" (50 mm) dia.	Rft	250		
	ii	2 1/2" (60 mm) dia.	Rft	50		
	iii	1" (25 mm) dia.	Rft	189		
	iv	1 1/2" (40 mm) dia.	Rft	70		
	v	3/4" (20 mm) dia.	Rft	234		
6		<b>SOIL, WASTE, VENTILATING PIPES &amp; FITTINGS</b>				
		Providing , fixing and testing UPVC Nikasi type "B" with solution of same quality make including the cost of all specials/ accessories i.e elbow, bend, sockets etc. (Dadex/Beeta/BBJ or equivalent) complete in all respect.				
	i	100 mm (4") dia.	Rft	212		
	ii	80 mm (3") dia.	Rft	350		
	iii	50 mm (2") dia.	Rft	90		
		<b>VALVES</b>				
7	NSI	Providing and fixing handle valves 16bars or equivalent complete in all respects as approved by the engineer incharge.				
	i	3/4 inch	Each	14		
		<b>MANHOLE</b>				
8	NSI	Making of manhole size 3'x2-1/2'x3' brick work, plaster complete as requirement including RCC manhole cover 22" dia with Tee shape C.I frame complete in all respect as per engineer Incharge	Job	5		
		<b>GYSER</b>				
9	NSI	Providing and Fixing Sui Gas Geyser 50 gallon capacity comprising of internal tank of G.I sheet 14-SWG and External M.S sheet 22-SWG covering with proper foot rests dully enamel painted, 4" thick heigh density glass wool insulation with proper warranty with thermostat temperature gauge including fixing and making connection at site etc. complete in all respects as approved by the Engineer Incharge. (Ambassador/Firex/Exquire)	Job	3		
		<b>WATER TANK</b>				
10	NSI	Providing and fixing Domestic type water tank of fiber glass 1000 Gallon (Double Ply) Dura or equivalent complete in all respects as approved by the Engineer incharge.	Each	3		
<b>TOTAL OF NSI ITEMS</b>						
<b>GRAND TOTAL OF PUBLIC HEALTH WORKS</b>						
2	<b>EXTENSION OF VERANDAH'S AND CONSTRUCTION OF FACULTY OFFICES AT OLD ENGINEERING BLOCK OF BAGHDAD-UL-JADEED CAMPUS, THE ISLAMIA UNIVERSITY OF BAHAWALPUR</b>					
<b>BILL OF QUANTITIES</b>						
<b>CIVIL WORKS</b>						
<b>1st BI-ANNUAL-2020 (1st JANUARY-2020 to 30th JUNE-2020) DISTRICT BAHAWALPUR</b>						
Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
1	C-3/21(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) in ordinary soil.	%0Cft	18417.49		
2	C-26/42	Spraying anti-termite liquid mixed with water in the ratio of 1:40.	%Sft	36950.94		
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	2181.54		

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
4	C-6/6 a-ii (3)	Reinforced cement concrete in slab of rafts / strip foundation, base slab of column and retaining walls; etc and other structural members other than those mentioned above not requiring form work (i.e. horizontal in shuttering) complete in all respects:- Type C (nominal mix 1: 2: 4)	P.Cft	6489.51		

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
5	C-6/6 a-i (3)	Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- Type C (nominal mix 1: 2: 4), Ground floor	P.Cft	11022.88		
6	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	669.13		
7	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	1391.47		
8	C-6/9(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	64496.80		
9	C-7/4(i)	Pacca brick work in foundation and plinth in Cement,sand mortar. Ratio 1:6	%Cft	9423.53		
10	C-3/15(i)	Filling, watering, ramming earth under floors (with surplus earth foundation).	%0Cft	6139.16		
11	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	23329.74		
12	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 1.5km)				
	a	upto ¼ mile (400 m).	%0Cft	23329.74		
	b	for every 330 ft. (100 m) additional lead or part thereof, beyond ¼ mile (400 m) upto one mile. (1.6 Km.)	%0Cft	23329.74		
13	C-7/5(i)	Pacca brick work in ground floor cement, sand mortar Ratio 1:5	%Cft	8436.54		
14	C-7/5(i)	Pacca brick work in ground floor cement, sand mortar Ratio 1:4	%Cft	157.57		
15	C-11/11(b)	Cement plaster 1:5 upto 20' (6.00 m) height:- b) ½" (13 mm) thick	%Sft	16056.11		
16	C-11/11(c)	Cement plaster 1:5 upto 20' (6.00 m) height:- c) ¾" (20 mm) thick.	%Sft	8043.36		
17	C-11/9(c)	Cement plaster 1:4 upto 20' (6.00 m) height:- c) ¾" (20 mm) thick.	%Sft	13717.99		
18	C-11/10(b)	Cement plaster 3/8" thick under soffit or R.C.C. roof slab only upto 20' height ratio 1:3.	%Sft	14440.60		
19	C-13/31 (a+b)	Preparing surface and painting with emulsion paint:- 3 Coats.	%Sft	38540.07		
20	C-13/32A 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: new surface: 2 Coats.	%Sft	13717.99		
21	C-7/30	Supplying and filling sand under floor; or plugging in wells.	%Cft	4883.68		
22	C-6/2	Dry rammed brick or stone ballast, 1½" to 2"( 40 mm to 50mm) gauge.	%Cft	4883.68		
23	C-6/5(f)	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): Ratio 1: 2: 4	%Cft	2525.35		
24	C-10/15(e)	Providing and laying topping of cement concrete 1:2:4, including surface finishing and dividing in panels:- 2" (50 mm) thick.	%Sft	296.64		



Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
25	C-9/5	Single layer of tiles 9"x4½"x1½" (225x113x40 mm) laid over 4"(100 mm) earth and 1" (25 mm) mud plaster without Bhoosa, grouted with cement sand 1:3 on top of RCC roof slab, provided with 34 lbs. per %Sft. or 1.72 Kg/Sq.m bitumen coating sand blinded.	%Sft	15253.09		

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
26	C-9/45(c)	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 absorption (1% by volume, cell structure closed cell) i/c cutting and placing in position. complete in all respect. 2" thick	%Sft	15253.09		
27	C-25/53(b)	Providing and fixing all types of glazed aluminum windows of anodized champagne color partly fixed and partly sliding using deluxe section of approved manufacturer having Frame of size 100mmx30mm using frame at bottom, attopand side leaf leaf frame sections of 60mmx23mm at top & bottom and size 45mmx25mm at center and size 45mmx25mm at sides,Jali leaf frame size 43mmx13mm i/c fine quality aluminum jali, 5mm thick imported tinted glass with rubber gasket using approved standard latches, wheel, stopper, brush channel angle joint and hardware etc.in all respect .b)2 mm thick	P.Sft	552.60		
28	C-12/54	Providing and fixing M.S. flat ½"x1/8" (13mm x 3mm) grill including ¼" x 1/8" (20 mmx3 mm) M.S. flat frame, in windows of approved design, including painting three coats, complete in all respects.	P.Sft	552.60		
29	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	72.10		
30	C-12/15 a	Providing and fixing M.S. sheet hollow pressed frame of doors, windows, C. windows, etc. (chowkat only) of 20 SWG welded with M.S. flat 6"x 1¼" x 1/8" (150mmx30mmx3mm) M.S. holdfast 9"x1"x1/8" (225mmx25mmx3mm) welded/screwed 4" (100 mm) long iron hinges, including filling chowkat with cement sand mortar 1:8 and embedding holdfast in cement concrete 1:2:4, complete in all respects: single rebate	P.Sft	472.26		
31	C-13/5 c(i+ii)	Painting new surface:- c) Preparing surface and painting of doors and windows any type (including edges):- 3 coats	%Sft	36.05		
32	C-13/7 a	French polishing complete:- on new work.	%Sft	944.51		
33	C-9/15	Khuras on roof 2'x2'x6" (600 x 600 x 150 mm)	Each	14.00		
34	C-6/33(a-ii)	Providing and laying damp proof course of cement concrete 1:2:4(using cement, sand and shingle), including bitumen coating :- (a) with one coat bitumen and one coat polythene sheet 500gauge ii) 2" thick (50 mm)	%Sft	198.92		
35	6/32 a	Providing and fixing theremopore (foamed polythene) sheet in horizontal and vertical expansion joints: b) 1½" (40 mm) thick thermopore sheet	P.Sft	224.03		
36	6/25 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:- On interior surface (without mastic strip)	P.Rft	227.89		
37	6/25 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:- On exterior surface (with mastic strip)	P.Rft	188.23		
38	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	1305.43		
39	C-26/37(ii)	Supplying and laying polythene sheet over D.P.C. under floors and on roofs, etc. 500 gauge (.005" thick)	P.Sft	16558.52		
<b>Total of MRS ITEMS</b>						

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
1	NSI	Providing and laying flooring tiles 24"x24"x3/8" salt pepper light polished SB laid in white cement and matching pigment over 3/4" thick cement sand mortar (1:2) i/c filling joints in white cement and matching pigment complete in all respect.(SPM-110 Master or Equivalent).	P.Sft	14231.84		
2	NSI	Providing and laying tiles skirting dado 24"x24"x3/8" salt pepper light polished SB laid in white cement and matching pigment over 3/4" thick cement sand mortar (1:2) i/c filling joints in white cement and matching pigment complete in all respect.(SPM-110 Master or Equivalent).	P.Sft	958.69		
3	NSI	Providing and laying tiles dado for corridor 9"x26"x3/8" laid in white cement and matching pigment over 3/4" thick cement sand mortar (1:2) i/c filling joints in white cement and matching pigment complete in all respect.(Master 51SF MPD757 Multi or Equivalent)	P.Sft	1311.71		
4	NSI	Providing and laying glazed Ceramic tiles texture light color for flooring size 9"x26"x3/8" laid over 3/4" thick cement sand mortar (1:2) i/c filling joints in white cement and matching pigment i/c cutting charges complete in all respect as approved & directed by the engineer in charge.(master or Equivalent)	P.Sft	263.62		
5	NSI	Providing and laying glazed Ceramic tiles texture light color for skirting / dado size 9"x26"x3/8" laid over 3/4" thick cement sand mortar (1:2) i/c filling joints in white cement and matching pigment i/c cutting charges complete in all respect as approved & directed by the engineer in charge. (Master or Equivalent)	P.Sft	972.84		
6	NSI	Providing and fixing 3/4" thick pre-polished cherry pink marble full width area above 2 sft laid in white cement matching pigment 3/4" thick cement sand mortar (1:2) i/c fitting joints in white cement & matching pigment i/c making gola on exposed edges complete in all respect as approved by the engineer in charge. (stairs & slab)	P.Sft	1780.65		
7	NSI	Providing and laying marble of pre-polished cherry pink marble size 2'x4'x3/8" laid in white cement and matching pigment over 3/4" thick cement sand mortar (1:2) i/c filling joints in white cement and matching pigment and chemical polishing complete in all respect as approved & directed by the engineer incharge. (Floor)	P.Sft	108.40		
8	NSI	Providing and fixing solid engineered door of teak wood (NTC FGV-307 or Equivalent) including hinges, tower bolt rubber stop cleats handles and chord with hooks etc. complete in all respect and as approved by the engineer incharge.	P.Sft	472.26		
9	NSI	Providing & fixing door handle lock of good quality, complete in all respect as per approval of Engineer/ Incharge. (RW-46 MSN Royalwand or Equivalent)	Each	22.00		
10	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	151.41		
11	NSI	Providing and fixing M.S door consisting of M.S angle iron chowkat 1 1/2"x1 1/2"x 1/4" with M.S flat 2"x1/4" laef frame of M.S angle iron 1 1/4"x1 1/4"x3/16" with diagonal brass of M.S angle iron 1"x1"x1/8" i/c M.S sheet 16 swg fixed on leaf i/c hinges, sliding bolts ,tower bolts handle etc .cutting welding assembling and fixing and at site complete in all respect and as approved by the engineer incharge.	P.Sft	18.03		
12	NSI	Providing/ fixing railing consisting of S.S. Pipe section size 2" dia of 18 SWG welded with S.S. flat 1"x1/8" continuously and welded over S.S. pipe punched in S.S. flat 2 3/4' high @ 5 1/2" c/c fixed in steps of stair, complete in all respect as per Engineer/ Incharge.	P.Rft	51.50		

