The Islamia University of Bahawalpur <u>SUMMARY OF COST</u>

<u>Construction of Academic Block for Physics Department at</u> <u>Baghdad-ul-Jadeed Campus</u>

ENGINEER'S COST ESTIMATE

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

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

ENGINEER'S COST ESTIMATE CIVIL WORKS

ltem No.	REF. Nos CH/ITEM	Description of Items	Unit	Qty	Rate (Rs.)	Amount (Rs.)
		2023 (1st Jan-2023 to 30th Jun -2023) DISTRICT BA	HAWALPUR			
SCHED Earth V	DULE ITEMS Nork					
1	CH:3 item 47(b) P-33	Jungle clearance and removing within 100 ft. (30 m).b) thick	1000 Sft	74,000.00		
2	CH:3 item 21 P- 30	Excavation in foundation of building and other sructures, including debelling,dressing,refilling around structure with excavated eart,watering and ramming lead upto one chain 100ft and lift upto 5 ft. in ordinary soil.				
3	a)ii CH:3 item 18	By Excavator (ii) In ordinary Soil Dressing and levelling of earhtwork to designed	1000 Cft	325,800.00		
5		section, etc.Ordinary or hard soil	1000 Cft	99,800.00		
4	CH:3 item 15 P-29	Filling, watering and ramming earth under floors:				
	CH:3 item 15(i) P-29	i) with surplus earth from foundation, etc.	1000 Cft	217,200.00		
	CH:3 item 2+17 (a,b &c) P-27 + 29	i) with new earth excavated from outside,upto one mile. (1.6 Km.)	1000 Cft	295,000.00		
5	CH:3 item 25 (i) P-31	Compaction of earthwork with power road roller, including ploughing, mixing, moistening earth to optimum moisture) content in layers, etc. complete: i) 85% maximum modified AASHO dry density.	1000 Cft	74,000.00		
6	Termite CH:26 item 43 P-214	Spraying anti termite proofing by using liquid FMC Biflex 2.5%EC Mixing Ratio 1:50=137-Sft or using liquid MIRAGE Ali Akbar /RANGERS Auriga 5% SC Mixing Ability-HEXTAR Ratio 1:110=205-Sft or any other equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10-years complete in all respect .as approved by the Engineer Incharge	Per Sft	148,000.00		
Plain	and Reinforeme	ent Concrete		-,		
7	CH:6 item 5 P-41	Cement concrete plain including placing, compacting , finishing and curing complete (including screening and washing of stone aggregate):-				
	(i) (f)	Ratio 1: 4: 8 Ratio 1: 2: 4	100 Cft 100 Cft	14,450.00 24,150.00		
8	CH:6 item 6 P-42	Providing and laying reinforced cement concrete (including prestressed concrete), using coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):-				
	(a)(iii) P-43	Reinforced cement concrete in slab of rafts / strip foundation, base slab of column and retaining walls; etc and other structural members other than those mentioned in i) above not requiring form work (i.e. horizental shuttering) complete in all respects:-				
Foun	dation					
	(2) (a)(ii) P-42	Type B (nominal mix 1: 1½: 3) Reinforced cement concrete in retaining /Shear walls laid in situ or precast laid in position, or prestressed members cast in situ (Form work on both sides), complete in all respects:	Per Cft	92,500.00		
	b)i	Type B (nominal mix 1:1-1/2:3)				
		Upto 9" thick (Avg)	Per Cft	1,000.00		
	(a)(i) P-42	Reinforced cement concrete slabs, beams, girders, Lintels and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects;-				
	() () (=)	GROUND FLOOR	De Off	440.005.46		
	(a)(i)(2)	Type B (nominal mix 1: 1½: 3) FIRST FLOOR	Per Cft	110,225.46		
	(a)(i)(2)+(d)	Type B (nominal mix 1: 11/2: 3) MUMTY	Per Cft	71,931.00		
	(a)(i)(2)+(dx2)	Type B (nominal mix 1: 1½: 3)	Per Cft	6,585.00		
9	age CH:1 item 1 P-3	Carriage of 100 Cft. (2.83 cu.m) of all materials like stone aggregate, spawl, kankar lime (unslaked), surkhi, etc. or 150 Cft. (4.25 cu.m) of timber, by truck or by any other means owned by the contractor.				
		(Lead 366 kms From Sargodha to site of work)	% Cft	205,070.00		

ltem No. Steel	REF. Nos CH/ITEM Reinforcement	Description of Items	Unit	Qty	Rate (Rs.)	Amount (Rs.)
10	CH:6 item 12 (c) P-45	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars) (c) Deformed bar (Grade 60)	100Kg	1,092,585.00		
11	CH:6 item 36 (b)(i) P-48	Providing and laying damp proof course of cement concrete 1:2: 4(using cement, sand and shingle), b) with 2 coats of bitumen :- i) 11/2" thick (40 mm)	100 Sft	200.00		
12	CH:6 item 28 P-47	Providing and fixing 1/8" (3 mm) thick 3" (75 mm) wide aluminium strip on horizontal and vertical expansion joints in walls, columns, ceilings and floors etc., including cost of clips/screws etc., complete in all respects:-				
	a) b)	On interior surface (without mastic strip) On exterior surface (with mastic strip)	Per/Rft Per/Rft	500.00 500.00		
13	CH:6 item 35 (b) P-47	Providing and fixing thermopore (foamed polythene) sheet in horizontal and vertical expansion joints:	1 en/tit	300.00		
		b) 11/2" (40 mm) thick thermopore sheet	Per/Sft	2,500.00		
14 Briek	CH:6 item 15 P-45 Work	Providing and fixing ornamental cement jali 2" (50 mm) thick(1: 2: 4), without steel.	Per Sft	3,150.00		
15	CH:7 item 4 (i) P-52	Pacca brick work in foundation and plinth in:- Cement, sand mortar:-Ratio 1:6	100 Cft	10,162.00		
16	CH:7 item 5 (i) P-53	GROUND FLOOR Pacca brick work in ground floor :- Cement, sand mortar:-Ratio 1:6	100 Cft	65,574.00		
17	CH:7 item 5 (i) P-53	Pacca brick work in ground floor :- Cement, sand mortar:-Ratio 1:4 FIRST FLOOR	100 Cft	2,049.86		
18	Ch-7 item 5 (i) & 6 (i) P-53	Pacca brick work in first floor:- Cement, sand mortar:-Ratio 1:6	100 Cft	64,988.00		
19	CH:7 item 5 (I) & 6 (i) P-53	Pacca brick work in first floor :- Cement, sand mortar:-Ratio 1:4 MUMTY	100 Cft	2,049.86		
20	Ch-7 item 5 (i) & 6 (ii) P-53	Pacca brick work in second floor:- Cement, sand mortar:-Ratio 1:6	100 Cft	2,416.05		
21	Ch-7 item 9 P-54	Extra labour for arch work in brick masonry, including labour for centring and decentring.	100 Cft	250.00		
Floor 22	ing Ch-7 item 30 P-57	Supplying and filling sand under floor; or plugging in wells	100 Cft	24,500.00		
23	Ch-06 item 02	Dry rammed brick or stone ballast, 1 ¹ / ₂ " to 2"(40 mm to 50 mm) gauge.	100 Cft	42,235.08		
24	Ch-10 item 40 (a) P-72	Providing and fixing marble strip of any shade for dividing the mosaic flooring into panels a) Size 11/2" x 3/8" (40 x 10 mm)	Per Rft	1,873.37		
25	Ch-10 item 41 (b) P-72	Providing and laying Tuff pavers ,having 7000 PSI, crushing strength of approved manufacturer, over 2" to 3" sand cushion i/c grouting with sand in joints i/c finishing to require slope . complete in all respect.(50% Grey / 50% Coloured) b) 60-mm thick	P.Sft	12,500.00		
26	Ch-10 item 42 (a-1) P-73	Providing and laying superb quality Porcelain glazed tiles flooring of MASTER brand of specified size in approved design,Color and Shade with adhesive/bond over 3/4"thick (1:3) cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respect as approved and directed by the Engineer Incharge. Full body Glazed tiles (ii) 600mmx 600 mm	P.Sft	123,500.00		
27	Ch-10 item 43	Providing and laying superb quality Porcelain glazed		0,000.00		
	(a-1) P-73	tiles of Master brand, skirting/dado of specified size, Color and Shade with adhesive/ bond over 1/2"thick (1:2) cement plaster i/c the cost of and sealer for finishing the joints, cutting grinding complete in all respect as approved and directed by the Engineer Incharge. Full hody Clazad files	P.Sft	32,889,35		
28	Ch-10 item 18 P-69	Extra labour for each storey above ground, for				
29	Ch-10 item 47 (i) P-74	mosaic,conglomerate, tiles , stone and wooden floor. Providing and laying 3/4" thick full width Prepolished Marble slab for Vanities / Shelves / Treads/ Window Cills , having Uniform texture (Spotless) with adhesive bond over 3/4" thick (1:2) cement sand mortor i/c the cost of matching sealer complete in all respects as approved and <u>directed by the Engineer Incharge</u> China Verona	100 Sft	3,040.00		
30		Extra for Bevelling charges of marble edge in approved design complete in all respects <i>i/c</i> the cost of Carborandam disc as approved and directed by		,		1

ltem No.	REF. Nos CH/ITEM	Description of Items	Unit	Qty	Rate (Rs.)	Amount (Rs.)
31	Ch-10 item 49 P-74	Extra cost for making hole in Marble slab for fixtures, Sink,burners, basin Vanities i/c cost of bevelling of				
		internal edge as approved and directed by the Engineer Incharge.	Each	85.00		
32	Ch-10 item 50 (i) P-74	Providing and laying Prepolished Granite of specified thickness and shade of full width of approved quality laid with adhesive bond over 3/4" thick (1:2) cement sand mortor bed, complete in all respect as approved and directed by the Engineer Incharge (for podium, Stair steps, Risers) (i) 3/4"	P.Sft	3.876.00		
	Ch 10 item 24	thick Depuiding and loving ownersh quality Coromia tile	F.Sit	5,670.00		
33	Ch-10 item 24 (i) P-70	Providing and laying superb quality Ceramic tile floors of Master brand of specified size, Glossy/Matt/Texture of approved Color and Shade as per approved design with adhesive bond, over 3/4" thick (1;2) cement sand plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects and as approved and directed by the Engineer Incharge. 12"x18"/12"x24"/10"x24" /8"x24"/12"x36"	P.Sft	2,800.00		
34	Ch-10 item 25 (I) P-70	Providing and laying superb quality Ceramic tiles dado of Master brand of specified size,Glossy/Matt/Texture skirting/dado of approved Color and Shade with adhesive bond over 1/2"thick (1:2) cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects as approved and directed by the Engineer Incharge. 12"x18"/12"x24"/10"x24" /8"x24"/12"x36"	P.Sft	6,500.00		
	e Rendring		1.01	0,000.00		
35	Ch-11 item 10 (b) P-76	Cement plaster ratio 1:3 under soffit of RCC roof slabs only , upto 20' height. 3/8" (10 mm) thick. (ceiling plaster)	100 Sft	79,178.73		
36	Ch-11 item 9 (b) P-76	Cement plaster 1:4 on internal walls upto 20' (6 m) height, 1/2" (13 mm) thick.	100 Sft	220,555.00		
37	Ch-11 item 9 (c) P-76	Cement plaster 1:4 on external walls upto 20' (6 m) height, 3/4" (20 mm) thick.	100 Sft	129,000.00		
38	Ch-11 item 9 (c) & 28 P-76+78	Cement plaster 1:4 on external walls upto 30' (9 m) height, 3/4" (20 mm) thick.	100 Sft	12,565.00		
39	. ,	Cement plaster 1:4 on external walls upto 40' (12 m) height, 3/4" (20 mm) thick.	100 Sft	4,300.00		
Wood \ 40	Work & Door Ch Ch-12 item 61	owkat P/F 3/4" dia Heavy Duty Sliding Bolt of specified				
	(b-i) P-90	material i/c the cost of hardware complete in all respect as approved and directed by the Engineer Incharge.	Each	416.00		
41	Ch 10 itom 7(h)	iii) brass sliding bolt, 10" (250 mm) long	Lacii	410.00		
41	Cn-12 item 7(0)	Providing and fixing 1st class solid wood wrought joinery in panelled or panelled and glazed doors and windows of specified thickness with 1" thick solid wood panels with step and 1-1/2"x2-1/2" beadings all around the panels i/c the cost of Tower bolt and handles complete in all respect (Excluding the cost of sliding bolt,lock and chowkats (frame), etc.) as approved and directed by the Engineer Incharge. h) Oak/Ash wood Door 1.50" Thick	Per Sft	8,850.00		
42	Ch-12 item 17- ii, iii P-84	Providing and fixing 2" wide <u>MS Chowkat</u> <u>Singel/Double rebate</u> made of 16 SWG MS sheet pressed/welded / supported with M.S. flat 1-1/4"x1/8" i/c 6"long M.S. Flat 1"x1/8"hold fasts (6-Nos) welded/ screwed, punching of lock hole covered with MS Box,coating with antirust paint including filling with cement sand mortar (1:8) and embedding hold fast in cement concrete (1:2:4) ,complete in all respect as approved and directed by Engineer leaborge				
		i) 10.50 " wide	Per Sft	2,975.00		
Paintin	g and Warnishi	ii) 5.5 " wide	Per Sft	975.00		
43	Ch-13 item 31	Preparing surface and painting with <u>Emulsion Paint</u> :- 3 Coats New Surface	100 Sft	330,000.00		
44	Ch-7 item 38 P-79	Providing and laying Fair Face Gutka cladding laid in (1:2) cement / red posso mortar having 1/4" thick groove finish i/c cost of 8 SWG wire in shape of 8 placed horizontally and vertically at 36" and 18" c/c respectively i/c cutting charges as per approved drawing , complete in all respect as approved and directed by the Engineer Incharge. ii. 2-1/4" x 3" x 9"	P. Sft	47,500.00		

