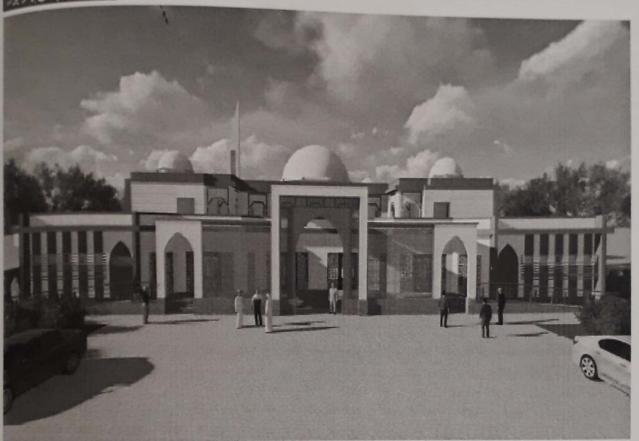


# THE ISLAMIA UNIVERSITY OF BAHAWALPUR



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

BILL OF QUANTITIES MARCH 2020



### **New Vision Engineering Consultant**

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СО	NSTRUCTION OF MOSQUE AT RAHIM YAR UNIVERSITY OF BAHAV	
	BILL OF QUANTITI	ES
	SUMMARY OF COS	ST
Sr. No.	DESCRIPTION	AMOUNT
1.	CIVIL WORKS	
2.	PUBLIC HEALTH WORKS	
3.	ELECTRIC WORKS	
	TOTAL	
	GRAND TOTAL	

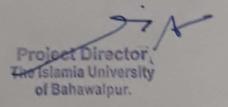
Project Director
The Islamia University
of Bahawalpur.

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

#### BILL OF QUANTITIES

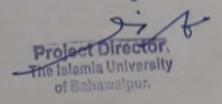
#### CIVIL WORKS

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Sr. No.	Item No.	Description of Item	Unit	Qty
1		Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and rammling lead upto one chain (30 m) and lift upto 5 ft. (1.5 m) in ordinary soil.	%ocn	39290.75
2	C-26/42	Spraying anti-termite liquid mixed with water in the ratio of 1:40.	%SR	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.	%CR	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. horizental 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.Cit	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.CR	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.Cit	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



Sr. No.	Item No.	Description of Item	Unit	Qty
	C-6/6 a-l (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 inaddition to the including the lead covered in the item of work, is more than rate of earthwork, without deducting 1000 ft. (300 m) (Lead will be paid as per actual but not more than 1.5km)		
	а	upto ¼ mile (400 m).	%0Cft	25473.76
	b	for every 330 ft. (100 m) additional lead or part thereof, beyond ½ 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
20	C-7/5(i)+ 7/6(i)	Pacca brick work in first floor cement, sand mortar Ratio 1:4	%Cft	283.17
21		Cement plaster 1:5 upto 20' (6.00 m) height, ½" (13 mm) thick.	%Sft	18287.35
22		Cement plaster 1:5 upto 20' (6.00 m) height, ¾" (20 mm) thick.	%Sft	5254.84
23	C-11/9(c)	(0.00 m) Height, 74 (20 mm) thick.		21524.14
		Providing grooved cement sand plaster 1:3 over existing plastered and roughened surface upto 20' (6.00 m) height. 1/2"		
24		Cement plaster 3/8" thick under soffit or R.C.C. roof slab only upto 20' heigh ratio 1:3.		1392.17
25	C-13/31 (a+b)	Preparing surface and painting with emulsion paint:- 3 Coats	%Sft	16008.26
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	%Sft	39550.45
27	C-7/30	Supplying and filling sand under floor; or plugging in wells.	%Sft	21524.14
28	C-6/2	Dry rammed 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 curing complete)	%Cft	4258.27
30	C-10/15(e)	aggregate), Ratio 1: 2: 4  Providing and laying topping of cement concrete 1:2:4, including surface finishing and dividing in panels: 2" (50 mm) thick.	%Cft	2825.09
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.		148.32

Sr. No.	Item No.	Description of Item	Unit	Qty
32		Providing and Laying Insulation material of Estructed Polyetyrene XPS in Rigid Insulation / Foam Board on roof or walls. Density 32-38Kg/M, compressive strength 250-400 kps. R value 5 per inch thickness and water obsorption (1% by volume, cell structure clored cell) //c cutting and placing in position complete in all respect. 1-1/2" thick	% OR	8603.20
33	C-26/37(4)	Supplying and laying polythene sheet over D.P.C. under floors and on roofs, etc.	P.88	8603.20
34	0.25(53(6))	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 toommx30mm using frame at bottom, attopand side leaf trame sections of 60mmx3mm at top & bottom and size 45mmx25mm at center and size 45mmx25mm at sides, Jali leaf trame size 43mmx13mm I/o 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.Sn	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.Sn	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 incharge.	P.Sit	206.00
37		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	
38	C-13/7	French polishing complete: on new work.		638.60
39	C-9/15	Khuras on roof 2'x2'x6" (600 x 600 x 150 mm)	%Sft	1277.20
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).	Each	9.00
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.	%Sft %kg	1078.00
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	%Kg	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
		Total of MRS ITEMS	-1 3	



Sr.		Description of Item	Unit	Qty
No. 1	NSI	Providing and laying structural pad for foundation made of selected granular fill material (Mixture of 50% gravel and 50% salected granular fill material (Mixture of 50% gravel and 50% sand of approved quality and grade) including placing, mixing, sand of approved quality and grade) including placing, mixing, sand of approved in all material to required 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 flooring size 9"x26"x3/8" laid over 3/4" thick cement sand matching pigment i/c (1:2) I/c filling joints in white cement and matching pigment i/c cutting charges complete in all respect as approved & directed 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 skarting 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)		
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	473.80
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 incharge.	P.Sft	1043.06
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 series.	P.Sft	1283.77
10	NSI	Providing and fixing solid engineered door of teak wood (NTC FGV-307 or Equivalent) including hinges, tower bolt rubber ston cleats handles and chard with his	P.Sft	552.08
11	NSI	all respect as per approval of Engineer/ Incharge. (RW-46 MSN)	P.Sft	86.52
12	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.	Each	17.00
		and the second s	P.Sft	234.33

		Lation of Item	Unit	Qty
Sr. No.	Item No.	Description of Item  Providing/ fixing islamic art pattern aluminium jali 11mm thick, Providing/ fixing islamic art pattern aluminium jali 11mm thick,		
13	NSI	size as per site requirement all respect as per instruction of screws etc., complete in all respect as per instruction of screws etc., complete in all respect as per instruction of screws etc., complete in all respect as per instruction of screws etc., complete in all respect as per instruction of screws etc., complete in all respect as per instruction of screws etc., complete in all respect as per instruction of screws etc., complete in all respect as per instruction of screws etc., complete in all respect as per instruction of screws etc., complete in all respect as per instruction of screws etc., complete in all respect as per instruction of screws etc., complete in all respect as per instruction of screws etc., complete in all respect as per instruction of screws etc., complete in all respect as per instruction of screws etc., complete in all respect as per instruction of screws etc., complete in all respect as per instruction of screws etc.		2461.75
14	NSI	Engineer/ Incharge.  Providing/ fixing railing consisting of S.S. Pipe section size 2" 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 @ 5½" 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 (superplastisizer)for concrete as per approved mix design and approval of Engineer Incharge (Sika or equivalent)	P.kg	2776.00
		Total of Non MRS ITEMS		
		GRAND TOTAL OF CIVIL WORKS		



	BILL OF QUANTITI SUMMARY OF COS ELECTRICAL WOR	ST
BOQ Secti	ion Description	Cost of Section (Rs)
Section-A	Distribution Boards	
Section-B	Light Fixtures	
Section-C	Miscellaneous Fittings	
Section-D	Wiring in Concealed Conduits	
Section-E	LT Cables	
Section-F	Wiring Accessories	
Section-G	Grounding System	
Section-H	Conduits & Pipes	
lection-l	Civil Works	
ection-J	Air Conditioning	
ection-K	PAS & UPS	

Project Director
The Islamia University
of Bahawalpur.

Item No.	Description	Unit	Qty	ı
	SECTION - B			
	LIGHT FIXTURES			
	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 -	BF

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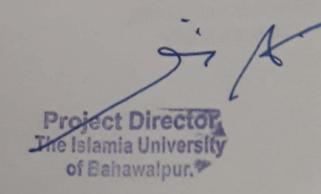
Item No.	Description	Unit
	SECTION - C	
	MISCELLANEOUS FITTINGS	
	Supply, installation, testing & commissioning of Ceiling/ Exhaust fan. The ceiling/exhaust fan shall comprise circular fan metallic/ plastic body, metallic fan blades, down rod (if necessary) of suitable dia & length, AC capacitor, internal 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.
C-C-02	24" outer dia Wall Bracket fan,1450Rpm, Max 50db sound level Fan shall be made with 99% purity Copper windings	No.
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.
A CONTRACTOR OF		Sub T

tern Ho.		Description	Unit	Qty	Unit
-		SECTION - D MPING IN CONCEALED CONDUITS			
		MENG IN CONSERVED COMMON S Distribution board to Switch			
CO01		Wining of light circuit from Distribution Board to switch, with Three nos. single core 2.5 Sqimm PVC insulated 450/750 voits 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			
,	ch/24/10	Supply and erection of single core PVC insulated copper conductor cables in prelaid PVC pipe/M.S conduit G.I pipelwooden strip batten/wooden casing and capping/G.I wire/trenches (rate for cables only) I) Cost of 1x 2.5 mm (7/0.029")		1890	
	CHIZAIS	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	
C-D-02		Switch to light point & point to point wiring 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	Supply and erection of single core PVC insulated copper conductor cables in prelaid PVC pipe/M.S conduit G.I pipelwooden strip batten/wooden casing and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x 1.5 mm (3/0.029")		9000	
i	(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	
C-D-03		Switch to Switch 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).			
1	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 pipelwooden 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	
	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	
C-D-04		Distribution board to General Purpose (5A/13A) socket Wiring of circuit from Distribution Board to 5A/13A, 230Volts with 3 nos. single core 2.5 Sqmm PVC insulated 450/750 Volts graded, 283 pin switched socket, stranded copper conductor cables in concealed PVC conduit, including conduit accessories, etc(conduit partly shared)			
1	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	
1	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	
C-D-05		Socket to Socket 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)			
1	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 pipelwooden 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	
1	ch/24/3	surface, etc, complete with all specials ii) Cost of 25mm	Rmtr	135	
C-D-06		Distribution board to 15Amps socket			-

Rem No.		Description	Unit	Qby
		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)		
1	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 pipelwooden strip batten/wooden casing and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x 4 mm (7/0.036*)	RMt	969
1	ch/24/3 (iii)	Supply and erection of PVC pipe for wiring recessed in wall including	Rmir	171
C-D-07		Distribution board to 20Amps socket		
000		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 pipelwooden 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
1	ch/24/3 (iii)	Supply and erection of PVC nine for wiring recessed in wall including	Rmtr	171
			Sub Ti	otal Part

em No.		Description	Unit	Qty
	THE RESERVE TO SHAPE THE PERSON NAMED IN	SECTION-E		
	S P 1 d P n li d li	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		
Carle at 1	(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 C	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

Item No.		Description	Unit	Qty
_		SECTION - G		
		GROUNDING SYSTEM		
C-G-01		Grounding Cables		
		Supply at site, installation, testing and commissioning of PVC insulated non armoured copper conductor cable 450/ 750 Volt grade (or otherwise mentioned in cable description) in prelaid conduits / trenches to be installed as per routes shown on drawings including cost of all necessary materials, connections, identification tags, cables lugs properly crimped at both ends for the following sizes complete in all respects. Actual length of cables to be installed shall be practically measured at site by the Contractor, duly authenticated by the Engineer before placing the order with the manufacturer, however, approximate length of cables are shown herewith. Payments shall be made as per actual length installed. Made of		
		Pakistan, newage, Fast cables or equivalent as approved by site engineer.		
	ch/24/10 (a(vi))	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 1 x 16mm (7/0.064)	R.Mtr	100
C-G-02		Grounding Plate		
		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.	•	2
C-G-03		Grounding Connection Point		
		Supply of Grounding connecting points consisting of copper plate 300mm		
Take.	13000	long x50mm wide x 6mm thick to be installed, complete with fixing		Bris.
100		arrangement, brass nuts bolts, washers, lugs, 12.5mm dia. holes to		2
		facilitate connections of Incoming copper strips / copper conductors.	Nos.	Z Total Part



Item No.		Description	Unit	Qty
Hemite		SECTION - H		
C-H-01		CONDUITS, PIPES, DUCT, CABLE TRAYS, FIXING CLAMPS AND FIXING ARRANGEMENTS		
		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)		R.Mtr	100
ii		80mm dia PVC conduits ( Class D)	R.Mtr	45
C-H-02		Flexible Pipe		
		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 -

Item No.	Description	Unit	Qty
	SECTION -I		
	CIVIL WORKS		
C-1-01	Trench ( for LT Cable )		
	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.		25
C-I-02	Manhole For LT Cable Pulling (If Required)		
	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	Nos.	2
State of the last	quantity requirement)		Total Part



Hem		Description	Unit	Qty
No.	SOUND	SECTION - K SYSTEM INSTALLATION		
-	SOUND			
	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 ressistance of shunt speakers must be in the range $(4-8\Omega)$ the work consist; OR approved by Incharge/Engineer.		
-K-01		Power amplifier 900w (Type is PHONIC, MAX 1500 or equivalent)	No.	1
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
-K-05		Hand mic . (Type is Shure 606N or equivalent)	No.	1
-K-06		Tie-Pin condenser mic (Philips or equivalent)	No.	2
-K-07		Floor mic stand.	No.	2
-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.		1
	UPS S	APC Smart-UPS SUA 5000va 230V High density, double-conversion		
C-K-1		line interactive with 0.8 PF model # SUA5000RMI5U or Equivalent approved by site engineer.	Nos	1
C-K-1		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-1		Battery Rack (Iron)	Nos.	1
C-K-1	4	Transport and testing charges		otal P

1	CONST	RUCTION OF MOSQUE AT RAHIM YAR KHAN C	AMPUS, T	HE ISL
	_	BILL OF QUANTITI		
-		PUBLIC HEALTH WO		
		DESCRIPTION	into	
SR.	ITEM NO.		UNIT	QTY
NO.		SANITARY FIXTURES AND FITTINGS		
_	19/3 (i)	Providing and fitting glazed earthen ware water closet, squatter type (Orisa pattern), combined with foot rest.		
-	- 13	Providing and fitting plastic made low down flushing distern	Each	13
2	19/12 (1)	13 63 litre (3 gallons) capacity, including bracket set conner		
		connection, etc. complete.	Each	13
_	19/19	Providing and fixing looking glass 55x40 cm (22"x16") size,and 5 mm thick, first quality.		
3			Each	10
4	19/15	Providing and fixing, chromium plated soap dish.	Each	10
_	19/33 ii	Providing and fixing, floor trap of cast iron, including concrete	3001	,0
5	19/33 11	chamber all round, and C.I. grating:-		100
		ii) 10x7.5 cm (4"x3")	Each Each	13
6	19/34 ii	Providing and fitting "P" trap:- ii) 10 cm (4") glazed.  Providing and fitting 10 cm (4") gully trap, including cement	Laui	13
7	19/35	concrete, cost of PVC grating 15x15 cm (6"x6") and masonry		
	15 1	shamber 30v30 cm (12"x12").	Each	6
8	19/26 (ii)	Providing and fixing chromium plated bib cock:- ii)	Each	113
		11 5 cm (1/6")	Lacii	110
9	19/24 (ii)	Providing and fixing chromium plated stop cock, heavy:- ii) 1.5 cm (½")	Each	33
10	23/36 (ii)	Desiding leving cutting jointing testing and disinfecting		
10	23/30 (II) e	To the took of house (a) fille life in the life in		
		In the trains of honds valves, clusses, dillotte 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.	1993	
		flanged joints (Medium Quality) e) 4" i/d (100 mm)	0.04	212
		manged joints (wedidin dumity)	P.Rft	212
11	21/1 (iii)	Providing and laying R.C.C. pipe, moulded with cement		
		concrete 1:11/2:3, With spigot southerming to B.S. 5911:		
		including cost of reinforcement, conforming to provide the conforming the conforming to provide the conforming t		
	15	the cite of work lowering in delicited		
	11:11	grade, jointing, cutting pipes where		
	100	necessary, finishing and testing	P.Rft	285
	1 19 11	1225 mm (9:) I/d.		
12	3/42 (i)	Earthwork excavation in open cutting for setting and manholes as shown in drawings including shuttering and manholes as shown in drawings including shuttering and dimensions drawing to correct section and dimensions		
	1000	manholes as shown to correct section and different surface		
	100	timbering, dressing to correct section and differsions timbering, dressing to correct section and differsions timbering, dressing to correct section and differsions are correct sections are corre	1000 Cft	2565
		water, in all types of soil except smiles	1000 Cit	2000
	1000	Off. to 7.0 it. (off ordinary of hear	1000 Cft	2565
13	3/24 (0	Compaction of earthwest of soil).	1000 Cft	2565
		Ramming earthwork (all yell)  Rehandling of earthwork: a)	1000 Cit	2000
14	3/13 (a	) Renanding of throw of Kassi, Properties		
-		TOTAL White Porta(HD-16) or		
		TOTAL OF MRS TELLO  TOTAL	Each	10
1	NSI	Providing and limited in all respect		
	1	Engineer incharge. Rasin, sink mixing with all respects as		
2	NSI	Providing and fixing Basilent complete	Each	10
	1431	equivalent complete III  Engineer incharge.  Engineer incharge.  Providing and fixing Basin, sink mixing valve master(HDA- Engineer incharg with all respects as  Providing and fixing Basin, sink mixing valve master(HDA- Engineer incharg valve mixing as provided in the second of the	and the latest designation of the latest des	
	1	o501M) ,soneX of engineer incharged apprroved by the engineer incharged including strainer; apprroved by the engineer incharged including strainer; of the strainer including including strainer including strainer; of the strainer including strainer inc		1
_	-	apprroved by  UPVC Multi Floor Trap (110x75mm) breaking concrete  UPVC Multi Floor Trap (10x75mm) breaking concrete  making required number of connections; breaking concrete  making required number of making it good, etc. of approved  or masonry work & then making it good.	Pach	23
3	NSI	Imakiliy	20011	
		lor mason		
	1	or masonry work make.  project Director make.  project Director make.  project Director make.		
		Projemia University		

SR.	ITEM NO.	DESCRIPTION	UNIT	QTY	R
40.	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.	-		
5		WATER SUPPLY PIPES AND FITTINGS	Each	3	
		P/F Polypropylene Randam 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.	-		+
	ii	2 1/2" (60 mm) dia.	Rft	250	H
	iii	1" (25 mm) dia.	Rft	50	+
	iv	1 1/2" (40 mm) dia.	Rft	189	+
	v	3/4" (20 mm) dia.	Rft	70	H
6		SOIL, WASTE, VENTILATING PIPES & FITTINGS	Rft	234	
		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
	i	100 mm (4") dia.	Rft	212	T
	ii	80 mm (3") dia.	Rft	350	T
	iii	50 mm (2") dia.	Rft	90	T
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	ı
8	NSI	MANHOLE  Making of manhole size 3'x2-1/2'x3' brick work, plaster complete as requirment including RCC manhole cover 22" dia with Tee shape C.I frame complete in all respect as per engineer Incharge	lah	200	
9	NO	GYSER	Job	5.00	
3	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)			The state of the last of the l
		WATER TANK	Job	3.00	4
10	NSI		-		-
	1	TOTAL OF NSI ITEMS	Each	13	
		GRAND TOTAL OF PUBLIC HEALTH WOR	KS	-	
		j	x	-	
		Project Director The Islamia Universit	D.		