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
13	NSI	Providing and fixing of False ceiling consisting of laminated Gypsum Board (one side laminated) of size 600 mm x 600 mm x 7.5 mm over aluminium Tee's 1"x 1" size at 2'-0"x2'-0" center to center longitudinally and transversally & aluminium angle of size 1" x 1" at corners/ ends, including all accessories such as steel hanging wire, hooks, screws, nails, rowel plugs, Cross Joints etc. complete in all respect, and as approved by the Engineer Incharge.	P.Sft	4511.40		
14	NSI	Drilling reinforcement bars into hardened/old concrete upto depth of 12" using epoxy for development of reinforcement at joint of existing and new constructed slab complete in all respect as per drawings and instruction of Engineer Incharge. (Sikadurr 30LP or equivalent)	Job	1.00		
15	NSI	Providing high performance high range water reducer (superplasticizer) for concrete as per approved mix design and approval of Engineer Incharge (Sika or equivalent)	P.kg	2635.00		
<b>Total of Non MRS ITEMS</b>					<b>Total</b>	
<b>GRAND TOTAL OF CIVIL WORKS</b>						

**EXTENSION OF VERANDAH'S AND CONSTRUCTION OF FACULTY OFFICES AT OLD ENGINEERING BLOCK OF BAGHDAD-UL-JADEED CAMPUS, THE ISLAMIA UNIVERSITY OF BAHAWALPUR**

**BILL OF QUANTITIES**

**SUMMARY OF COST  
ELECTRICAL WORKS**

Item No.	Description	Unit	Qty	Unit Rate (Rs.)	Total Amount (Rs.)
	<b><u>SECTION - A</u></b>				
	<b><u>DISTRIBUTION BOARDS</u></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, JEL, Mazcorp engineering or equivalent approved by site engineer.				
	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 ABB, Schneider or equivalent approved by site engineer				
C-A-01	<b><u>DISTRIBUTION BOARD DB-faculty Office BWP</u></b>				
	<b><u>INCOMING</u></b>				
	01-300 Amps TP MCCB RC=36KA				
	03 Nos. Phase indication lamps of colour Red, Yellow, Blue.				
	03 Nos. 2 Amps fuses				

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
		01 Nos Digital Voltmeter scaled 0-500 Volts of appropriate sizes.				

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
		01 Nos.Voltmeter selector switch				
		05 Nos.copper bus bars 300 Ampere,three phase,Earth and Netural for distrubitions.				
		<b>OUTGOING</b>				
		27-10 Amps SP MCB RC=6 KA				
		27-16 Amps SP MCB RC=6 KA				
		27-20 Amps SP MCB RC=6 KA	Job	1		-
			Sub Total Part -A Rs.			-

Item No.	Description	Unit	Qty	Unit Rate (Rs.)	Total Amount (Rs.)
	<b>SECTION - B</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 Phillips				
C-B-01	40 Watt (min) 2'x2' LED/SMD False ceiling Light or equivalent. IP 20 rated	No.	123		0
C-B-02	17 Watt LED/SMD Light Fixture, IP-44 rated	No.	90		0
C-B-03	9 Watt LED luxline Light Fixture surface/recessed mounted, IP-44 rated	No.	5		0
C-B-04	Exit light, dual sided exit sign should have battery bank with at least 3-hr backup time. Surface & semi flush mount type. Non-maintained min 6 Watt LED light, CE certified, UL listed as per approval of the Engineer in Charge.	No.	5		0
		Sub Total Part -B Rs.			0

Item No.	Description	Unit	Qty	Unit Rate (Rs.)	Total Amount (Rs.)
	<b>SECTION - C</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 or approved equivalent.				
C-C-01	12" outer dia exhaust fan with Metallic body,fan blades and louvers	No.	8		0
C-C-02	24" outer dia Wall Bracket fan,1450Rpm, Max 50db sound level Fan shall be made with 99% purity Copper windings	No.	22		0
C-C-03	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.	22		0
		Sub Total Part -C Rs.			0

Item	Description	Unit	Qty	Unit Rate (Rs.)	Total Amount (Rs.)
	<b>SECTION - D</b>				
	<b>WIRING IN CONCEALED CONDUITS</b>				
-D-01	<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 Paksitan Cable,Newage or fast cable and conduit should be of Solo,popular or equivalent as approved by site engineer				

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
i	ch/24/10 (a(iii))	Supply and erection of single core PVC insulated copper conductor cables in pre-laid PVC pipe/M.S conduit G.I pipe/wooden strip batten/wooden casing and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x 2.5 mm (7/0.029")	RMtr	1764		0
ii	ch/24/3 (iii)	Supply and erection of PVC pipe for wiring recessed in wall including inspection boxes pull boxes, hooks, cutting jharries, and repairing surface, etc, complete with all specials ii) Cost of 25mm	Rmtr	308		0
-D-02		<b><u>Switch to light point &amp; point to point wiring</u></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).				
i	ch/24/10 (a(i))	Supply and erection of single core PVC insulated copper conductor cables in pre-laid 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	9075		0
ii	ch/24/3 (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 20mm	Rmtr	1925		0
-D-03		<b><u>Switch to Switch</u></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).				
i	ch/24/10 (a(iii))	Supply and erection of single core PVC insulated copper conductor cables in pre-laid PVC pipe/M.S conduit G.I pipe/wooden strip batten/wooden casing and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x 2.5 mm (7/0.029")	RMtr	441		0
ii	ch/24/3 (iii)	Supply and erection of PVC pipe for wiring recessed in wall including inspection boxes pull boxes, hooks, cutting jharries, and repairing surface, etc, complete with all specials ii) Cost of 25mm	Rmtr	105		0
-D-04		<b><u>Distribution board to General Purpose ( 5A/13A) socket</u></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)				
i	ch/24/10 (a(iii))	Supply and erection of single core PVC insulated copper conductor cables in pre-laid PVC pipe/M.S conduit G.I pipe/wooden strip batten/wooden casing and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x 2.5 mm (7/0.029")	RMtr	2835		0
ii	ch/24/3 (iii)	Supply and erection of PVC pipe for wiring recessed in wall including inspection boxes pull boxes, hooks, cutting jharries, and repairing surface, etc, complete with all specials ii) Cost of 25mm	Rmtr	495		0
-D-05		<b><u>Socket to Socket</u></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)				
i	ch/24/10 (a(iii))	Supply and erection of single core PVC insulated copper conductor cables in pre-laid PVC pipe/M.S conduit G.I pipe/wooden strip batten/wooden casing and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x 2.5 mm (7/0.029")	RMtr	990		0
ii	ch/24/3 (iii)	Supply and erection of PVC pipe for wiring recessed in wall including inspection boxes pull boxes, hooks, cutting jharries, and repairing surface, etc, complete with all specials ii) Cost of 25mm	Rmtr	330		0

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
C-D-06		<b><u>Distribution board to 15Amps socket</u></b>				
		Wiring of circuit from distribution board to 15A, 230Volts, DP switch with 3 nos. single core 4Sqmm PVC insulated 450/750 Volts grade stranded copper conductor cables in concealed PVC conduit including PVC conduit, Conduit accessories, etc (conduit partly shared for A/Cs)				
i	ch/24/10 (a(iv))	Supply and erection of single core PVC insulated copper conductor cables in prelaid PVC pipe/M.S conduit G.I pipe/wooden strip batten/wooden casing and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x 4 mm (7/0.036")	RMtr	255		0
ii	ch/24/3 (iii)	Supply and erection of PVC pipe for wiring recessed in wall including inspection boxes pull boxes, hooks, cutting jharries, and repairing surface, etc, complete with all specials ii) Cost of 25mm	Rmtr	85		0
C-D-07		<b><u>Distribution board to 20Amps socket</u></b>				
		Wiring of circuit from distribution board to 20A, 230Volts, DP switch with 3 nos. single core 6 Sqmm PVC insulated 450/750 Volts grade stranded copper conductor cables in concealed PVC conduit including PVC conduit, Conduit accessories, etc (conduit partly shared for A/Cs)				
i	ch/24/10 (a(v))	Supply and erection of single core PVC insulated copper conductor cables in prelaid PVC pipe/M.S conduit G.I pipe/wooden strip batten/wooden casing and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x 4 mm (7/0.044")	RMtr	1512		0
ii	ch/24/3 (iii)	Supply and erection of PVC pipe for wiring recessed in wall including inspection boxes pull boxes, hooks, cutting jharries, and repairing surface, etc, complete with all specials ii) Cost of 25mm	Rmtr	288		0
			Sub Total Part -D Rs.			0
Item		Description	Unit	Qty	Unit Rate (Rs.)	Total Amount (Rs.)
		<b><u>SECTION-E</u></b>				
		<b><u>LT CABLES</u></b>				
		Supply at site, installation, testing and commissioning of PVC insulated non armoured copper conductor cable 600 / 1000 Volt grade (or otherwise mentioned in cable description ) in prelaid conduits / trenches to be installed as per routes shown on drawings including cost of all necessary materials, connections, identification tags, cables lugs properly crimped at both ends for the following sizes complete in all respects. Actual length of cables to be installed shall be practically measured at site by the Contractor, duly authenticated by the Engineer before placing the order with the manufacturer, however, approximate length of cables are shown herewith. Payments shall be made as per actual length installed. Cable should be of Paksitan Cable, Newage or fast cable and conduit should be of Solo, popular or equivalent as approved by site engineer				
-E-0	ch/24/13/(d-vii)	PVC insulated, PVC sheathed 4 core 150mm (37/0.093 armord cable 660/1100 volt grade cable, Cost of trenches where necessary armoured with G.I. wire 16 SWG. Cost of 1 x 4core 150mm	R.Mtr	160		0
	ch/24/6 (i)	Supply and erection PVC pipe for recessed wiring (main and 38.2 & sub-main) purpose, including bends, specials, etc. in floor, 38.3 wall or trenches:- cost of 50mm	R.Mtr	160		0
			Sub Total Part -E Rs.			0
Item		Description	Unit	Qty	Unit Rate (Rs.)	Total Amount (Rs.)
		<b><u>SECTION - F</u></b>				
		<b><u>WIRING ACCESSORIES</u></b>				



Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
		Supply at site, installation, testing and commissioning of the following wiring accessories, complete in all respects. Made of Phillips				
C-F-01		10 Amps, 250Volts one way, One gang light control switches including appropriate size concealed Plastic back box.	No.	4		0
C-F-02		10 Amps, 250Volts one way, Two gang light control switches including appropriate size concealed Plastic back box.	No.	18		0
C-F-03		10 Amps, 250Volts one way, Three gang light control switches including appropriate size concealed Plastic back box.	No.	4		0
C-F-04		10 Amps, 250Volts one way, Four gang light control switches including appropriate size concealed Plastic back box.	No.	1		0
C-F-05		10 Amps, 250Volts one way, Five gang light control switches including appropriate size concealed Plastic back box.	No.	5		0
C-F-06		10 Amps, 250Volts one way, Six gang light control switches including appropriate size concealed Plastic back box.	No.	28		0
C-F-08		5 Amps, 250Volts, 2 & 3 pin switched socket unit round pin including appropriate size Plastic back box.	No.	84		0
C-F-09		13 Amps, 250Volts, Mutli pin duplex switched socket unit including appropriate size Plastic back box.	No.	27		0
C-F-09		15 Amps, 250Volts, 3 pin duplex switched socket unit including appropriate size Plastic back box.	No.	5		0
C-F-11		20 Amps Double Pole(DP) switch with neon indication lamp complete with Plastic back box.	No.	24		0
C-F-12		Fan Dimmer 300 watt with plastic body back box with all associated accessories.	No.	22		0
C-F-13		Appropriate size of plastic body fan box and ceiling fan rod 24" in length	Nos	22		0
C-F-14	Ch/24/49	Supply and erection of 3/8" (10 mm) dia M.S. bar fan hook,placed at the time of casting of slab.	No.	22		0
Sub Total Part -F Rs.						0

<b>SECTION - G</b>						
<b>GROUNDING SYSTEM</b>						
C-G-01	<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 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. Made of Pakistan, newage, Fast cables or equivalent as approved by site engineer.					
ch/24/12(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) i) Cost of 1x 35 mm (19/0.064")					
	R.Mtr	60				0
C-G-02	<b>Grounding Plate</b>					

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
		Ground electrode for the Grounding of LT electrical system . The Ground electrode shall comprise 600 x 600 x 6mm Thick Copper plate with Four nos. 1/2 inch dia copper nuts, bolts and washers, 02 Nos 70sqmm bare stranded Copper wire as Grounding leads, TWO inch dia GI pipe (15 feet long), lime and charcoal (Ratio 1:3), inspection chamber (CC 1:4:8), light duty CI cover, excavation & backfilling, all accessories as per site requirements & as directed by the Engineer, complete. A pit of dimensions 4 feet x 4 feet & 15 feet deep shall be excavated in the ground. The lime and charcoal shall be mixed thoroughly in the ratio of 1:3 with ONE foot thick hard packed bed in pit. The Copper plate with Grounding leads shall be placed vertically above the lime and charcoal bed. The 2nos. 70sqmm single core stranded Grounding leads shall be connected diagonally to the nuts and bolts on the copper plate, brought out through the GI pipe upto the first grounding connection point.	No.	1		-
	C-G-03	<b>Grounding Connection Point</b>				
		Supply of Grounding connecting points consisting of copper plate 300mm long x50mm wide x 6mm thick to be installed, complete with fixing arrangement, brass nuts bolts, washers, lugs, 12.5mm dia. holes to facilitate connections of Incoming copper strips / copper conductors.	Nos.	1		-
Sub Total Part -G Rs.						-

Ite m		Description	Unit	Qty	Unit Rate (Rs.)	Total Amount (Rs.)
		<b>SECTION - H</b>				
C-H-01		<b>CONDUITS, PIPES, DUCT , CABLE TRAYS, FIXING CLAMPS AND FIXING ARRANGEMENTS</b>				
		Supply, installation, testing and commisiioning 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 or equivalent as approved by site engineer.				
i	ch/24/6 (i)	50mm dia PVC conduits ( Class D)	R.Mtr	100		0
ii	ch/24/6 (ii)	80mm dia PVC conduits ( Class D)	R.Mtr	50		0
-H-02		<b>Flexible Pipe</b>				
		Supply, installation and connections of PVC insulated flexible conduit with nipples, check-nuts fixed on RCC slabs for the following sizes, these conduits shall be used to pass the cables from light and other points made on RCC slab to fixtures mounted at walls, recessed in false ceiling or as required as per site conditions. Approximate quantity is given, actual quantity shall be as per site requirements.				
i	ch/24/5 (ii)	20 mm. dia. (3/4" dia)	R.Mtr	35		-
ii	ch/24/5 (iii)	25 mm. dia. (1" dia)	R.Mtr	45		-
Sub Total Part -H Rs.						0

Item No.	Description	Unit	Qty	Unit Rate (Rs.)	Total Amount (Rs.)
	<b>SECTION -I</b>				
	<b>CIVIL WORKS</b>				
C-I-01	<b>Trench ( for LT Cable )</b>				

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
		Labour for excavation and refilling of trench 24" wide, 24" deep 4" sand compaction below and above in preinstalled PVC pipes, ramming watering all necessary material, labour etc, complete in all respect. Actual length of the trench shall be as per site condition and paid accordingly however approximate length of trench is given.	R.Mtr	20		0

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
	C-I-02	<b>Manhole For LT Cable Pulling ( If Required)</b>				
		Construction of manholes to facilitate pulling of cables in trench or conduit as shown on drawing, manholes shall be of the size 24" x 24" x 30" deep with 9" thick wall with cement mortar, internal plaster 1:4, 100mm thick RCC cover for manhole, including cost of all accessories / materials, complete in all respects. (Tentative number of manholes have been provided, however payment shall be made as per actual and as per quantity requirement)	Nos.	2		0
Sub Total Part -I Rs.						0

<b>EXTENSION OF VERANDAH'S AND CONSTRUCTION OF FACULTY OFFICES AT OLD ENGINEERING BLOCK</b>						
<b>BILL OF QUANTITIES</b>						
<b>PUBLIC HEALTH WORKS</b>						
<b>1st BI-ANNUAL-2020 (1st JANUARY-2020 to 30th JUNE-2020) DISTRICT BAHAWALPUR</b>						
Sr. No.	Item No.	Description	Unit	Qty	Rate (Rs)	Amount (Rs)
<b>SANITARY FIXTURES AND FITTINGS</b>						
1	19/19	Providing and fixing looking glass 55x40 cm (22"x16") size, and 5 mm thick, first quality.	Each	4		0
2	19/15	Providing and fixing, chromium plated soap dish.	Each	4		0
3	19/17	Providing and fixing, chromium plated toilet paper holder.	Each	6		0
4	19/18 i	Providing and fixing, chromium plated towel rail:- i) 60 cm (24") long, and 2 cm (¾") dia.	Each	2		0
5	19/26 ii	Providing and fixing chromium plated bib cock:- ii) 1.5 cm (½")	Each	5		0
6	19/33 ii	Providing and fixing, floor trap of cast iron, including concrete chamber all round, and C.I. grating:- ii) 10x7.5 cm (4"x3")	Each	11		0
7	19/34 ii	Providing and fitting "P" trap:- ii) 10 cm (4") glazed.	Each	11		0
8	19/35	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	3		0
9	19/7	Providing and fixing stainless steel sink with drain board, size 120x60 cm (48"x24") including bracket set, waste pipe and waste coupling.	Each	1		0
10	21/1 (iii)	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. iii) 225 mm (9:) i/d.	P.Rft	736		0
11	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	6624		0
12	3/24 (c)	Compaction of earthwork (soft, ordinary or hard soil) :- c) Ramming earthwork (all types of soil).	1000 Cft	6624		0
13	3/13 (a)	Rehandling of earthwork: a) Lead upto a single throw of Kassi, phaorah or shovel	1000 Cft	6624		0
<b>TOTAL OF MRS ITEMS</b>						<b>0</b>
1	NSI	Providing and fitting glazed earthen ware water closet European type(HD-201), including seat and cover:- i) white	Each	1		0
2	NSI	Providing and fitting glazed earthen ware water closet, squatter type (Orisa pattern) (HDD-9 Porta), combined with foot rest	Each	5		0
3	NSI	Providing and fitting flushing hung type cistern (HD-3) 13.63 litre (3 gallons) capacity, including bracket set, copper connection, etc. complete.	Each	5		0

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
4	NSI	Providing and fixing chromium plated tee stop cock 15mm (½").	Each	16		0
5	NSI	Providing and fixing Muslim shower double bib cock 90 angle Sonex, or equivalent complete in all respects as approved by the engineer incharge	Each	1		0
6	NSI	Providing and fixing Basin BOWL White, Porta (HD-16) or equivalent complete in all respects as approved by the Engineer incharge.	Each	4		0
7	NSI	Providing and fixing Basin, side pillar cock mixing valve master, sonex or equivalent complete with all respects as approved by the engineer incharge :-white	Each	5		0
8	NSI	UPVC Multi Floor Trap (110x75mm) including strainer; making required number of connections; breaking concrete or masonry work & then making it good; etc. of approved make.	Each	9		0
9	NSI	Providing, Fixing Dadex Class D or equivalent UPVC clean out with cover making requisite number of holes in walls, plinth or floor for pipe connection and making good the same as necessary to the structure complete including, rubber gasket and clamp.	Each	2		0
10		<b><u>WATER SUPPLY PIPES AND FITTINGS</u></b>				
		P/F Polypropylene Random copolymer (PPRC) pipe with fusion / threaded joints including the cost of all specials/ accessories i.e elbow, bend, sockets etc. (Dadex /Beeta/BBJ or equivalent) complete in all respect.				
	i	2" (50 mm) dia.	Rft	60		0
	ii	1" (25 mm) dia.	Rft	180		0
	iii	1 1/4" (40 mm) Dia	Rft	60		0
	iv	3/4" (20 mm) dia.	Rft	120		0
11		<b><u>SOIL, WASTE, VENTILATING PIPES &amp; FITTINGS</u></b>				
		Providing, fixing and testing UPVC Nikasi type "B" with solution of same quality make including the cost of all specials/ accessories i.e elbow, bend, sockets etc. (Dadex/Beeta/BBJ or equivalent) complete in all respect.				
	i	100 mm (4") dia.	Rft	210		0
	ii	80 mm (3") dia.	Rft	140		0
	iii	50 mm (2") dia.	Rft	740		0
		<b><u>VALVES</u></b>				
12	NSI	Providing and fixing handle valves 16bars or equivalent complete in all respects as approved by the engineer incharge.				
	i	3/4 inch	Each	6		0
		<b><u>MANHOLE</u></b>				
13	NSI	Making of manhole size 3'x2-1/2'x3' brick work, plaster complete as requirement including RCC manhole cover 22" dia with Tee shape C.I frame complete in all respect as per engineer Incharge	Job	5.00		0
<b>TOTAL OF NSI ITEMS</b>						<b>0.00</b>
<b>GRAND TOTAL OF PUBLIC HEALTH WORKS</b>						<b>0.00</b>
<b>3 CONSTRUCTION OF GUEST HOUSE AT BAHAWALNAGAR CAMPUS, THE ISLAMIA UNIVERSITY OF BAHAWALPUR</b>						
<b>BILL OF QUANTITIES</b>						
<b>CIVIL WORKS</b>						
<b>1st BI-ANNUAL-2020 (1st JANUARY-2020 to 30th JUNE-2020) DISTRICT BAHAWALNAGAR</b>						
Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
1	C-3/21(b)	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) in ordinary soil.	%0Cft	20168.80		
2	C-26/42	Spraying anti-termite liquid mixed with water in the ratio of 1:40.	%Sft	16652.32		