44 Ch-13 term 40 Proving and applying Multiplatty of Zmm thicknessore pattern is uniface to prepare the surface even and service complete in all \$5.51 287.000.00 44 Ch-11 term 20 Distripunction Valiable/Impleter Studies of Perform \$5.51 287.000.00 47 Ch-13 term 30 Proving and applying Wetter Studies of Perform \$5.51 85.00.00 48 Ch-13 term 31 Proving and applying Wetter Studies of Perform \$5.51 85.00.00 48 Ch-13 term 32 Distripunct and studies and Lacquire Deliab to reveal wetter studies applying Wetter and the studies of terms \$5.51 35.5622.00 48 Ch-13 term 44 Progen surface and Lacquire Deliab to reveal wetter studies approved and directed terms \$5.51 75.550.00 49 Ch-14 term 55 Proving and Lacquire terms of terms terms of the studies of terms terms \$5.50.00 73.650.00 60 Ch-9 term 5 Proving and Lacquire terms	ltem No.	REF. Nos CH/ITEM	Description of Items	Unit	Qty	Rate (Rs.)	Amount (Rs.)
property the surface even and wroch complete null spectral (2014) 297,0000 40 Ch-11 form 23 Determining and approxing autors (2014) State (2014) State (2014) 41 Ch-13 them 33 Providing and approxing autors (2014) State (2014) State (2014) State (2014) 42 Ch-13 them 33 Providing and approxing autors (2014) State (2014) State (2014) State (2014) 48 Ch-13 them 44 Propenty surface and Lacourt Polisity to rowal sealer complete in all respects approved and directed or wood sealer complete in all respects approved and directed or of them its Direct of them, its Direct of		Ch-13 item 46				()	
IP-77 Cetting 558 85.00.00 47 CP-13 fear Ponoting and packing Weather Shild Paint of mouting prepared autino of surdex, application of prime complete in all respect the Surface 2 Costs 9.0 48 Ch-15 fear Preparing surface of Surface, 20 Fear 9.0 48 Ch-15 fear Preparing surface and Lequar to make globay surface 9.0 49 Ch-15 fear Ch-16 fear Ch-16 fear Per St 15.550.00 80 off add Mater Pocofina Chen Site and Lequar to make globay surface Per St 15.550.00 80 off add Mater Pocofina Per St 15.550.00 Per St 80 off add Mater Pocofina State and the state of the the s			prepare the surface even and smooth complete in all	%Sft	267,000.00		
P-88 approved quality on softmal surface of bailing including perpendion of purises, policitant purises, policitant purises, policitant purises, policitant purises, policitant, policitan	46			%Sft	85,000.00		
P-98 woods laginars by application of multiple costs of woods saler, and papering with different no of sandpapers and Lacyura to make glossy surface finasis it be toost or doth, minute wood saled what Finasis it be toost of other. Interview, wood saled what Finasis it be toost of the same supported and directed what Finasis it be toost of the same supported and directed of the same support of the same support of the same with the finasis it be toost in the same of the same support of the same support of the same of the same support of the same support of the same of the same support of the same support of the same of the same support of the same support of the same of the same support same support of the same support	47		approved quality on external surface of building including preparation of surface, application of primer	% Sft	35,622.00		
Boding A Water Proofing Oto Status Observed 40 Ch-9 item 45 Providing and Laying Insulation Internal Earl of Extruction (c) P-86 Providing and Laying Insulation material of Extruction (c) P-86 Providing and Laying Insulation Internal Earl (c) P-86 Providing And File Control Base (c)	48		wooden grains by application of multiple coats of wood sealer, sand papering with different no of sandpapers and Lacquar to make glossy surface finish i/c the cost of cotton, thinner, wood sealer complete in all respects as approved and directed by the Engineer Inspector				
49 Ch 9 Biteri 45 Providing and Laying insulation material of Extruded Polystyree XPS in Right Insulation / Extru Board on nod or walls. Density 32:38 KgM, compressive strength 25:00 More, 8:4-alle 5 per inch thickness and water Obscription (15 by volume, cell structure boder cell) (10: bitw, cell and structure boder cell bitw, cell and respect cell and structure boder cell bitw, cell and respect cell and structure boder cell bitw, cell and respect cell and respect cell per cell and structure cell and respect cell and respect cell per cell and respect cell and respect cell and respect cell per cell and respect cell and respect cell and respect cell per cell and respect cell and respect cell and respect cell per cell and respect cell and respect cell and respect cell per cell and respect cell and respect cell and respect cell per cell and respect cell and respect cell and respect cell per cell and respect cell and respect cell and respect cell and respect cell per cell and respect cell per cell and respect cell and respect cell and respect cell per cell and respect cell and respect cell and respect cell per cell and respect cell and respect cell and respect cell per cell and respect cell and respect cell and respect cell per cell and respect cell and respect cell and respect cell per cell and respect cell and respect cell and respect cell per cell and respect cell and respect cell and respect cell per cell and respect cell and respect cell and respect cell per cell and respect and respect cell and respect cell per cell and respect and respect cell and respect cell per cell and respect and respect cell and respect cell per cell and respect and respect sea approved and respect and respect and respect sea approved and respect and respect sea approved and dincide te	Poofin	a & Wator Proof		Per Sft	15,550.00		
P-61 mm) laid over 4"(100 mm) earth and 1"(25 mm) mud + Ch-28 item plaster without Bhoos, goudd with Garetta stand 37(ii.52) 37(ii.52) 11.3 on top of RCC coord sibb, provided with 34 libs, per 97.85.0 97.85.60.01.72 Kg/Sg.m bitmen coating sand 61 Ch-9 litem 15 84.00 84.00.02 Kg/Sg.00.00.00.00.00.00.00.00.00.00.00.00.00		Ch-9 item 45	Providing and Laying Insulation material of Extruded Polystyrene XPS in Rigid Insulation / <u>Foam Board</u> on roof or walls, Density 32-38 Kg/M, compressive strength 250-400kpa,R-value 5 per inch thickness and water obsorption (1% by volume, cell structure clored cell) i/c cutting and placing in position.	100 Sft	73,650.00		
51 Ch-9 Item 15 Khuras of biok masony in cement motar Each 50.00 52 Ch-9 Item 16 Bottom Khuras of biok masony in cement motar Each 50.00 53 Ch-25 Item 59 Providing and fixing WS. OffIl fabricated with MS Source of the constraint of the constof constof constraint of the constof constraint of the constof co	50	P-61 + Ch-26 item 37(iix2)	mm) laid over 4"(100 mm) earth and 1" (25 mm) mud plaster without Bhoosa, grouted with cement sand 1:3 on top of RCC roof slab, provided with 34 lbs. per %Sft. or 1.72 Kg/Sq.m bitumen coating sand blinded.i/c P/L double layer polythene sheet 500	100 Sft	73,650.00		
P-83 Each 50.00 52 Ch-9 Item 16 Bottom Khuras of brick masonry in cement mortar 16, 4/2-4/4/* (20060x0113 mm) over 3" (75 mm) cement concrete 1:4:8. 50.00 53 Ch-25 Item 59 Providing and fixing MS. Crill fabricated with MS Size @ 4" cbr passed through punched holes in MS Patt of 1-14/*X18" to the cost of 1-14/*X18" MS patt for Frame of windows and paining 3 coat complete in all respect as approved and directed by the Engineer Incharce Per Sft 8,660.00 54 Ch-25 Item 56 Providing and fixing 2 mm thick Double Glazed Aluminium Mindows of anodize / powder coated partly fixed and partly siting using deluxe section of 100mm x 40mm x2 mm using frame (7050) at to bottom, (7050) at top & Sides made of Pakistan Cables/Alcop having Leaf Frame size 31mm x 60mm x2 mm (70505) at top & Sides n, sides fixing 3 mm thick imported thied double glass and ari tight using double ape, chemical sides , fixing 3 from thick imported thied double glass and ari tight using double ape, chemical sides , fixing 3 from thick imported thied double glass and ari tight using double ape, chemical sides , fixing 3 from thick imported thied double glass and ari tight using double ape, chemical sides , fixing 3 mproved and directed by the Engineer Per Sft 9,550.00 55 Ch-25 Item 53 Providing and fixing Aluminum frame of approved manufacturer brownze Colour / powder coated of Hardwares as approved and directed by the engineer incharae. comprises of Grass approved and directed by the engineer incharae. comprises of Grass approved and fixing 3 keel screws and brass rawel plugs, 3-Not sing steel screws and brass rawel plugs, 3-Not sing steel	51	Ch-9 item 15					
P-83 16.4%2*4%" (1200x600x13 mm) over 3" (75 mm) cement concrete 1.43. Each 50.00 53 Ch-25 titem 59 Providing and fixing MS. Grill fabricated with MS (1) Square polished Vertical/horizontal Bars of specified (1-4%7.18" to the cost of 1-14%7.18" MS partit for Frame of windows and painting 3 cost complete in all respect as approved and directed by the Engineer Inchastre. Per Sft 8.650.00 54 Ch-25 titem 69 Providing and fixing 2 mm thick Double Glazed Automitum Windows of anodize / powder coated partly fixed and partly slicing using deluxe section of 100mm x 40mm x2 mm using frame (70501) at bottom, (70502) at Top 8 Side made of Pakistan cables/Acop having Leaf Frame size 3 firms x 60mm x2 mm (70503) at top 8 and 3 firm x 60mm x2 mm (70503) at sides , fixing 5 mm thick imported title double glass and all right using double taple, chemical ships, Silicon using approved latches, wheels for charnel, stopper, brush channel angle join and hardware eVC, excluding the cost of Fy Profing). Complete in all respect as approved and directed by the Engineer Per Sft 9,550.00 55 Ch-25 titem 63 Providing and fixing 2. ¹⁰ high <u>Star Railing</u> comprising of Fiber 7 Junnihum wire guaze (Malasian) fixed in aluminum frame of approved manufacture browscc coated of size 1-1/2*X12" and thick with rubber gasket tic cost of Hardware as approved and directed by the Engineer Per Sft 4,775.00 56 Ch-25 titem 64 Providing and fixing 2. ¹⁰ high <u>Star Railing</u> comprising of non margine (304) Stain less steel 2' dia pipe railing of 18 SWG welded with veritical posts of 2' dia stain				Each	50.00		
53 Ch-25 item 50 Providing and fixing MS. Grill fabricated with MS 63 (0) Square polished Vertical/hotzontal Bars of specified size @ 4* Oc' passed through punched holes in MS 9-209 Patt of 1-1/4*x1/8* ic the cost of 1-1/4*x1/8* MS patt for Frame of windows and painting 3 coat complete in all respect as approved and directed by the Engineer Inchance. Per Stt 8,650.00 54 Ch-25 item 56 Providing and fixing 2 mm thick. Double Glazed Amare. Per Stt 8,650.00 54 Ch-25 item 56 Providing and fixing 2 mm thick. Double Glazed Staten CoBolt and party sliding using deluxe section of 100mm x40mm x2 mm (70501) at clef Frame size 3 mm x 60mm x2 mm (70503) at clef arame size 3 mm x 60mm x2 mm (70503) at clef aram size 3 mm x 60mm x2 mm (70503) at clef aram size 3 mm x 60mm x2 mm (70503) at clef aram size 3 mm x 60mm x2 mm (70503) at clef aram size 3 mm x 60mm x2 mm (70503) at clef aram size 3 mm x 60mm x2 mm (70503) at clef aram size 3 mm x 60mm x2 mm (70503) at clef aram size 3 mm x 60mm x2 mm (70503) at clef aram size 3 mm x 60mm x2 mm (70503) at clef aram size 3 mm x 60mm x2 mm (70503) at clef aram size 3 mm x 60mm x2 mm (70503) at clef aram size 3 mm x 60mm x2 mm (70503) at clef aram size 3 mm x 60mm x2 mm (70503) at clef aram size 3 mm x 60mm x2 mm (70503) at clef aram size 3 mm x 60mm x2 mm (70503) at clef aram size 3 mm x 60mm x2 mm (70503) at clef aram size 1 mm x 60mm x2 mm (70503) at clef aram size 3 mm x 60mm x2 mm (70503) at clef aram x 2 mm x 60mm x2 mm (70503) at clef aram size 1 mm x 60mm x2 mm (70503) at clef aram size 1 mm x 60mm x2 mm (70503) at clef aram size 1 mm x 60mm x2 mm (70503) at clef aram x 60mm x2 mm (70504) clef arad x firs x 1 mx x 60mm x2 m	52		1:6, 4'x2'x4½" (1200x600x113 mm) over 3" (75 mm)	Each	50.00		
(i) Square polished Vertical/hotzontal Bars of specified P-209 size Q + Co'c passed through punched holes in MS Patti of 1-11/4*1/8" to the cost of 1-11/4*1/8" MS patti for Frame of windows and painting 3 coat complete in all respect as approved and directed by the Engineer Incharace (i) 3/8" Squar Bars Per Sit 8.650.00 54 Ch-25 item 56 Providing and fixing 2 mm thick Double Glazed Auminium Windows of analyze section of 100mm x 40mm x2 mm using frame (70501) at to to (70502) at Top 8 Side made of Pakistan Catels/Alcop having Leaf Frame size 31mm x 60mm x2 mm (70506) at Top 8 Bottom, 35mm x 60mm x2 mm (70506) at Top Bottom, 35mm x 60mm x2 mm (70506) at tops Bottom, 35mm x 60mm x2 mm (70506) at tops Bottom, 35mm x 60mm x2 mm (70506) at tops etc. (scherolar strips, Silicon using approved latches, wheels for channel, stopper, brush channel angle joint and hardware etc. (sculding the cost of Fiy Proofing). Complete in all respect as approved and directed by the Engineer Per Sit 9,550.00 55 Ch-25 item 53 Providing and fixing Auminum Fys Green. Per Sit 4,775.00 56 Ch-25 item 44 Providing and fixing Auminum Fys Green and all respect as approved and directed by the Engineer Per Sit 4,775.00 57 Ch-25 item 44 Providing and fixing AUMINUM Fys Green and All respect as approved and directed by the engineer incharoa.complete in all respects as approved and directed by the engineer incharoa.comotels in all respect. Per S			Providing and fixing M.S. Grill fabricated with MS				
54 Ch-25 item 66 Providing and fixing 2 mm thick. Double Glazed Aluminium Windows of anodize / powder coated partily fixed and party sliding using deluxe section of 100mm x 40mm x2 mm using frame (70501) at bottom, (70502) at Top & Side made of Pakistan Cables/Alcop having Leaf Frame size 31mm x 60mm x2 mm (70506) at Top & Bottom, 35mm x 60mm x2 mm (70506) at Top & Bottom, 35mm x 60mm x2 mm (70506) at top & Side made of Pakistan 60mm x2 mm(70505) at sides , fixing 5 mm thick imported tinted double glass and air tight using double tape, chemical sittps, Silicon using approved latches, wheels for channel, stopper, brush channel angle joint and hardware etc. (excluding the cost of Fly Proofing). Complete in all respect as approved and directed by the Engineer Per Sft 9,550.00 55 Ch-25 item 53 Providing and fixing <u>Aluminum Fly Screen</u> comprising of Fiber / Aluminum Fly Screen comprising of Fiber / Aluminum Fly Gazen (Malasian) fixed in aluminum free of approved manufacture brownze Colour / powder coated of size 1 - 1/2 x1/2' and thick with rubber gasket lic cost of Hardwares as approved and directed by the engineer incharae. complete in all respect. Per Sft 4,775.00 56 Ch-25 item 64 Providing and fixing <u>2'-9' high Stair Railing</u> comprising of non magnetic (304) Stain less steel 2' dia pipe railing of 18 SWC welded with vertical posts of 2' dia tasinless steel round/ Squar pipe @ 2-1 d c fixed on altemate steps with 3'' long steel screws and brass rawel plugs , 3-Nos diagonal stainless steel pipes of 1/2' dia passes through goties fixed on vertical post l/c stainless steel welding, fixing & polishing complete in all respects as approved and directed by the Ennineet charace. Per Rft 400.00 57		(i)	Square polished Vertical/horizontal Bars of specified size @ 4" c/c ' passed through punched holes in MS Patti of 1-1/4"x1/8" i/c the cost of 1-1/4"x1/8" MS patti for Frame of windows and painting 3 coat complete in all respect as approved and directed by the Engineer				
P-209 Aluminium Windows of anodize / powder coated partly fixed and party sliding using deluxe section of 100mm x 40mm x2 mm using frame (70501) at bottom, (70502) at Top & Side made of Pakistan Cables/Alcop having Leaf Frame Size 31mm x 60mm x2 mm (70506) at Top & Bottom, 35mm x 60mm x2 mm (70505) at center and 35mm x 60mm x2 mm (70505) at center and 35mm x 10mm x 60mm x2 mm (70503) at sides , fixing 5 mm thick imported tinted double glass and air tight using double tape, chemical strips, Silicon using approved latches, wheels for channel, stopper, brush channel angle joint and hardware etc. (excluding the cost of FLP Proofing). Complete in all respect as approved and directed by the Engineer Per Sft 9,550.00 55 Ch-25 item 53 Providing and fixing Aluminum FLY Screen P-208 Per Sft 9,550.00 56 Ch-25 item 64 Providing and fixing 2:9" high Stair Railing comprising of FIber / Aluminum frame of approved manufacturer broware Colour, powder coated of size 1 - 1/2"x1/2" and thick with rubber gasket <i>ic</i> cost of Hardwares as approved and directed by the ensineer incharoe.comolete in all respect. Per Sft 4,775.00 56 Ch-25 item 64 Providing and fixing 2:9" high Stair Railing comprising of non magnetic (304) Stain less steel 2" dia pipe railing of 18 SWG welded with vertical posts of 2" dia stainless steel round/ Squar pipe @ 2.4t c/c fixed on alternate steps with 3" long steel screws and brass rawal plugs, 3-Nos diagonal stainless steel pipes of 12" dia passes through gotes fixed on vertical post, <i>ic</i> stainless steel funchare. Per Rft 400.00 57 Ch-9 Item 448 (iii) P-66 Providing and fixing False Ceiling co			(i) 3/8" Squar Bars	Per Sft	8,650.00		
55 Ch-25 item 53 Providing and fixing Aluminum Fly Screen comprising of Fiber / Aluminum wire guaze (Malasian) fixed in aluminum frame of approved manufacturer brownze Colour / powder coated of size 1- 1/2"x1/2" and thick with rubber gasket i/c cost of Hardwares as approved and directed by the engineer incharge. complete in all respect. Per Sft 4,775.00 56 Ch-25 item 64 Providing and fixing 2'-9" high Stair Railing comprising of nor magnetic (304) Stain less steel 2" dia pipe railing of 18 SWG welded with vertical posts of 2" dia stainless steel round/ Squar pipe @ 2-ft c/c fixed on alternate steps with 3" long steel screws and brass rawal plugs, 3-Nos diagonal stainless steel pipes of 1/2" dia passes through goties fixed on vertical post, i/c stainles steel welding, fixing & polishing complete in all respects as approved and directed by the Engineer Incharge. Per Rft 400.00 57 Ch-9 item 48 (iii) P-66 Providing and fixing False Ceiling Gypsum board laminated sheet of size 2'x2'/2'x3'/ 3'x3'of specified design and thickness i/c cost of fixtures i.e galvanized angle 1" x 1" and 1'z" x 1" both at 4' c/c (made of Taiwan CKM or equivalent), hanging with G.I/Copper wire 16 SWG, G.I hook, Rawal Plug etc: complete in all respects as approved and directed by the Engineer Incharge. Per Rft 400.00	54		Aluminium Windows of anodize / powder coated partly fixed and party sliding using deluxe section of 100mm x 40mm x2 mm using frame (70501) at bottom, (70502) at Top & Side made of Pakistan Cables/Alcop having Leaf Frame size 31mm x 60mm x2 mm (70506) at Top & Bottom, 35mm x 60mm x2 mm (70505) at center and 35mm x 60mm x2 mm(70505) at center and 35mm x 60mm x2 mm(70503) at sides , fixing 5 mm thick imported tinted double glass and air tight using double tape, chemical strips, Silicon using approved latches, wheels for channel, stopper, brush channel angle joint and hardware etc.(excluding the cost of Fly Proofing). Complete in all respect as approved	Per Sft	9,550.00		
P-210 comprising of non magnetic (304) Stain less steel 2" dia pipe railing of 18 SWG welded with vertical posts of 2" dia stainless steel round/ Squar pipe @ 2-ft c/c fixed on alternate steps with 3" long steel screws and brass rawal plugs , 3-Nos diagonal stainless steel pipes of 1/2" dia passes through goties fixed on vertical post, i/c stainles steel welding, fixing & polishing complete in all respects as approved and directed by the Engineer Incharge. Per Rft 400.00 57 Ch-9 item 48 (iii) P-66 Providing and fixing False Ceiling comprises of Gypsum board laminated sheet of size 2'x2'/2'x3'/ 3'x3'of specified design and thickness i/c cost of fixtures i.e galvanized angle 1" x 1" at wall sides, galvanized tee 1¼" x 1"and 1 ½" x 1" both at 4' c/c (made of Taiwan CKM or equivalent), hanging with G.I/Copper wire 16 SWG, G.I hook, Rawal Plug etc: complete in all respects as approved and directed by the Engineer Incharge (Eor L abs)	55		comprising of Fiber / Aluminum wire guaze (Malasian) fixed in aluminum frame of approved manufacturer brownze Colour / powder coated of size 1- 1/2"x1/2" and thick with rubber gasket i/c cost of Hardwares as approved and directed by the				
(iii) P-66 Gypsum board laminated sheet of size 2'x2'/2'x3'/ 3'x3'of specified design and thickness i/c cost of fixtures i.e galvanized angle 1" x 1" at wall sides, galvanized tee 1¼" x 1"and 1½" x 1" both at 4' c/c (made of Taiwan CKM or equivalent), hanging with G.I/Copper wire 16 SWG, G.I hook, Rawal Plug etc: complete in all respects as approved and directed by the Engineer Incharge (For Labs)	56		comprising of non magnetic (304) Stain less steel 2" dia pipe railing of 18 SWG welded with vertical posts of 2" dia stainless steel round/ Squar pipe @ 2-ft c/c fixed on alternate steps with 3" long steel screws and brass rawal plugs , 3-Nos diagonal stainless steel pipes of 1/2" dia passes through goties fixed on vertical post, i/c stainles steel welding, fixing & polishing complete in all respects as approved and	Per Rft	400.00		
	57		Gypsum board laminated sheet of size 2'x2'/2'x3'/ 3'x3'of specified design and thickness i/c cost of fixtures i.e galvanized angle 1" x 1" at wall sides, galvanized tee 1¼" x 1"and 1½" x 1" both at 4' c/c (made of Taiwan CKM or equivalent), hanging with G.I/Copper wire 16 SWG, G.I hook, Rawal Plug etc: complete in all respects as approved and	Per Sft	50,786.00		-