#### The Islamia University of Bahawalpur

Carpeting of Main Approach Road Including Upgrading of Footpath, Lane Marking and Cat Eyes at Baghdad-ul-Jadeed Campus

Estimate Based on MRS Jan to Jun, 2020

#### ABSTRACT OF COST

1)	Civil Work (Schedule Items)	Rs.	38,784,353.00
2)	Civil Work (Non-Schedule Items)	Rs.	5,356,840.00
	Total	Rs.	44,141,193.00
	Add 16% PST	Rs.	7,062,591.00
	Grand Total	Rs.	51,203,784.00

Sub-Engineer

Assistant Engineer

Executive Engineer

Technically Sanctioned for Rs.51,203,784.00

Project Director 25/2/2020

#### The Islamia University of Bahawalpur

eting of Main Approach Road Including Upgrading of Footpath, Lane Mari

1	-	Civil Work (Schedule)  Description	Quantity		
B	Reff	Providing and laying bituminous tack coat, using 10		1	-
8	18/7	abs. of bitumen per 100 Sft (0.49 Kg of bitumen per sq m.)	260000 00	Sft	1
2	18/10	Providing & Laying plant premixed bituminous including compaction and finishing to required grade and density, 4% bitumen 1" thick	12000.00	Sft	4
	18/10	Providing & Laying plant premixed bituminous including compaction and finishing to required grade and density, 4% bitumen 2" thick	260000.00	Sft	1
4		Providing and laying Tuff pavers, having 7000 PSI, crushing strength of approved manufacturer, over 2" to 3" sand cushion i/c grouting with sand in joints i/c finishing to require slope. Complete in all respect. (50% Grey / 50% Coloured) 60mm thick b) 60mm thick	72000.00	Sft	
5	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	1650.00	Cft	2
3	3/5-in + 17A	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:- i/c Carriage upto 1/4 mile			
		iii) 85% maximum modified AASHO dry density.	100000.00	Cft	
7	4-13	Dismantling brick work in lime or cement mortar.	9900.00	Cft	
3	7/5	Pacca brick work in ground floor:- cement, sand mortar:- Ratio 1:3	3000.00	Cft	10.0
9	11/18	Cement pointing struck joints, on walls, upto 20' (6.00 m) hiengt - ratio 1.2	4500.00	Sft	
0	13/40	Painting Traffic Lanes 5" wide (125mm), (1.5 mm thick), with thermoplastic (TP) Paint including Glass Beads, complete in al respect. As per NHA Specification	25000.00		
-		Chall West at a constant			Ī
1	N.S	Civil Work (Non-Schedule) Providing & Fixing Pre-Cast Kerb stone size 12"x14"x6" (300mmx350mmx150mm) and duly embedded on a bed of PCC 1:6:12 (4" thick). PCC 1:2:4 for hanuching, laid with cement sand mortor 1:3, 3/4" thick i/c painting of 3 coats complete in all respects as per design & as approved by the engineer incharge made (Izhar/Banu Mukhtar/ Mukhtar Sons)			
2	NS	Providing and fixing plastic, double side Cat-Eyes (Yellow & White) with epoxy, steel nails etc (3M or equivalent) with layout, cleaning of surface complete in all respects and as per direction of engineer incharge.	15000.00	Rft	
			2000.00	No	1



## The Islamia University of Bahawalpur



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 **MARCH 2020** 



# New Vision Engineering Consultant

Office # B-6, 2<sup>nd</sup> Floor, Masood Arcade, IJP Road, Islamabad.

Tel: (051) 4848374 Fax: (051) 4848375

Email: newvisionec@yahoo.com



AT OI	SION OF VERANDAH'S AND CONSTRUCT LD ENGINEERING BLOCK OF BAGHDAD-U ISLAMIA UNIVERSITY OF BAH	TON OF FACULTY OFFICES JL-JADEED CAMPUS, THE AWALPUR
	BILL OF QUANTITIES	
	SUMMARY OF COST	
sr. No.	DESCRIPTION	AMOUNT
1.	CIVIL WORKS	
2.	PUBLIC HEALTH WORKS	
3.	ELECTRIC WORKS	
	TOTAL	
	GRAND TOTAL	
	Proj.	ect Director lamia University Bahawalpur.

EXTENSION OF VERANDAH'S AND CONSTRUCTION OF FACULTY OFFICES AT BLOCK OF BAGHDAD-UL-JADEED CAMPUS, THE ISLAMIA UNIVERSITY OF BILL OF QUANTITIES  CIVIL WORKS					
_			_		
		Description of Item		-	
Qty	Unit	in foundation of building bridge	nem No.		
18417.4	%0Cft	structures, including diagoening, 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.	(321(0)	No.	
	%Sft	A STATE OF THE PARTY OF THE PAR	C-26/42	2	
2181.5	%Cft	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):Ratio 1:4:8	0.65(0)	100	
6489.5	P.Cft	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. horizental in shuttering) complete in all respects:  Type C (nominal mix 1: 2: 4)	C-6/6 a-ii	1	
******	P.Cft	Reinforced cement concrete in roof slab, beams, columns intels, 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	C-6/6 8-i (3)	5	
11022.	r.cit	to be usef alah hasan sahasa	C-6/6 a-i (2)	6	
669.1	P.Cft	Plinth Level  Reinforced cement concrete in roof slab, beams, columns			
1391.	P.Cft	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	C-6/6 s-i (2)	7	
64496		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)	C-6/9(c)	8	
9423.			C-7/4(i)	9	
6139.	%0Cft	<ol> <li>Filling, watering, ramming earth under floors (with surplus earth foundation).</li> </ol>	-	10	
23329	%oCft	<ul> <li>Filling, watering and ramming earth under floors:-ii) with new earth excavated from outside lead upto one chain (30 m).</li> </ul>			
		Transportation of earth all types when the total distance, this rate will be paid inaddition to the including the lead covered in the item of work, is more than rate of earthwork, without deducting 1000 ft. (300 m) (Lead will be paid as per actual but not more than 1.5km)	C-3/17	12	
23329	%0Cft	upto ¼ mile (400 m).	а	-	
23329	%0Cft	for every 330 ft. (100 m) additional lead or part thereof, beyond ¼ mile (400 m) upto one mile. (1.6 Km.)	C-7/5(	1	
8436	%Cft	Section Content of Con	4	10	
157.	%Cft	Pacca brick work in ground floor cement, sand mortar Ratio 1:4  (b) Cement plaster 1:5 upto 20' (6.00 m) height:- b) ½" (13 mm)	5 C-11/11	1	
16056	Direct	Project The Islamic of Bah			

1	em No.	Description of Item	Unit	Qty
11	em	cament plaster 1:5 upto 20' (6.00 m) height:- c) 1/2" (20		diy
10	11/11(c)	Cement plaster 1:5 upto 20' (6.00 m) height:- c) ¾" (20 mm) thick.	0/00	
3	- aral	Cement plaster 1:4 upto 20' (6.00 m) height:- c) ¾" (20 mm)	%Sft	8043.36
10	-11/9(c)	a fall	%Sft	10717
1	-11/10(b)	and plaster 3/6 thick under some or R.C.C.	70011	13717.9
BC	11/10(0)	upto 20' heigh ratio 1:3.	%Sft	14440.6
-	C-13/31	Preparing surface and painting with emulsion paint: 3 Coats.		14440.0
9 1	(a+b)		%SA	38540.0
1	-13/32A	Providing and applying weather shield paint of approved quality		30340.0
0	a(i+ii)	on external surface of building including preparation of surface.		
	0(,	application of primer complete in all respect: new surface: 2		
		Coats.	%Sft	13717.9
1	C-7/30	Supplying and filling sand under floor; or plugging in wells.	%Cft	4883.68
"_	C-6/2	Dry rammed brick or stone ballast, 11/2" to 2"( 40 mm to 50mm)		4003.00
2	C-012	gauge.	%Cft	4883.68
+	C-6/5(f)	Cement concrete plain including placing, compacting, finishing		
23	3,11,	and curing complete (including screening and washing of stone		
		aggregate): Ratio 1: 2: 4	%Cft	2525.38
24 (	C-10/15(e	Providing and laying topping of cement concrete 1:2:4, including		
24		surface finishing and dividing in panels:- 2" (50 mm) thick.		
	-	Single layer of tiles 9"x4½"x1½" (225x113x40 mm) laid over	%Sft	296.64
25	C-9/5	Single layer of tiles 9 x4/2 x1/2 (223x113x40 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	6.153	
		with 34 lbs. per %Sft. or 1.72 Kg/Sq.m bitumen coating sand		
- 1		blinded.	%Sft	15253.0
_	C-9/45(c	Providing and Laying Insulation material of Extruded		
26	C-9/40(0	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. 2" thick	%Sft	15253.0
07	C 25/53/	b) Providing and fixing all types of glazed aluminum windows of		10200.0
27	C-23/33(	anodized champagne color partly fixed and party sliding using		10.00
		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		
	15.5	standard latches, wheel, stopper, brush channel angle joint and		
	The same	hardware etc.in all respect .b)2 mm thick	P.Sft	552.60
28	C-12/5	January March 112 (1011111 11 chilling) gran		
	1	including 3/4" x 1/8" (20 mmx3 mm) M.S. flat frame, in windows of approved design, including politics three coats, complete in		
		of approved design, including painting three coats, complete in all respects.	P.Sft	552.60
29	C-25/5			
	1	glazed anodised bronze colour aluminium doors, using delux		
	1500	section of M/s Al-Cop or Pakistan Cables, having chowka		
	1	frame of size 40 x 100 mm (1½" x 4") and leaf frame of		
	1	60x40mm (2½"x1½") wide sections including the cost of ½" (5 mm) thick imported tinted glass with aluminium triangular gold		
		and rubber gasket to support the glass and leaf edging, using		15
		approved standard fittings, locks, 3" (75 mm) wide long handles		
	1	etc., and hardware any required as approved by the engineer in-		72.10
30	C-12/1	charge.	P.Sft	72.10
	0-12/1	5 a Providing and fixing M.S. sheet hollow pressed frame of doors		
1	3	windows, C. windows, etc. (chowkat only) of 20 SWG welded with M.S. flat 6"x 11/4" x 1/8" (150mmx30mmx3mm) M.S		
1		holdfast 9"x1"x1/8" (225mmx25mmx3mm) welded/screwed 4"	1 100	
		(100 mm) long iron hinges, including filling chowkat with cemen		
		(100 mm) long iron hinges, including filling chowkat with cemen sand mortar 1:8 and embedding holdfast in cement concrete 1:2:4, complete in all respects: single rebate		472.20

-	-		Unit	Qty	R
1	Color	painting new surface: c) Preparing surface and painting of goors and windows any type (including edges): 3 coats	94BR	30.06	
	13/70	prench polishing complete - on new work.	%SR	944.51	
910	-	on roof 2'x2'x6" (600 x 600 x 150 mm)	Each	14.00	
	6/33(0-1)	Providing and laying damp proof course of cement concrete 1.2.  4(using cement, sand and shingle), including bitumen coating studies and one coat polythene sheet  (a) with one coat bitumen and one coat polythene sheet  500gauge ii) 2" thick (50 mm)	%SR	106.02	
8	6/32 a	providing and fixing thereinopole (clusters) 11/4" (40 mm) thick	P.SR	224.03	
36	6/25 a	Providing and lixing the providing and invertigation on horizontal and vertical expansion joints in aluminium strip on horizontal and vertical expansion joints in aluminium strip on horizontal and vertical expansion joints in aluminium strip on horizontal and vertical expansion joints in aluminium strip on horizontal and vertical expansion joints in aluminium strip on horizontal and vertical expansion joints in aluminium strip on horizontal and vertical expansion joints in aluminium strip on horizontal and vertical expansion joints in aluminium strip on horizontal and vertical expansion joints in aluminium strip on horizontal and vertical expansion joints in aluminium strip on horizontal and vertical expansion joints in aluminium strip on horizontal and vertical expansion joints in aluminium strip on horizontal and vertical expansion joints in aluminium strip on horizontal and vertical expansion joints in aluminium strip on horizontal and vertical expansion joints in aluminium strip on horizontal and vertical expansion joints in aluminium strip on horizontal and floors etc., including cost of columns, ceilings and floors etc., complete in all respects:- On interior surface	P.Rft	227.89	
37	6/25 b	Providing and fixing 176 (S fitting that all an all an all an all an all an all and vertical expansion joints in all all all and vertical expansion joints in all all all all all all all all all al	P.Rft	188.23	
38	C-13/9(i)	(with mastic strip)  Bitumen coating to plastered or cement concrete surface:-i) 20	%Sft	1305.43	
39	C-26/37(i	the sandthane sheet over D.P.C. under floors	P.Sft	16558.52	
_		Total of MRS ITEMS			L
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 skarting 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 cequivalent)	g	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 mortal (1.2) i/c filling joints in white cement and matching pigment is	/c	263.62	-
5	NS	Providing and laying glazed Ceramic tiles texture light color of skirting / dado size 9"x26"x3/8" laid over 3/4" thick cement san mortar (1:2) i/c filling joints in white cement and matching grament i/c cutting charges complete in all respect as approved.	ng	263.62	
-		& directed by the engineer in charge. (Master of Equivalent)	P.Sft	972.84	
	6 NS	white cement & matching pigment i/c making gola on expose edges complete in all respect as approved by the engineer	in ed	1780.65	3
	6 NS	pigment 3/4" thick cement sand mortar (1:2) i/c litting joined white cement 8 matching gigment i/c making gold on expos	ed in	1	1780.65

No.				
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 @ 51/2" c/c fixed in steps of stair, complete in all respect as per Engineer/ Incharge.	P.Rft	51.50
13	NSI	Providing and fixing of False ceiling consisting of lamenated 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 longituidInally and transversally & alminium angle of size 1" x 1" at corners/ ends, including all accessries such as steel hanging wire, hooks, screws, nails, rowel plugs, Cross Joints etc. complete in all respect, and as approved by the Engineer Incharge.	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 (superplastisizer) for concrete as per approved mix design and approval of Engineer Incharge (Sika or equivalent)	P.kg	2635.00
		Total of Non MRS ITEMS		

#### **GRAND TOTAL OF CIVIL WORKS**



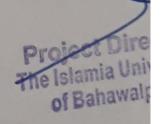
EERING BLOCK OF BAGHDAD-UL-JA UNIVERSITY OF BAHAWA	DEED CAMPUS, THE ISLAMIA
SUMMARY OF COST	Г
Description	Cost of Section (Rs)
Distribution Boards	
Light Fixtures	
Miscellaneous Fittings	
Wiring in Concealed Conduits	
LT Cables	
Wiring Accessories	
Grounding System	
Conduits & Pipes	
Civil Works	
	BILL OF QUANTITIES SUMMARY OF COST ELECTRICAL WORK  Description  Distribution Boards  Light Fixtures  Miscellaneous Fittings  Wiring in Concealed Conduits  LT Cables  Wiring Accessories  Grounding System  Conduits & Pipes

**Total Cost of Electrical Works** 

Project Director
The Islamia University
of Bahawalpur.