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
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	1601.33		
4	C-6/6 a-ii (3)	Reinforced cement concrete in slab of rafts / strip foundation, base slab of column and retaining walls; etc and other structural members other than those mentioned above not requiring form work (i.e. horizontal in shuttering) complete in all respects:- Type C (nominal mix 1: 2: 4)	P.Cft	4712.24		
5	C-6/6 a-i (3)	Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- Type C (nominal mix 1: 2: 4), Ground floor	P.Cft	3512.32		
6	C-6/6 a-i (3)+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 C (nominal mix 1: 2: 4), add extra for First Floor.	P.Cft	3266.33		
7	C-6/6 a-i (3)+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 C (nominal mix 1: 2: 4), add extra for Second Floor.	P.Cft	165.56		
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	405.16		
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	718.30		
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	663.51		
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	37.08		
12	C-6/9(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	47373.20		
13	C-7/4(i)	Pacca brick work in foundation and plinth in Cement, sand mortar. Ratio 1:6	%Cft	4343.04		
14	C-3/15(i)	Filling, watering, ramming earth under floors (with surplus earth foundation).	%0Cft	6722.93		
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	9253.63		
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 1.5km)				
	a	upto ¼ mile (400 m).	%0Cft	9253.63		
	b	for every 330 ft. (100 m) additional lead or part thereof, beyond ¼ mile (400 m) upto one mile. (1.6 Km.)	%0Cft	9253.63		
17	C-7/5(i)	Pacca brick work in ground floor cement, sand mortar Ratio 1:5	%Cft	5357.19		
18	C-7/5(i)	Pacca brick work in ground floor cement, sand mortar Ratio 1:4	%Cft	455.41		
19	C-7/5(i)+7/6(i)	Pacca brick work in first floor cement, sand mortar Ratio 1:5	%Cft	4895.53		

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
20	C-7/5(i)+7/6(i)	Pacca brick work in first floor cement, sand mortar Ratio 1:4	%Cft	633.79		
21	C-7/5(i)+7/6(ii)	Pacca brick work in second floor cement, sand mortar Ratio 1:5	%Cft	358.54		
22	C-11/11(b)	Cement plaster 1:5 upto 20' (6.00 m) height:- b) ½" (13 mm) thick	%Sft	21633.35		
23	C-11/11(c)	Cement plaster 1:5 upto 20' (6.00 m) height:- c) ¾" (20 mm) thick.	%Sft	8908.00		
24	C-11/9(c)	Cement plaster 1:4 upto 20' (6.00 m) height:- c) ¾" (20 mm) thick.	%Sft	12448.63		
25	C-11/32(ii)	Providing grooved cement sand plaster 1:3 over existing plastered and roughened surface upto 20' (6.00 m) height. ii) ½" (13 mm) thick	%Sft	1454.10		
26	C-11/10(b)	Cement plaster 3/8" thick under soffit or R.C.C. roof slab only upto 20' heigh ratio 1:3.	%Sft	8866.24		
27	C-13/31 (a+b)	Preparing surface and painting with emulsion paint:- 3 Coats.	%Sft	39407.60		
28	C-13/32A 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: new surface: 2 Coats.	%Sft	12448.63		
29	C-7/30	Supplying and filling sand under floor; or plugging in wells.	%Cft	1910.17		
30	C-6/2	Dry rammmed brick or stone ballast, 1½" to 2"( 40 mm to 50mm) gauge.	%Cft	2031.60		
31	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	2247.80		
32	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	1029.29		
33	C-9/5	Single layer of tiles 9"x4½"x1½" (225x113x40 mm) laid over 4"(100 mm) earth and 1" (25 mm) mud plaster without Bhoosa, grouted with cement sand 1:3 on top of RCC roof slab, provided with 34 lbs. per %Sft. or 1.72 Kg/Sq.m bitumen coating sand blinded.	%Sft	4993.75		
34	C-9/45(b)	Providing and Laying Insulation material of Extruded Polystyrene XPS in Rigid Insulation / Foam Board on roof or walls, Density 32-38Kg/M, compressive strength 250-400 kpa, R-value 5 per inch thickness and water obsorption (1% by volume, cell structure clored cell) i/c cutting and placing in position. complete in all respect. 1-1/2" thick	%Sft	4993.75		
35	C-25/53(b)	Providing and fixing all types of glazed aluminum windows of anodized champagne color partly fixed and party sliding using deluxe section of approved manufacturer having Frame of size 100mmx30mm using frame at bottom, attopand side leaf leaf frame sections of 60mmx23mm at top & bottom and size 45mmx25mm at center and size 45mmx25mm at sides,Jali leaf frame size 43mmx13mm i/c fine quality aluminum jali, 5mm thick imported tinted glass with rubber gasket using approved standard latches, wheel, stopper, brush channel angle joint and hardware etc.in all respect. 2 mm thick	P.Sft	1274.11		
36	C-25/10+11	Fabrication of heavy steel work, with angle, tees, flat iron round iron and sheet iron for making trusses, girders, tanks, etc., including cutting, drilling, revitting, handling, assembling and fixing, including erection in position. (for Windows Safety Grills)	%kg	8906.75		
37	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	129.78		

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
38	C-12/50	Providing and fixing 1½" (40mm) thick solid flush door shutter (Approved Factory Manufactured) with commercial ply (5 mm thick) on both sides double pressed and deodar wood lipping 1½"x3/8" (40mm x 10mm) around shutter including chromium plated fitting, iron hinges with aluminium kick plate 22 SWG on both sides & finger plate complete in all respect.	P.Sft	64.89		
39	C-12/15 a	Providing and fixing M.S. sheet hollow pressed frame of doors, windows, C. windows, etc. (chowkat only) of 20SWG welded with M.S. flat 6"x 1¼" x 1/8" (150mmx30mmx3mm) M.S. holdfast 9"x1"x1/8"(225mmx25mmx3mm) welded/screwed 4" (100 mm) long iron hinges, including filling chowkat with cement sand mortar 1:8 and embedding holdfast in cement concrete 1:2:4, complete in all respects: single rebate	P.Sft	666.93		
40	C-13/5 c(i+ii)	Painting new surface:- c) Preparing surface and painting of doors and windows any type (including edges):- 3 coats	%Sft	191.07		
41	C-13/7 a	French polishing complete:- on new work.	%Sft	1204.07		
42	C-9/15	Khuras on roof 2'x2'x6" (600 x 600 x 150 mm)	Each	8.00		
43	C-6/33(a-ii)	Providing and laying damp proof course of cement concrete 1:2:4(using cement, sand and shingle), including bitumen coating :- (a) with one coat bitumen and one coat polythene sheet 500gauge ii) 2" thick (50 mm)	%Sft	193.22		
44	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	502.32		
45	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	5496.07		
46	C-6/12	Providing and fixing ornamental cement jali 2" (50 mm) thick (1: 2: 4), without steel.	P.Sft	177.24		
47	C-25/10+ 11	Fabrication of heavy steel work, with angle, tees, flat iron round iron and sheet iron for making trusses, girders, tanks, etc., including cutting, drilling, revitting, handling, assembling and fixing, including erection in position. (for Parking Shed & Facade MS strips)	%kg	4320.00		
48	C-25/10+ 12	Painting new surface:- Preparing surface and painting guard bars, gates of iron bars, gratings, railing (including standards,braces, etc.) and in similar open work:- Prime coat + 2 subsequent coats	100Sft	3542.00		
49	C-10/43 (b)	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.	P.Sft	1751.00		
<b>Total of MRS ITEMS</b>						
1	NSI	Providing and laying structural pad for foundation made of selected granular fill material (Mixture of 50% gravel and 50% 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	4861.60		
2	NSI	Providing and laying sub-base course of stone product of approved quality and grade, including placing, mixing, spreading and compaction of sub-base material to required depth, camber, grade to achieve 100% maximum modified AASHTO dry density, including carriage of all material to site of work including gravel and aggregate (Crushed stone aggregate 298 km lead from sargodha quarry)	%Cft	577.83		
3	NSI	Providing and laying Granite tiles flooring 24"x24"x3/8" salt pepper light polished SB laid in white cement and matching pigment over 3/4" thick cement sand mortar (1:2) i/c filling joints in white cement and matching pigment complete in all respect.(SPM-110 Master or Equivalent).	P.Sft	7616.85		



Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
4	NSI	Providing and laying Granite tiles skirting dado 24"x24"x3/8" salt pepper light polished SB laid in white cement and matching pigment over 3/4" thick cement sand mortar (1:2) i/c filling joints in white cement and matching pigment complete in all respect.(SPM-110 Master or Equivalent).	P.Sft	516.22		
5	NSI	Providing and laying Porcelain tiles dado for corridor 9"x26"x3/8" laid in white cement and matching pigment over 3/4" thick cement sand mortar (1:2) i/c filling joints in white cement and matching pigment complete in all respect.(Master 51SF MPD757 Multi or Equivalent)	P.Sft	1606.80		
6	NSI	Providing and laying glazed Ceramic tiles texture light color for flooring size 9"x26"x3/8" laid over 3/4" thick cement sand mortar (1:2) i/c filling joints in white cement and matching pigment i/c cutting charges complete in all respect as approved & directed by the engineer in charge.(master or Equivalent)	P.Sft	659.97		
7	NSI	Providing and laying glazed Ceramic tiles texture light color for skirting / dado size 9"x26"x3/8" laid over 3/4" thick cement sand mortar (1:2) i/c filling joints in white cement and matching pigment i/c cutting charges complete in all respect as approved & directed by the engineer in charge. (Master or Equivalent)	P.Sft	2469.43		
8	NSI	Providing and fixing 3/4" thick pre-polished cherry pink marble full width area above 2 sft laid in white cement matching pigment 3/4" thick cement sand mortar (1:2) i/c fitting joints in white cement & matching pigment i/c making gola on exposed edges complete in all respect as approved by the engineer in charge. (stairs)	P.Sft	443.84		
9	NSI	Providing and fixing 3/4" thick pre-polished cherry pink marble full width area above 2 sft laid in white cement matching pigment 3/4" thick cement sand mortar (1:2) i/c fitting joints in white cement & matching pigment i/c making gola on exposed edges complete in all respect as approved by the engineer in charge. (stairs & slab)	P.Sft	555.41		
10	NSI	Providing and laying marble of pre-polished cherry pink marble size 2'x4'x3/8" laid in white cement and matching pigment over 3/4" thick cement sand mortar (1:2) i/c filling joints in white cement and matching pigment and chemical polishing complete in all respect as approved & directed by the engineer incharge. (Floor)	P.Sft	134.22		
11	NSI	Providing and fixing solid engineered door of teak wood (NTC FGV-307 or Equivalent) including hinges, tower bolt rubber stop cleats handles and chord with hooks etc. complete in all respect and as approved by the engineer incharge.	P.Sft	602.04		
12	NSI	Providing & fixing door handle lock of good quality, complete in all respect as per approval of Engineer/ Incharge. (RW-46 MSN Royalwand or Equivalent)	Each	25.00		
13	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	273.98		
14	NSI	Providing and fixing M.S door consisting of M.S angle iron chowkat 1 1/2"x1 1/2"x 1/4" with M.S flat 2"x1/4" laef frame of M.S angle iron 1 1/4"x1 1/4"x3/16" with diagonal brass of M.S angle iron 1"x1"x1/8" i/c M.S sheet 16 swg fixed on leaf i/c hinges, sliding bolts ,tower bolts handle etc .cutting welding assembling and fixing and at site complete in all respect and as approved by the engineer incharge.	P.Sft	39.66		
15	NSI	Providing/ fixing railing consisting of S.S. Pipe section size 2" dia of 18 SWG welded with S.S. flat 1"x1/8" continuously and welded over S.S. pipe punched in S.S. flat 2 3/4' high @ 5 1/2" c/c fixed in steps of stair, complete in all respect as per Engineer/ Incharge.	P.Rft	91.16		