ltem No.	REF. Nos CH/ITEM	Description of Items	Unit	Qty	Rate (Rs.)	Amount (Rs.)
58	Ch-12 item 7-a-i P-81	Providing and fixing 1st class solid wood wrought joinery in panelled or panelled and glazed doors and windows of specified thickness with 1" thick solid wood panels with step and 1-1/2"x2-1/2" beadings all around the panels i/c the cost of Tower bolt and handles complete in all respect (Excluding the cost of sliding bolt,lock and chowkats (frame), etc.) as approved and directed by the Engineer Incharge				
		Deodar wood Door: 2" thick (50 mm) (For	Per Sft	240.00		
		Total "A"(Schedule items) C/o to Summary of Cost:				
NON S	CHEDULE ITEM	S Flooring				
		Excavation Upto any Depth				
1	N.S	Structural Excavation in any kind of soil above / below water level for levelling and grading of building, for raft / foundations and other structures upto any depth (Below 5' Feet), and disposal of unsuitable / surplus excavated material outside the project premises at any lead, including restoration of any damages during excavation is the responsibility of contractor complete in all respects as per Specifications and as per approval of The Engineer.	Per/Cft	113,871.25		
2	N.S	Providing and fixing UPVC Doors 38mm thickness i/c deluex matching color UPVC Frame (matt or glossy finish) having color (whiteGray-Marble Gray-Oak Wood- Dard Oak Wood, Coffee Wood Honey Pine Wood-Mahagony-Marry Gold-Chocolate Brown- Honey Dew) i/c all accessories complete in all respect as approval by the Engineer Incharge.	Per/Sft	965.00		
3	N.S	Providing and fixing Handle lock (Hiluke/DAF/Khas or equivalent), complete in all respect as per specification and as approved by the Engineering Incharge	Each	350.00		
4	N.S	Providing & Fixing Cabinet consisting of lamination board 3/4" thick for leaves, kail wood frame 2.50" x 1", Gola for 'leaf 3/4" x 3/4" including sprit polish for gola complete in all respects as per design, drawing & pattern as approved by the 'engineer Incharge (Cabinet Down portion)	Per/Sft	500.00		
5	N.S	Providing & Fixing Cabinet Upper Portion consisting of lamination board 3/4" thick box and leaves, Partal wood frame 3" x 1", Gola for 'leaf 3/4" x 3/4" including siprit polish for gola complete in all respects as per design, drawing & pattern as approved by the Engineer Incharge.	Per/Sft	300.00		
6	N.S	Providing & Fixing Looking Glass 5-mm thick best quality,complete in all respect as per specifications and drawings and as approved by the Engineer incharge	Per/Sft	320.00		
7	N.S	Providing and fixing Steel Floor trap Jali complete in all respect as per specification and as approved by the Engineering Incharge. Total "B"(Schedule items) C/o to Summary of Cost:	Each	80.00		
		Net Total (A+B)				

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

ENGINEER'S ESTIMATE

INTERNAL PUBLIC HEALTH WORK

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

ltem No.	REF. Nos CH/ITEM	Description of Items	Unit	Qty	Rate (Rs.)	Amount (Rs.)
9	Ch 23 item 46/P-158	Providing and fixing CP heavy duty brass Ball valve with CP handle of specified diameter made of Faisal/Sonex / Master best quality or equivalent complete in all respect as approved and directed by the Engineer Incharge.				
		i) 1" dia	Each	16		
		ii) 1-1/4" dia	Each	12		
		ii) 1-1/2" dia	Each	5		
		iii) 2" dia	Each	3		
10	Ch 19 item 47/P-130	Providing, fixing, testing and commissioning of μ- PVC (Unplasticized polyvinyl Chloride) Nikasi/ waste pipe make of dadex /Popular/Beta/BBJ plain /socket ended conforming to code EN-1401 of specified SDR (Standard Dimension Ratio) including the cost of specials and Solvents complete in all respect as approved and directed by the Engineer Incharge.				
	a)	Type (SDR 41/SN-4)				
		i) 3" (90 mm)	Per Rft	500		
		ii) 4"(110 mm)	Per Rft	1500		
		iii) 6" (160 mm)	Per Rft	200		
11	Ch 19 item 50 P-131	Providing, laying, testing and commissioning underground Yellow Polyethelene flexible gas pipe Tubing of required IPS(Iron Pipe Size) in the trenches, made of (Dadex/ Popular / Beta/ BBJ) for Gas supply i/c the cost of solvent and specials complete as approved and directed by the Engineer Incharge. SDR-11				
		(i) 1-1/4"	Der Dft	000		
		(ii) 1"	Per Rft	620		
		Sewerage System	Per Rft	1288		
12		Providing, fixing, testing and commissioning of µ- PVC (Unplasticized polyvinyl Chloride) Nikasi/ waste pipe Fittings make of dadex /Popular/Beta/BBJ conforming to code EN-1401 ncluding the cost of Solvents complete in all respect as approved and directed by the Engineer Incharge.				
		(a) P-Trap				
		(i) 4" dia	Each	175		
		(c) Vent Cowel	Laon	175		
		(i) 3" dia	Each	20		
12	Ch 19 item 13-ii P-126	Providing and fitting plastic made low down flushing cistern 13.63 litre (3 gallons) capacity, including bracket set, copper connection, etc. complete.ii) coloured		32		