Item	Description	Unit	Otto
-	SECTION - A	OTHE	Qty
_	DISTRIBUTION BOARDS		
_			-
	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	DISTRIBUTION BOARD DB-faculty Office BWP		
	INCOMING	-	
	01-300 Amps TP MCCB RC=36KA		
	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 300 Ampere,three phase,Earth and Netural		
	for distrubitions.		
	OUTGOING		
-	27-10 Amps SP MCB RC=6 KA	-	
	27-16 Amps SP MCB RC=6 KA	Job	1
- Line	27-20 Amps SP MCB RC=6 KA		tal Part

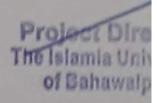
Item No.	Description		01	
	SECTION - B	Unit	Qty	
	LIGHT FIXTURES			
	Supply, installation, testing and commissioning of following light fittings, ceiling, recessed, wall mounted as per specified fixture. Complete with internal wiring, Grounding terminal, driver complete in all respects. Lights should be of Phillips			
C-B-01	40 Watt (min) 2'x2' LED/SMD False ceiling Light or equivalent. IP 20 rated	No.	123	
C-B-02	17 Watt LED/SMD Light Fixture, IP-44 rated	No.	90	
C-B-03	9 Watt LED luxline Light Fixture surface/recessed mounted, IP-44 rated	No.	5	
C-B-04	Exit light, dual sided exit sign should have battery bank			
100	with at least 3-hr backup time. Surface & semi flush mount			
196	type. Non-maintained min 6 Watt LED light, CE certified,		1-1	
	UL listed as per approval of the Engineer in Charge.	No.	5	
		Sub	Total Part	



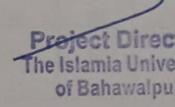
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Item No.	Description	Unit	Qty
	SECTION - C		
	MISCELLANEOUS FITTINGS		
	Supply, installation, testing & commissioning of Ceiling/ Exhaust fan. The ceiling/exhaust fan shall comprise circular fan metallic/ plastic body, metallic fan blades, down rod (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	" I for the Matellia hady for bladge	No.	8
	24" outer dia Wall Bracket fan,1450Rpm, Max 50db sound level Fan shall be made with 99% purity Copper windings	No.	22
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
		Sub T	otal Part -

-		Description	Unit	Qty
m No.		SECTION - D		
		WIRING IN CONCEALED CONDUITS		
- 01		Statebutton board to Switch		
0.01		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		
1	ch/24/10 (a(iii))	conductor cables in presaid PVC piperint.3 conduct 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	RMtr	1764
_	ch/24/3	(7/0.029") Supply and erection of PVC pipe for wiring recessed in wall including inspection boxes pull boxes, hooks, cutting jharries, including inspection boxes pull boxes, with all specials in Cost of		
11	(iii)	and repairing surface, etc, complete with all specials ii) Cost of 25mm	73710	308
C-D-02		Switch to light point & point to point wiring Wiring from switch to light or fan point with 3 nos. single core		
C-D-02		1.5 Sqmm PVC insulated 450/750 Volts grade stranded copper		
	100	1.5 Sqmm PVC insulated 450755 Votes granduit including PVC		
		conductor cables in concealed PVC conduit including PVC		
		conduit, Conduit accessories, etc. (conduit partly shared).		
-		Supply and erection of single core process conduit G.		
	ch/24/10	conductor cables in prelate PVP ppermanent of the prelate PVP pipelwooden strip pipelwooden strip batten/wooden casing and capping/G.I. pipelwooden strip prelate PVP ppermanent prelat		
- 1	(a(i))	pipe\wooden strip batter/wooden casing the separation batter/woode	CM	007
	(4(7)	(3/0.029") CDVC pipe for wiring recessed in wal	RMtr	9075
_	-		1 - 7 - 3	
	ch/24/3	I I land langetion hoxes bull boxes, floores	F	
ii	(ii)	and repairing surface, etc, complete with all spesses of	Rmtr	192
		20mm		
C-D-03		Wiring from switch to switch with 3 nos. single core 2.5 Sqmm		
		PVC insulated 450/750 Volts grade standard complete in concealed PVC conduit including PVC conduit cables in concealed PVC conduit natily shared).		
		Supply and erection of single core PVC insulated coppe conductor cables in prelaid PVC pipe/M.S conduit G.		
-1	ch/24/1 (a(iii))	pipe/wooden strip batten/wooden casing and cappings. wire/trenches (rate for cables only) i) Cost of 1x 2.5 mm	M. Committee	44
ii	ch/24/	(7/0.029")  Supply and erection of PVC pipe for wiring recessed in was including inspection boxes pull boxes, hooks, cutting jharries including inspection boxes pull boxes, hooks, cutting jharries including inspection boxes pull boxes, hooks, cutting jharries including inspection boxes.	'I Rmtr	
	(iii)	and repairing surface, etc, complete with all specials ii) Cost of 25mm  Distribution board to General Purpose ( 5A/13A) socket		10
C-D-0	4	Wiring of circuit from Distribution Board to 5A/13A,230000 with 3 nos. single core 2.5 Sqmm PVC insulated 450/750 Volt graded, 2&3 pin switched socket, stranded copper conductor cables in concealed PVC conduit, including conduit accessories etc(conduit partly shared).	or s.	
1	ch/24/ (a(iii)	Supply and erection of single core PVC insulated copper conductor cables in prelaid PVC pipe/M.S conduit G	RMtr	283
0	ch/24	(7/0.029*)  Supply and erection of PVC pipe for wiring recessed in was including inspection boxes pull boxes, hooks, cutting jharness.	III S. Rmtr	200
	(iii)	25mm	-	49
C-D-	05	Socket to Socket	0	-
		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 of stanerd copper conductor cables in concealed PVC conduincluding PVC conduit, Conduit accessories, etc. complete	it	
-	ch/24 (a(ii	(conduit partly shared)  Supply and erection of single core PVC insulated copped conductor cables in prelaid PVC pipe/M.S conduit of pipe/wooden strip batten/wooden casing and capping/G wire/trenches (rate for cables only) i) Cost of 1x 2.5 mr	.I RMtr	99
	ch/2	and repairing surface, etc, complete with all specials ii) Cost of	Rmtr	33
C-D	-06	25mm Distribution board to 15Amps socket		1
			-/	1
		Project Di	1	-
		Project Di	rector	
		Tolomia II	niversity	1
		of Bahaw	alour.	
		of Banaw	and the same	
-				

em No.		Dasertption	Unit	Giy
		Wiring of circuit from distribution board to 15A, 230Volta, DF switch with 3 nos. single core 45qmm PVC trautated 450/750 Volts grade stranded copper conductor cables in corecaled PVC conduit including PVC conduit, Conduit accessories, etc. (conduit partly shared for A/Cs).		
-	clv24/10 (a(N))	Supply and erection of single core PVC insulated copper conductor cables in prelakt PVC pips/M.S conduit 0.1 pips/wooden strip batter/wooden casing and capping/0.1 wire/trenches (rate for cables only) I) Cost of 1x 4 mm (7/0.036*)	RMV	255
•	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	Rente	69
C-D-07		Distribution board to 20Amps socket  Wiring of circuit from distribution board to 20A, 230Volts, DP switch with 3 nes. single core 6 Sqmm PVC insulated 450/750 Volts grade stranded copper conductor cables in concessed PVC conduit including PVC conduit, Conduit accessories, ste (conduit partly shared for A/Cs)		
1	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 batter/wooden casing and capping/G.I wire/trenches (rate for cables only) I) Cost of 1x 4 mm (7/0.044")	RMW	1512
	ch/24/3 (III)	Supply and erection of PVC pipe for wiring recessed in wall including inspection boxes pull boxes, hooks, cutting jharnes, and repairing surface, etc, complete with all specials ii) Cost of 25mm	ftmtr	288



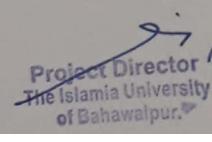
Item No.		Description	Unit	Qty
		SECTION-E		
		T CABLES		
		Supply at site, installation, testing and commissioning of PVC insulated non armoured copper conductor cable 600 / 1000 Volt grade (or otherwise mentioned in cable description in prelaid conduits / trenches to be installed as per routes shown 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		
C-E-01	ch/24/1 3/(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
	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
	3-3-3		Cub.	Total Part



Item No.	- 113	Description	Unit	Qty
		SECTION - F		
		WIRING ACCESSORIES		
_				
		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
C-F-02		10 Amps, 250Volts one way, Two gang light control switches including appropriate size concealed Plastic back box.	No.	18
C-F-03		10 Amps, 250Volts one way. Three gang light control switches including appropriate size concealed Plastic back box.	No.	4
C-F-04	3	10 Amps, 250Volts one way, Four gang light control switches including appropriate size	No.	1
C-F-05		concealed Plastic back box.  10 Amps, 250Volts one way, Five gang light control switches including appropriate size	No.	5
C-F-06		concealed Plastic back box.  10 Amps, 250Volts one way, Six gang light control switches including appropriate size concealed	No.	28
C-F-08		Plastic back box.  5 Amps, 250Volts, 2 & 3 pin switched socket unit round pin including appropriate size Plastic back	No.	84
C-F-09		box.  13 Amps, 250Volts, Mutli pin duplex switched socket unit including appropriate size Plastic	No.	27
C-F-09		back box.  15 Amps, 250Volts, 3 pin duplex switched socket	No.	5
C-F-11		unit including appropriate size Plastic back box.  20 Amps Double Pole(DP) switch with neon indication lamp complete with Plastic back box.		24
C-F-12	1000	Fan Dimmer 300 watt with plastic body basis and		22
C-F-13		Appropriate size of plastic body fair box and seminary fan rod 24" in length		22
C-F-14	Ch/24/4	Supply and erection of 3/8" (10 mm) dia M.S. bar fan hook, placed at the time of casting of slab.	140,	22
174.1	9	Tari Hook, placed et all	Sut	Total Pa



Item No.	Description		Qty	Uni
	SECTION - G			
-	- POLINI)ING STOTE			
-01	Grounding Cables  Grounding Cables  Grounding Cables  Grounding Cables			
C-0-0	Supply at site, installation, non armoured copper conductor cable 450/ 750 Volt grade (or otherwise mentioned in cable description) in prelaid conduits / trenches to be installed as per routes shown on drawings including cost of all necessary materials, connections, identification tags, cables lugs properly crimped at both ends for the following sizes complete in all respects. Actual length of cables to be installed shall be practically measured at site by the Contractor, duly authenticated by the Engineer before placing the order with the manufacturer, however, approximate length of cables are shown becausith. 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 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 35 mm (19/0.064")	R.Mtr	60	
C-G-02	Oding Plate			
	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.	,	
C-G-I	03 Grounding Connection Point			
	Supply of Grounding connecting points consisting of coppliance of the second state of	Nos.	1	
	facilitate connections of Incoming copper strips / copper conductors.	Sub	Total Part	-GR



Item No.		Description	Unit	Qty
		SECTION - H		
C-H-01		CONDUITS, PIPES, DUCT, CABLE TRAYS, FIXING CLAMPS AND FIXING ARRANGEMENTS		
		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	100
ii	ch/24/6 (ii)	80mm dia PVC conduits ( Class D)	R.Mtr	50
C-H-02		Flexible Pipe		
		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
				Total Part -H

Item No.	Description	Unit	Qty
	SECTION -I		
	CIVIL WORKS		
C-I-01	Trench (for LT Cable)		
	Labour for excavation and refilling of trench 24" wide, 24" deep 4"	THE PARTY OF	
	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		
			20
C1.02	paid accordingly however approximate length of trench is given.  Manhole For LT Cable Pulling (If Required)	R.Mtr	20
C-1-02	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.	
		Sub 1	Total

# EXTENSION OF VERANDAH'S AND CONSTRUCTION OF FACULTY OFFICES BLOCK OF BAGHDAD-UL-JADEED CAMPUS, THE ISLAMIA UNIVERSITY

#### BILL OF QUANITITIES

PUBLIC	HEAL	TH WORKS	
. OPFIC	TEAL	. IH WORK	3

SR. NO.	ITEM NO.	DESCRIPTION	UNIT	QTY
-		SANITARY FIXTURES AND FITTINGS		
1	19/19	Providing and fixing looking glass 55x40 cm (22"x16") size,and 5 mm thick, first quality.	East	
2	19/15	Providing and fixing, chromium plated soap dish.	Each	4
3	19/17	Providing and fixing, chromium plated toilet paper holder.	Each	4
4	19/18 i	Providing and fixing, chromium plated towel rail:- i) 60 cm (24") long, and 2 cm (¾") dia.	Each	6
5	19/26 ii	Providing and fixing chromium plated bib cock:- ii) 1.5 cm (½")	Each	5
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
7	19/34 ii	Providing and fitting "P" trap:- ii)10 cm (4") glazed.	Each	11
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
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
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.		
		223 11111 (3.) #d.	P.Rft	736
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)	1000.00	660
12	3/24 (c)	0 ft. to 7.0 ft. (0 to 2.10 m) depth  Compaction of earthwork (soft, ordinary or hard soil) :- c)	1000 Cft	6624
13	3/13 (a)	Ramming earthwork (all types of soil).	1000 Cft	6624
13	3/13 (a)	Rehandling of earthwork: a) Lead upto a single throw of Kassi, phaorah or shovel	1000 Cft	6624
		TOTAL OF MRS ITEMS		
1	NSI	Providing and fitting glazed earthen ware water closet		

1	NSI	Providing and fitting glazed earthen ware water closet European type(HD-201), including seat and cover:- i) white	Each	1
2	NSI	Providing and fitting glazed earthen ware water closet, squatter type (Orisa pattern) (HDD-9 Porta), combined with foot rest	Each	5
3	NSI	Providing and fitting flushing hung type cistern (HD-3) 13.63 litre (3 gallons) capacity, including bracket set, copper connection, etc. complete.	Fach I	5
4	NSI	(½").	Fach	16
5	NSI	Providing and fixing Muslim shower double bib cock 90 angle Sonex.or equialent complete in all respects as approved by the engineer incharge		1

Project Director
The Islamia University

IR.	ITEM NO.	DESCRIPTION	UNIT	QTY
6	NSI	Providing and flixing Basin BOWL White Porta (HD-16) or equivalent complete in all respects as approved by the Engineer incharge.	Each	4
7	NSI	Providing and fixing Basin, side pillar cock mixing valve master ,sonex or equivalent complete with all respects as apprroved by the engineer incharge ;-white	Each	5
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
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
10		WATER SUPPLY PIPES AND FITTINGS  P/F Polypropylene Randam 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.		
	1	2" (50 mm) dia.	Rft	60
	II	1" (25 mm) dia.	Rft	180
	III	1 1/4" (40 mm) Dia	Rft	60
	iv	3/4" (20 mm) dia.  SOIL, WASTE, VENTILATING PIPES & FITTINGS  SOIL, WASTE, VENTILATING PIPES & FITTINGS	Rft	120
11		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
		ii 80 mm (3") dia.	Rft	140
		iii 50 mm (2") dia.	Rft	740
	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
1	13	NSI Making of manhole size 3'x2-1/2'x3' brick work, plaster complete as requirment including RCC manhole cover 22" dla with Tee shape C.I frame complete in all respect as per engineer Incharge	Job	5.00
		TOTAL OF NSI ITEMS		
14		GRAND TOTAL OF PUBLIC HEALTH WOR	RKS	

Project Director
The Islamia University
of Bahawaipur.