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
16	NSI	Providing and fixing of False ceiling consisting of laminated Gypsum Board (one side laminated) of size 600 mm x 600 mm x 7.5 mm over aluminium Tee's 1"x 1"size at 2'-0"x2'-0"center to center longitudinally and transversally & aluminium angle of size 1" x 1" at corners/ ends, including all accessories such as steel hanging wire, hooks, screws, nails, rowel plugs, Cross Joints etc. complete in all respect, and as approved by the Engineer Incharge.	P.Sft	7373.09		
17	NSI	Supply and installation of Double Ply Fiber Glass sheet complete in all respect as per drawing and direction of engineer.	P.Sft	2037.34		
18	NSI	Providing and fixing at site M.S circular stairs 6" dia. pipe for center support, steps having 1½" x 1½" angle frame with 2½" square bars, 1½" dia. 2½' vertical pipes at each step and 2" dia. pipe for hand rail complete in all respect as per approved by Engineer in-charge.	P.Job	1.00		
19	NSI	Providing high performance high range water reducer (superplastisizer)for concrete as per approved mix design and approval of Engineer Incharge (Sika or equivalent)	P.kg	1927.00		
<b>Total of Non MRS ITEMS</b>						
<b>GRAND TOTAL OF CIVIL WORKS</b>						

Item No.	Description	Unit	Qty	Unit Rate (Rs.)	Total Amount (Rs.)	
	<b>SECTION - A</b>					
	<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 site engineer.					
	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 ABB, Schneider or equivalent approved by site engineer					
C-A-01	<b>DISTRIBUTION BOARD DB-Guest House BN</b>					
	<b>INCOMING</b>					
	01-150 Amps TP MCCB RC=10KA					
	03 Nos. Phase indication lamps of colour Red, Yellow, Blue.					
	03 Nos. 2 Amps fuses					
	01 Nos Digital Voltmeter scaled 0-500 Volts of appropriate sizes.					
	01 Nos.Voltmeter selector switch					
	05 Nos.copper bus bars 150 Ampere,three phase,Earth and Netural for distributions.					
	<b>OUTGOING</b>					
	30-10 Amps SP MCB RC=6 KA					
	14-16 Amps SP MCB RC=6 KA					
	27-20 Amps SP MCB RC=6 KA	Job	1		-	
		Sub Total Part -A Rs.				-

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
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Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
	Item No.	Description	Unit	Qty	Unit Rate (Rs.)	Total Amount (Rs.)
		<b>SECTION - B</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 Phillips				
	C-B-01	40 Watt (min) 2'x2' LED/SMD False ceiling Light or equivalent. IP 20 rated	No.	7		0
	C-B-02	17 Watt LED/SMD Light Fixture, IP-44 rated	No.	259		0
	C-B-03	9 Watt SMD/LED Light Fixture surface/recessed mounted, IP-44 rated	No.	38		0
	C-B-03	9 Watt LED lucline Light Fixture surface/recessed mounted, IP-44 rated	No.	15		0
					Sub Total Part -B Rs.	0

Item No.	Description	Unit	Qty	Unit Rate (Rs.)	Total Amount (Rs.)	
	<b>SECTION - C</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 or approved equivalent.					
	C-C-01	10 " outer dia exhaust fan with plastic body, fan blades and louvers	No.	18		0
	C-C-02	24" outer dia Wall Bracket fan, 1450Rpm, Max 50db sound level Fan shall be made with 99% purity Copper windings	No.	18		0
	C-C-03	48" dia ceiling fan suitable to give an air displacement of minimum 7600 Cu. ft./ min. Fan shall be made with 99% purity Copper windings.	No.	32		0
					Sub Total Part -C Rs.	0

Item	Description	Unit	Qty	Unit Rate (Rs.)	Total Amount (Rs.)
	<b>SECTION - D</b>				
	<b>WIRING IN CONCEALED CONDUITS</b>				
	<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 Paksitan Cable, Newage or fast cable and conduit should be of Solo, popular or equivalent as approved by site engineer				
i	ch/24/10 (a)(iii)	Supply and erection of single core PVC insulated copper conductor cables in pre-laid PVC pipe/M.S conduit G.I pipe/wooden strip batten/wooden casing and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x 2.5 mm (7/0.029")	RMtr	1980	0
ii	ch/24/3 (iii)	Supply and erection of PVC pipe for wiring recessed in wall including inspection boxes pull boxes, hooks, cutting jharries, and repairing surface, etc, complete with all specials ii) Cost of 25mm	Rmtr	396	0
	<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).				

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
i	ch/24/10 (a(i))	Supply and erection of single core PVC insulated copper conductor cables in pre-laid 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	11610		0
ii	ch/24/3 (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 20mm	Rmtr	1935		0
-D-03		<b><u>Switch to Switch</u></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).				
i	ch/24/10 (a(iii))	Supply and erection of single core PVC insulated copper conductor cables in pre-laid PVC pipe/M.S conduit G.I pipe/wooden strip batten/wooden casing and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x 2.5 mm (7/0.029")	RMtr	1029		0
ii	ch/24/3 (iii)	Supply and erection of PVC pipe for wiring recessed in wall including inspection boxes pull boxes, hooks, cutting jharries, and repairing surface, etc, complete with all specials ii) Cost of 25mm	Rmtr	245		0
-D-04		<b><u>Distribution board to General Purpose ( 5A/13A) socket</u></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)				
i	ch/24/10 (a(iii))	Supply and erection of single core PVC insulated copper conductor cables in pre-laid PVC pipe/M.S conduit G.I pipe/wooden strip batten/wooden casing and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x 2.5 mm (7/0.029")	RMtr	2106		0
ii	ch/24/3 (iii)	Supply and erection of PVC pipe for wiring recessed in wall including inspection boxes pull boxes, hooks, cutting jharries, and repairing surface, etc, complete with all specials ii) Cost of 25mm	Rmtr	351		0
-D-05		<b><u>Socket to Socket</u></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)				
i	ch/24/10 (a(iii))	Supply and erection of single core PVC insulated copper conductor cables in pre-laid PVC pipe/M.S conduit G.I pipe/wooden strip batten/wooden casing and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x 2.5 mm (7/0.029")	RMtr	408		0
ii	ch/24/3 (iii)	Supply and erection of PVC pipe for wiring recessed in wall including inspection boxes pull boxes, hooks, cutting jharries, and repairing surface, etc, complete with all specials ii) Cost of 25mm	Rmtr	136		0
C-D 06		<b><u>Distribution board to 15Amps socket</u></b>				
		Wiring of circuit from distribution board to 15A, 230Volts, DP switch with 3 nos. single core 4Sqmm PVC insulated 450/750 Volts grade stranded copper conductor cables in concealed PVC conduit including PVC conduit, Conduit accessories, etc (conduit partly shared for A/Cs)				
i	ch/24/10 (a(iv))	Supply and erection of single core PVC insulated copper conductor cables in pre-laid PVC pipe/M.S conduit G.I pipe/wooden strip batten/wooden casing and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x 4 mm (7/0.036")	RMtr	408		0

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
ii	ch/24/3 (iii)	Supply and erection of PVC pipe for wiring recessed in wall including inspection boxes pull boxes, hooks, cutting jharries, and repairing surface, etc, complete with all specials ii) Cost of 25mm	Rmtr	72		0

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
C-D 07		<b><u>20amps to 15Amps socket</u></b>				
		Wiring of circuit from distribution board to 20A, 230Volts, DP switch with 3 nos. single core 4 Sqmm PVC insulated 450/750 Volts grade stranded copper conductor cables in concealed PVC conduit including PVC conduit, Conduit accessories, etc (conduit partly shared for A/Cs)				
i	ch/24/10 (a(iv))	Supply and erection of single core PVC insulated copper conductor cables in prelaid PVC pipe/M.S conduit G.I pipe/wooden strip batten/wooden casing and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x 4 mm (7/0.036")	RMtr	312		0
ii	ch/24/3 (iii)	Supply and erection of PVC pipe for wiring recessed in wall including inspection boxes pull boxes, hooks, cutting jharries, and repairing surface, etc, complete with all specials ii) Cost of 25mm	Rmtr	104		0
C-D 07		<b><u>Distribution board to 20Amps socket</u></b>				
		Wiring of circuit from distribution board to 20A, 230Volts, DP switch with 3 nos. single core 6 Sqmm PVC insulated 450/750 Volts grade stranded copper conductor cables in concealed PVC conduit including PVC conduit, Conduit accessories, etc (conduit partly shared for A/Cs)				
i	ch/24/10 (a(v))	Supply and erection of single core PVC insulated copper conductor cables in prelaid PVC pipe/M.S conduit G.I pipe/wooden strip batten/wooden casing and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x 6 mm (7/0.044")	RMtr	1512		0
ii	ch/24/3 (iii)	Supply and erection of PVC pipe for wiring recessed in wall including inspection boxes pull boxes, hooks, cutting jharries, and repairing surface, etc, complete with all specials ii) Cost of 25mm	Rmtr	252		0
C-D 07		<b><u>ENERGY Meter</u></b>				
	ch/24/75(a-ii)	Supply and erection of electric energy meter, including meter testing fee, etc. a) single phase: 1x30 Amp, 250 volts	No.	16		0
					Sub Total Part -D Rs.	0

Item	Description	Unit	Qty	Unit Rate (Rs.)	Total Amount (Rs.)
	<b><u>SECTION-E</u></b>				
	<b><u>LT CABLES</u></b>				
	Supply at site, installation, testing and commissioning of PVC insulated non armoured copper conductor cable 600 / 1000 Volt grade (or otherwise mentioned in cable description ) in prelaid conduits / trenches to be installed as per routes shown on drawings including cost of all necessary materials, connections, identification tags, cables lugs properly crimped at both ends for the following sizes complete in all respects. Actual length of cables to be installed shall be practically measured at site by the Contractor, duly authenticated by the Engineer before placing the order with the manufacturer, however, approximate length of cables are shown herewith. Payments shall be made as per actual length installed. Cable should be of Paksitan Cable,Newage or fast cable and conduit should be of Solo,popular or equivalent as approved by site engineer				
-E-01					
i	ch/24/13 (d-iv)	Supply and erection of single core PVC insulated armord copper conductor cables in prelaid PVC pipe/M.S conduit G.I pipe/wooden strip batten/wooden casing and capping/G.I wire/trenches (rate for cables only) i) Cost of 1 x 4core 70 mm (19/0.083")	RMtr	190	0
ii	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	190	0