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

ENGINEER'S ESTIMATE

EXTERNAL PUBLIC HEALTH WORK

ltem No.	REF. Nos CH/ITEM	Description of Items	Unit	Qty	Rate (Rs.)	Amount (Rs.)
MRS,	1st BI-ANNU	JAL-2023 (1st Jan-2023 to 30th Jun -2023) DISTRIC	T BAHAW	/ALPUR		
Scheo	dule Items (A	\overline{v}				
		Water Supply System (For Pipe Line)				
1	Ch.3 Item 44/P-33	Excavation of trenches in all kinds of soil, except cutting rock, for watersupply pipelines upto 5 ft. (1.5 m) depth 8.1 after laying of pipe line, which is from ground level, including trimming, dressing sides, payable separately. leveling the beds of trenches to correct grade and cutting pits for joints, etc. complete in all respects.		8500		
		Sewerage System (For Pipe Line)				
2	Ch 3 item 42(i)/P-32	Earthwork excavation in open cutting for sewers and manholes as shown in drawings including shuttering and timbering, dressing to correct section and dimensions according to templates and levels, and removing surface water, in all types of soil except shingle, gravel and rock:-				
		i) 0 ft. to 7.0 ft. (0 to 2.10 m) depth	1000 Cft	10250		
3	Ch 7 item 30/P-57	Supplying and filling sand under floor; or plugging in wells	100 Cft	5500		
4	Ch 23 item	Providing, laying, testing and commissioning of				
	47/P-159	POLYPROPYLENE RANDOM COPOLYMER (PPRC) water supply pipe made of (Dadex /Popular/ Beta / BBJ) with specified pressure rating PN (PRESSURE NOMINAL)and conforming to DIN 8077-8078 code i/c cost of solvent, specials,making jharries complete in all respect as approved and directed by Engineer Incharge. (Internal/External Diameters mentioned).				
	b)	PN-20 pipe				
	,	(2") 63 mm	Per Rft	1000		
5	Ch 23 item 46/P-159	Providing and fixing CP heavy duty brass Ball valve with CP handle of specified diameter made of Faisal/Sonex / Master best quality or equivalent complete in all respect as approved and directed by the Engineer Incharge.				
		ii) 2-1/2" dia	Each	1		
6	Ch 21 item 3/P-136	Providing and laying R.C.C. pipe sewers, moulded with cement concrete 1:11/2:3 conforming to ASTM Specification C-76-20, Class II. Wall B, including carriage of pipe from factory to site of work, lowering in trenches to correct alignment and grade, jointing with rubber ring,cutting pipes where necessary, testing, etc., complete				
		i) 310 mm (12") i/d	Per Rft	900		1
		Total "A"(Schedul	e items) C	C/o to Sumi	mary of Cost	:

ltem No.	REF. Nos CH/ITEM	Description of Items	Unit	Qty	Rate (Rs.)	Amount (Rs.)
MRS,	1st BI-ANN	NUAL-2023 (1st Jan-2023 to 30th Jun -2023) DISTRICT BAHAV	VALPUR			
1	24/3	Electrical Work Supply and erection of PVC pipe for wiring recessed in walls, including inspection boxes, pull boxes, hooks, cutting jharries,and repairing surface, etc., complete with all specials. i) 3/4" i/d (20 mm) ii) 1" i/d (25 mm) iii) 1.50" i/d (40 mm) iv) 2" i/d (50 mm)	Per M Per M Per M Per M	13704.00 M 6669.00 M 1800.00 M 2000.00 M		
2	24/6 ii	Supply and erection of PVC pipe for recessed wiring main and submain) purpose, i/c bends, specials etc in floor, walls or trenches: 3" i/d (80 mm)	Per M	2500.00 M		
3	24/10-a	Supply and erection of single core PVC insulated copper conductor cables, in 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:	Per M			
		 i) 3/0.74 mm (3/0.029") ii) 7/0.74 mm (7/0.029") iii) 7/0.91 mm (7/0.036") iv) 7/1.12 mm (7/0.044") v) 7/1.63 mm (7/0.064") vi) 19/1.32 mm (19/0.052") vii) 19/1.63 mm (19/0.064") 	Per M Per M Per M Per M Per M Per M	41112.00 M 10864.00 M 16816.00 M 480.00 M 400.00 M 4500.00 M		
4	24/13	Supply and erection of copper conductor cables for service connection, in prelaid pipe/G.I. wire/trenches, etc. (rate for cable only):-PVC insulated, PVC sheathed 4 core, 600/1000 volt non armoured cable: i) 7/1.63 mm (7/0.064") ii) 19/1.32 mm (19/0.052")	Per M Per M	500.00 M 500.00 M		
5	24/30	Supply and erection of ceiling rose, bakelite.	Each	2320.00 No		
6	24/103	P/F PVC double layer Switch kit Faceplate with specified switch holes i/c the cost of switches / sockets / dimmer made of Hi-Life / Bush / Schenider, screws complete as approved and directed by the Engineer Incharge a) One way Gange Switch Small				
		i) 02 Gange ii) 03 Gange iii) Three pin Light Plug 10/13 Amp iv) Fan Dimmer v) Three Pin Power Plug 15-32 Amp Large	Each Each Each Each Each	20.00 No 20.00 No 700.00 No 200.00 No 320.00 No		
		i) 04 Gange ii) 05 Gange iii) 06 Gange	Each Each Each	142.00 No 50.00 No 220.00 No		
7	24/102	Providing and fixing Copper winded Exhaust fan with louver and shutter made of Pak/Younas/G.F.C. i/c the cost of necessary cable and hardware for connection from ceiling rose complete as approved and directed by Engineer Incharge. a) Plastic body i) 12" dia	Each	100.00 No		
8	24/86	Suppling,Installation and comissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY /SIEMEN GERMAN/TERASAKI JAPAN/ ABB SWITZERLAND in prelaid DBs and Panels i/c the cost of screwes,necessary w wire complete in all respect as approved and directed by the Engineer Incharge a) Single Pole				
		6-40 Amp (6 KA)	Each	1100.00 No		

ltem No.	REF. Nos CH/ITEM	Description of Items	Unit	Qty	Rate (Rs.)	Amount (Rs.)
9	24/87	Supplying ,Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge a) Tripple Pole i) 15-100 Amp(18 KA) ii) 125-250 Amp(18 KA) iii) 300-630 Amp(36 KA)	Each Each Each	60.00 N 60.00 N 4.00 N	D	
10	24/88 a-x	Supplying,Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/ABB SWITZERL(with adjustable Thermal-Magnetic Trip) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge Tripple Pole With Adjustable Thermal-Magnetic Trip /Electronic Trip (60-100%) 630-1600 Amp(50 KA)	Each	2.00 N	D	
11		 Providing and fixing DB/Panel accessories of required rating and size i/c copper screws of approved brand Complete in all respect as approved and directed by the Engineer Incharge i) Selector Switch ii) Current Transformer Coil (Make: Metelx/Fico) iii) Digital Voltmeter (0-600 Volt) iv) Digital Ammeter (0-9999 Amp) v) LED Phase Indicator vi) Exhaust Fan with Louvers (Make: Imported/Plastim) 	Each Each Each Each Each Each	8.00 N 6.00 N 4.00 N 4.00 N 12.00 N 4.00 N		
12	24/90	P/F wall mounted DB (Distribution Board) made with 16SWG Sheet (Recessded/Surface mounted Type), Powder coated Paint, i/c the cost of Lock, Indication lights, Thimble, Copper Comb, Wiring, Netural & Earth Bar, Door Earthing, Digital Voltmeter, Digital Ammeter,Volt Selector Switch,Ammeter selector switch,Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately) i) 6" Deep 75~100A ii) 12" Deep 125~150A	Per Cft Per Cft	80.00 C 25.00 C		
13	24/91 i-b	P/F floor mounted Electric Panel board of required depth and size, fabricarted with 14SWG M.S sheet (Indoor/Outdoor Type),derusting, zinc Phosphated, finish with electro static powder coating in approved colour i/c the cost of Lock, Indication lights, thimbles, Copper Comb, Wiring, Netural & Earth Bar, glands,Current Transformers of specified capacity ,Door Earthing, Brass glands,bus bars,controles complete in all respects as approved and directed by the Engineer Incharge (Breakers will be Paid Separately). LT Switchboards 3.00 Ft deep 1600~2000A	Per Cft	386.00 C	ft	
14		P/F PVC concealed Switch kit Box i/c the cost of screws complete as approved and directed by the Engineer Incharge i) Small ii) Large	Each Each	1420.00 N 675.00 N		
1	N.S	Electrical Work (Non-Schedule) Supply & installation of LED 24W Down Light (Surface Mounted, 220V~) i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips Meson or Equivalent)	Each	985.00 N	0	

ltem No.	REF. Nos CH/ITEM	Description of Items	Unit	Qty	Rate (Rs.)	Amount (Rs.)
2	N.S	Supply & installation of LED 600 x 600mm Ceilling Panel Light 36W (220V~, CW or WW) i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips RC048B or Equivalent)	Each	1000.00 N	10	
3	N.S	Supply & installation of LED search light 100W (220V~, CW or WW) with fitting arrangement for installation on walls, parapet, pole or etc. i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips BVP 151 or Equivalent)	Each	30.00 N	ю	
4	N.S	Providing & Fixing of LED Wall Light 15 Watt i/c any accessories (i.e. screw. Rawl plug or steel nail, etc.) as required at site. Complete in all respect as directed and approved by the Engineer Incharge. (WL008C OVAL Philips)	Each	80.00 N	ю	
5	N.S	Supply & installation of Wall Mounted LED Batten Light 20W (220V~, 6500K) i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips Slimline or Equivalent)	Each	70.00 N	ю	
6	N.S	Supply & installation of PVC Fan Box with iron bar i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge. (GM, Bita or equivalent)	Each	250.00 N	o	
7	N.S	Supply & installation of Ceiling Fans, 56" sweep copper winding i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Royl Fan/Deluxe, Indus/Supreme, Pak Fan/Deluxe or equivalent)	Each	250.00 N	ю	
8	N.S	Supply & installation of 2' x 2' False Ceiling Fan 18" swipe (99.99% Copper), remote controlled i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Royal, Super-asia or Equivalent)	Each	150.00 N	ю	
9	N.S	Supply & installation of Wall Bracket Fan 24" (99.99% Copper) i/c any accessories (i.e. mounting screws & etc) as required at site. Complete in all respect as directed and approved by the Engineer Incharge (Younis, Tamoor, Pakfan or Equivalent)	Each	14.00 N	10	
10	N.S	Providing and Laying earthing for Electric Machines I/c boring up to moisture level (up to 60' below ground level) 4" i/d including copper strip 14" x 2" x 1/4" (350 x 50 x 6 mm) connecting with 1 Nos.bare copper wire of No.8 SWG to be run in PVC pipe 20mm i/d, 11/4" i/d Gl pipe 5' long, Gl tee & plug for watering also includs common salt, Lime (slaked) & charcoal around copper strip I/c connecting with Electric machine. Complete in all respects as approved and as directed by the opginger inspector	Each	8 00 N		
		directed by the engineer incharge. FIRE ALARM SYSTEM	Each	8.00 N	10	
1	N.S	FIRE ALARM CABLE Supply, Installation and commissioning of wiring for FACP Power from respective DB to Fire Alarm FACP with 3C, 2.5 Sq.mm with drain wire, Fire Resistant Shielded Cable (Fire Rating for 2 hours) in prelaid conduit from preliad Conduit. Make Delpro (UK), B Belden as approved by consultants, Complete in all respect	Per Rft	150.00 F	ift	

ltem No.	REF. Nos CH/ITEM	Description of Items	Unit	Qty		Rate (Rs.)	Amount (Rs.)
2	N.S	Supply, Installation and commissioning of wiring for FACP to Fire Alarm System as per drawing wired with 2C, 1.5 Sq.mm with drain wire, Fire Resistant Shielded Cable (Fire Rating for 1 hours) in prelaid conduit from fire Alarm Control Panel to all Smoke Detector/ Heat Detector / Sounder & Maunal Devices, Devices upto 180 units in one Loop, including all installation accessories.Make Delpro (UK) / Belden/ Covican (Italy) or approved equilvent approved by consultants, Complete in all respect	Per Rft	7580.00	Rft		
3	N.S	Supply, installation and connecting of non-addressable manual call stations press glass type with test dey, suitable for surface or flush mounting Model DL-MCP-1010 make Delpro (UK), or Honeywell (Esser) incluiding cost of all other accessories as required All equipped as per specifications, complete in all respects.	Each	20.00	No		
4	N.S	Supply, installation and connections of Non- Addressable Type Indoor Loop Powered electronic Sounder/ Buzzer Model DL-BZ-1121 and minimum sound output 100dB at 1 meter with frequencies for variety of sounds as required. make Delpro (UK) or Honeywell (Esser) inclulding cost of all other accessories as required. All equipped as per specifications, complete in all respects.	Each	20.00	No		
5	N.S	Supply, installation and connections of Supply, installation and connections of Non- Addressable Optical Smoke Detectors Model DL-SM-1221 incorporating an LED indication located in labyrinth with in the housing of the detector. Sensing unit. make Delpro (UK), or Honeywell (Esser) inclulding cost of all other accessories as required. All equipped as per specifications, complete in all respects.	Each	350.00	No		
6	N.S	Supply, installation and connections of Non-Addressable Heat Detectors Model DL-HD-1225 incorporating an LED indication located in labyrinth with in the housing of the detector. Sensing unit. make Delpro (UK), or Honeywell (Esser) inclulding cost of all other accessories as required. All equipped as per specifications, complete in all respects.	Each	8.00	No		
7	N.S	Supply, installation and connecting of non-addressable fire alarm of following mentioned channel / zone. Separate bell alarming in each zone indication of point 48 to 72 hours power backup. Short/open circuit indications LED display / power fault, zone isolated test make Model DL-FAP-2414 or Honeywell (Esser) including cost of all other accessories as required. All equipped as per specifications, complete in all respects. as per NFPA-72/EN-54 12 Zone	Each	1.00	No		
8	N.S	Supply, installation, testing and factory fabricated of PVC / MS junction box 16 SWG duly painted with antirust paint and further two coats of enamelled paint of approved colour including cost of earth terminal making holes of all sides to pull Fire Alarm cables complete. 4"x7". manufactured by PEL, Technobuild, Ibbad Switchgear or Eqv.	Each	1.00	No		
		External Electrical Work					
1	3/1-b	Earthwork excavation underessed lead upto a single throw of Kassi, phaorah or shovel:- In ordinary soil.	%o Cft	9752.00	Cft		
2	24/12	Supply and erection of single core PVC insulated, PVC sheathed copper conductor, 600/1000 volts grade cable, in prelaid G.I. pipe/M.S. conduits/PVC pipe/G.I. wire/trenches etc (rate for cable only):- 240 mm sq (37/0.114)	Per M	800.00	М		

ltem No.	REF. Nos CH/ITEM	Description of Items	Unit	Qty	Rate (Rs.)	Amount (Rs.)
3	24/158	Supply, installation, testing, commissioning and termination of 8.7/15kV,AL/XLPE/SWA/PVC three Core (MV cables) along with cable glands, in already installed cable trench/cable ladder/cable tray/duct bank. (Armoured) 70mm sq 95 mm sq	Per M Per M	400.00 M 250.00 M		
4	24/105	Supply, insatllation, commissioning and testing of oil cooled type, Step down Power Transformer of specified rating,11/0.415 kV, i/c the cost of lifting hooks, thermometers, LT & HT bushing 5-steps, tap changer, imported double float buchholz relay, 2 earthing terminals, roller wheels, connecting terminals for cables M.S box on transformer in order to cover complete L.T side, all necessary materials required for connections on H.T & L.T side, rated voltage 11000/415/240 V impedance 6.25% or as specified by WAPDA/IEC system earth: Delta / Star, neutral solidly earthed, i/c Wapda testing charges,complete in all respects made of PEL, Siemens, as approved and directed by the Engineer Incharge 400 KVA	Each	2.00 No		
1	N.S	External Electrical (Non-Schedule) Supply & installation of 11-KV Dropout Fuse assemblies Set i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge	Each	2.00 No		
2	N.S	Supply & Installation of 11KV Pin Insulator i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge.	Each	6.00 No		
3	N.S	Supply & installation of Creosoted Wooden cross arm on steel structure pole with galvanized steel bracing & bolts i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge.	Each	4.00 No		
4	N.S	Supply and installation of 70mm ² -120mm ² , Aluminum Alloy Parallel Groove Clamp complete with nut/bolts i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge.	Each	6.00 No		