## The Islamia University of Bahawalpur

# Renovation & Addition/Alteration of Arabic & Islamiat Department in Faculty of Islamic Learning at Baghdad-ul-Jadeed Campus

#### Estimate Based on MRS, Jan to Jun, 2020

#### ABSTRACT OF COST

A)	Schedule Work		
1	Civil Work	De	0.000.000
2	Electric Work	Rs.	2,080,836.00
	Trouble troin	Rs.	2,225,380.00
	Total	Rs.	4,306,216.00
B)	Non-Schedule Work		
1	Civil Work	The second second	
2	Electric Work	Rs.	23,430,998.00
3		Rs.	10,101,090.00
,	Plumbing Work	Rs.	812,799.00
	Total	Rs.	34,344,887.00
	Total A+B	Po	20.054.402.00
	Add 16% Punjab Sales Tax	Rs.	38,651,103.00
	Table 1 and	Rs.	6,184,176.00
	Grand Total	Rs.	44835279.00

Sub-Engineer

Assistant Engineer

Executive Engineer 4 2010

Technically Sanctioned for Rs.44,835,279.00

Project Director

# The Islamia University of Bahawalpu adition/Alteration of Arabic & Islamiat Department in Facu Baghdad-ul-Jadeed Campus

	160	Description	Quantity	
	#49-b	Scraping - Ordinary distemper, oil bound distemper, or paint		
A		of wall.	18062.5	Sf
2	11/36	Petty repair to small room	15.00	No
3	11/37	Petty repair to verandah room	25.00	No
4	4/32-i	Removing door with chowkat.	60.00	No
5	4/32-8	Removing windows and sky lights with chowkat.	125.00	No
6	4/50	Dismantling glazed or encaustic tiles, etc.	1800.00	Sft
7	4/48	Removing cement or lime plaster.	2750.00	Sfi
8	13/31 a+b	Preparing surface and painting with emulsion paint:-old surface 2 coats	43993.75	Sfi
9	13/4-c ì+ii	Painting doors and windows, any type: old suface 2 coats	500.00	Sfi
10	13/4 d i+ii	Painting guard bars, gates of iron bars, gratings,railing (including standards, braces etc.) and similar open work:- old surface 2 coats	2000.00	-
11	13/4 e i+ii	Painting fillets, framings, skirtings, pipes, gutters and similar linear work not exceeding 6" in girth:- old surface 2 coats	2000.00	Sf
12	13/32 A-b	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: old surface:	1875.00	Lf
13	7/5	Pacca brick work in ground floor:- Cement, sand mortar:-	20000.00	Sf
		ii) Ratio 1:3	87.50	Cf
14	11/8-b	Cement plaster 1:3 upto 20' (6.00 m) height:- 1/2" (13 mm) thick	150.00	Cf
15	12/45	Glazing with panes (24 oz. to 26 oz.), using putty and deodar	1375.00	Sf
16	10/25	Laying floor of approved coloured glazed tiles ¼ "(6 mm) thick, laid in white cement and pigment on a bed of ¾" (20 mm) thick cement mortar 1:2.	75.00	Sf
17	10/38	Coloured glazed tile dado ¼" (6mm) thick in pigment over 1:2 cement, sand mortar 3/4"(20mm) thick, including finishing.	100.00	St
18	6/6	(a) (i) Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members cast in situ or precast laid in position, or prestressed members mix 1: 2: 4)	300.00	Sf
19	6/9-b	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars) deformed bars 60-Grade	200.00	Cf
		Dars 60-Grade	900.00	K

		Description	Quantity	
		rete plain including placing, compacting,		
		and curing complete (including screening		
		washing of stone aggregate). Ratio 1.2.4	3000.00	Cft
	1		-	-
	frame	Civil Work (Non-Schedule)		-
	N.5	Providing and laying Floor Tile 24"x24" Granite Effect (GEM) Dark Polished SB including 05% Wastage laid in cement with pigment on a bed of 3/4" thick cement sand mortar 1:2, complete in all respects as approved by Engineering incharge	17000.00	Sft
2	N.S	Providing and laying Tile Dado 9"x26" Size (51SF MPD538 & 757 Multi 9x26 Master and 24SF MPD748 Multi 9x26 Master) including 05% Wastage laid in cement with pigment on a bed of 3/4" thick cement sand mortar 1:2, complete in all respects as approved by Engineering incharge	4625.00	Sft
3	N.S	Providing and laying Granite Marble Slab (SADU Grey) including 05% Wastage laid in cement with pigment on a bed of 3/4" thick cement sand mortar 1:2 including grinding & chemical polishing complete in all respects as approved by Engineering incharge	400.00	Sft
4	N.S	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 adjointing 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"	1990.00	Sft
5	N.S	Providing and fixing wooden door shutter soild (Red Oak-859 imported) 40mm thick including tower bolt and all hardware fitting best quality complete in all respect as approved by Engineer Incharge.	1720.00	64
		and the state of t	1720.00	Sft
6	N.S	Providing and fixing Door Closer (Royalwand 604 Coffee) including all hardware fitting best quality complete in all respect as approved by Engineer Incharge.	40.00	No
7	N.S	Providing and fixing Door Lock (RW-46 MSN Royalwand) including all hardware fitting best quality complete in all respect as approved by Engineer Incharge.		
		Engineer incharge.	40.00	No
8	N.S	Polishing of doors with best quality Mat polish complete in all		
		respect as approved by Engineer Incharge.	3440.00	Sft
9	N.S	Providing and fixing Roller Blinds fixing in position as per approved design and sample complete in all respect as approved by the engineer incharge.	375.00	Sft
10	N.S	Providing and fixing all types of Double glazed aluminium windows of anodized bronze colour partly fixed and partly sliding using deluxe section of M/s AL-Cop or 101mm x 41mmx 2mm using frame (70501) at bottom, (70502) at top and side Pakistan cables/Al- Cop having frame of size 31mmx60mmx2mm (70506) at top & bottom and size 35mm x60mmx2mm (70505) at center and size 35mm x 60mm x2mm (70503) at sides, Jali leaf frame 70509 size 45mm x 14mm x1.6mm i/c fine quality aluminum jali, fixing		

		Description	Quantity	,
		5mm thick brown tinted tempered +		
		Totals with rubber and hat mind thick clear tempered		
	1	glass with rubber gas ket using approved standard	13.75	
		latches, wheel, stopper, brush chennel angle joint and	1200	
		hardware etc.complete in all respect as approved by	3025.00	
	100	the engineer incharge.		
1	1 NS	M C Steel Grill for unndered secretary		
2	11.0	M.S Steel Grill for windows comprising of 1/2"x1/2" square bar with 1.25"x1.25"x1/8" MS angle iron for		
		frame including painting 3 coats complete in all		
		reachest as above on the description all		
	1	respect as shown on the drawings, specification and/ or as directed by the Engineer incharge		
		or as directed by the Engineer incharge	2000.00	
13	NS	Providing and fixing 3/4" thick Leminated Board shutter for		
	100	laboratory cabinet with 3/4" x 3/4" deodar wood beading		
		including tower bolts on top & bottom lock 808, hinges,		
		polishing complete in all respects as approved by the	300.00	
		Engineer Incharge.		
13	N.S	Providing & Fixing false ceiling of Gypsuim 9mm thick		
		including all accessories, network & hardware etc complete		
		in all respects as per approved design and sample and as		
		directed by the engineer incharge.	17500.00	
		Floridad Work		
4	24/10a-i	Electrical Work Supply and erection of single core PVC insulated copper		
1	24/108-1	conductor cables, in prelaid PVC pipe/M.S. conduit/G.I		
		pipe/wooden strip batten/wooden casing an capping/G.I.		
		wire/trenches (rate for cables only).250/440 volts, PVC		
	1 1000	insulated:		
í		3/0.74 mm (3/0.029")	900.00	
ii		7/0.74 mm (7/0.029")	2000.00	
iii		7/0.91 mm (7/0.036")	2500.00	
V		7/1.12 mm (7/0.044")	2100.00	
٧		7/1.63 mm (7/0.064")	800.00	
_	2412	Supply and erection of PVC pipe for wiring recessed in walls,		
2	24/3	including inspection boxes, pull boxes, hooks, cutting		
		jharries, and repairing surface, etc., complete with all specials		
			1000.00	
		i) 3/4" i/d (20 mm) ii) 1" i/d (25 mm)	500.00	
		11) 1 1/4 (25 11111)	500.00	
3	24/4	Supply and erection of PVC pipe for wiring on surface		
		including clamps inspection boxes, pull boxes, bends,		
	1-1-1	tees, repairing surface, etc., complete with all specials:-		
	1 2	i) 3/4" i/d (20 mm)	350.00	
		ii) 2" i/d 50 mm i/d	750.00	
	-			
1	24/6	Supply and erection PVC pipe for recessed wiring		
8		(main and sub-main) purpose, including bends,	350.00	
ı		specials, etc. in floor, wall or trenches:- 80 mm i/d	330.00	
ı	24/7	Supply and erection of PVC pipe for surface wiring (main and		
1	2-111	sub-main) including clamps, inspection boxes, pull boxes		
ı		bends etc., complete with all specials:- 80 mm i/d	550.00	
ı		bends etc., complete with all specials.		
	24/13-d	Supply and erection of copper conductor cables for service		
1	viii +	connection, in prelaid pipe/G.I. wire/trenches, etc. (rate for		
1	24/13-c vii	cable only):- PVC insulated, PVC sheathed 4-core 660/1100		
1		volt grade cable, armoured with G.I. wire 16 SWG.		
1		37/2.62 mm (37/0.103")	300.00	
ı		PVC insulated, PVC sheathed 4 core, 660/1100 volt non		
		armoured cable:-19/1.32 mm (19/0.052")	1250.00	

		Description (Non-Schedule)	Quantity	
-		mstallation of LED 2'x 2' Ceilling Panel Light 40W		
		Equivalent)	1000.00	No
2	N.S	Supply & installation of LED Ceiling Light 17W (6" recessed, 220V~) I/c cutting holes to install in false (any type) I/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips Meson or Equivalent)	25.00	No
3	N.S	Supply & installation of LED 17W Down Light (6" Surface Mounted, 220V~) i/c any accessories required at site.  Complete in all respect as directed and approved by the Engineer Incharge (Philips Meson or Equivalent)	75.00	No
4	N.S	Supply & installation of Wall Mounted LED Batten Light 20W (220V~, 6500K) i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips Slimline or Equivalent)	55.00	No
5	N.S	Supply & installation of Wall Bracket Fan 18" (99.99% Copper) i/c any accessories (i.e. mounting screws & etc) as required at site. Complete in all respect as directed and approved by the Engineer Incharge (Younis, Tamoor, Pakfan or Equivalent)	8.00	No
6	N.S	Supply & installation of Metal Body Wall Bracket Fan 24" (99.99% Copper) i/c any accessories (i.e. widing of mounting holes and 4.00nos of rawl bolts ¼" etc) as required at site. Complete in all respect as directed and approved by the Engineer Incharge	10.00	No
7	N.S	Supply & installation of Ceiling Fan 56" (99.99% Copper) i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Younis-Deluxe, Tamoor-Deluxe, Pakfan-Deluxe or Equivalent	15.00	No
8	N.S	Supply & installation of Metal body Exhaust fan 20" (99.99% Copper) with metal mounting frame i/c any accessories (i.e. screw. Rawl plug/rawl bolt etc.) as required at site. Complete in all respect as directed and approved by the Engineer Incharge (Tamoor, Indus, Pakfan or Equivalent)	18.00	No
9	N.S	Supply & installation of PVC Exhaust fan 12" (99.99% Copper) i/c any accessories (i.e. screw. Rawl plug or steel nail, etc.) as required at site. Complete in all respect as directed and approved by the Engineer Incharge (GFC, Indus, Pakfan or Equivalent)	8.00	No
10	N.S	Supply & installation of Universal 3-Pole Socket with 13A Switch with plastic back box 3"x 3" i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips ECO Series Q2 or Equivalent)	175.00	No
11	N.S	Supply & installation of a Power plug 15A with plastic back box 3"x 3" i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips ECO Series Q2 or Equivalent)	100.00	No

		alion of a Fan Dirnner 300W with plastic	Quantity	
		Ve any accessories required at site.		
		Engineer Incharge (Philips ECO Series approved by the		
	1	Engineer Incharge (Philips ECO Series Q2 or Equivalent)	150.00	No
113	NS	Current & learning		
100	14.0			
	1			
		Complete in all respect as directed and approved by the		
100		Engineer Incharge (Philips ECO Series Q2 or Equivalent)		
	100		25.00	No
14	N.S	Supply & installation of a Double Single Pole Switch Plate		
		Production box 3 x 3 I/C any access		
		The complete in all respect as directed and		
		Engineer Incharge (Philips ECO Series Q2 or Equivalent)		
		Series Q2 or Equivalent)	50.00	N
15	N.S	Supply & installation of a Four Stanta But		2.80
		Supply & installation of a Four Single Pole Switch Plate with		
		plastic back box 3"x 3" i/c any accessories required at site.		
		Complete in all respect as directed and approved by		
		Engineer Incharge (Philips ECO Series Q2 or Equivalent)	70.00	
16	NC		70.00	N
10	N.S	Supply & installation of a Six Single Pole Switch Plate with		
		plastic back box 3 x b" I/C any accessories required		
		Complete III all respect as directed and approved by		
		Engineer Incharge. (Philips ECO Series Q2 or Equivalent)		
			160.00	N
17	N.S	Supply & installation of a Fight Single Date		,,,
		Supply & installation of a Eight Single Pole Switch Plate with		
		I and accordance		
		The state of the s		
		Engineer Incharge. (Philips ECO Series Q2 or Equivalent)	100.00	
18	N.S		180.00	N
		Supply & installation of a Four Single Pole Switch & Two  2-Pin Socket Plate with place in the state of the s		
		ECO Series Q2 or Equivalent (Philips	100.00	N
19	N.S			
	14.5	Supply & installation of PVC cable to the		
		Supply & installation of PVC cable trunk (Duct) 16x25mm i/c any accessories (i.e. screw. Rawl plug or steel nail, etc.) as		
		required at site Complete: Plug of Steel nail, etc.) as		
31		required at site. Complete in all respect as directed and approved by the Engineer Incharge (Chi. 8)		
		approved by the Engineer Incharge (GM, Popular or		
-			1100.00	R
20	N.S	Supply & install at		
		Supply & installation of PVC cable trunk (Duct) 40x40mm		
		i/c any accessories (i.e. screw. Rawl plug or steel nail, etc.)		
		as required at site Committee plug or steel nail etc.)		
		as required at site. Complete in all respect as directed and		
		approved by the Engineer Incharge (GM, Popular or	600	
21	No		600.00	R
	N.S	Supply, installation, connection & commissioning of distribution Sheet 18 SMC		
1		boards, (DRs), Connection & commissioning of the		
1		boards, (DBs), Open type Wall mounted design, made of M.S.  Approved point (Page 1988)		
1				
1 1 1				
1				
1		TO SUID IT ON AA.		
1				
1	1 3	(6KA) 24.00 Nos, LED phase light volt meter type (RYB), Earth/neutral bar, Nut/bolts, Screws/rout.		
15		Earth/neutral bar and any accessories (RYB),		
		Earth/neutral bar and any accessories (i.e. connections & etc.) required at site. Complete is as approved by the		
		as appro-		
		as approved by the engineer inch.		
		connections & etc.) required at site. Complete in all respects  Hitachi, Schneider Electric Le		
		as approved by the engineer incharge. (for MCCB & MCBs  Hitachi, Schneider Electric, Legrand or equivalent).		

		Description	Constitu	
		Bying earthing for Electric Machines Va house	Quantity	Rat
		ature level (up to 60' below ground level) 4" i/d atuding copper strip 14" x 2" x 1/4" (350 x 50 x 6 mm)		
	-	connecting with 1 Nos.bare copper wire of No.8 SWG to be		
-		run in PVC pipe 20mm i/d, 11/4" i/d GI pipe 5' long, GI tee &		
		plug for watering also includs common salt, Lime (slaked)		
100		& charcoal around copper strip I/c connecting with Electric		
		machine. Complete in all respects as approved and as	4.00	No 126
		directed by the engineer incharge.		
23	N.S	Supply and installation of 120mm², Aluminum Alloy Parallel		
		Groove Clamp complete with nut/bolts i/c any accessories	4.00	
		required at site. Complete in all respect as directed and approved by the Engineer Incharge.	4.00	No S
	N.S	Providing & laying of PVC/PVC 2-Core flexible 23/0.0076"		
24	N.5	l anductor cable i/c any accessories required at site.		
		Complete in all respect as directed and approved by the		
		Engineer Incharge (KM, Eagle or Equivalent)	45.00	M
		Providing & laying of PVC/PVC 3-Core flexible 40/0.0076"		
25	N.S	the early 1/c any accessories regained		
		Complete in all respect as directed and approved by the		
		Engineer Incharge (KM, Eagle or Equivalent)	55.00	M
26	N.S	Providing & laying of PVC/PVC 3-Core flexible 70/0.0076"  Providing & laying of PVC/PVC 3-Core flexible 70/0.0076"		
20				
		late in all respect as directed and appropriate	55.00	M
		Engineer Incharge (KM, Eagle of Equivalent)		
	N.S	Providing & laying of PVC/PVC 3-Core flexible 110/0.0076"  Providing & laying of PVC/PVC 3-Core flexible 110/0.0076"		
27	N.S	Luster cable I/C and accessories is qui		
		Complete in all respect as directed and approved by	00.00	м
		Engineer Incharge (KM, Eagle or Equivalent)	60.00	101
-		Plumbing Work (Non-Schedule)		
	NC	Desiding Laying Fixing testing uPVC (Dadex/Beta/		
1	N.S	Deliarch) plain ends socket pipe Type-b soil wate,		
		le rein water as per approved make and quality i/c		
		uPVC fitting with solvent cement jointing or rubber ring		
		joints complete in all respects i/c clamps tees	100	
		complete in all respects as approved by the engineer	Total Care	
		incharge.		56
		i) uPVC Pipe 4" dia	200.00	Rft
		ii) uPVC Pipe 6" dia	87.50	Rft
		iii) uPVC Pipe 8" dia	43.75	Rft
2	N.S	Providing and laying, cutting, jointing, testing and disinfecting PPRC pipe line for hot and cold water supply complete in all		
1		respect socket, elbow, encaps, male/female, threaded, fitting, like teese, adoptors to connect polydex pipes to other pipe	Part State	
		and shower, wash basin, bibcock etc. as required at site.		
1		7.00	275.00	Rft
		i) 25mm o/d (Dadex/Beta/BBJ)	400.00	-
		ii) 32mm o/d (Dadex/Beta/BBJ)	37.50	Town 1964
1		iii) 40mm o/d (Dadex/Beta/BBJ)		
			4	
3		Providing & Fixing Stop Valve complete in all respects, as		
3		Providing & Fixing Stop Valve complete in all respects, as approved by the Engineer Incharge.	5.00	No
3		Providing & Fixing Stop Valve complete in all respects, as approved by the Engineer Incharge.  i) 25mm	5.00	
3		approved by the Engineer Incharge.	5.00 2.50 2.00	No No