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
						0
			Sub Total Part -E Rs.			0

Item No.	Description	Unit	Qty	Unit Rate (Rs.)	Total Amount (Rs.)
	<b>SECTION - F</b>				
	<b>WIRING ACCESSORIES</b>				
	Supply at site, installation, testing and commissioning of the following wiring accessories, complete in all respects. Made of Phillips				
C-F-01	10 Amps, 250Volts one way, One gang light control switches including appropriate size concealed MS, powder coated back box.	No.	12		0
C-F-02	10 Amps, 250Volts one way, Two gang light control switches including appropriate size concealed MS, powder coated back box.	No.	2		0
C-F-03	10 Amps, 250Volts one way, Three gang light control switches including appropriate size concealed MS, powder coated back box.	No.	4		0
C-F-04	10 Amps, 250Volts one way, Four gang light control switches including appropriate size concealed MS, powder coated back box.	No.	19		0
C-F-05	10 Amps, 250Volts one way, Five gang light control switches including appropriate size concealed MS, powder coated back box.	No.	20		0
C-F-06	10 Amps, 250Volts one way, Six gang light control switches including appropriate size concealed MS, powder coated back box.	No.	25		0
C-F-07	10 Amps, 250Volts two way, one gang light control switches including appropriate size concealed MS, powder coated back box.	No.	2		0
C-F-08	5 Amps, 250Volts, 2 & 3 pin switched socket unit round pin including appropriate size MS, powder coated back box.	No.	66		0
C-F-09	13 Amps, 250Volts, Mutli pin duplex switched socket unit including appropriate size MS, powder coated back box.	No.	9		0
C-F-10	15 Amps, 250Volts, 3 pin duplex switched socket unit including appropriate size MS, powder coated back box.	No.	34		0
C-F-11	20 Amps Double Pole(DP) switch with neon indication lamp complete with MS, powder coated back box.	No.	28		0
C-F-12	Fan Dimmer 300 watt with switch/ including appropriate size Plastic back box. with all associated accessories.	No.	32		0
C-F-13	Supply and erection of 3/8" (10 mm) dia M.S. bar fan hook,placed at the time of casting of slab. Ch/24/49	No.	32		0
C-F-14	Appropriate size of plastic body fan box	No.	32		0
		Sub Total Part -F Rs.			0

Item No.	Description	Unit	Qty	Unit Rate (Rs.)	Total Amount (Rs.)
	<b>SECTION - G</b>				
	<b>GROUNDING SYSTEM</b>				
C-G-01	<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 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. Made of Pakistan, newage, Fast cables or equivalent as approved by site engineer.				



Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
	ch/24/10 (a vii)	Supply and erection of single core PVC insulated copper conductor cables in pre-laid 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 1 x 25 mm (19/0.052")	R.Mtr	45		0
	C-G-02	<b>Grounding Plate</b>				
		Ground electrode for the Grounding of LT electrical system . The Ground electrode shall comprise 600 x 600 x 6mm Thick Copper plate with Four nos. 1/2 inch dia copper nuts, bolts and washers, 02 Nos 70sqmm bare stranded Copper wire as Grounding leads, TWO inch dia GI pipe (15 feet long), lime and charcoal (Ratio 1:3), inspection chamber (CC 1:4:8), light duty CI cover, excavation & backfilling, all accessories as per site requirements & as directed by the Engineer, complete. A pit of dimensions 4 feet x 4 feet & 15 feet deep shall be excavated in the ground. The lime and charcoal shall be mixed thoroughly in the ratio of 1:3 with ONE foot thick hard packed bed in pit. The Copper plate with Grounding leads shall be placed vertically above the lime and charcoal bed. The 2nos. 70sqmm single core stranded Grounding leads shall be connected diagonally to the nuts and bolts on the copper plate, brought out through the GI pipe upto the first grounding connection point.	No.	1		-
	C-G-03	<b>Grounding Connection Point</b>				
		Supply of Grounding connecting points consisting of copper plate 300mm long x50mm wide x 6mm thick to be installed, complete with fixing arrangement, brass nuts bolts, washers, lugs, 12.5mm dia. holes to facilitate connections of Incoming copper strips / copper conductors.	Nos.	1		-
Sub Total Part -G Rs.						-

Item		Description	Unit	Qty	Unit Rate (Rs.)	Total Amount (Rs.)
		<b>SECTION - H</b>				
C-H-01		<b>CONDUITS, PIPES, DUCT, CABLE TRAYS, FIXING CLAMPS AND FIXING ARRANGEMENTS</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 or equivalent as approved by site engineer.				
i	ch/24/6 (i)	50mm dia PVC conduits ( Class D)	R.Mtr	190		0
ii	ch/24/6 (ii)	80mm dia PVC conduits ( Class D)	R.Mtr	50		0
	-H-02	<b>Flexible Pipe</b>				
		Supply, installation and connections of PVC insulated flexible conduit with nipples, check-nuts fixed on RCC slabs for the following sizes, these conduits shall be used to pass the cables from light and other points made on RCC slab to fixtures mounted at walls, recessed in false ceiling or as required as per site conditions. Approximate quantity is given, actual quantity shall be as per site requirements.				
i	ch/24/5 (ii)	20 mm. dia. (3/4" dia)	R.Mtr	35		-
ii	ch/24/5 (iii)	25 mm. dia. (1" dia)	R.Mtr	45		-
Sub Total Part -H Rs.						0

Item No.	Description	Unit	Qty	Unit Rate (Rs.)	Total Amount (Rs.)
	<b>SECTION-I</b>				
	<b>TELEPHONE / VOICE SYSTEM</b>				

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
	C-I-01	<u>Telephone Points in Walls Outlet Boxes</u>				

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
		Supply at site, installation, testing & commissioning of Wiring for each Telephone point with UTP 4 pair Cat 6a, in 1" dia conduit partly shared, Network Cable pure copper conductor PVC insulated PVC sheathed including cost of UTP Cat-6 Keystone Jack with Back Box to be installed on Walls, from Junction box to Telephone Points on walls, complete in all respect. cable should be made of D-link or equivalent & Conduit should be of solo, popular or equivalent approved by site engineer.	Nos	17		0
	C-I-02	<b>Telephone Junction Box (TJB)</b>				
		Supply, installation, testing and commissioning of telephone junction box to facilitation of connection of I/C and O/G cables to be installed in ground floor, complete in all respects panasonic or equivalent company approved by site engineer				
	a)	20 pair TJB	No.	1		0
	C-I-03	<b>Telephone Sets</b>				
	(i)	Supply at site, installation, testing and commissioning of Analogue Telephone set with CLI facility. (Hardware must be latest and market prevalent and should not be end of life product) made of panasonic(Model # KX -T7705) or equivalent approved by site engineer	Nos.	17		0
	C-I-04	<b>Intercome system</b>				
	a	Supply, installation, testing and commissioning of 3x8 extendable intercome system in all respect. Panasonic or equivalent approved by site engineer	Nos.	1		0
	C-I-05	<b>Faceplate</b>				
	a	Supply, installation, testing and commissioning of faceplate SINGLE SHUTTER/PORT WITH 1x RJ-11 I/O & BACK BOX , complete in all respects. Made of legrand or equivalent approved by site engineer	Nos.	17		0
Sub Total Part I Rs.						0

Item No.	Description	Unit	Qty	Unit Rate (Rs.)	Total Amount (Rs.)
	<b>SECTION -J</b>				
	<b>CIVIL WORKS</b>				
C-J-01	<b>Trench ( for LT Cable )</b>				
	Labour for excavation and refilling of trench 24" wide, 24" deep 4" sand compaction below and above in preinstalled PVC pipes, ramming watering all necessary material, labour etc, complete in all respect. Actual length of the trench shall be as per site condition and paid accordingly however approximate length of trench is given.	R.Mtr	20		0
C-J-02	<b>Manhole For LT Cable Pulling ( If Required)</b>				
	Construction of manholes to facilitate pulling of cables in trench or conduit as shown on drawing, manholes shall be of the size 24" x 24" x 30" deep with 9" thick wall with cement mortar, internal plaster 1:4, 100mm thick RCC cover for manhole, including cost of all accessories / materials, complete in all respects. (Tentative number of manholes have been provided, however payment shall be made as per actual and as per quantity requirement)	Nos.	2		0
Sub Total Part -J Rs.					0

Item No.	Description	Unit	Qty	Unit Rate (Rs.)	Total Amount (Rs.)
	<b>SECTION K</b>				
	<b>Air Conditioning</b>				

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
		Providing, shifting, fixing, testing, commissioning, adjusting and balancing of standard (Cool only) DC inverter technology air conditioning units, piping insulation including condensate copper piping connection, between indoor/outdoor units conduiting and any additional charge of refrigerant accessories, and Drain piping upto nearest drain water line included in these rates making the job complete in all respect. copper piping should be of muller, trox and insulation of Durkflex or equivalent, Drain pipe should be 3/4" dia pvc pipe of master, turkplast or equivalent as approved by site engineer				
	C-K-01	10ft drain pipe and cooper pipe with insulation of 1.5 Ton air conditioner.	Nos.	5		0
	C-K-02	10ft drain pipe and cooper pipe with insulation of 2.0 Ton air conditioner.	Nos.	16		0
	C-K-03	10ft drain pipe and cooper pipe with insulation of 4.0 Ton air conditioner.	Nos.	4		0
	C-K-04	Mild Steel 14 SWG Frame For Outer Unit	Nos.	28		0
					Sub Total Part -K Rs.	0

<b>CONSTRUCTION OF GUEST HOUSE AT BAHAWALNAGAR CAMPUS, THE ISLAMIA UNIVERSITY OF</b>						
<b>BILL OF QUANTITIES</b>						
<b>PUBLIC HEALTH WORKS</b>						
<b>1st BI-ANNUAL-2020 (1st JANUARY-2020 to 30th JUNE-2020) DISTRICT BAHAWALNAGAR</b>						
Sr. No.	Item No.	Description	Unit	Qty	Rate (RS)	Amount (RS)
		<b>SANITARY FIXTURES AND FITTINGS</b>				
1	19/33 ii	Providing and fixing, floor trap of cast iron, including concrete chamber all round, and C.I. grating:- 10x7.5 cm (4"x3")	Each	16		
2	19/35	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	6		
3	19/7	Providing and fixing stainless steel sink with drain board, size 120x60 cm (48"x24") including bracket set, waste pipe and waste coupling.	Each	1		
4	21/1 (iii)	Providing and laying R.C.C. pipe, moulded with cement concrete 1:1½:3, with spigot socket or collar joint, etc. including cost of reinforcement, conforming to B.S. 5911: Part I: 1981, Class "L" including carriage of pipe from factory to site of work, lowering in trenches to correct alignment and grade, jointing, cutting pipes where necessary, finishing and testing, etc., complete. 225 mm (9") i/d.	P.Rft	387		
5	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	3483		
6	3/24 (c)	Compaction of earthwork (soft, ordinary or hard soil) :- c) Ramming earthwork (all types of soil).	1000 Cft	3483		
7	3/13 (a)	Rehandling of earthwork: a) Lead upto a single throw of Kassi, phaorah or shovel	1000 Cft	3483		
		<b>TOTAL OF MRS ITEMS</b>				
1	NSI	Providing and fitting glazed earthen ware water closet European type( Porta HD-201), including seat and cover:- i) white	Each	6		
2	NSI	Providing and fitting glazed earthen ware water closet, squatter type (Orisa pattern) (HDD-9 Porta), combined with foot rest.	Each	8		
3	NSI	Providing and fitting flushing hung type cistern (HD-3) 13.63 litre (3 gallons) capacity, including bracket set, copper connection, etc. complete.	Each	8		