	Reff.	Description	Unit	Quantity		Rate	Amount
MR	S, 1st B	I-ANNUAL-2023 (1st Jan-2023 to 30th Jun -2023) DISTRICT BAHA	WALPUF	र			
		IT DATA CABELING SYSTEM					
1		Supply and erection of PVC pipe for wiring recessed in walls,					
		including inspection boxes, pull boxes, hooks, cutting					
		jharries,and repairing surface, etc., complete with all specials.					
		i) 3/4" i/d (20 mm)	Per M	3000.00	М		
		ii) 1" i/d (25 mm)	Per M	3000.00	М		
		iii) 1.50" i/d (40 mm)	Per M	1000.00	М		
		iv) 2" i/d (50 mm)	Per M	1000.00	М		
2	24/104	P/F PVC concealed Switch kit Box i/c the cost of screws					
		complete as approved and directed by the Engineer Incharge					
		i) Small	Each	400.00	No		
		ii) Large	Each	400.00	No		
3	24/106	Supply, Installation and commissioning of wiring with 4-pair					
		data Cable, 23 AWG UL/EN listed cable * Conforming to					
		following standards: TIA/EIA 568 / ISO/IEC 11801, in prelaid					
		conduit / cable tray from including all accessories,					
		Manufacturer/OEM Authorization, Make: Schneider / i-connect					
		UK/3M Corning USA/ D-Link/ Pollo Australian or equivalent					
		complete in all respect as approved and directed by					
		Engineer Incharge.					
		a) UTP (Unshielded Twisted pair)					
		(i) CAT-6 (Min.1G @ 250MHz or higher)	Per M	4000.00	м		
		(ii) CAT-6A (Min.1G/ 10G @ 500MHz or higher)	Per M	4000.00	Μ		
4	24/131	Supply, Installation and commissioning of Simple type, Dual Shutter					
		Face Plates having fully populated I/O:					
		Option 1:RJ-11 with RJ45/8P8C I/Os supporting either Cat6 or Cat6a					
		cables as required by project					
		Option 2: Two RJ45/8P8C I/Os supporting either Cat6 or Cat6a					
		cables as required by project.	E. I	400.00	NI -		
		(i) Single I/O	Each		No		
		(ii) Double I/O	Each	400.00	No		

<u>Construction of Academic Block for Mechnical Engineering Department at</u> <u>Baghdad-ul-Jadeed Campus</u>

Estimate Based on MRS 1st Bi-Annual, 2023

ABSTRACT OF COST

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

		Civil Work				МІ	RS Jan-Jun, 2023
No	Reff	Description	Quantity		Rate	Unit	Amount
1	3/21	Excavation in foundation of building,bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and rammiing lead 'upto one chain (30					
		m) and lift upto 5 ft. (1.5 m). By Excavator (ii) In ordinary Soil	250000.00	Cft	8249.75		
2	3/18	Dressing and levelling of earhtwork to designed section, etc. Ordinary or hard soil	22000.00	Cft	701.90		
3	26/43	Spraying anti termite proofing by using liquid FMC Biflex 2.5%EC Mixing Ratio 1:50=137-Sft or using liquid MIRAGE Ali Akbar /RANGERS Auriga 5% SC Mixing Ability-HEXTAR Ratio 1:110=205-Sft or any other equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10-years complete in all respect .as approved by the Engineer Incharge	30000.00	Sft	9.90		
4	6/3	Cement concrete brick or stone ballast $1\frac{1}{2}$ " to 2" (40 mm to 50 mm) gauge, in foundation and plinth:- Ratio 1:4:8	6000.00	Cft 2	25752.00		
5	6/12	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars)					
6	6/6	 i) Deformed bars (Grade-60) Reinforced cement concrete in slab of rafts / strip foundation, base slab of column and retaining walls; etc and other structural members other than those mentioned in 5(a) (i) above not requiring form work (i.e. horizental shuttering) complete in all respects:- using harrow sand i) Type B (nominal mix 1: 1½: 3) 		Kg i	32014.40 505.15		
7	6/6 a-i	Reinforced cement concrete in roof slab, beams,columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ complete in all respects:using harrow sand i) Type B (nominal mix 1: 1½: 3) ii) Type B (nominal mix 1: 1½: 3) (First Floor)		Cft Cft	615.30 657.30		
8 i)	3/15	Filling, watering & ramming earth under floors:- with surplus earth from foundation, etc.	26494.15	Cft	5620.55		
ii)	3/17a	with new earth excavated from outside,lead upto 1 mile	145000.00	Cft 1	7330.80		
9	7/5	 Pacca brick work in ground floor:- cement, sand mortar:- i) Ratio 1:5 ii) Ratio 1:3 (For 4.5" Th.Walls only) iii) First Floor Ratio 1:5 iv) First Floor Ratio 1:3 (For 4.5" Th.Walls only) v) Second Floor Ratio 1:5 cement sand mortor 	950.00 21550.00 950.00	Cft 3 Cft 3 Cft 3	32495.90 34835.90 33998.05 36338.05 35883.00		
10	7/4	Pacca brick work in foundation and plinth in:- cement sand mortor Ratio 1:6	2950.00	Cft 2	29348.05		
11	6/36+bi	Providing and laying damp proof course of cement concrete 1:2: 4 (using cement, sand and shingle), including bitumen coating:- with 2 coats of bitumen: 1½" thick (40 mm)	300.00	Sft	9418.95		
12	11/10-b	Cement plaster 3/8" (10 mm) thick under soffit of R.C.C. roof slabs only,					
		i) upto 20' height. 1:3	59850.00 S	Sft	4027.55		

No	Reff	Description	Quantity	/	Rate	Unit	Amount
13	11/9.	Cement plaster 1:4 upto 20' (6.00 mm) height:-		<u> </u>			
		i) ½" (13 mm) thick	80720.00	Sft	3513.95		
		ii) Above 20' -30' height	25887.00	Sft	3977.55		
		iii) 3/4" (20 mm) thick upto 20' height	60268.00	Sft	4714.20		
		iv) Above 20' -30' height v) Above 30' - 40' height	20433.00 2500.00	Sft Sft	5177.80		
		V) Above Su - 40 height	2500.00	Sit	5641.40		
14	7/30	Supplying and filling sand under floor; or plugging in wells.	12405.00	Cft	2866.40		
15	6/2	Dry rammed brick or stone ballast, 1½" to 2"(40 mm to 50 mm) gauge.	18039.00	Cft	9807.60		
16	9/5	Single layer of tiles 9"x4 ¹ / ₂ "x1 ¹ / ₂ " (225x113x40 mm) laid over 4" (100 mm) earth and 1" (25 mm) mud plaster without Bhoosa, grouted with cement sand 1:3 on top of RCC roof 'slab, provided with 34 lbs. per %Sft. or 1.72 Kg/Sq.mbitumen coating sand blinded. (add 6% on composite rate) first floor	29500.00	Sft	12463.43		
17	9/45	Polystyrene XPS in Rigid Insulation/ Foam Board on roof or walls, Density 32-38Kg/M, compressive strength 250-400 kpa, R-value 5 per inch thickness and water obsorbtion (1% by volume, cell structure closed cutting and placeing in Position complete in all respect 1.5" Thick	29500.00	Sft	9529.50		
18	26/37	Supplying and laying polythene sheet over D.P.C. under					
	20/07	'floors and on roofs, etc. 500 gauge (.005" thick)	29500.00	Sft	8.85		
19	6/16	Providing and fixing ornamental cement jali 2" (50 mm) thick (1: 2: 4), without steel.	1950.00	Sft	111.00		
20	10/40	Providing and fixing marble strip of any shade for dividing the mosaic flooring into panels. 1.5x3/8	6763.00	Rft	23.75		
21	10/15	Providing and laying topping of cement concrete 1:2:4,including surface finishing and dividing in panels:- 2"(50 mm) thick	5585.00	Sft	9143.35		
22	25/56	Providing and fixing 2 mm thick Double Glazed Aluminium Windows of anodize / powder coated partly fixed and party sliding using deluxe section of 100mm x 40mm x2 mm using frame (70501) at bottom, (70502) at Top & Side made of Pakistan Cables/Alcop having Leaf Frame size 31mm x 60mm x2 mm (70506) at Top & Bottom, 35mm x 60mm x2 mm (70505) at center and 35mm x 60mm x2 mm(70503) at sides , fixing 5 mm thick imported tinted double glass and air tight using double tape, chemical strips, Silicon using approved latches, wheels for channel, stopper, brush channel angle joint and hardware etc.(cost of Fly Proofing). Complete in all respect as approved and directed by the Engineer Incharge.	4550.00	Sft	2731.20		
23	25/53	Providing and fixing Aluminum Fly screen comprising of Fiber / Aluminum wire guaze (Malasian) fixed in aluminum frame of approved manufacturer brownze Colour / powder coated of size 1- 1/2"x1/2" and 1.6mm thick with rubber gasket i/c cost of Hardwares as approved and directed by the	2275.00	04	502.45		
		engineer incharge. complete in all respect.	2275.00	Sft	502.45		
24	6/35	Providing and fixing theremopore (foamed polythene) sheet in horizontal and vertical expansion joints: 1 ¹ / ₂ " thick thermopore	0750.4.5	05			
25	11/23	sheet Distempering:-a) new surface:- 3 Coats (For Ceiling)	3752.14 60000.00	Sft Sft	27.30 1462.30		
26	13/46	Providing and applying Wall Putty of 2mm thickness over					
		plastered surface (new surface) to prepare the surface even and					
		smooth complete in all respects.(On Interior Walls/Members Only)	153653.00	Sft	419.00		

No	Reff	Description	Quantity		Rate	Unit	Amount
27	13/31	Preparing surface and painting with emulsion paint:- 3 coats	153653.00	Sft	3307.85		
28	6/5	Cement concrete plain including placing, compacting finishing					
20	0/0	and curing complete (including screening and washing of					
		stone aggregate): i) Ratio 1:2:4	9200.00	Cft	36082.20		
29	12/61	P/F 3/4" dia heavy duty sliding bolt of specified material i/c the					
29	12/61	cost of hardware complete in all respect as approved and					
		directed by the Engineer Incharge. brass sliding bolt, 10" (250 mm) long	80.00	No	715.65		
			00.00	INU	, 13.02		
30	6/27	Providing and fixing 6 in(150 mm). wide curved sheet of					
		required shape fixed on face of the construction joint with G.I.screw,1.5 in (40 mm) long to cover construction joints					
		vertically:- G.I. sheet, 18 SWG	290.00	Rft	259.05		
31	12/7 h-ii	Providing and fixing 1st class solid wood wrought joinery in					
 		panelled or panelled and glazed doors and windows of specified					
		thickness with 1" thick solid wood panels with step and 1-1/2"x2- 1/2" beadings all around the panels i/c the cost of Tower bolt and					
		handles complete in all respect (Excluding the cost of sliding					
		bolt,lock and chowkats (frame), etc.) as approved and directed by the Engineer Incharge.b) Oak/Ash wood Door (iii) 1-1/2" thick (40					
		mm)	4250.00	Sft	2199.30		
32	1/1	Carriage of 100 Cft. (2.83 cu.m) of all materials like stone					
		aggregate, spawl, kankar lime (unslaked), surkhi, etc. or 150					
		Cft. (4.25 cu.m) of timber, by truck or by any other means owned by the contractor. (Lead 366 kms From Sargodaha	54000.00	Cft	11395.65		
		(or approved quarry) to site of work)		2.1			
33	12/7a	Providing and fixing 1st class solid wood wrought joinery in					
		panelled or panelled and glazed doors and windows of specified thickness with 1" thick solid wood panels with step and 1-1/2"x2-					
		1/2" beadings all around the panels i/c the cost of Tower bolt and					
		handles complete in all respect (Excluding the cost of sliding bolt,lock and chowkats (frame), etc.) as approved and directed by					
		the Engineer Incharge- Deodar Wood 2" thick (50 mm) (for Main	400.00	0.5	araa		
		Door)	120.00	Sft	2523.15		
34	25/36	Providing and fixing collapsible gate made of 2"x2"x" ¹ / ₄ " tee					
		iron at top and bottom, channel iron 'verticals ¾"x¼"x¼"x1/8" (20x6x6x3 mm) at 3" (75 mm) to 5" (125 mm) centre to centre					
		(approximate) and flat iron crosses 3"x3/16" (75x5 mm), and					
		best quality rollers at bottom of 3" (75 mm) diameter including holdfasts, handles 12" (300 mm) long of 3/4"x1/4"x1/8"					
		channel iron, locking arrangement inside and outside, painting					
		3 coats of black Japan enameled, complete in working order.	75.00	Sft	1705.35		
35	10/42	Providing and laying superb quality Porcelain glazed tiles					
		flooring of MASTER brand of specified size in approved					
		design,Color and Shade with adhesive/bond over 3/4"thick (1:3) cement plaster i/c the cost of sealer for finishing the joints i/c					
		cutting grinding complete in all respect as approved and directed					
		bv the Engineer Incharge. Full body Glazed tiles (ii) 600mmx 600 mm	50850.00	Sft	362.10		
36	10/43	Providing and laying superb quality Porcelain glazed tiles of					
		Master brand, skirting/dado of specified size, Color and Shade with adhesive/ bond over 1/2"thick (1:2) cement plaster i/c the cost					
		of and sealer for finishing the joints, cutting grinding complete					
		in all respect as approved and directed by the Engineer Incharge.					
37	10/47	(ii) 600mmx 600 mm Providing and laying 3/4" thick full width Prepolished Marble slab	8500.00	Sft	362.10		
51	10/4/	for Vanities / Shelves / Treads/Window Cills , having Uniform					
		texture (Spotless) with adhesive bond over 3/4" thick (1:2)					
		cement sand mortor i/c the cost of matching sealer complete in all respects as approved and directed by the Engineer					
		Incharce. China Verona	3500.00	Sft	498.60		
<u> </u>							