		Description  Thing chromium Muslim Shower best quality	Quantity	
		and the police as appropriately the engineers		
		prorta or equivalent company)	12.00	No
18	N.S	Providing & Fitting Steel floor jali best quality		
		complete in all respect as per specifications and		
		drawings and as approved by the Engineer Incharge.	28.00	
			20.00	No
6	N.S	Providing and fitting glazed earthen ware Counter		
		basinVanity (HD16 Porta or equivalent company) including		
		waste pipe and waste coupling, etc. best quality complete in		
		all respcts as approved by the engineer incharge	10.00	No
		Providing and fixing Coloured Glazed Earthen ware water		
7	N.S	closet Europen type Couple set including Flush Tank fixed		
		with comode, hydraulic seat cover, sheet cover thimble,		
		connection pipe Complete in all respect and approved by		
		Engineering Incharge. (HD201 Porta or equivalent company)	4.00	
		Engineering micharge. (182011 one of equivalent company)	4.00	N
0	N.S	Providing and fitting glazed earthen ware water closet (WC)		
8	N.S	Orisa pattern, combined with foot rest best quality complete		
		in all respects as approved by the engineer incharge (HDD9		
		Porta or equivalent company)	12.00	
		i one of equivalent company)	12.00	N
9	N.S	Providing and fitting Flushing cistern 3-Gallon capacity		
		including Bracket set & Hockey pipe best quality complete		
		in all respcts as approved by the engineer incharge (HD3		
		Porta or equivalent company)	12.00	
			12.00	١
10	N.S	Providing and fitting glazed earthen ware Urinal (HD950		
		Porta) including waste pipe & nut bolts etc best quality		
		complete in all respets as approved by the engineer incharge	4.00	١
		(HD950 Porta or equivalent company)	1.00	,
11	N.S	Providing and Suize		
	11.0	Providing and fitting chromium plated Tee stop cock (817T		
		Porta) best quality complete in all respects as approved by the		
	,	engineer incharge (817T Porta or equivalent company)	20.00	١
12	N.S	Providing and fitting above	20.00	,
		Providing and fitting chromium plated double cock (5140		
			20.00	
		equivalent company)	20.00	١
13	N.S	Providing & Fixing uPVC "P" 4		
		respect as approved by the Engineer Incharge.		
14		and Engineer Incharge.	40.00	
14	N.S	Providing and fitting chromium plated Bib cock (Porta) best	70.00	١
		quality complete in all respects as approved by the engineer		
		incharge (Porta or equivalent company)		
15	N.S	omparty)	20.00	
	14.5	Providing and fixing Looking Glass by	20.00	١
		Providing and fixing Looking Glass best quality 2'x2'		
16	N.S	The engineer in a	15.00	
			13.00	٨
		Mixer Alfa (HDA0501M) best quality complete in all respects or equivalent complete in charge (Porta HDA0501M)		
-3		or equivalent by the engineer incharge (P		
-		as approved by the engineer incharge (Porta HDA0501M Alfa		
4			10.00	
			10.00	١



### THE ISLAMIA UNIVERSITY OF BAHAWALPUR



# CONSTRUCTION OF GUEST HOUSE AT BAHAWALNAGAR CAMPUS, THE ISLAMIA UNIVERSITY OF BAHAWALPUR

BILL OF QUANTITIES MARCH 2020



#### **New Vision Engineering Consultant**

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Email: newvisionec@yahoo.com



CONS	STRUCTION OF GUEST HOUSE AT BAHA ISLAMIA UNIVERSITY OF BAI	AWALNAGAR CAMPUS, THE HAWALPUR
	BILL OF QUANTITIE	S
	SUMMARY OF COS	Т
sr. No.	DESCRIPTION	AMOUNT
1.	CIVIL WORKS	
2.	PUBLIC HEALTH WORKS	
3.	ELECTRIC WORKS	
	TOTAL	
	GRAND TOTAL	

1	ONSTRU	BAHAWALPUR BAHAWALPUR	MPUS,	THE ISLAM	IAI
C	Excavation structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and rammling lead upto one chain (30 m) and lift upto 5 ft. (1.5 m) in ordinary soil.  Spraying anti-termite liquid mixed with water in the ratio of 1:40.  Spraying anti-termite liquid mixed with water in the ratio of 1:40.  Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):Ratio 1:4:8  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. horizental in shuttering) complete in all respects:- Type C (nominal mix 1: 2: 4)  Cefi6 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), add extra for First Floor.  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.  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.  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.  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 al				
/					
/		Description of Item			
51.	Item No.	ten in foundation of building, bridges	Unit	Qty	R
1		structures, including dagstaining, dressing, renilling around structure with excavated earth, watering and rammling lead upto one chain (30 m) and lift upto 5 ft. (1.5 m) in ordinary soil.	%0Cft	20168.80	
1	C-26/42		%Sft		-
	C-6/5(i)	and curing complete (Including screening and washing of stone aggregate):Ratio 1:4:8			
4	C-6/6 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 above not requiring form work (i.e. horizental in shuttering) complete in all respects:			
	(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			
	(3)+d	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		
		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	
	200	lintels, girders and other structural members laid in situ o precast laid in position, or prestressed members cast in situ complete in all respects:- Type B (nominal mix 1: 1.5: 3), Unde Plinth Level	r P Cft	405.16	
	(2)	lintels, girders and other structural members laid in situ of 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.C#	718.30	
	10 C-6/6 (2)+	lintels, girders and other structural members laid in situ of precast laid in position, or prestressed members cast in situ complete in all respects:- Type B (nominal mix 1: 1.5: 3), acceptable of the prestressed members cast in situ complete in all respects:- Type B (nominal mix 1: 1.5: 3), acceptable of the prestressed members cast in situ complete in all respects:- Type B (nominal mix 1: 1.5: 3), acceptable of the prestress of the prestressed members cast in situ complete in all respects:- Type B (nominal mix 1: 1.5: 3), acceptable of the prestressed members cast in situ complete in all respects:- Type B (nominal mix 1: 1.5: 3), acceptable of the prestressed members cast in situ complete in all respects:- Type B (nominal mix 1: 1.5: 3), acceptable of the prestressed members cast in situ complete in all respects:- Type B (nominal mix 1: 1.5: 3), acceptable of the prestressed members cast in situ complete in all respects:- Type B (nominal mix 1: 1.5: 3), acceptable of the prestressed members cast in situ complete in all respects:- Type B (nominal mix 1: 1.5: 3), acceptable of the prestressed members cast in situ complete in all respects:- Type B (nominal mix 1: 1.5: 3), acceptable of the prestressed members cast in situ complete in all respects:- Type B (nominal mix 1: 1.5: 3), acceptable of the prestressed members cast in situ complete in all respects:- Type B (nominal mix 1: 1.5: 3), acceptable of the prestressed members cast in the prestresse	or u, ld		
	(2)	lintels, girders and other structural members laid in situ of precast laid in position, or prestressed members cast in sit complete in all respects:- Type B (nominal mix 1: 1.5: 3), acceptable for second Floor.	u, id P Cft	37.08	
		rabrication of mild steel reinforcement for cement concret including cutting, bending, laying in position, making joints are fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of reform bars);- Deformed bars (Grada 60)	or est	47373.20	,
	1	Pacca brick work in foundation and plinth in Cement,sai mortar. Ratio 1:6	nd %Cff	4343.04	
		Project Director The Islamia University of Bahawalpur.	ICA	-	

and the same of	m No.	Description of Item	Unit	Qty	_
Ite	m No.	illing, watering, ramming earth under floors (with surplus earth			Rate
	3/10(1)	oundation).	%0Cft	6722.93	
C	3/10UU 1	an excavated morn series of the criain (30 m)	%0Cft	9253.63	
C	53/17	Transportation of earth all types when the total distance, this rate will be paid inaddition to the including the lead covered in the item of work, is more than rate of earthwork, without deducting 1000 ft. (300 m) (Lead will be paid as per actual but not more than 1.5km)		0233.63	
-	_	upto ¼ mile (400 m).	%0Cft	9253.63	
-	b	for every 330 ft. (100 m) additional lead or part thereof, beyond	%0Cft	9253.63	_
+	C-7/5(i)	Pacca brick work in ground floor cement, sand mortar Ratio 1:5	%Cft		_
	C-7/5(I)	Pacca brick work in ground floor cement, sand mortar Ratio 1:4	%Cft	5357.19	
	C-7/5(i)+ 7/6(i)	Pacca brick work in first floor cement, sand mortar Ratio 1:5	%Cft	455.41 4895.53	
20	C-7/5(i)+		%Cft	633.79	
92	7/6(i) C-7/5(i)+ 7/6(ii)		%Cft	358.54	
-	C-11/11(t	Cement plaster 1:5 upto 20' (6.00 m) height:- b) 1/2" (13 mm)	1 %SIT	21633.35	
23	C-11/11(	Comment plaster 1:5 upto 20' (6.00 m) height:- c) 3/4" (20 mm thick.	%Sft	8908.00	
24	C-11/9(c	thick.	%Sft	12448.63	
25		Providing grooved cement sand plaster 1:3 over existing plastered and roughened surface upto 20' (6.00 m) height. ii) 1/2 (13 mm) thick	" %Sft	1454.10	
26		(b) Cement plaster 3/8" thick under soffit or R.C.C. roof slab onlupto 20' heigh ratio 1:3.	y %Sft	8866.24	
27	C-13/3 (a+b)		%Sft	39407.60	
28	C-13/32 a(i+ii)	on external surface of building including preparation of surface application of primer complete in all respect: new surface:	e,	12448.63	
30	1000	Supplying and filling sand under floor; or plugging in wells.	%Cft	1910.17	_
31	3.01	gauge.	n) %Cft	2031.60	
	0-0/5	and curing complete from including placing, compacting, information and curing complete from the compl	ne o/ C#	2247.80	
32	0-10/1	5(e) Providing and laying topping of cement concrete 1:2:4, includi surface finishing and dividing in panels:- (e) 2" (50 mm) thick.	ng	1000 000	
33	C-9	Single layer of tiles 9"x4½"x1½" (225x113x40 mm) laid of 4"(100 mm) earth and 1" (25 mm) mud plaster without Bhoosgrouted with cement sand 1:3 on top of RCC roof slab, provid with 34 lbs. per %Sft. or 1.72 Kg/Sq.m bitumen coating sablinded.	ed ed	4003.75	
	34 C-9/d	Providing and Laying Insulation material of Extruction Polystyrene XPS in Rigid Insulation / Foam Board on roof walls, Density 32-38Kg/M, compressive strength 250-400 kpa value 5 per inch thickness and water obsorption (1% by volur cell structure clored cell) i/c cutting and placing in positic complete in all respect. 1-1/2" thick	or , R	4993.75	

THE PERSON.		Description of Item		
35 No.	All Care	iding and fixing all types of glazed aluminum windows of section of approved manufacturer having Frame at batteries and party sliding using	Unit	Qty
	fram 45m fram thick stan	mmx30mm using frame at bottom, attopand side leaf leaf se sections of 60mmx23mm at top & bottom and size leaf leaf mx25mm at center and size 45mmx25mm at sides, Jali leaf is size 43mmx13mm I/c fine quality aluminum jali, 5mm dard latches, wheel, stopper, brush channel angle joint and dware etc.in all respect. 2 mm thick		
C-25/10	)+ Fat	prication of heavy steel work, with angle, tees, flat iron round and sheet iron for making trusses, girders, teel	P.SR	1274.1
11	fixi	luding cutting, drilling, revitting, handling, assembling and including erection in position. (for Windows Cotton		
C-25/5			%kg	8906.7
	fra 60 mi an ap et	ized anodised bronze colour aluminium doors, using delux ction of M/s Al-Cop or Pakistan Cables, having chowkat me of size 40 x 100 mm (1½" x 4") and leaf frame of x40mm (2½"x1½") wide sections including the cost of ½" (5 m) thick imported tinted glass with aluminium triangular golar drubber gasket to support the glass and leaf edging, using proved standard fittings, locks, 3" (75 mm) wide long handles co, and hardware any required as approved by the engineer integral.		
38 C-12/	150 P	royiding and fixing 1½" (40mm) thick as 11 2	P.Sft	129.78
	th	hick) on both sides double pressed and deodar wood lipping		
20 C 12/	b	oth sides & finger plate complete in all records	P.Sft	64.00
39 C-12/	/15 a F v	oth sides & finger plate complete in all respect.  Providing and fixing M.S. sheet hollow pressed frame of doors, vindows, C. windows, etc. (chowkat only) of 20SWG welded with M.S. flat 6"x 1½" x 1/8" (150mmx30mmx3mm) M.S. flat 6"x1"x1/8"(225mmx25mmx3mm) welded/screwed 4" 100 mm) long iron hinges, including filling chowkat with cement sand mortar 1:8 and embedding holdfact in	P.Sft	64.89
40 C-1	/15 a F	oth sides & finger plate complete in all respect.  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 1½" 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	500	
40 C-1	13/5 (i+ii)	oth sides & finger plate complete in all respect.  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 1½" 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  Painting new surface:- c) Preparing surface and painting of doors and windows any type (including edges):- 3 coats	500	666.93
40 C-1 qi 41 C-1	13/5 (i+ii) 13/7 a	oth sides & finger plate complete in all respect.  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 1½" 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  Painting new surface:- c) Preparing surface and painting of doors and windows any type (including edges):- 3 coats  French polishing complete:- on new work.	P.Sft	666.90
40 C-1 di 41 C-1:	13/5 (i+ii) 13/7 a	oth sides & finger plate complete in all respect.  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 1½" 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  Painting new surface:- c) Preparing surface and painting of doors and windows any type (including edges):- 3 coats  French polishing complete:- on new work.	P.Sft %Sft	666.90 191.01
40 C-1 c(i 41 C-1 42 C-43 C-6/5	13/5 (i+ii) 13/7 a -9/15	oth sides & finger plate complete in all respect.  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 1½" 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  Painting new surface:- c) Preparing surface and painting of doors and windows any type (including edges):- 3 coats  French polishing complete:- on new work.  Khuras on roof 2'x2'x6" (600 x 600 x 150 mm)  Providing and laying damp proof course of cement concrete 1:2: 4(using cement, sand and shingle), including bitumen coating:-	P.Sft %Sft %Sft Each	666.93 191.07 1204.0
40 C-1 c(i 41 C-1 42 C-43 C-6/5	13/5 (i+ii) 13/7 a	oth sides & finger plate complete in all respect.  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 1½" 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  Painting new surface:- c) Preparing surface and painting of doors and windows any type (including edges):- 3 coats  French polishing complete:- on new work.  Khuras on roof 2'x2'x6" (600 x 600 x 150 mm)  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)	P.Sft %Sft %Sft Each	666.93 191.07 1204.0
40 C-1 di 41 C-1 42 C- 43 C-6/3	13/5 (i+ii) 13/7 a -9/15 /33(a-ii)	oth sides & finger plate complete in all respect.  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 1½" 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  Painting new surface:- c) Preparing surface and painting of doors and windows any type (including edges):- 3 coats  French polishing complete:- on new work.  Khuras on roof 2'x2'x6" (600 x 600 x 150 mm)  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)  Bitumen coating to plastered or cement concrete surface:-i) 20 lbs. per 100 Sft. (9.07 Kg per Sq.m)	P.Sft %Sft %Sft Each	191.01 1204.0 8.00
40 C-1 c(i) 41 C-1 42 C-43 C-6/2 44 C-2	13/5 (i+ii) 13/7 a -9/15 /33(a-ii)	oth sides & finger plate complete in all respect.  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 1½" 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  Painting new surface:- c) Preparing surface and painting of doors and windows any type (including edges):- 3 coats  French polishing complete:- on new work.  Khuras on roof 2'x2'x6" (600 x 600 x 150 mm)  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)  Bitumen coating to plastered or cement concrete surface:- i) 20 lbs. per 100 Sft. (9.07 Kg per Sq.m)  Supplying and laying polythene sheet over D.P.C. under floors and on roofs, etc.ii)500 gauge (0.05" thick)	P.Sft %Sft %Sft Each	64.89 666.93 191.07 1204.0 8.00
40 C-1 di 41 C-1: 42 C-43 C-6/: 45 C-2 46 C	13/5 (i+ii) 13/7 a -9/15 -13/9(i) 26/37(ii)	oth sides & finger plate complete in all respect.  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  Painting new surface:- c) Preparing surface and painting of doors and windows any type (including edges):- 3 coats  French polishing complete:- on new work.  Khuras on roof 2'x2'x6" (600 x 600 x 150 mm)  Providing and laying damp proof course of cement concrete 1:2: 4(using cement, sand and shingle), including bitumen coating:- 4(using cement, sand and shingle), including bitumen coating:- 500gauge ii) 2" thick (50 mm)  Bitumen coating to plastered or cement concrete surface:-i) 20 libs. per 100 Sft. (9.07 Kg per Sq.m)  Supplying and laying polythene sheet over D.P.C. under floors and on roofs, etc.ii)500 gauge (.005" thick)  Providing and fixing ornamental cement jali 2" (50 mm) thick (1: 2.4) with thick (1: 2.4) with the complete in all respect.	P.Sft  %Sft  %Sft  Each  %Sft  P.Sft	191.07 1204.0 8.00

51.	Item No.	Description of Item	Unit	Qty
NO. 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		
		The state of the s	100St	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.Sit	1751.00
_		Total of MRS ITEMS		
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.Ch	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 AASHO dry density, including carriage of all material to site of work including gravel and, aggregate (Crushed stone aggregate 298 km lead from	%CR	577.83
3	NSI	Providing and laying Granite tiles flooring 24 X24 X36 Sat- 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
4	NSI	Providing and laying Granite tiles skarting dado 24*x24*x38* 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
4	5 NS	Providing and laying Porcelain tiles dado for corridor 9"x26 x3/6 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	P.Sft	1606.80
	6 NS	Providing and laying glazed Ceramic tiles texture light color lot 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 N	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	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

# CONSTRUCTION OF GUEST HOUSE AT BAHAWALNAGAR CAMPUS, THE ISLAMIA UNIVERSITY OF BAHAWALPUR

### **BILL OF QUANTITIES**

### SUMMARY OF COST

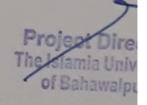
## **ELECTRICAL WORKS**

BOQ Section	Description	Cost of Section (Rs)
Section-A	Distribution Boards	
Section-B	Light Fixtures	
Section-C	Miscellaneous Fittings	
Section-D	Wiring in Concealed Conduits	
Section-E	LT Cables	
Section-F	Wiring Accessories	
Section-G	Grounding System	
Section-H	Conduits & Pipes	
Section-I	Telephone System	
Section-J	Civil Works	
Section-K	Air Conditioning	
	Total Cost of Electrical Works	

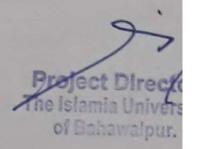
Project Director
The Islamia University
of Bahawaipur.