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
4	NSI	Providing and fixing Muslim shower double bib cock 90 angle Sonex,or equivalent complete in all respects as approved by the engineer incharge.	Each	14		

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
5	NSI	Providing and fixing Basin BOWL White ,Porta(HD-16) or equivalent complete in all respects as approved by the Engineer incharge.	Each	13		
6	NSI	Providing and fixing (7-piece set) POWDER COATED BATHROOM ACCESSORIES SET One Cosmetic Shelf, One Towel rod with bracket, One tooth brush holder with glass and cover, One Tissue paper holder, One soap dish, One double hook, One towel ring etc complete in all respects as approved by the Engineer incharge.	Each	13		
7	NSI	Providing and fixing Wall Shower Sonex or equivalent complete in all respects as approved by the Engineer incharge.	Each	12		
8	NSI	Providing and fixing Basin, sink mixing valve master(HDA-0501M) ,sonex or equivalent complete with all respects as approved by the engineer incharg :-white	Each	14		
9	NSI	UPVC Multi Floor Trap (110x75mm) including strainer; making required number of connections; breaking concrete or masonry work & then making it good; etc. of approved make.	Each	22		
10	NSI	Providing, Fixing Dadex Class D or equivalent UPVC clean out with cover making requisite number of holes in walls, plinth or floor for pipe connection and making good the same as necessary to the structure complete including, rubber gasket and clamp.	Each	6		
11		<b><u>WATER SUPPLY PIPES AND FITTINGS</u></b>				
		P/F Polypropylene Random copolymer (PPRC) pipe with fusion / threaded joints including the cost of all specials/ accessories i.e elbow, bend, sockets etc. (Dadex /Beeta/BBJ or equivalent) complete in all respect.				
	i	2" (50 mm) dia.	Rft	350		
	ii	1" (25 mm) dia.	Rft	170		
	iii	1 1/2" (40 mm) dia.	Rft	145		
	iv	3/4" (20 mm) dia.	Rft	640		
12		<b><u>SOIL, WASTE, VENTILATING PIPES &amp; FITTINGS</u></b>				
		Providing , fixing and testing UPVC Nikasi type "B" with solution of same quality make including the cost of all specials/ accessories i.e elbow, bend, sockets etc. (Dadex/Beeta/BBJ or equivalent) complete in all respect.				
	i	100 mm (4") dia.	Rft	250		
	ii	80 mm (3") dia.	Rft	180		
		<b><u>VALVES</u></b>				
13	NSI	Providing and fixing handle valves 16bars or equivalent complete in all respects as approved by the engineer incharge.				
	i	3/4 inch	Each	14		
		<b><u>MANHOLE</u></b>				
14	NSI	Making of manhole size 3'x2-1/2'x3' brick work, plaster complete as requirement including RCC manhole cover 22" dia with Tee shape C.I frame complete in all respect as per engineer Incharge	Job	7.00		
		<b><u>GYSER</u></b>				
15	NSI	Providing and Fixing Sui Gas Cum Electric Geyser 50 gallon capacity comprising of internal tank of G.I sheet 14-SWG and External M.S sheet 22-SWG covering with proper foot rests dully enamel painted, 4" thick heigh density glass wool insulation with proper warranty with thermostat temperature gauge including fixing and making connection at site etc. complete in all respects as approved by the Engineer Incharge. (Ambassador/Firex/Exquire)	Job	2.00		
16	NSI	Providing and Fixing Sui Gas Cum Electric Geyser 30 gallon capacity comprising of internal tank of G.I sheet 14-SWG and External M.S sheet 22-SWG covering with proper foot rests dully enamel painted, 4" thick heigh density glass wool insulation with proper warranty with thermostat temperature gauge including fixing and making connection at site etc. complete in all respects as approved by the Engineer Incharge. (Ambassador/Firex/Exquire)	Job	1.00		

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
		<b>WATER TANK</b>				
17	NSI	Providing and fixing Domestic type water tank of fiber glass 1000 Gallon (Double Ply) Dura or equivalent complete in all respects as approved by the Engineer incharge.	Each	3		
<b>TOTAL OF NSI ITEMS</b>						
<b>GRAND TOTAL OF PUBLIC HEALTH WORKS</b>						

### The Islamia University of Bahawalpur

4 **Addition Alteration/Renovation of Vice Chancellor's House at Baghdad-ul-Jadeed Campus and Vice Chancellor's Office at Abbasia Campus**

MRS: Jan -Jun 2020/N.S

No.	Ref	Description	Quantity	Rate	Unit	Amount
1		<b>Civil work (Schedule)</b> 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) in ordinary soil.				
	3/21-b		6087.50		Cft	%o Cft -
2		Cement concrete brick or stone ballast 1½ " to 2" (40 mm to 50 mm) gauge, in foundation and plinth:- (e) Ratio 1: 6: 18				
	6/3-c		1195.25		Cft	% Cft -
3		(a)(ii) Reinforced cement concrete in slab of rafts / strip foundation, base slab of column and retaining walls; etc and other structural members other than those mentioned in 5(a) (i) above not requiring form work (i.e. horizontal shuttering) complete in all respects:- (3) Type C (nominal mix 1: 2: 4)				
	6/6-a		460.75		Cft	P/Cft -
4		(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:- (3) (c) Type C (nominal mix 1: 2: 4)				
	6/6-a		547.25		Cft	P/Cft -
5		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) (b) deformed bars				
	6/9-b		3082.21		Kg	% Kg -
6	7/4-i	Pacca brick work in foundation and plinth in:- ratio 1:6	2705.03		Cft	% Cft -
7	7/5-i	Pacca brick work in ground floor:- i) cement, sand mortar:- "Ratio 1:6	1911.25		Cft	%Cft -
8	6/2	Dry rammed brick or stone ballast, 1½" to 2"( 40 mm to 50 mm) gauge.	1423.37		Cft	%Cft -

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
9	10/43-b	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	4922.87	Sft		

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Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount	
10	6/5-f	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): (i) 1:4:8	511.75	Cft		% Cft	-
	i	Ratio 1:2:4	1187.85	Cft		% Cft	-
11		Cement plaster 1:5 upto 20' (6.00 m) height:- ½" (13 mm) thick	4799.50	Sft		% Sft	-
12		Cement pointing struck joints, on walls, upto 20' (6.00 m) height:- ratio 1:3	4888.00	Sft		% Sft	-
13		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) 2" thick (50 mm)	476.71	Sft		% Sft	-
14		Cement plaster 3/8" (10 mm) thick under soffit of R.C.C. roof slabs only, upto 20' height.	811.37	Sft		% Sft	-
15		Supplying and filling sand under floor; or plugging in	1657.00	Cft		% Cft	-
16		Cement concrete brick or stone ballast 1½ " to 2" (40 mm to 50 mm) gauge, in foundation and plinth:- (e) Ratio 1: 6: 18	583.87	Cft		% Cft	-
17		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	3211.00	Sft		% Sft	-
18	11/35	Petty repair to main rooms.	19.00	No		Each	-
19	11/37	Petty repair to verandah.	3.00	No		Each	-
20	4/49-b	Scraping:- Ordinary distemper, oil bound distemper, or paint of wall.	15318.25	Sft		% Sft	-
21	11/9-b	Cement plaster 1:4 upto 20' (6.00 m) height:-½" (13 mm) thick	5025.37	Sft		% Sft	-
22	4/19-c	Dismantling cement concrete 1:2:4 plain.	438.25	Cft		% Cft	-
23	4/19-d	Dismantling cement concrete with brick aggregate.	1484.25	Cft		% Cft	-
24	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.	1741.28	Cft		% Cft	-
25	13/31	Preparing surface and painting with emulsion paint two coats old surface	1995.25	Sft		% Sft	-

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
26	13/4-d	Painting old surfaces:- Painting sashes, fanlights, glazed or gauzed doors and windows:- 2 coats	1428.56	Sft		% Sft -
27	13/32-a	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-Coat	21280.87	Sft		% Sft -
	i	one coat old surface:	65280.00	Sft		% Sft -
28		Removing cement or lime plaster.	3142.25	Sft		% Sft -
29	4/50	Dismantling glazed or encaustic tiles, etc.	4610.29	Sft		% Sft -
30	13/4-c	Painting old surfaces:- Painting doors and windows, any type: old surface 2 coats	874.00	Sft		% Sft -
31		Distance lead Chart Earth filling 5 miles	17970.00	Cft		%o Cft -
						<b>Total</b> -
<b>Civil work (Non-Schedule)</b>						
1		Providing & Fixing Fancy Granite Marble Dado/Skirting (Coffee Brown) 3/4" thick in pigment over (1:2) C.S mortar 3/4" thick including Finishing complete in all respect and as approved by the Engineer Incharge	1498.00	Rft		Per Rft -
2		Providing & laying floors of approved Glazed coloured porcelain tiles 48"x24" (Imported Quality made in UAE) white cement and pigment over a bed of 3/4" thick cement mortar 1:2 complete in all respect and as approved by the Engineer Incharge	5500.00	Sft		Per Sft -
3		Providing & Fixing Fancy Granite Coffee Brown Marble Slab (Imported Quality) for door sill 1/4" thick in pigment over (1:2) C.S mortar 3/4" thick including Finishing complete in all respect and as approved by the Engineer Incharge	315.00	Sft		Per Sft -
4		Providing & Fixing Fancy Granite Indian Green Marble Slab (Imported Quality) 1/4" thick in pigment over (1:2) C.S mortar 3/4" thick including Finishing complete in all respect and as approved by the Engineer Incharge	778.87	Sft		Per Sft -
5		Providing & fixing fancy false ceiling of plaster of paris as per approved design and sample and as directed, complete in all respects and after approval of sample by the Engineer incharge.	1041.82	Rft		Per Rft -
6		Putti filling for emulsion in paint, including rubbing and primary coat Complete in all respect, approved by Engineering Incharge	11271.00	Sft		Per Sft -