No	Reff	Description	Quantity	v	Rate	Unit	Amount
38	10/48	Extra for Bevelling charges of marble edge in approved	Quantity	y	rtato	Offic	7 unount
	-	design complete in all respects i/c the cost of Carborandam disc as approved and directed by the Engineer Incharge.	1700.00	Rft	28.90		
39	10/49	Extra cost for making hole in Marble slab for fixtures, Sink,burners, basin Vanities i/c cost of bevelling of internal edge as approved and directed by the Engineer Incharge.	50.00	No	774.60		
40	10/50	Providing and laying Prepolished Granite of specified thickness and shade of full width of approved quality laid with adhesive bond over 3/4" thick (1:2) cement sand mortor bed, complete in all respect as approved and directed by the Engineer Incharge (for podium, Stair steps, Risers) (i) 3/4" thick	3500.00	Sft	1510.55		
41	10/24	Providing and laying superb quality Ceramic tile floors of Master brand of specified size,Glossy/Matt/Texture of approved Color and Shade as per approved design with adhesive bond, over 3/4" thick (1;2) cement sand plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects and as approved and directed by the Engineer Incharge.					
		12"x18"/12"x24"/10"x24" /8"x24"/12"x36"	1958.00	Sft	257.10		
42	10/25	Providing and laying superb quality Ceramic tiles dado of Master brand of specified size,Glossy/Matt/Texture skirting/dado of approved Color and Shade with adhesive bond over 1/2"thick (1:2) cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects as approved and directed by the Engineer Incharge.					
		12"x18"/12"x24"/10"x24" /8"x24"/12"x36"	6600.00	Sft	311.70		
43	10/18	Extra labour for each storey above ground, for mosaic,conglomerate, tiles, stone and wooden floor.	30,500.00	Sft	839.50		
44	25/59	Providing and fixing M.S. grill fabricated with MS Square polished Vertical/horizontal Bars of specified size @ 4" c/c ' passed through punched holes in MS Patti of 1-1/4"x1/8" i/c the cost of 1-1/4"x1/8" MS patti for Frame of windows and painting 3 coat complete in all respect as approved and directed by the Engineer Incharge.					
		(i) 3/8" Squar Bars	4550.00	Sft	913.75		
45	13/33	Providing and applying weather shield paint of approved quality on external surface of building including preparation of surface, application of primer complete in all respect: New Surface	23900.00	Sft	5811.55		
46	7/38	Providing and laying Fair Face Gutka cladding laid in (1:2) cement / red posso mortar having 1/4" thick groove finish i/c cost of 8 SWG wire in shape of 8 placed horizontally and vertically at 36" and 18" c/c respectively i/c cutting charges as per approved drawing , complete in all respect as approved and directed by the Engineer Incharge. ii. 2-1/4" x 3" x 9"	32500.00	Sft	184.40		
47	25/64	Providing and fixing 2'-9" high stair railing comprising of non magnetic (304) Stain less steel 2" dia pipe railing of 18 SWG	32300.00	Sit	184.40		
48	9/48	welded with vertical posts of 2" dia stainless steel round/ Squar pipe @ 2-ft c/c fixed on alternate steps with 3" long steel screws and brass rawal plugs , 3-Nos diagonal stainless steel pipes of 1/2" dia passes through goties fixed on vertical post, i/c stainles steel welding, fixing & polishing complete in all respects as approved and directed by the Engineer Incharge. Providing and fixing false ceiling comprises of Gypsum board laminated sheet of size 2'x2'/2'x3'/ 3'x3'of specified design and thickness i/c cost of fixtures i.e galvanized angle 1" x 1" at wall sides, galvanized tee 1¼" x 1"and 1 ½" x 1" both at 4' c/c (made of Taiwan CKM or equivalent), hanging with G.I/Copper wire 16 SWG, G.I hook, Rawal Plug etc: complete in all respects as approved and directed by the Engineer Incharge.	300.00	Sft	2649.15		
		9 mm thick	14500.00	Sft	105.45		

No	Reff	Description	Quantity		Rate	Unit	Amount
49	12/17	Providing and fixing 2" wide MS Chowkat singel/double rebate made of 16 SWG MS sheet pressed/welded / supported with M.S.					
		flat 1-1/4"x1/8" i/c 6"long M.S. Flat 1"x1/8"hold fasts (6-Nos)					
		welded/ screwed, punching of lock hole covered with MS Box,coating with antirust paint including filling with cement sand					
		mortar (1:8) and embedding hold fast in cement concrete (1:2:4)					
		,complete in all respect as approved and directed by Engineer Incharge.					
		i) 15 " wide		Sft	774.70		
		ii) 10.50 " wide iii) 5.5 " wide		Sft Sft	664.45 463.50		
			420.00	Sit	405.50		
50	12/67	Providing and fixing auotomatic hydraulic operated door closer					
		imported heavy duty complete in all respect as approved and					
		directed by the Engineer Incharge.	60.00	No	3451.30		
51	25/62	P/F Iron door comprising of specified leaves made of 1-1/4"					
		x1-1/4" x3/16" MS angle iron for leaf frame, diagonal and					
		horizontal braces duly welded with MS. sheet 18-SWG i/c the cost					
		of sliding bolt, tower bolt and painting 3-coats but excluding the					
		cost of Chowkat complete in all respect as approved and directed	400.00	0.0			
		by the Engineer incharge. Double Leaf	120.00	Sft	1432.80		
52		Providing and fixing M.S Grating comprising of Angle Iron frame					
		size 1.50" x 1.50" x 3/16" and 1/2" square bars duly welded	<u> </u>	0 4	4704.05		
		@ 4" c/c, including painting charges etc complete in all respect.	60.00	Sft	1731.95		
53		Preparing surface and Lacquar polish to reveal wooden					
		grains by application of multiple coats of wood sealer , sand papering with different no of sandpapers and Lacquar to make					
		glossy surface finish i/c the cost of cotton, thinner, wood sealer					
		complete in all respects as approved and directed by the Engineer Incharge. Matt Finish	7150.00	Sft	197.60		
	NO	Civil Work (Non-Schedule)					
1	N.S	P/F Handle Lock (Hiluke/DAF/Khas or equivalent) complete in all respect as approved by Engineer Incharge.	60.00	No	5043.21		
			00.00		5045.21		
		Providing and fixing UPVC Doors 38mm thickness i/c deluex matching color UPVC Frame (matt or glossy finish) having color					
		(whiteGray-Marble Gray-Oak Wood- Dard Oak Wood, Coffee					
		Wood Honey Pine Wood-Mahagony-Marry Gold-Chocolate Brown- Honey Dew) i/c all accessories complete in all respect as approval					
2	N.S	by the Engineer Incharge.	765.00	Sft	948.00		
3	N.S	Providing & Fixing Looking Glass 5-mm thick best quality,complete					
		in all respect as per specifications and drawings and as approved	100.01	0.4	077 40		
		by the Engineer Incharge.	160.21	Sft	377.46		
4	N.S	Providing and fixing Steel Floor Jali complete in all respect as per					
		specification and as approved by the Engineering Incharge.	60.00	No	565.56		
5		Providing & Fixing Cabinet consisting of lamination board 3/4"					
		thick for leaves, kail wood frame 2.50" x 1", Gola for 'leaf 3/4" x 3/4" including sprit polish for gola complete in all respects as per					
		design, drawing & pattern as approved by the engineer incharge.					
		(Down portion)	1200.00	Sft	770.00		
6	N.S	'Providing & Fixing Cabinet upper portion consisting of lamination					
		board 3/4" thick box and leaves, Partal wood frame 3" x 1", Gola					
		for 'leaf 3/4" x 3/4" including siprit polish for gola complete in all					
		respects as per design, drawing & pattern as approved by the	-	_			
		Engineer Incharge. (Upper Portion)	225.00	Sft	1011.00		
						Total	

No	Reff.	Description	Quantity	Rate	Unit	Amount
		IT DATA CABELING SYSTEM				
1	24/3	Supply and erection of PVC pipe for wiring recessed in walls,				
		including inspection boxes, pull boxes, hooks, cutting				
		jharries,and repairing surface, etc., complete with all specials.				
		i) 3/4" i/d (20 mm)	1500.00 M		Per M	
		ii) 1" i/d (25 mm)	1500.00 M		Per M	
		iii) 1.50" i/d (40 mm)	500.00 M		Per M	
		iv) 2" i/d (50 mm)	500.00 M		Per M	
2	24/104	P/F PVC concealed Switch kit Box i/c the cost of screws				
		complete as approved and directed by the Engineer Incharge				
		i) Small	300.00 No		Each	
		ii) Large	400.00 No		Each	
3	24/106	Supply, Installation and commissioning of wiring with 4-pair				
		data Cable, 23 AWG UL/EN listed cable * Conforming to				
		following standards: TIA/EIA 568 / ISO/IEC 11801, in prelaid				
		conduit / cable tray from including all accessories,				
		Manufacturer/OEM Authorization, Make: Schneider / i-connect				
		UK/3M Corning USA/ D-Link/ Pollo Australian or equivalent				
		complete in all respect as approved and directed by				
		Engineer Incharge.				
		a) UTP (Unshielded Twisted pair)				
		(i) CAT-6 (Min.1G @ 250MHz or higher)	2000.00 M		Per M	
		(ii) CAT-6A (Min.1G/ 10G @ 500MHz or higher)	2000.00 M		Per M	
4	24/131	Supply, Installation and commissioning of Simple type, Dual Shutter				
		Face Plates having fully populated I/O:				
		Option 1:RJ-11 with RJ45/8P8C I/Os supporting either Cat6 or Cat6a				
		cables as required by project Option 2: Two RJ45/8P8C I/Os supporting either Cat6 or Cat6a				
		cables as required by project.				
		(i) Single I/O	300.00 No		Each	
		(ii) Double I/O	400.00 No		Each	
			-00.00 NO		Lacit	
					Total	

		Construction of Academic Block for Mechnical Engineering D	epartment at	Dagin	uau-ui-Jau	icu Cam	<u>,</u>
		Civil Work				MRS .	Jan to Jun, 2023
No	Reff	Description	Quantit	y	Rate	Unit	Amount
		Electrical Work					
1	24/3	Supply and erection of PVC pipe for wiring recessed in walls,					
		including inspection boxes, pull boxes, hooks, cutting					
		jharries,and repairing surface, etc., complete with all specials.					
		i) 3/4" i/d (20 mm)	4350.00	М		Per M	
		ii) 1" i/d (25 mm)	5000.00	М		Per M	
		iii) 1.50" i/d (40 mm)	650.00	М		Per M	
		iv) 2" i/d (50 mm)	950.00	М		Per M	
2	24/6	Supply and erection of PVC pipe for recessed wiring main and					
	ii	submain) purpose, i/c bends, specials etc in floor, walls or					
		trenches:					
		3" i/d (80 mm)	850.00	М		Per M	
3	24/10	Supply and erection of single core PVC insulated copper					
		conductor cables, in prelaid PVC pipe/M.S. conduit/G.I					
		pipe/wooden strip batten/wooden casing an capping/G.I.					
		wire/trenches (rate for cables only). 250/440 volts, PVC					
		insulated:					
		i) 3/0.74 mm (3/0.029")	18500.00	М		Per M	
		ii) 7/0.74 mm (7/0.029")	8250.00	M		Per M	
		iii) 7/0.91 mm (7/0.036")	5500.00	M		Per M	
		iv) 7/1.12 mm (7/0.044")	8250.00	M		Per M	
		v) 7/1.63 mm (7/0.064")	1200.00	M		Per M	
		vi) 19/1.32 mm (19/0.052")	4000.00	M		Per M	
		vii) 19/1.63 mm (19/0.064")				-	
			4500.00	М		Per M	
	04/40	Cumply and exaction of comparison ductor achieve for comics					
4	24/13	Supply and erection of copper conductor cables for service					
		connection, in prelaid pipe/G.I. wire/trenches, etc. (rate for					
		cable only):- PVC insulated, PVC sheathed 4 core, 660/1100					
		volt non armoured cable:-					
		i) 7/1.63 mm (7/0.064")	450.00	М		Per M	
		ii) 19/1.32 mm (19/0.052")	450.00	М		Per M	
5	24/30	Supply and erection of ceiling rose, bakelite.	1500.00	No		Each	
6	24/103	P/F PVC double layer Switch kit Faceplate with specified					
		switch holes i/c the cost of switches / sockets / dimmer made					
		of Hi-Life / Bush / Schenider, screws complete as approved					
		and directed by the Engineer Incharge					
		a) One way Gange Switch					
		Small					
		i) 02 Gange	10.00	No		Each	
		ii) 03 Gange	10.00	No		Each	
		iii) Three pin Light Plug 10/13 Amp	400.00	No		Each	
		iv) Fan Dimmer	120.00	No		Each	
		v) Three Pin Power Plug 15-32 Amp	120.00	No		Each	
		Large	100.00			Eaci	
		i) 04 Gange	05.00	No		Fash	
			85.00	No		Each	
		ii) 05 Gange	50.00	No		Each	
		iii) 06 Gange	140.00	No		Each	
_	04/400	Providing and fiving Connerwinded. Exhcust for with laws					
7	∠4/102	Providing and fixing Copper winded Exhaust fan with louver					
		and shutter made of Pak/Younas/G.F.C. i/c the cost of					
		necessary cable and hardware for connection from ceiling rose					
		complete as approved and directed by Engineer Incharge.					
		a) Plastic body					
		i) 12" dia	50.00	No		Each	
8	24/95	Suplying,Installation,testing and commissioning of 415-Volt ,4					
		Pole (TP+N) compact Copper Busway (Bus Tie Duct B.T.D) of					
		specified size/rating comprising of 10 mm thick sandwitch					
		copper Bus bars, insulated with non- flammable/flame resistant					
		resin applied at 130 OC by Automatic Electro- static					
		application with Mayler Class-B, housed in Aluminium					
		Housing i/c the cost of hangers, accessories, enclosures					
		IP55, IEC 61439-1, complete in all respect, spaced to a					
		minimum reducing reactance as approved & directed					
		by the Engineer Incharge	0.00	DA		Der Dr	
		(i) 400 Amp	3.00	Rft		Per Rft	
		(ii) 630 Amp	3.00	Rft		Per Rft	
		(iii) 1250 Amp (iv) 1600 Amp	3.00 4.00	Rft Rft		Per Rft Per Rft	