Item	Description	Unit	Qty
No.	SECTION - A		
	DISTRIBUTION BOARDS		
	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		
	hot air exhaust, wire mesh etc. The back of the parties state of the parties at the parties of the parties at t		
	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	DISTRIBUTION BOARD DB-Guest House Bit		
	INCOMING		
	01-150 Amps TP MCCB RC=10KA  O1-150 Amps TP MCCB RC=10KA  Vellow, Blue.		
	01-150 Amps TP MCCB RC-10RA  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 Digital Voltmeter scaled 0-500 Tenes		
	01 Nos.Voltmeter selector switch 05 Nos.copper bus bars 150 Ampere,three phase,Earth and Netural		
	05 Nos.copper bus bars 150 Amporogram		
Edward III	for distrubitions.		
	OUTGOING OR MCR PC=6 KA		
	30-10 Amps SP MCB RC=6 KA 14-16 Amps SP MCB RC=6 KA	Job	1
	14-16 Amps SP MCB RC=6 KA 27-20 Amps SP MCB RC=6 KA	000	otal Part

em No.	Description	Unit	Qty
-	SECTION - B		
-	LIGHT FIXTURES		
	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
C-B-02	17 Watt LED/SMD Light Fixture, IP-44 rated	No.	259
C-B-03	9 Watt SMD/LED Light Fixture surface/recessed mounted, IP-44 rated	No.	38
C-B-03		No.	15
		Sub 1	Total Par

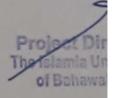


tem No.	Description	Unit	Qty
	SECTION - C		
_	MISCELLANEOUS FITTINGS		
	Supply, installation, testing & commissioning of Ceiling/ Exhaust fan. The ceiling/exhaust fan shall comprise circular fan metallic/ plastic body, metallic fan blades, down rod (if necessary) of suitable dia & length, AC capacitor, 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
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
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
		Sub T	otal Pa



No.	Description	Unit	Qty
-	SECTION - D	-	-
	WIRING IN CONCEALED CONDUITS	-	The Person Name of Street, or other Designation of the Person of the Per
0-01	Distribution board to Switch	-	-
	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		
	Supply and erection of single core PVC insulated cores	-	-
ch/2	conductor cables in prelaid PVC pipe/M.S. conduct Cul		
1	pipelwooden strip batten/wooden casing and cappion(C)	RMtr	
(0	wire/trenches (rate for cables only) i) Cost of 1x 2.5 mm		
	(7/0.029*)  Supply and erection of PVC pipe for wiring recessed in wall	-	1980
chi	including inspection boxes pull boxes, hooks, cutting jharnes.		
- 11	and repairing surface, etc, complete with all specials ii) Cost of	Rmtr	
	25mm		396
-D-02	Switch to light point & point to point wiring		339
	Wiring from switch to light or fan point with 3 nos. single core	1	
	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).		
	Supply and erection of single core PVC insulated copper		
ch	conductor cables in prelaid PVC pipe/M.S conduit G.I		
1	pipe\wooden strip batten/wooden casing and capping/G.f	RMtr	
	wire/trenches (rate for cables only) i) Cost of 1x 1.5 mm (3/0.029")		
	Supply and erection of PVC pipe for wiring recessed in wall	-	11610
11 0	h/24/3 including inspection boxes pull boxes, hooks, cutting jharries,	1	
"	(ii) and repairing surface, etc, complete with all specials ii) Cost of	Rmtr	
C-D-03	20mm		1935
C-D-03	Switch to Switch 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,	0.00	
	Conduit accessories,etc.(conduit partly shared).		
	Supply and erection of single core PVC insulated copper		
1	ch/24/10 conductor cables in prelaid PVC pipe/M.S conduit G.I pipe/wooden strip batten/wooden casing and capping/G.I	RMtr	
1	(a(iii)) wire/trenches (rate for cables only) i) Cost of 1x 2.5 mm	romu	
	(7/0.029*)		1029
	Supply and erection of PVC pipe for wiring recessed in wall		
ii	ch/24/3 including inspection boxes pull boxes, hooks, cutting jharries, (iii) and repairing surface, etc, complete with all specials ii) Cost of	Rmtr	
1	25mm		245
C-D-04	Distribution board to General Purpose ( 5A/13A) socket		
	Wiring of circuit from Distribution Board to 5A/13A ,230Volts with 3 nos. single core 2.5 Sqmm PVC insulated 450/750 Volts		
1	graded , 2&3 pin switched socket, stranded copper conductor		
1 12 1	cables in concealed PVC conduit, including conduit		
	accessories, etc(conduit partly shared)		-
1	Supply and erection of single core PVC insulated copper conductor cables in prelaid PVC pipe/M.S conduit G.I		
11	ch/24/10 pipe/wooden strip batten/wooden casing and capping/G.I	RMtr	
	(a(iii)) wire/trenches (rate for cables only) i) Cost of 1x 2.5 mm	- 1	2100
	(7/0.029*)  Supply and erection of PVC pipe for wiring receased in wall	-	2106
4	ab/24/2 lincluding inspection boxes pull boxes, hooks, cutting (harries,	Rmtr	
n n	(iii) and repairing surface, etc, complete with all specials ii) Cost of	- dina	251
	25mm		351
C-D-0	Wiring from 5 Arms, 2&3 pin socket to socket with 3 nos, single		
	core 2.5 Samm PVC insulated 450/750 Volts grade solid or		
	stanerd copper conductor cables in concealed PVC conduit including PVC conduit, Conduit accessories, etc complete.		1
	(conduit partly shared)		
	Supply and erection of single core PVC insulated copper		
	ctv24/10 conductor cables in prelaid PVC pipe/M.S conduit G.I	Chin	1 1
1	(a(iii)) pipetwooden strip batter/wooden casing and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x 2.5 mm	RMtr	
1	(7/0.029*)	15 70 0	408
	Supply and erection of PVC pipe for wiring recessed in wall		1
1	ch/24/3 including inspection boxes pull boxes, hooks, cutting jharries and repairing surface, etc., complete with all specials ii) Cost of	Rmtr	1
	25mm		136
	06 Distribution board to 15Amps socket	Total Control of the	100

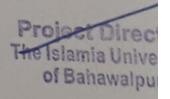
m.No.		Description	Unit	Qty
		Wiring of circuit from distribution board to 15A, 230Volts, DP switch with 3 nos, single core 4Sqmm PVC insulated 450/750 Volts grade stranded copper conductor cables in concealed PVC conduit including PVC conduit, Conduit accessories, etc (conduit partly shared for A/Cs)		
1	ch/24/10 (a(iv))	pipe/wooden strip batten/wooden casing and capping/G.t wire/trenches (rate for cables only) i) Cost of 1x 4 mm (7/0.0365)	RMtr	
ii	ch/24/3 (iii)	and repairing surface, etc, complete with all specials ii) Cost of 25mm	Rmtr	72
C-D-07		20amps to 15Amps socket		12
		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)		
ì	ch/24/ (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
ii	ch/24	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
C-D-0	7	Distribution board to 20Amps socket		
		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)		
1	ch/24 (a(v	wire/trenches (rate for cables only) i) Cost of 1x 6 mm (7/0.044*)	RMtr	1512
ii	ch/2	i) and repairing surface, etc, complete with all specials ii) Cost of 25mm	Rmtr	252
C-D-	-07	ENERGY Meter		
	_	4/75 Supply and erection of electric energy meter, including meter testing fee, etc. a) single phase: 1x30 Amp, 250 volts	No.	16
The same	(a	-ii) testing fee, etc. a) single phase: 1x30 Amp, 250 volts		Total P



tem No.		Description	Unit	Qty
	S	ECTION-E		
-	L	T CABLES		
	S P 1 d p r l l d l l l l l l l l l l l l l l l l	Supply at site, installation, testing and commissioning of CVC insulated non armoured copper conductor cable 600 / 000 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 ugs 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		
C-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
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
	The second second		Sub	Total Part -E

Item No.	Description	Unit	Qty
	SECTION · F		
	WIRING ACCESSORIES		
	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
C-F-02	10 Amps, 250Volts one way, Two gang light control switches including appropriate size concealed MS, powder coated back box.	No.	2
C-F-03		No.	4
C-F-04	10 Amps, 250Volts one way, Four gang light control switches including appropriate size		
	concealed MS, powder coated back box.	No.	19
C-F-05	10 Amps, 250Volts one way, Five gang light control switches including appropriate size concealed MS, powder coated back box.	No.	20
C-F-06	10 Amps, 250Volts one way, Six gang light control switches including appropriate size concealed MS, powder coated back box.	No.	25
C-F-07		No.	2
C-F-08		No.	66
C-F-09	13 Amps, 250Volts, Mutli pin duplex switched socket unit including appropriate size MS, powder coated back box.	No.	9
C-F-10	15 Amps, 250Volts, 3 pin duplex switched socket unit including appropriate size MS, powder coated back box.	No.	34
C-F-11		No.	28
C-F-12	Fan Dimmer 300 watt with switch/ including appropriate size Plastic back box. with all associated accessories.	No.	32
C-F-13	50108 (40 ) die MC her	No.	32
C-F-14	to be die begin for box	No.	32
C-1-14	/ ppropiate size - p		otal Part -F

Na	Description		
Item No.		Unit	Qty
	SECTION - G		
-	GROUNDING SYSTEM		
C-G-01	Grounding Cables  Grounding Cables  Grounding Cables		
	Supply at site, installation, testing and commissioning of PVC insulated		
	non armoured copper conductor cable 450/ 750 Volt grade (or otherwise		
	mentioned in cable description ) in prelaid conduits / transfer		
	installed as per routes shown on drawings including cost of all necessary		
	materials, connections, identification tags, cables lugs properly crimped at		
1 3	both ends for the following sizes complete in all respects. Actual length as		
	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		0.75
	herewith. Payments shall be made as per actual length installed. Made of		
	Pakistan, newage, Fast cables or equivalent as approved by site oppings		
	Supply and erection of single core PVC insulated copper conductor cables		
(a-vii)	o in prelaid PVC pipe/M.S conduit G.I pipe/wooden strip batten/wooden		
(a-vii)	casing and capping/G.I wire/trenches (rate for cables only) i) Cost of 1 x 25 mm (19/0.052")		
C-G-0	2 Grounding Plate	R.Mtr	45
	Ground electrode for the Grounding of LT electrical system. The Ground		
1	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		12 1 0
1	stranded Copper wire as Grounding leads, TWO inch dia GI pipe (15 feet		
1	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		
3	dimensions 4 feet x 4 feet & 15 feet deep shall be excavated in the		3.5
	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		
1	connected diagonally to the nuts and bolts on the copper plate, brough		100
1	out through the GI pipe upto the first grounding connection point.	No.	1
C-G	-03 Grounding Connection Point	140.	
	Supply of Grounding connecting points consisting of copper plate 300mm	n	
	long x50mm wide x 6mm thick to be installed, complete with fixin	9	10000
	arrangement, brass nuts bolts, washers, lugs, 12.5mm dia. holes t	0	
	facilitate connections of Incoming copper strips / copper conductors.	Nos.	1
		Sub	Total Par



Item No.		Description	Unit	Qty
Item		SECTION - H		
C-H-01		CONDUITS, PIPES, DUCT, CABLE TRAYS, FIXING CLAMPS AND FIXING ARRANGEMENTS		
		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
ii	ch/24/6 (ii)	80mm dia PVC conduits ( Class D)	R.Mtr	50
C-H-02		Flexible Pipe		
		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	20 mm. dia. (3/4" dia)	R.Mtr	35
	(ii) ch/24/5		R.Mtr	45
ii	(iii)	25 mm. dia. (1 dia)	Sub	Total Part
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	The state of the			

Item No.	Description	Unit	Qty
	SECTION -J		
_	CIVIL WORKS	-	
C-J-01	Trench ( for LT Cable )	-	
	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.	5.44	
C-J-02	Manhole For LT Cable Pulling (If Required)	R.Mtr	20
	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)		
	ger quantity requirement)	Nos.	2
		Sub 1	Total Part -

tem No.	Description	Unit	Qty	Unit F
-	SECTION K			(Rs
-	Air Conditioning			
	Providing, shifting, fixing, testing, commissioning, adjusting and balancing of standard (Cool only) DC inverter technology air condictioning 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-K-01	10ft drain pipe and cooper pipe with insulation of 1.5 Ton air conditioner.	Nos.	5	
C-K-02	10ft drain pipe and cooper pipe with insulation of 2.0 Ton air conditioner.	Nos.	16	
	10ft drain pipe and cooper pipe with insulation of 4.0 Ton air conditioner.	Nos.	4	
C-K-04	Mild Steel 14 SWG Frame For Outer Unit	Nos.	28	
		Sub	Total Par	t-KRs.

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		BILL OF QUANTIT		
		PUBLIC HEALTH W	ORKS	
SR. NO.	ITEM NO.	DESCRIPTION	UNIT	QTY
		SANITARY FIXTURES AND FITTINGS	-	
*	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")		
2	19/35	Providing and fitting 10 cm (4*) gully trap, including cemen concrete, cost of PVC grating 15x15 cm (6*x6*) and masonry chamber 30x30 cm (12*x12*).	Each	16
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	6
4	21/1 (iii)		Each	1
		concrete 1:11/2:3, 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.		
5	3/42 (1)	Earthwork excavation in open cutting for sewers and	P.Rft	387
,	342(1)	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 CR	3483
6	3/24 (c)	Compaction of earthwork (soft, ordinary or hard soil) :- c)		
7	3/13 (a)	Ramming earthwork (all types of soil).  Rehandling of earthwork: a)	1000 Cft	3483
100	-	Lead upto a single throw of Kassi, phaorah or shovel	1000 Cft	3483
		TOTAL OF MRS ITEMS		
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
4	NSI	Providing and fixing Muslim shower double till cock so angle Sonex,or equialent complete in all respects as	Each	14
5	NSI	Providing and fixing Basin BOWL White Porta(NO-10) of equivalent complete in all respects as approved by the	Each	13
6	NSI	Providing and fixing (7-piece set) Power Shelf, 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 distributed by the Engineer complete in all respects as approved by the Engineer incharge.  Providing and fixing Basin, sink mixing valve master(HDA-Providing and fixing Basin, sink mixing valve master(HDA-Providing and fixing Basin, sink mixing valve master).	Each	12
8	NSI	0501M) ,sonex or equivalent complete with all respects as apprroved by the engineer incharg :-white	Each 、	14
9	9	Projection of B	ct Directimia University	ersity

		1	DESCRIPTION	UNIT	QTY
1	ITE	M	UPVC Multi Floor Trap (110x75mm) including strainer;	-	-
134	NO	4	UPVC Multi Floor Trap (110x75mm) including strainer; uPVC Multi Floor Trap (110x75mm) including strainer; making required number of connections; breaking concrete making required number and work & then making it good; etc. of approved		
NO.	/		aving required number of confidences, breaking concrete		1
1	-16		- masonly	Each	00
9	NS	71	rake. Class D or equivalent LIBVC class	Each	22
		_	Providing, Fixing Dadex Class D of equivalent of ve clean providing, Fixing Dadex Class D of equivalent of ve clean out with cover making requisite number of holes in walls, out with cover making requisite number of holes in walls, out with cover for pipe connection and making good the same		
-			out with cover making good the same		
1	1	CI	plinth or floor for pipe confliction and making good are same		
10	N	SI	necessary to the	Each	6
1			gasket and clamp.	6.01011	
	+	_	WATER SUPPLY PIPES AND FITTINGS  WATER SUPPLY PIPES AND FITTINGS  P/F Polypropylene Randam copolymer (PPRC) pipe with		
1	+	_			
	1		fusion / threaded joints including the lacessories i.e elbow, bend, sockets etc. (Dadex /Beeta/BBJ		
	1		or equivalent) complete in all respect.		
			or equivalent) complete and		
-	1		1	Rft	350
	1	1	2" (50 mm) dia.		
-	1			Rft	170
	1	ĩi	1" (25 mm) dia.		
H	1			Rft	145
1		111	1 1/2" (40 mm) dia.		
F		T		Rft	640
	-1	i			
	12		SOIL, WASTE, VENTILATING PIPES & FITTINGS  Providing , fixing and testing UPVC Nikasi type "B" with		
			Providing, fixing and testing UPVC Nikasi specification of same quality make including the cost of all solution of same quality make including the cost of all solution of same quality make including the cost of all solutions.		
			solution of same quality make including sissesses etc. specials/ accessories i.e elbow, bend, sockets etc. specials/ accessories i.e elbow, bend, sockets etc.	11111	
-			specials/ accessories i.e elbow, bond, (Dadex/Beeta/BBJ or equivalent) complete in all respect.		
1				Rft	250
- 1		1	100 (4T) dia	Rit	
		+	i 100 mm (4") dia.	me.	180
		1		Rft	100
		1	ii 80 mm (3") dia.		
	10	1	VALVES  NSI Providing and fixing handle valves 16bars or equivalent handle valves 16ba	10.00	
	13	1	NSI Providing and fixing handle valves 16bars of equations of second learning handle valves 16bars of equations of second learning handle valves 16bars of equations of equati		
			incharge.	Each	14
		1	a (4 inch		
	-	-	i 3/4 inch  MANHOLE  NSI Making of manhole size 3'x2-1/2'x3' brick work, plaster  NSI Making of manhole size 3'x2-1/2'x3' brick work, plaster  NSI making of manhole size 3'x2-1/2'x3' brick work, plaster  NSI making of manhole size 3'x2-1/2'x3' brick work, plaster  NSI making of manhole size 3'x2-1/2'x3' brick work, plaster		1-9-3
	-	14	NSI Making of manhole size 3'x2-1/2'x3' brick work, plaster  NSI Making of manhole size 3'x2-1/2'x3' brick work, plaster  Complete as requirement including RCC manhole cover 22"  complete as requirement including RCC manhole cover 22"  complete as requirement including RCC manhole cover 22"	45	
	1		complete as logo C.I frame complete in	Job	7.00
	1		engineer Incharge		
			Cos Cum Electric Geyser 50 gallon		
		15	NSI Providing and Fixing Sui Gas Cum Electric Geyser 50 galon Providing and Fixing Sui Gas Cum Electric Geyser 50 galon Galon Support		
	-1	15	capacity con M.S sheet 22-5993 density glass wool		
	1		te dilly some constitution and		
			insulation fixing and making by the Engineer	1	
				dol.	2.00
		1	Incharge. V	1	
		L	Incharge. (Ambassadolii iliasi	ot	1
		1	16 capacity and M.S. sheet 22-SWG covering	lle	1
		1			
		1	gauge including respects as approved by the Engine	er	1000
		1	complete in all respects to supplied the complete in all respects to supplied	Job	1.00
				- Annual Colonia	by Can