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
7		Preparing Surface and painting Plastic Emulsion Paint (ICI, Kansai or equivalent) 3-Coats Complete in all respect and as approved by Engineer Incharge	16753.00	Sft		Per Sft -
8		Providing, Fabricating and fixing 16 SWG M.S sheet hollow pressed Jamb frame (Factory primme) for door welded with MS flat size 6"x1.5"x3/16", hold fast i/c welding/screwing 5" long iron hinges, filling concrete for the jamb frame and embedding hold fast in the adjoining walls with 1:2:4 concrete, enamel painting etc. complete in all respects as show on the drawing and/ or as directed by the engineer, in conformance with following size 10"x2-1/2"	310.00	Sft		Per Sft -
9		Providing & Fixing Fancy Granite Marble Dado/Skirting (Ten Brown) 3/4" thick in pigment over (1:2) C.S mortar 3/4" thick including Finishing complete in all respect and as approved by the Engineer Incharge	461.25	Rft		Per Rft -
10		Providing & Fixing Fancy Granite Ten Brown Marble Slab (Imported Quality) 1/4" thick in pigment over (1:2) C.S mortar 3/4" thick including Finishing complete in all respect and as approved by the Engineer Incharge	430.00	Sft		Per Sft -
11		Providing & Fixing Glazed colored Dado Tiles 12"x24" (Imported Quality) in pigment over (1:2) C.S mortar 3/4" thick including Finishing complete in all respect and as approved by the Engineer Incharge	224.00	Sft		Per Sft -
12		Providing & Fixing Glazed colored Dado Tiles 20"x13" (Imported Quality) in pigment over (1:2) C.S mortar 3/4" thick including Finishing complete in all respect and as approved by the Engineer Incharge	998.87	Sft		Per Sft -
14		Providing & Fixing Fancy Granite Marble Dado/Skirting (Green Indian) 3/4" thick in pigment over (1:2) C.S mortar 3/4" thick including Finishing complete in all respect and as approved by the Engineer Incharge	478.25	Rft		Per Rft -
15		Providing & Fixing Glazed colored Dado Tiles 18"x12" (Imported Quality) in pigment over (1:2) C.S mortar 3/4" thick including Finishing complete in all respect and as approved by the Engineer Incharge	1327.50	Sft		Per Sft -
16		Providing & laying floors of approved Glazed coloured tiles 12"x12" (Imported Quality) white cement and pigment over a bed of 3/4" thick cement mortar 1:2 complete in all respect and as approved by the Engineer Incharge	392.66	Sft		Per Sft -
17		Providing & laying floors of approved coloured Glazed tiles 24"x24" (Imported Quality) laid in white cement and pigment over a bed of 3/4" thick cement mortar 1:2 complete in all respect and as approved by the Engineer Incharge	735.25	Sft		Per Sft -

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount	
						<b>Total</b>	-
		<b>Electric work</b>					
		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")	1840.00	Rft		Per Rft	-
		ii) 7/0.74 mm (7/0.029")	1720.00	Rft		Per Rft	-
		Supply and erection of PVC pipe for wiring recessed in walls, including inspection boxes, pull boxes, hooks, cutting jharries, and repairing surface, etc., complete with all specials. 25 mm i/d	521.50	Rft		PerRft	-
		<b>Electric work (Non-Schedule)</b>					<b>0.00</b>
		Supply, Installation & Connection of Flat Panel LED ceiling light recessed type (12W, 240 volt i/c any accessories at site. Complete in all respect as approved by the engineer incharge. (Philips, orient or equivalent).	65.00	Nos.		Each	-
		<b>Plumbing Work (Non-Schedule)</b>					-
		Providing and fixing Coloured Glazed Earthen ware water closet European type Couple set including Flush Tank fixed with comode, Bakelite sheet cover thrimble, connection pipe Complete in all respect and approved by Engineering Incharge. (Porta or equivalent)	5.00	No		Each	-
		Providing and fitting glazed earthen ware water closet (WC) Orisa pattern, combined with foot rest best quality complete in all respects as approved by the engineer incharge (Porta/Lexta or equivalent company)	4.00	No		Each	-
		Providing, laying, fixing and testing uPVC Soil Waste, vent & rain water down pipe "NIKASI PIPES Durafit/ Beta/ Pak Arab/Dadex/ Equalvent" as per ISO 3633 & PS 3214 including uPVC fittings with solvent cement jointing or rubber ring joints complete in all respects including clamps, bends, tees, Y-tees, Cowl reducers, clean out WC-Elbow Adopter etc. complet in all respects. Complete in all respects and as approved by Engineer Incharge					
		i) uPVC Pipe 3" dia	138.00	Rft		Per Rft	-
		ii) uPVC Pipe 4" dia	201.25	Rft		Per Rft	-
		Providing and laying, cutting, jointing, testing and disinfecting PPRC (PN-20) pipe line(M.S Minhas pvt Ltd) for hot & cold water supply complete in all respects, i/c specials such as coupler, reducing socket, elbow, endcaps, male/female,threaded, fittings, like teese, adoptors to conect polydex pipes to other pipe and shower, wash basin, bibcock etc, Complete in all respect as per specifications and drawings and as approved by the Engineer Incharge.					

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
		i) PPCR Pipe 25mm	620.75	Rft		Per Rft

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Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
5		ii) PPCR Pipe 32mm	260.75	Rft		Per Rft -
		Providing & Fitting Glazed P-Trap 4" dia best quality complete in all respect as per specifications and drawings and as approved by the Engineer Incharge.	16.00	No		Each -
6		Providing & Fitting P-Trap floor jali best quality complete in all respect as per specifications and drawings and as approved by the Engineer Incharge.	13.00	No		Each -
<b>Total</b>						-

### The Islamia University of Bahawalpur

**5 Construction of Pacca Water Course from MBA Department to New Engineering College & 8" dia Water Supply Pipe from Water bowser Point to MBA Department at Baghdad-ul-Jadeed Campus**

Civil work			MRS Jan to Jun, 2020				
No	Ref	Description	Quantity		Rate	Unit	Amount
1	3/52	Earthwork in excavation of drains, irrigation channels through excavator / drag lines in all kind of soil and conditions(dry,wetslush,daldal and under water) including its disposal and preparation of working pad for operation of machinery. (Lead upto 100 ft)	15000.00	Cft		%o Cft	-
2	3/5-iii iii	Earthowrk in ordinary soil for embankments lead upto 100 ft. (30 m), including ploughing and mixing with blade grade or disc harrow or other suitable equipment and compaction by mechanical means at optimum moisture content and dressing to designed section, complete in all respects:- 85% maximum modified AASHO dry density. i) Lead upto 100'	20200.00	Cft		%o Cft	-
		ii) lead upto 1/4 mile	30000.00	Cft		%o Cft	-
3	6/3	Cement concrete brick or stone ballast 1½ " to 2" (40 mm to 50 mm) gauge, in foundation and plinth:- Ratio 1:4:8	350.00	Cft		% Cft	-
4	7/4	Pacca brcik work in foundation and plinth in Cement Sand Mortar Ratio 1:3	1000.00	Cft		% Cft	-
5	11/9	Cement Plaster 1:4 upto 20' height 1/2" thick	3000.0	Sft		% Sft	-
<b>Total</b>						-	

Civil work (Non-Schedule)							
No		Description	Quantity		Rate	Unit	Amount
1	N.S	Providing & Fixing RCC Nakkah 20" size for pacca water course, fixing at site with cement sand mortor complete in all respects as approved by the engineer incharge.	12.00	No		Each	-
2	N.S	Providing & Fixing pre-cast water channel of cement concrete as per approved section of size 2.50'x1.75' (6 Nos as per Factory code) including fixing at site with cement sand mortor 1:3 on joints, also includes loading, unloading & carriage of all materials from factory to site of work complete in all respects as					

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
		approved by the engineer incharge	2500.00	Rft		Per Rft

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Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount	
						<b>Total</b>	-
1	23/28 +b-ii	<b>Water Supply Line</b> Providing and fixing cast iron special of B.S.S. Class 'B' (such as bend, tee cross collar, reducer, tail piece, flanged spigot, cap, flanged socket, taper, angle branch, plug etc.) for cast iron pipe line , complete:- C.I. flanged specials, with flanged and flanged joints:- 8" to 12" (200 to 300 mm) i/d	200.0	Kg		Per Kg	-
						<b>Total</b>	-
1	N.S	<b>Water Supply Line (Non-Schedule)</b> Supply & Erection of Butter fly valve of kitz Japan for 'B' class working pressure uPVC water supply line including uPVC flangs etc complete in all respects as approved by the engineer incharge 8" dia	2.00	No		Each	-
2	N.S	Providing, laying, cutting, jointing, testing and disinfecting uPVC pipeline for water supply 'B' class working pressure including all specials as required at site of work (Bita/Dadex or equalent quality) complete in all respects as approved by the engineer incharge i) 8" dia	2500.00	Rft		Per Rft	-
3	N.S	Horizontal boring underneath roads, walking path & ramps of houses for crossing the sui gas/water supply pipe line 8" i/d upto 3' depth. Complete in all respects as approved and as directed by the engineer incharge	50.00	Rft		Per Rft	-
						<b>Total</b>	-

**Construction of Pipe Culverts 40' wide 2 Nos.**

**Civil work**

No	Reff	Description	Quantity	Rate	Unit	Amount
1	3/21	Excavation in foundation of building, bridges and other structures including deg-belling, dressing, refilling around structure with excavated earth, watering and ramming lift upto 5 ft. - in ordinary soil	1920.00		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	300.00		Cft	% Cft -
3	7/4	Pacca brck work in foundation and plinth in Cement Sand Mortar Ratio 1:3	840.00		Cft	% Cft -
4	11/9	Cement Plaster 1:4 upto 20' height 1/2" thick	1600.0		Sft	% Sft -
5	21/3	Providing and laying R.C.C. pipe sewers, moulded with cement concrete 1:1½:3 conforming to ASTM Specification C-76-79, Class II. Wall B, 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. 15" i/d	80.00		Rft	Per Rft -
6	6/6	Reinforced cement concrete in slab of rafts / strip				



Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
		foundation, base slab of column and retaining walls;				

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount	
7	6/9	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)	160.00	Cft		Per Cft	-
		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 40-Grade	400.00	Kg		% Kg	-
						<b>Total</b>	-

### The Islamia University of Bahawalpur

6

#### Providing & Laying Sui Gas Pipeline for Veterinary Hospital at Baghdad-ul-Jadeed Campus

Sui Gas Work			MRS Jul to Dec, 2019				
No	Ref.	Description	Quantity		Rate	Unit	Amount
1	23/22i	Providing, laying, cutting, jointing, testing and disinfecting G.I. pipeline in trenches, with socket joints, using G.I. pipes of B.S.S. 1387-1967 complete in all respects, with specials and valves. Light Quality	350.00	Rft		Per Rft	-
			330.00	Rft		Per Rft	-
2	19/43	Providing and fixing, brass gas cock:-	15.00	No		Each	-
			6.00	No		Each	-
<b>Total</b>							-
<b>Sui Gas Work (Non-Schedule)</b>							
1	N.S	Providing & Fixing MS Pressure pipe 1" dia, 4mm thick with all fitting such as elbow, bend, socket etc for main line API quality as per SNGPL specification including cleaning, welding, wrapping with fiber glass and compound excavation 3' below from ground level back filling and restoratoin and original condition and as approved by the engineer incharge pressure 100 PSI.	2000.00	Rft		Per Rft	-
2	N.S	Providing & Fixing Muller Tee best qulaity complete in all respects as approved by the engineer incharge 1" dia	1.00	No		Each	-
3	N.S	Providing & Fixing Gas regulator 043 best qulaity complete in all respects as approved by the engineer incharge	1.00	No		Each	-
4	N.S	Providing & Fixing Gas Service Valve 1" dia best qulaity complete in all respects as approved by the engineer incharge	1.00	No		Each	-
5	N.S	Horizontal boring underneath roads, walking path & ramps of houses for crossing the sui gas/water supply pipe line 3" i/d upto 3' depth. Complete in all respects as approved and as directed by the engineer incharge	100.00	Rft		Per Rft	-
<b>Total</b>							-