10 24/87 Supplying ,Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip) in prelaid DBs and Panels l/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge Tripple Pole l) 15-100 Amp(18 KA) 30.00 No 11 24/88 Supplying,Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/ABB SWITZERL(with adjustable Thermal-Magnetic Trip) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge Tripple Pole With Adjustable Thermal-Magnetic Trip / Electronic Trip (60-100%) 630-1600 Amp(50 KA) 1.00 No 12 24/94 Providing and fixing DB/Panel accessories of required rating and size i/c copper screws of approved brand Complete in all respect as approved and directed by the Engineer Incharge i) Selector Switch 4.00 No	Each Each Each
10 24/87 Supplying ,Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S. A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge Tripple Pole 30.00 No 11 24/88 Supplying,Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/ABB SWITZERL(with adjustable Thermal-Magnetic Trip) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge Tripple Pole With Adjustable Thermal-Magnetic Trip) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge Tripple Pole With Adjustable Thermal-Magnetic Trip /Electronic Trip (60-100%) 630-1600 Amp(50 KA) 1.00 No 12 24/94 Providing and fixing DB/Panel accessories of required rating and size i/c copper screws of approved brand Complete in all respect as approved and directed by the Engineer Incharge i) Selector Switch 4.00 No	Each Each Each
Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge Tripple Pole i) 15-100 Amp(18 KA) ii) 125-250 Amp(18 KA) 30.00 No iii) 300-630 Amp(36 KA) 2.00 11 24/88 Supplying.Installation and commissioning of MCCB (Moulded a-x Supplying.Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/ABB SWITZERL(with adjustable Thermal-Magnetic Trip) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge Tripple Pole With Adjustable Thermal-Magnetic Trip /Electronic Trip (60-100%) 630-1600 Amp(50 KA) 1.00 12 24/94 Providing and fixing DB/Panel accessories of required rating and size i/c copper screws of approved brand Complete in all respect as approved and directed by th	Each
11 24/88 Supplying, Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/ABB SWITZERL(with adjustable Thermal-Magnetic Trip) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge Tripple Pole With Adjustable Thermal-Magnetic Trip /Electronic Trip (60-100%) 630-1600 Amp(50 KA) 1.00 No 12 24/94 Providing and fixing DB/Panel accessories of required rating and size i/c copper screws of approved brand Complete in all respect as approved and directed by the Engineer Incharge i) Selector Switch 4.00 No	
a-x Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/ABB SWITZERL(with adjustable Thermal-Magnetic Trip) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge Tripple Pole With Adjustable Thermal-Magnetic Trip /Electronic Trip (60-100%) 630-1600 Amp(50 KA) 1.00 No 12 24/94 Providing and fixing DB/Panel accessories of required rating and size i/c copper screws of approved brand Complete in all respect as approved and directed by the Engineer Incharge i) Selector Switch 4.00 No	Each
12 24/94 Providing and fixing DB/Panel accessories of required rating and size i/c copper screws of approved brand Complete in all respect as approved and directed by the Engineer Incharge i) 12 24/94 Providing and fixing DB/Panel accessories of required rating and size i/c copper screws of approved brand Complete in all respect as approved and directed by the Engineer Incharge i) 12 24/94 Providing and fixing DB/Panel accessories of required rating and size i/c copper screws of approved brand Complete in all respect as approved and directed by the Engineer Incharge i)	Each
and size i/c copper screws of approved brand Complete in all respect as approved and directed by the Engineer Inchargei) Selector Switch4.00 No	
iii) Digital Voltmeter (0-600 Volt)2.00Noiv) Digital Ammeter (0-9999 Amp)2.00Nov) LED Phase Indicator6.00No	Each Each Each Each Each Each
	Per Cft Per Cft
14 24/91 P/F floor mounted Electric Panel board of required depth and size, fabricarted with 14SWG M.S sheet (Indoor/Outdoor Type),derusting, zinc Phosphated, finish with electro static powder coating in approved colour i/c the cost of Lock, Indication lights, thimbles, Copper Comb, Wiring, Netural & Earth Bar, glands,Current Transformers of specified capacity ,Door Earthing, Brass glands,bus bars,controles complete in all respects as approved and directed by the Engineer Incharge (Breakers will be Paid Separately). LT Switchboards 3.00 Ft deep	
1600~2000A 180.00 Cft F	Per Cft
15 24/104 P/F PVC concealed Switch kit Box i/c the cost of screws complete as approved and directed by the Engineer Incharge	
	Each Each

No	Reff	Description	Quantity	Rate Unit	Amount
1	N.S	Electrical Work (Non-Schedule) Supply & installation of LED 24W Down Light (Surface Mounted, 220V~) i/c any accessories required at site.			
		Complete in all respect as directed and approved by the Engineer Incharge (Philips Meson or Equivalent)	375.00 No	Each	
2	N.S	Supply & installation of LED 600 x 600mm Ceilling Panel Light 36W (220V~, CW or WW) i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips RC048B or Equivalent)	500.00 No	Each	
3	N.S	Supply & installation of LED search light 100W (220V~, CW or WW) with fitting arrangement for installation on walls, parapet, pole or etc. i/c any accessories required at site.			
		Complete in all respect as directed and approved by the Engineer Incharge (Philips BVP 151 or Equivalent)	25.00 No	Each	
4	N.S	Providing & Fixing of LED Wall Light 15 Watt i/c any accessories (i.e. screw. Rawl plug or steel nail, etc.) as required at site. Complete in all respect as directed and			
5	N.S	approved by the Engineer Incharge. (WL008C OVAL Philips) Supply & installation of Wall Mounted LED Batten Light 20W	70.00 No	Each	
	11.0	(220V~, 6500K) i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips Slimline or Equivalent)	80.00 No	Each	
6	N.S	Supply & installation of PVC Fan Box with iron bar i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge. (GM, Bita or	150.00 No	Each	
7	N.S	equivalent) Supply & installation of Ceiling Fans, 56" sweep copper winding i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Royl Fan/Deluxe, Indus/Supreme, Pak Fan/Deluxe or	150.00 No	Each	
8	N.S	equivalent) Supply & installation of 2' x 2' False Ceiling Fan 18" swipe (99.99% Copper), remote controlled i/c any accessories			
		required at site. Complete in all respect as directed and approved by the Engineer Incharge (Royal, Super-asia or Equivalent)	80.00 No	Each	
9	N.S	Supply & installation of Wall Bracket Fan 24" (99.99% Copper) i/c any accessories (i.e. mounting screws & etc) as required at site. Complete in all respect as directed and approved by the Engineer Incharge (Younis, Tamoor, Pakfan			
10	N.S	or Equivalent)	12.00 No	Each	
	0.0	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) & charcoal around copper strip I/c connecting with Electric machine. Complete in all respects as approved and as			
		directed by the engineer incharge.	8.00 No	Each	
				Total	

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

No	Reff	Description	Quantity	Rate	Unit Amount
11	19/50	Providing, laying, testing and commissioning underground Yellow Polyethelene flexible gas pipe Tubing of required IPS(Iron Pipe Size) in the trenches, made of (Dadex/ Popular / Beta/ BBJ) for Gas supply i/c the cost of solvent and specials complete as approved and directed by the Engineer Incharge.			
		SDR-11 (ii) 1" (ii) 2" (ii) 1.50"	900.00 Rf 500.00 Rf 500.00 Rf	t F	Per Rft Per Rft Per Rft
12	19/49.	Providing, fixing, testing and commissioning of μ -PVC (Unplasticized polyvinyl Chloride) Nikasi/ waste pipe Fittings make of dadex /Popular/Beta/BBJ conforming to code EN-1401 ncluding the cost of Solvents complete in all respect as approved and directed by the Engineer Incharge. (a) P-Trap			
		(i) 4" dia	150.00 No		Each
		(b) Vent Cowel (i) 3" dia	10.00 No)	Each
13	19/13	Providing and fitting plastic made low down flushing cistern 13.63 litre (3 gallons) capacity, including bracket set, copper connection, etc. complete.	36.00 No		F
			36.00 No)	Each
14	19/27	Providing and fixing chromium plated bib cock:- 1.5 cm (½")	50.00 No).	Each
15	19/42	Providing and fitting chromium plated or oxidised, gas cock 6mm (1/4") Two way	25.00 No		Each
		External Plumbing Work			Total
1	3/42	Earthwork excavation in open cutting for sewers and manholes as shown in drawings including shuttering and timbering, dressing to correct section and dimensions according to templates and levels, and removing surface water, in all types of soil except shingle, gravel and rock:- 0 ft. to 7.0 ft. (0 to 2.10 m) depth	20325.00 C	ft c	%o Cft
2	21/3	Providing and laying R.C.C. pipe, moulded with cement concrete 1:1½:3, with spigot socket or collar joint, etc. including cost of reinforcement, conforming to B.S. 5911: Part I: 1981, Class "L" including carriage of pipe from factory to site of work, lowering in trenches to correct alignment and grade, jointing, cutting pipes where necessary, finishing and testing, etc., complete. ii) 12 " i/d	700.00 R [:]	ft F	Per Rft
3	6/3	Cement concrete brick or stone ballast 1½ " to 2" (40 mm to 50 mm) gauge, in foundation and plinth:- Ratio 1:4:8	600.00 C	ft	% Cft
4	7/4	Pacca brick work in foundation & plinth:- cement, sand mortar:- Ratio 1:4	2000.00 C	ft	% Cft
5	11/8.	Cement plaster 1:3 upto 20' (6.00 mm) height:- i) 3/4" thick ii) ½" thick	1000.00 St 1250.00 St		% Sft % Sft
6	3/44	Excavation of trenches in all kinds of soil, except cutting 'rock, for water supply pipe lines upto 5 ft. (1.5 m) depth from ground level, including trimming, dressing sides, levelling the beds of trenches to correct grade and cutting pits for joints, etc	8500.00 Ci	ft	%o Cft
7	21/16	Providing and fixing 6" thick R.C.C. manhole cover with tee shaped C.I. frame of 22" I/d (frame weighing 37.324 Kg. or one maund as per Standard Drawing STD/PD No. 6, of 1977, complete in all respect.	35.00 No).	Each
8	24/42	Making connection for new watersupply lines with the running main, including excavation of trench and refilling, complete, but excluding cost of pipe and specials, etc. Diameter of running main:			D Con
		i) upto 6" i/d (150 mm) ii) upto 8" i/d (200 mm)	2.00 Co 1.00 Co		P.Con P.Con
9	23/43	Providing, laying, cutting, jointing, testing and disinfecting High Density Polyethylene Pipe (HDPE-100) working presure pipe in trenches. complete in all respects PN-20(SDR-9) 3" (90mm)	500.00 Rt	ft F	Per Rft
					Total

No	Reff	Description	Quantity	Rate	Unit Amount
1	7/30	External Civil Work Supplying and filling sand under floor; or plugging in wells.	2750.00 Cft		% Cft
2	6/3	Cement concrete brick or stone ballast $1\frac{1}{2}$ " to 2" (40 mm to 50 mm) gauge, in foundation and plinth:- Ratio 1:6:12	5500.00 Cft		% Cft
3	10/41	Providing and laying Tuff pavers, having 7000 PSI, crushing strength of approved manufacturer, over 2" to 3" sand cushion i/c grouting with sand in joints i/c finishing to require slope. Complete in all respect. (50% Grey / 50% Coloured) 60mm thick	20500.00 Sft	F	Per Sft
4	6/52	Providing and fixing precast Edge Kerb Stone (4"to 6" thick), of 3500 PSI Compressive Strength, embeded in PCC 1:2:4 over lean concrete 1:4:8 etc complete in all respect. A) With Painting (i) 14" high	2400.00 Rft		Rft
		1		-	Total

		Civil Work			MRS Ja	n to Jun, 2023
No	Reff	Description	Quantity	Rate	Unit	Amount
1	3/1-b	External Electrical Work Earthwork excavation underessed lead upto a single throw of Kassi, phaorah or shovel:- In ordinary soil.	6500.00 Cft		%o Cft	
2	24/12	Supply and erection of single core PVC insulated, PVC sheathed copper conductor, 600/1000 volts grade cable, in prelaid G.I. pipe/M.S. conduits/PVC pipe/G.I. wire/trenches etc (rate for cable only):- 240 mm sq (37/0.114)	350.00 M		Per M	
3	24/158	Supply, installation, testing, commissioning and termination of 8.7/15kV,AL/XLPE/SWA/PVC three Core (MV cables) along with cable glands, in already installed cable trench/cable ladder/cable tray/duct bank. (Armoured) 70mm sq	250.00 M		Per M	
		95 mm sq	350.00 M		Per M	
4	24/105	Supply, insatllation, commissioning and testing of oil cooled type, Step down Power Transformer of specified rating,11/0.415 kV, i/c the cost of lifting hooks, thermometers, LT & HT bushing 5-steps, tap changer, imported double float buchholz relay, 2 earthing terminals, roller wheels, connecting terminals for cables M.S box on transformer in order to cover complete L.T side, all necessary materials required for connections on H.T & L.T side, rated voltage 11000/415/240 V impedance 6.25% or as specified by WAPDA/IEC system earth: Delta / Star, neutral solidly earthed, i/c Wapda testing charges,complete in all respects made of PEL, Siemens, as approved and directed by the Engineer Incharge 400 KVA				
			1.00 No		Each	
					Total	
1	N.S	External Electrical (Non-Schedule) Supply & installation of 11-KV Dropout Fuse assemblies Set i/c any				
1	N.5	accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge	2.00 No		Each	
2	N.S	Supply & Installation of 11KV Pin Insulator i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge.	6.00 No		Each	
3	N.S	Supply & installation of Creosoted Wooden cross arm on steel structure pole with galvanized steel bracing & bolts i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge.	4.00 No		Each	
4	N.S	Supply and installation of 70mm ² -120mm ² , Aluminum Alloy Parallel Groove Clamp complete with nut/bolts i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge.	6.00 No		Each	
					Total	