SR	ITEM NO.	DESCRIPTION	UNIT	QTY	RAT
10 17	NSI	Providing and flixing Domestic type water tank of fiber glass 1000 Gallon (Double Ply) Dura or equivalent complete in all respects as approved by the Engineer incharge.			
		respects as approved by the Engineer mentings.	Each	3	
-		TOTAL OF NSI ITEMS			
_	_	GRAND TOTAL OF PUBLIC HEALTH WOR	KS		
_					
					-
				0	,
				7	7/
			Project	Direc	tok
			The Jarami	a Unive	rsity
			of Bah	awalpur	"

#### The Islamia University of Bahawalpur

Renovation & Addition/Alteration of DolT Main Office, Help Desk Office & Lab in Faculty of Science
at Baghdad-ul-Jadeed Campus

Estimate Based on MRS, Jan to Jun, 2020

#### ABSTRACT OF COST

A)	Schedule Work		
1	Civil Work	Rs.	1,637,663.00
2	Electric Work	Rs.	480,232.00
	Total	Rs.	2,117,895.00
B)	Non-Schedule Work		3,744,606.00
1	Civil Work	Rs.	2,281,694.00
2	Electric Work	Rs.	
3		Rs.	183,552.00
	Total	Rs.	6,209,852.00
	T-4-/ A. D	Rs.	8,327,747.00
	Total A+B Add 16% Punjab Sales Tax	Rs.	1,332,440.00
	Grand Total	Rs.	9660187.00
	Glatia Potal		AND REAL PROPERTY.

M.Aslor.
Sub-Engineer |3/2020

Assistant Engineer

Executive Engineer

Technically Sanctioned for Rs.9,660,187.00

Project Director

#### The Islamia University of Bahawalpu eation & Addition/Alteration of Dolf Main Office, Help Desk Office & La Baghdad-ul-Jadeed Campus

	CIVILV	Baghdad-ul-Jadeed Cam Vork	Dus	
MRS Ref		Description	Quantity	
4/49-b	Scrapi of wal	ing:- Ordinary distemper, oil bound distemper, or paint	10817	Sft.
4/19a	Disma	antling cement concrete plain 1:4:8.	532.00	Cft
4/19c	Disma	antling cement concrete 1:2:4 plain.	258.00	CR
4/13	Dism	antling brick work in time or cement mortar.	100.00	CR
4/32-1	Rem	oving door with chowkat.	1.00	No
4/32-11	Rem	oving windows and sky lights with chowkat.	3.00	No
7 4/50	Disn	nantling glazed or encaustic tiles, etc.	274.50	Sft
8 13/31 a	+b Prep	paring surface and painting with emulsion paint:-old ace 2 coats	5256.00	sn
9 13/4-c	i+ii Pair	nting doors and windows, any type: old suface 2 coats	100.00	Sft
	A-b Proque	oviding and applying weather shield paint of approved ality on external surface of building including preparation surface, application of primer complete in all respect: old surface:	2000.00	Sft
11 7/	Ra	cca brick work in ground floor;- Cement, sand mortar;-	576.00	Cft
12 11/1	9-c Ce	ement plaster 1:4 upto 20' (6.00 m) height:- 3/4" (20 mm)	2160.00	sn
13 6.	/6 (a cc si in	(i) (i) Reinforced cement concrete in roof slab, beams, blumns lintels, girders and other structural members laid in the or precast laid in position, or prestressed members cast in situ, complete: - Type C (nominal mix 1:2:4)	20.00	Cff
14 6	i	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	52.00	Kg
15	6/5f	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): Ratio 1:2:4	730.00	CI
16	6/2	Dry rammed brick or stone ballast, 1½" to 2"( 40 mm to 50 mm) gauge.	1554.00	C
17	7/30	Supplying and filling sand under floor, or plugging in wells.	4982.00	C
18	25/53	Providing and fixing all types of glazed aluminium windows of anodized champagne colour partly fixed and party sliding using deluxe section of approved manufacturer having Frame of size100mmx 30mm using frame at bottom, at top and side leaf frame sections of 60mm x 23mm at top & bottom and size 45mm x25mm at center and size 45mm x 25mm at sides, Jali leaf frame size 43mm x 13mm i/c fine quality aluminum jali, 5mm thick imported tinted glass with rubber gas ket using approved standard latches, wheel, stopper, brush chennel angle joint and hardware etc.complete in all	1000000	, 5

m.Asc

S Ref	Description	Quantity	
10	Civil Work (Non-Schedule)		
N.5	Providing and laying Floor Tile 24"x24" Granite Effect (GEM) Dark Polished SB including 05% Wastage laid in cement with pigment on a bed of 3/4" thick cement sand mortar 1:2, complete in all respects as approved by Engineering incharge	4125.00	Sft
N.5	Providing and laying Tile Dado 9"x28" Size (51SF MPD538 & 757 Multi 9x26 Master and 24SF MPD748 Multi 9x26 Master) including 05% Wastage laid in cement with pigment on a bed of 3/4" thick cement sand mortar 1:2, complete in all respects as approved by Engineering incharge	1043.50	Sft
N.S	Providing and laying Granite Marble Slab (SADU Grey) including 05% Wastage laid in cement with pigment on a bed of 3/4" thick cement sand mortar 1:2 including grinding & chemical polishing complete in all respects as approved by Engineering incharge	302.00	Sft
N.S	Providing and laying Tile Dado 24"x4" Size Granite Effect (GEM) Dark Polished SB including 05% Wastage laid in cement with pigment on a bed of 3/4" thick cement sand mortar 1:2, complete in all respects as approved by Engineering incharge	327.00	Sft
N.S	Providing and fixing Door Closer (Royalwand 604 Coffee) including all hardware fitting best quality complete in all respect as approved by Engineer Incharge.	4.00	No
N.S	Providing and fixing Door Lock (RW-46 MSN Royalwand) including all hardware fitting best quality complete in all respect as approved by Engineer Incharge.	1.00	No
N.	approved design and sample complete in all respect as approved by the engineer incharge.	300.00	Sft
	Providing & Fixing false ceiling of Gypsuim 9mm thick including all accessories, network & hardware etc complete in all respects as per approved design and sample and as directed by the engineer incharge.  Providing and fixing of 12 mm thick glass door with	3016.00	Sft
	Aluminum Strip, handle, machine for closing and opening the door in working condition door. Completed in all respect as approved by Engineer Incharge.	250.00	Sft
10	Shifting & Dumping of dismantled material from basement to outside of the university vicinity complete in all respects	500.00	Sft
11	Preparing Surface ans painting mat finish ICI 6125/BRIGHTO Mark Armo Paint (3-Coats) i/c Glass putti filling & sand paper Complete in all respect and as approved by Engineer Incharge	7192.00	Sft
12	N.S Steel Grill for windows comprising of 1/2"x1/2" square bar with 1.25"x1.25"x1/8" MS angle iron for frame including painting 3 coats complete in all respect as shown on the drawings, specification and/ or as directed by the Engineer incharge	1184.00	Sh

	S Ref	Description		
		Providing and fixing truss M.S pipe (1.5"x1") 16 SWG for russ, and fram with M.S square pipe (1"x1") fixing of Polycarbonate sheet (5 mm thick) at truss supporting by verticale G.I pipe 3" dia ( Light Quality ) fixing in PCC 1.2.4, 15"x15" x 2' including painting 3 coats as per design, drawing & pattern and as approved by the engineer incharge complete in all respect.	(1990) (177.9)	5/8
-	-	Electrical Work		
24	4/10a-i	Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe/M S. conduct/C I pipe/wooden strip batten/wooden casing an capping/C I wire/trenches (rate for cables only) 250/440 volts, PVC insulated:		
		3/0.74 mm (3/0.029")	2337.00	16
		7/0.74 mm (7/0.029")	1271.00	16
		7/0.91 mm (7/0.036")	50.00	11
v		7/1.12 mm (7/0.044")	887.50	34
1		7/1.63 mm (7/0.064")	500.00	1/
2	24/3	Supply and erection of PVC pipe for wiring recessed in walls, including inspection boxes, pull boxes, hooks, cutting jharries, and repairing surface, etc., complete with all specials i) 2" i/d (50 mm) ii) 1" i/d (25 mm)	500.00	RII RII
		Electric Work (Non-Schedule)	-	-
1 2	N.S	Supply & installation of LED 2'x 2' Ceilling Panel Light 40W (220V~, CW or WW) i/c any accessories required at site.  Complete in all respect as directed and approved by the Engineer Incharge (Philips 36S/865 PSU W60L60 GM G2 or Equivalent)  Supply & installation of LED Ceiling Light 17W (6" recessed, 220V~) i/c cutting holes to install in false (any type) i/c any	200.00	146
		accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips Meson or Equivalent)	20.00	96
3	N.S	Supply & installation of LED 17W Down Light (6" Surface Mounted, 220V~) i/c any accessories required at site.  Complete in all respect as directed and approved by the Engineer Incharge (Philips Meson or Equivalent)	5.00	14
4	N.S	Supply & installation of Wall Bracket Fan 18" (99.99% Copper) i/c any accessories (i.e. mounting screws & etc) as required at site. Complete in all respect as directed and approved by the Engineer Incharge (Younis, Tamoor, Pakfan or Equivalent)	2.00	N
5	5 N.	Supply & installation of Metal Body Wall Bracket Fan 24" (99.99% Copper) i/c any accessories (i.e. widing of mounting holes and 4.00nos of rawl bolts ¼" etc) as required at site. Complete in all respect as directed and approved by the Engineer Incharge	2.00	h
	6 N	Supply & installation of PVC Exhaust fan 12" (99.99% Copper) i/c any accessories (i.e. screw. Rawl plug or steel nail, etc.) as required at site. Complete in all respect as directed and approved by the Engineer Incharge (GFC, Indus, Pakfan or Equivalent)	2.00	1

S Ref	Description	Quantit	У
N.S	Supply & installation of 2' x 2' False Ceiling Fan 14" swipe		
	(99.99% Copper), remote controlled i/c any accessories		
4			
	required at site. Complete in all respect as directed and		
	approved by the Engineer Incharge (Royal, Super-asia or	20.00	No
	Equivalent)	30.00	INO
N.S	Supply & installation of Universal 3-Pole Socket with 13A		
	Switch with plastic back box 3"x 3" i/c any accessories		
	required at site. Complete in all respect as directed and		
	approved by the Engineer Incharge (Philips ECO Series Q2	40.00	No
	or Equivalent)		
N.S	Supply & installation of a Power plug 15A with plastic back		
	box 3"x 3" i/c any accessories required at site. Complete in		
	all respect as directed and approved by the Engineer	150.00	No
	Incharge (Philips ECO Series Q2 or Equivalent)		
N.S	Supply & installation of a Single Pole Switch Plate with		
14.5	plastic back box 3"x 3" i/c any accessories required at site.		
	Complete in all respect as directed and approved by the		
	Engineer Incharge (Philips ECO Series Q2 or Equivalent)	50.00	No
	Engineer incharge (Frimps 200 000)		
N.S	Supply & installation of a Double Single Pole Switch Plate		
IV.S	in the book boy 3" v 3" i/c any accessories required		
	Campleto in all respect as directed and approved by	50.00	No
	Engineer Incharge (Philips ECO Series Q2 or Equivalent)	50.00	NO
N.S	a contabletion of a Four Single Pole Switch Plate with		
N.S	late back box 3"x 3" i/c any accessories required at		
	la malata in all respect as directed and approved by the	0.00	No
	Engineer Incharge (Philips ECO Series Q2 or Equivalent)	6.00	110
N.S	Supply & installation of a Eight Single Pole Switch Plate with		
	plactic back box 3"x 6" i/c any accessories required at site.		
	Complete in all respect as directed and approved by the	50.00	No
	Engineer Incharge. (Philips ECO Series Q2 or Equivalent)	00.00	
N.S	Supply, installation, connection & commissioning of distribution		
	boards (DBs) Open type Wall mounted design, made of W.S.		
	Sheet 18 SWG with hinged glass door, handle, and 2 coats of		
	Approved paint, (Size 24"x18") including Incoming Main		
	Molded Case Circuit Breaker of 125 Amps T-p (15KA) 1.00		
	No, Distribution Miniature Circuit Breaker of 10/20 Amps S-p (6KA) 24.00 Nos, LED phase light volt meter type (RYB),		
	Earthling bar, Neutral bar and any accessories (i.e.		
	Earth/neutral bar, Nut/bolts, Screws/rawl plugs, Jumper		
	connections & etc.) required at site. Complete in all respects		
	as approved by the engineer incharge. (for MCCB & MCBs		
	Hitachi, Schneider Electric, Legrand or equivalent ).	1.00	No
N.S	Providing and Laying earthing for Electric Machines I/c boring		
	up to moisture level (up to 60' below ground level) 4" i/d		
	including copper strip 14" x 2" x 1/4" (350 x 50 x 6 mm)		
	connecting with 1 Nos.bare copper wire of No.8 SWG to be run in PVC pipe 20mm i/d, 11/4" i/d GI pipe 5' long, GI tee &		
	plug for watering also includs common salt, Lime (slaked)		
1	& charcoal around copper strip I/c connecting with Electric		
1 13	machine. Complete in all respects as approved and as	1.00	No
1 - 3	directed by the engineer incharge.		
		m.s	0
		11100	The same of

RS Ref		Description	Quantity	
-	Plun	nbing Work (Non-Schedule)		
M.S	Provi Paka rain	ding, Laying, Fixing, testing uPVC (Dadex/Beta/ arab) plain ends socket pipe Type-B soil wste, vent & water as per approved make and quality i/c uPVC fitting		
	all r	solvent cement jointing or rubber ring joints complete in espects I/c clamps tees complete in all respects as		
	app	roved by the engineer incharge.		56
		uPVC Pipe 4" dia	100.00	Rft :
	(11)	uPVC Pipe 6" dia	50.00	Rft
N.S	res fitt pi	by b	150.00	Rft
		roviding & Fixing Stop Valve complete in all respects, as		
N.S		pproved by the Engineer Incharge. 32mm	1.00	No
	i)		1.00	No
N.	0	Providing and fitting chromium Muslim Shower best quality complete in all respcts as approved by the engineer incharge (Porta or equivalent company)	3.00	No
5 N	.S	Providing & Fitting Steel floor jali best quality complete in all respect as per specifications and drawings and as approved by the Engineer Incharge.	4.00	No
6 1	N.S	Providing and fitting glazed earthen ware water closet (WC) Orisa pattern, combined with foot rest best quality complete in all respects as approved by the engineer incharge (HDD9 Porta or equivalent company)	3.00	) No
7	N.S	Providing and fitting Flushing cistern 3-Gallon capacity including Bracket set & Hockey pipe best quality complete in all respcts as approved by the engineer incharge (HD3 Porta or equivalent company)	3.0	0 N
8	N.S	Providing and fitting chromium plated Tee stop cock (817T Porta) best quality complete in all respects as approved by the engineer incharge (817T Porta or equivalent company)		00 1
9	N.S	Providing and fitting chromium plated double cock (5140 Porta) best quality complete in all respcts as approved by tengineer incharge (5140 Porta or equivalent company)	he 3	.00
10	N.S	Providing & Fixing uPVC "P" trap 4" dia complete in all respect as approved by the Engineer Incharge.		3.00
11	N.S	Providing and fitting chromium plated Bib cock (Porta) be quality complete in all respets as approved by the engine incharge (Porta or equivalent company)	er	3.00
12	N	Providing and fixing Looking Glass best quality 2'x2' complete in all respects as approved by the engineer inch	arge	5.00
13	3 1	Providing and fitting Chromium plated Single lever Basin Mixer Alfa (HDA0501M) best quality complete in all resp as approved by the engineer incharge (Porta HDA0501I or equivalent company)	cts	3.00
1	4	N.S Providing and fitting glazed earthen ware Wash Hand to (H.D 17 Porta 655x530x890 or equivalent company) including waste pipe and waste coupling, etc. best qui complete in all respects as approved by the engineer in	ality	2.00
1		The digited in	- large	3.00
			The state of the s	TOTAL

### The Islamia University of Bahawalpur

# Providing and Fixing False Ceiling, PVC Wall Paneling & Aluminium Works for Hospital Building at Baghdad-ul-Jadeed Campus

## Estimate Based on MRS, (Jan to Jun) 2020

#### ABSTRACT OF COST

		101.77
A Schedule Work	Rs.	2,047,191.77
1 Civil Work		
	Rs.	31,322.50
2 Electric Work		
	Rs	19,529.30
3 Plumbing Work		
	Rs.	2,098,043.57
Total	710.	
B Non-Schedule Work	- 70	2,025,973.41
THE STATE OF MIC	Rs.	
1 Civil Work N.S	- Do	353,295.72
2 Electric Work	Rs.	
Z Electric visits	Rs.	50,232.52
3 Plumbing Work N.S		
3 / / / / / / / / / / / / / / / / / / /	Rs.	2,429,501.65
Total		
	Rs.	4,527,545.22
Total A+B		724407.23
Add Punjab Sale Tax @ 16%	_	5251952.00

Sub-Engineen8/3/20

Assistant Engineer

Executive Engineer (3) Technically Sanctioned for Rs.5,251,952.00

Project Director

### The Islamia University of Bahawalpu

# viding and Fixing False Ceiling, PVC Wali Paneling & Aluminium Works for Ho Jadeed Campus

-	Description	Quantity	
RS Re	Schedule		
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 80x40mm (2½"x1½") wide sections including the cost of ½" (5 mm) thick imported tinted 'glass with aluminium triangular gota 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.	558.25 Sft	
25/53-b	Providing and fixing all types of glazed aluminium windows of anodized champagne colour partly fixed and party sliding using deluxe section of approved manufacturer having Frame of size100mmx30mm using frame at bottom, at top and side leaf leaf frame sections of 60mmx23mm at top & bottom and size leaf frame sections of 60mmx23mm at top & bottom and size 45mmx25mm at center and size45mmx25mm at sides, Jali leaf frame size43mmx13mm i/c fine quality aluminum jali, 5mm thick imported tinted glass with rubber gas ket using approved standard latches, wheel stopper, brush chennel angle joint and hardware etc. complete in all respect 2 mm thick	598.50 Sft	
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	7790.00 Sft	
11/4-a	Cement Neru plaster 1:2 (cement and sand) upto 20' (6.00) height. ¼" (6 mm) thick	10800.00 Sft	
7/5-i	Pacca brick work in ground floor:- Cement, sand mortar:- Ratio	341.25 Cft	
6/3-b	Cement concrete brick or stone ballast 1½ " to 2" (40 mm to 50 mm) gauge, in foundation and plinth:- (b) Ratio 1: 4: 8	131.67 Cft	
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: old surface	12454.67 Sft	
			To
NO	Civil Work N.S		
N.S	Providing & Fixing false ceiling of Gypsum 9mm thick i/c all accessories, network & hardware etc as per approved design and sample and as directed by the engineer incharge. (N.S)	2615.44 Sft	
N.S	Providing and fixing PVC wall Paneling using PVC gola and joints as approved coloured & design as approved as per approved design and sample and as directed by the engineer incharge.	7540.50	
N.S	Providing and fixing 3/4" thick Leminated Board shutter with 3/4" x 3/4" deodar wood beading wardrobe frame of 3"x1.5" M.S Box pipe 18 SWG including tower bolts on top & bottom lock 808, hinges, Sprite polish complete in all respects including aluminium hanger rod etc. as approved by the Engineer Incharge	Sft	
1 55	de anglier inchange	82.50 Sft	
		Sannad	1.

	RS Ref	Description	Quantity	T
	2	Providing and laying Floor Tile 16" x 16" Granite effect, (Master) GEM series Polished (Dark color) ST) including 05% Wastage laid in white cement and pigment on a bed of 3/4" thick cement mortar 1:2 complete in all respects as approved by Engineering incharge.  Providing and fixing door closer best quality for door complete in all respect as approved by the engineer incharge  Providing and laying coloured glazed tile Dado/Floor 12" x 18" size Master DFD Series Light SB laid in white cement and pigment on a bed of 3/4" thick cement mortar 1:2, Style bond complete in all respects as approved by Engineering incharge.	3003.33 Sft 7.00 Nos	The second secon
+	40/2 15	Plumbing Work Providing and fitting glazed earthen ware water closet, squatter	Sit	
	19/3-li	type (Orisa pattern), combined with foot rest. Coloured	2.00	
1	10/04 !!	Providing and fitting "P" trap:- 10 cm (4") glazed.	Nos 6.00	
2	19/34-ii	Troviding and many 1 days 10 din (1) glassos	Nos	
3	19/27	Providing and fixing chromium plated tee stop cock '15mm (1/2").	6.00 Nos	
4	19/23-ii	Providing and fixing chromium plated pillar-cock, heavy:- 1.5 cm (½")	2.00 Nos	
5	19/26-ii	Providing and fixing chromium plated bib cock:- 1.5 cm (½")	2.00 Nos	
6	19/12-ii	Providing and fitting plastic made low down flushing cistern 13.63 litre (3 gallons) capacity, including bracket set, copper connection, etc. complete. Coloured	2.00 Nos	
7	19/6-ii	Providing and fitting glazed earthen ware wash hand basin 56x40 cm (22"x16") including bracket set, waste pipe and waste coupling, etc. coloured, with pedestal	2.00 Nos	
8 i	19/22	Providing and fitting:- plastic soap dish	2.00 Nos	
ii	-	plastic toilet paper holder	2.00 Nos	
iii		plastic towel rail	2.00 Nos	١
iv		plastic shelf 60x13 cm (24"x5") with bracket and railing.	2.00	1
9	19/19	Providing and fixing looking glass 55x40 cm (22"x16") size, and 5 mm thick, first quality.	2.00 Nos	-
		Plumbing Work N.S		1
1	N.S	Providing and fixing and testing uPVC plain ends socketed pipes, waste, vent & rain water as per approved make and quality including uPVC fittings with solvent cement jointing or rubbering joints complete in all respects including clamps, tee etc complete in all respect as approved by the engineer incharge 4" i/d	35.00 Rft	
Providing, laying, cutting, jointing, testing and disinfecting PPRC pipe line 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. as required at site, 25 mm				

-	SE Dell	Description	Quantity	
MI	N.S	Providing, laying, cutting, jointing, testing and disinfecting PPRC pipe line 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. as required at site. 32 mm	70.00 Rft	
	N.S	Providing & Fixing Gate Valve PPRC 25mm best quality complete in all respect as per specifications and drawings and as approved by the Engineer Incharge.	2.00 Nos	
	N.S	Providing & Fixing Gate Valve PPRC 32mm best quality complete in all respect as per specifications and drawings and as approved by the Engineer Incharge.	4.00 Nos	
	N.S	Providing & Fixing Muslim shower with double bib cock of Fasial / Master with flexibe pipe complete unit in working condition, complete in all respect as per specifications and drawings and as approved by the Engineer Incharge.	2.00 Nos	
	N.S	Providing and fixing Coloured Glazed Earthen ware water closet Europen type Couple set including Flush Tank fixed with comode, Bakelite sheet cover thrimble, connection pipe Complete in all respect and approved by Engineering Incharge. (Master company)	2.00 Nos	
1				
1 ii	24/10	Electric Work Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only).250/440 volts, PVC insulated: 3/0.74 mm (3/0.029")  7/0.74 mm (7/0.029")  7/1.12 mm (7/0.044")	180.00 Meter 150.00 Meter 140.00 Meter	
1	N.S	Electric Work N.S  Supply & installation of Ceiling Fan 56" (99.99% Copper) with speed control dimmer at site i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Younis-Deluxe, Royal-3 star enercon, Pakfan-Deluxe or Equivalent)	6.00 Nos	
2	2 N.S	Supply & installation of PVC Exhaust fan 12" (99.99% Copper) i/c any accessories (i.e. screw. Rawl plug or steel nail, etc.) as required at site. Complete in all respect as directed and approved by the Engineer Incharge (GFC, Royal, Pakfan or Equivalent)	4.00 Nos	
1	3 N.	Supply & installation of LED Ceiling Light 17W (recessed type, 220V) i/c cutting holes to install in false (any type) i/c any accessories as required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips Essential or Equivalent)	70.00 Nos	

	SE Rel	Description	Quantity	
1	N.S	Supply, installation, connection & commissioning of distribution boards, (DBs), Open type Wall mounted design, made of M.S. Sheet 18 SWG with hinged glass door, handle, and 2 coats of Approved paint, (Size 24"x18") including Incoming Main Molded Case Circuit Breaker of 125 Amps T-p (15KA) 1.00 No, Distribution Miniature Circuit Breaker of 10/20 Amps S-p (6KA) 24.00 Nos, LED phase light volt meter type (RYB), Earthling bar, Neutral bar and any accessories (i.e. Earth/neutral bar, Nut/bolts, Screws/rawl plugs, Jumper connections & etc.) required at site. Complete in all respects as approved by the engineer incharge. (for MCCB & MCBs Hitachi, Schneider Electric, Legrand or equivalent).	1.00	
			No	
5	N.S	Supply & installation of Wall Bracket Fan 18" (99.99% Copper) i/c any accessories (i.e. mounting screws & etc) as required at site. Complete in all respect as directed and approved by the Engineer Incharge (Younis, Tamoor, Pakfan or Equivalent)	6.00 Nos	
6	N.S	Supply & installation of a Power plug 15A with plastic back box 3"x 3" i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge	1400	
		(Philips ECO Series Q2 or Equivalent)	20.00 Nos	
7	N.S	Supply & installation of a Four Single Pole Switch Plate with plastic back box 3"x 3" i/c any accessories required at site.  Complete in all respect as directed and approved by the	18.00	
		Engineer Incharge (Philips ECO Series Q2 or Equivalent)	Nos	
8	N.S	Supply & installation of a Six Single Pole Switch Plate with plastic back box 3"x 6" i/c any accessories required at site.  Complete in all respect as directed and approved by the	10.00	
		Engineer Incharge. (Philips ECO Series Q2 or Equivalent)	12.00 Nos	
9	N.S	Supply & installation of a Eight Single Pole Switch Plate with plastic back box 3"x 6" i/c any accessories required at site.  Complete in all respect as directed and approved by the		
		Engineer Incharge. (Philips ECO Series Q2 or Equivalent)	6.00 Nos	
10	N.S	Supply & installation of Universal 3-Pole Socket with 13A Switch with plastic back box 3"x 3" i/c any accessories required at site.  Complete in all respect as directed and approved by the	,,,,,	
		Engineer Incharge (Philips ECO Series Q2 or Equivalent)	18.00 Nos	1
11	N.S	Supply & installation of LED 2'x2' ceiling panel light 40W (220V CW or WW) i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge	1405	
		(Philips ECO Series Q2 or Equivalent)	8.00 Nos	
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	17	16	15	14	13	12	=======================================	10	9	00	7	0	()h	4	1			
	19/24-ii	19/27	12/55	19/19	19/29	19/26-ii	19/12-ii	19/6-ii	12/18-ii	12/50	13/4-b	13/4-c	13/31-i+ii	11/22	4/49-b	11/37	0/2	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Providing and fixing chromium plated stop cock, heavy:- 1.5 cm (1/2")	Providing and fixing chromium plated tee stop cock '15mm (½").	Providing and fixing G.I. wire gauze 22 SWG, 12x12 'meshes per square inch, (5x5 meshes in cm2) fixed to steel window, complete with flat iron patti ½"x 1/8" (13 mmx3 mm) and machine made screws.	Providing and fixing looking glass 55x40 cm (22"x16") size, and 5 mm thick, first quality.	Providing and fixing, chromium plated mixing valve, for wash hand basin, sink or shower.	Providing and fixing chromium plated bib cock:- 1.5 cm (1/4")	Providing and fitting plastic made low down flushing cistern 13.63 litre (3 gallons) capacity, including bracket set, copper connection, etc. complete.	Providing and fitting glazed earthen ware wash hand basin 56x40 cm (22"x16") including bracket set, waste pipe and waste coupling, etc. coloured, with pedestal	Providing and fixing sliding bolt to doors:- iron sliding bolt, 12" (300 mm) long	Providing and fixing 1½" (40mm) thick solid flush door shutter sterling or equivalent with commercial ply (5 mm thick) on both sides double pressed and deodar wood lipping 1½"x3/8" (40mm x 10mm) around shutter including chromium plated fitting, iron hinges with aluminium kick plate 22 SWG on both sides & finger plate complete in all respect.	Painting old surfaces:- Painting sashes, fanlights, glazed or gauzed doors and windows:- old surface 2 coats	Painting old surfaces:- Painting doors and windows, any type: old surface 2 coats	Preparing surface and painting with emulsion paint one surface a coats	Priming coat of chalk under distantives.	or paint of wall.	petty repair to veranuori.  Petty repair to veranuori.	petty repair to main rooms.	Civil Work Description
	21.00 Nos	12.00 Nos	716.00 Nos	4.00 Nos	15.00 Nos	32.00 Nos	19.00 Nos	14.00 Nos	41.00 Nos	378.00 Sft	12,776.00 Sft	67,351.25 Sft	171,313.87 Sft	Sft	48,761.25 Sft 51241.87	Nos	Nos 13.00	Quantity

# The Islamia University of Bahawalpur Replacement of Flooring of Vice Chancellor's House at Baghdad-ul-Jadeed Campus

MRS: Jan -Jun 2020/N.S ABSTRACT OF COST

ABSTRA	CT OF COST		
Schedule Items			
Civil Work		Rs.	145,382.46
Non-Schedule Items			
Civil Work		Rs.	3,792,971.33
GRAND TOTAL (A+B)		Rs.	3,938,353.79
Add 16% PST		Rs.	630,136.61
	Grand Total	Rs.	4,568,490.39
SAY		Rs.	Rs.4,568,490

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Sub-Engineer

Assistant Engineer

Executive Engineer (M)

Technically Sanctioned for Rs.4,568,490.00

Project Director

## The Islamia University of Bahawalpur

## Replacement of Flooring of Vice Chancellor's House at Baghdad-u

	Description	Ref	Quantity	
	Civil work (Schedule)			
P	Dismantling cement concrete 1:2:4 plain.	4/19-c	438.25	Cft
2	Dismantling cement concrete with brick aggregate.	4/19-d	1484.25	Cft
3	Providing, laying, watering and ramming brick ballast 1½" to 2"(40 mm to 50 mm) gauge mixed with 25% sand, for floor foundation, complete in all respects.	10/3	1741.28	Cft
1	Civil work (Non-Schedule) Providing & Fixing Fancy Granite Marble Dado/Skirting (Coffee Brown) 3/4" thick in pigment over (1:2) C.S mortor 3/4" thick including Finishing complete in all respect and as approved by the Engineer Incharge		985.45	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		3943.16	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 mortor 3/4" thick including Finishing complete in all respect and as approved by the Engineer Incharge		418.15	Sft
The state of				

#### The Islamia University of Bahawalpur

# Resurfacing of Deer Farm & Fish Pond Road and Cat-Eyes of Main Approach Road at Baghdad-ul-Jadeed Campus

#### Estimate Based on MRS Jan to Jun, 2020/N.S

#### ABSTRACT OF COST

1) Civil Work (Schedule Items)	Rs.	2,604,108.00
2) Civil Work (Non-Schedule Items)	Rs.	285,715.00
Total	Rs.	2,889,823.00
Add 16% PST	Rs.	462,372.00
Grand Total	Rs.	3,352,195.00

Sub-Engineer

21/4/20

Assistant Engineer

ngineer | u 2000

Technically Sanctioned for Rs.3,352,195.00

# The Islamia University of Bahawalı

### Resurfacing of Deer Farm & Fish Pond Road and Cat-Eyes of N Baghdad-ul-Jadeed Campus

	Work	1801	had	ш	6	۱
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1		Description Resurfacing of road, including supply of bitumen and		
2	+ 18/8	bajri/crushed stone aggregate of approved quality, including cleaning of road surface, heating and spraying of bitumen, and spreading bajri/crushed stone aggregate and rolling with road roller (including its operation cost, fuel and hire charges, etc.) complete, including carriage of all materials to site of work.  1st Coat: 22 lbs. bitumen, and 2.5 Cft. bajri of nominal size ½" (13 mm) %Sft. or 1.07 Kg bitumen and sand 0.069 cu.m per sq.m. 2nd Coat: 14 lbs. bitumen, and 1.5 Cft. bajri of nominal size ½" (6 mm) per 0.69 Kg bitumen and 0.04 cubic metre per sq. metre.  Resurfacing of road, including supply of bitumen and bajri/crushed stone aggregate of approved quality, including cleaning of road surface, heating and	66550.00	Sft
		spraying of bitumen, and spreading bajri/crushed stone aggregate and rolling with road roller (including its operation cost, fuel and hire charges, etc.) complete, including carriage of all materials to site of work.  22 lbs. bitumen, and 2.5 Cft. bajri of nominal size ½" (13 mm) %Sft. or 1.07 Kg bitumen and sand 0.069 cu.m per sq.m.	66550.00	Sft
1	N.S	Civil Work (Non-Schedule) Providing and fixing plastic, double side Cat-Eyes (Yellow & White) with epoxy, steel nails etc (3M or equivalent) with layout, cleaning of surface complete in all respects and as per direction of engineer incharge.	960.00	No