Construction of Academic Block for South Punjab Institute of Agro-Industry & Enviornment at Baghdad-ul-

Jadeed Campus

Estimate Based on MRS 1st Bi-Annual, 2023

ABSTRACT OF COST

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

The Islamia University of Bahawalpur <u>Construction of Academic Block for South Punjab Institute of Agro-Industry & Enviornment at</u> <u>Baghdad-ul-Jadeed Campus</u>

		Baghdad-ul-Jadeed Campu	15				20 Jan Jun 2022
No	Reff	Civil Work Description	Quantity		Rate	Unit	RS Jan - Jun, 2023 Amount
1	3/21	Excavation in foundation of building, bridges & other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and rammiing lead upto one chain			Nate		Anount
		(30 m) and lift upto 5 ft. (1.5 m) in By Excavator (ii)ordinary soil	50750.00	Cft		%o Cft	
2	3/18	Dressing and levelling of earhtwork to designed section, etc. Ordinary or hard soil	15000.00	Cft		%o Cft	
3	26/43	Spraying anti termite proofing by using liquid FMC Biflex 2.5%EC Mixing Ratio 1:50=137-Sft or using liquid MIRAGE Ali Akbar /RANGERS Auriga 5% SC Mixing Ability-HEXTAR Ratio 1:110=205-Sft or any other equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10-years complete in all respect .as approved by the Engineer Incharge	25950.00	Sft		Per Sft	
4	6/3	Cement concrete brick or stone ballast 1½ " to 2" (40 mm to 50 mm) gauge, in foundation and plinth:- Ratio 1:4:8	3750.00	Cft		% Cft	
5	6/11	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars)	440000.00	Ka		0/ 1/ -	
		i) Deformed bars (Grade-60)	112200.00	Kg		% Kg	
6	6/6	Reinforced cement concrete in slab of rafts / strip foundation, base slab of column and retaining walls; etc and other structural members other than those mentioned in 5(a) (i) above not requiring form work (i.e. horizental shuttering) complete in all respects:- using harrow sand	0005.00	01			
		i) Type B (nominal mix 1: 11/2: 3)	8685.00	Cft		Per Cft	
7	6/6 a-i	Reinforced cement concrete in roof slab, beams,columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ complete in all respects:using harrow sand					
		i) Type B (nominal mix 1: 1½: 3) ii) Type B (nominal mix 1: 1½: 3) (For Mumty)	21115.00 750.00	Cft Cft		Per Cft Per Cft	
8	3/15	Filling, watering & ramming earth under floors:-					
i)	3/15-a	with surplus earth from foundation, etc.	16496.00	Cft		%o Cft	
ii)	3/15-b+ 3/17 a	with new earth excavated from outside,lead upto 1 mile	128000.00	Cft		%o Cft	
9	7/5	Pacca brick work in ground floor:- cement, sand mortar:- i) Ratio 1:5 ii) Ratio 1:3 (For 4.5" Th.Walls only) iii) First Floor Ratio 1:5 cement sand mortor	15500.00 2078.00 14500.00	Cft Cft Cft		% Cft % Cft % Cft	
10	7/4	Pacca brick work in foundation and plinth in:- cement sand mortor Ratio 1:6	3700.00	Cft		% Cft	
11	6/35	Providing and laying damp proof course of cement concrete 1:2: 4 (using cement, sand and shingle), including bitumen					
12	11/10	coating:- with 2 coats of bitumen: 1½" thick (40 mm) Cement plaster 3/8" (10 mm) thick under soffit of R.C.C. roof	300.00	Sft		% Sft	
		slabs only, i) upto 20' height. 1:3	35663.00	Sft		% Sft	

No	Reff	Description	Quantity	Rate Ur	it Amount
13	11/9	Cement plaster 1:4 upto 20' (6.00 mm) height:-			
		i) ½" (13 mm) thick	58500.00 Sft	% \$	
		ii) Above 20'- 30' height iii) 3/4" (20 mm) thick	7500.00 Sft 33260.00 Sft	% S % S	
		iv) Above 20'-30' height	8500.00 Sft	%	
14	7/30	Supplying and filling sand under floor; or plugging in wells.	11500.00 Cft	% (Cft
	1100		11000.00 011	70 \	
15	6/2	Dry rammed brick or stone ballast, 1 ¹ / ₂ " to 2"(40 mm to 50	10500.00 Cft	% (Cft
		mm) gauge.			
16	9/5	Single layer of tiles 9"x4½"x1½" (225x113x40 mm) laid over			
		4"(100 mm) earth and 1" (25 mm) mud plaster without			
		Bhoosa, grouted with cement sand 1:3 on top of RCC roof			
		slab, provided with 34 lbs. per %Sft. or 1.72 Kg/Sq.mbitumen			
		coating sand blinded.	22500.00 Sft	% \$	Sft
17	9/45	Providing and Laying Insulation material of Extruded			
		Polystyrene XPS in Rigid Insulation/ Foam Board on roof or			
		walls, Density 32-38Kg/M, compressive strength 250-400 kpa,			
		R-value 5 per inch thickness and water obsorbtion (1% by			
		volume, cell structure clored cell) i/c cutting and placing in			
		position complete in all respect 1.50" Thick .	22500.00 Sft	% \$	Sft
18	26/37	Supplying and laying polythene sheet over D.P.C. under 'floors			
	20.01	and on roofs, etc. 500 gauge (.005" thick)	22500.00 Sft	Per	Sft
19	6/16	Providing and fixing ornamental cement jali 2"	2250.00 Sft	Per	Sft
		(50 mm) thick (1: 2: 4), without steel.			
20	10/40	Providing and fixing marble strip of any shade for dividing the	5500.00 Rft	Per	Rft
		mosaic flooring into panels. 1.5x3/8			
24	10/15	Providing and laying topping of cement concrete			
21	10/15	1:2:4, including surface finishing and dividing in panels:-	10398.00 Sft	% \$	24
		2"(50 mm) thick	10390.00 31	70 \	511
	05/50	Brouiding and fiving 2 mm thick Double Clazed Aluminium			
22	25/56	Providing and fixing 2 mm thick Double Glazed Aluminium Windows of anodize / powder coated partly fixed and party			
		sliding using deluxe section of 100mm x 40mm x2 mm using			
		frame (70501) at bottom, (70502) at Top & Side made of Pakistan			
		Cables/Alcop having Leaf Frame size 31mm x 60mm x2 mm			
		(70506) at Top & Bottom, 35mm x 60mm x2 mm (70505) at			
		center and 35mm x 60mm x2 mm(70503) at sides , fixing 5 mm			
		thick imported tinted double glass and air tight using double tape,			
		chemical strips, Silicon using approved latches, wheels for			
		channel, stopper, brush channel angle joint and hardware			
		etc.(cost of Fly Proofing). Complete in all respect as approved			
		and directed by the Engineer Incharge.	3600.00 Sft	Per	Sft
23	25/53	Providing and fixing Aluminum Fly screen comprising of Fiber			
		/ Aluminum wire guaze (Malasian) fixed in aluminum			
		frame of approved manufacturer brownze Colour / powder			
		coated of size 1- 1/2"x1/2" and 1.6mm thick with rubber			
		gasket i/c cost of Hardwares as approved and directed by the			
		engineer incharge. complete in all respect.	1800.00 Sft	Per	Sft

No	Reff	Description	Quantity		Rate	Unit	Amount
24	6/34	Providing and fixing theremopore (foamed polythene) sheet in					
		horizontal and vertical expansion joints: 11/2" thick thermopore					
		sheet	500.00	Sft		Per Sft	
25	11/23	Distempering:-a) new surface:- 3 Coats (For Ceiling)	40975.00	Sft		%Sft	
26	13/46	Providing and applying Wall Putty of 2mm thickness over plastered surface (new surface) to prepare the surface even & smooth					
		complete in all respects.(On Interior Walls/Members Only)	112653.00	Sft		%Sft	
27	13/31	Preparing surface and painting with emulsion paint:- 3 coats	86565.00	Sft		% Sft	
28	6/5	Cement concrete plain including placing, compacting finishing and curing complete (including screening and washing of					
		stone aggregate): i) Ratio 1:2:4	0005.00	04		N/ 0#	
		Stone aggregate). I) Mailo 1.2.7	6825.00	Cft		% Cft	
29	12/61	P/F 3/4" dia heavy duty sliding bolt of specified material i/c the cost of hardware complete in all respect as approved and directed by the Engineer Incharge. brass sliding bolt, 10" (250 mm) long	50.00	No		Each	
30	6/26	Providing and fixing 6 in(150 mm). wide curved sheet of required shape fixed on face of the construction joint with G.I.screw,1.5 in (40 mm) long to cover construction joints vertically:- G.I. sheet, 18 SWG	150.00	Rft		Per Rft	
31	12/7(b-ii)	Providing and fixing 1st class solid wood wrought joinery in panelled or panelled and glazed doors and windows of specified thickness with 1" thick solid wood panels with step and 1-1/2"x2-1/2" beadings all around the panels i/c the cost of Tower bolt and handles complete in all respect (Excluding the cost of sliding bolt,lock and chowkats (frame), etc.) as approved and directed by the Engineer Incharge.b) Oak/Ash wood Door (iii) 1-1/2" thick (40 mm)	2450.00	Sft		Per Sft	
			2450.00	31		Fei Sit	
32	1/1	Carriage of 100 Cft. (2.83 cu.m) of all materials like stone aggregate, spawl, kankar lime (unslaked), surkhi, etc. or 150 Cft. (4.25 cu.m) of timber, by truck or by any other means owned by the contractor. (Lead 366 kms From Sargodaha (or approved quarry) to site of work)	35500.00	Cft		% Cft	
33	12/7	Providing and fixing 1st class solid wood wrought joinery in panelled or panelled and glazed doors and windows of specified thickness with 1" thick solid wood panels with step and 1-1/2"x2-1/2" beadings all around the panels i/c the cost of Tower bolt and handles complete in all respect (Excluding the cost of sliding bolt,lock and chowkats (frame), etc.) as approved and directed by the Engineer Incharge- Deodar Wood 2" thick (50 mm) (for Main Door)	120.00	Sft		Per Sft	

No	Reff	Description	Quantity		Rate	Unit	Amount
34	25/36	Providing and fixing collapsible gate made of 2"x2"x"¼" tee iron at top and bottom, channel iron 'verticals ¾"x¼"x¼"x1/8" (20x6x6x3 mm) at 3" (75 mm) to 5" (125 mm) centre to centre (approximate) and flat iron crosses 3"x3/16" (75x5 mm), and best quality rollers at bottom of 3" (75 mm) diameter including holdfasts, handles 12" (300 mm) long of ¾"x¼"x½"x1/8" channel iron, locking arrangement inside and outside, painting 3 coats of black Japan enameled, complete in working order.	75.00	Sft		Per Sft	
35	10/42	Providing and laying superb quality Porcelain glazed tiles flooring of MASTER brand of specified size in approved design,Color and Shade with adhesive/bond over 3/4"thick (1:3) cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respect as approved and directed by the Engineer Incharge. Full body Classed tiles (ii) 600mmx 600 mm	33500.00	Sft		Per Sft	
36	10/43	Providing and laying superb quality Porcelain glazed tiles of Master brand, skirting/dado of specified size, Color and Shade with adhesive/ bond over 1/2"thick (1:2) cement plaster i/c the cost of and sealer for finishing the joints, cutting grinding complete in all respect as approved and directed by the Engineer Incharge.					
		(ii) 600mmx 600 mm	6850.00	Sft		Per Sft	
37	10/47	Providing and laying 3/4" thick full width Prepolished Marble slab for Vanities / Shelves / Treads/ Window Cills , having Uniform texture (Spotless) with adhesive bond over 3/4" thick (1:2) cement sand mortor i/c the cost of matching sealer complete in all respects as approved and directed by the Engineer Incharge.					
		China Verona	2950.00	Sft		Per Sft	
38	10/48	Extra for Bevelling charges of marble edge in approved design complete in all respects i/c the cost of Carborandam disc as approved and directed by the Engineer Incharge.	750.00	Rft		Per Rft	
39	10/49	Extra cost for making hole in Marble slab for fixtures, Sink,burners, basin Vanities i/c cost of bevelling of internal edge as approved and directed by the Engineer Incharge.	40.00	No		Each	
40	10/50	Providing and laying Prepolished Granite of specified thickness and shade of full width of approved quality laid with adhesive bond over 3/4" thick (1:2) cement sand mortor bed , complete in all respect as approved and directed by the Engineer Incharge (for podium, Stair steps. Risers) (i) 3/4" thick	3575.00	Sft		Per Sft	
41	10/24	Providing and laying superb quality Ceramic tile floors of Master brand of specified size,Glossy/Matt/Texture of approved Color and Shade as per approved design with adhesive bond, over 3/4" thick (1;2) cement sand plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects and as approved and directed by the Engineer Incharge.					
		12"x18"/12"x24"/10"x24" /8"x24"/12"x36"	1450.00	Sft		Per Sft	
42	10/25	Providing and laying superb quality Ceramic tiles dado of Master brand of specified size, Glossy/Matt/Texture skirting/dado of approved Color and Shade with adhesive bond over 1/2"thick (1:2) cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects as approved and directed by the Engineer Incharce.					
		12"x18"/12"x24"/10"x24" /8"x24"/12"x36"	6750.00	Sft		Per Sft	
43	10/18	Extra labour for each storey above ground, for mosaic,conglomerate, tiles, stone and wooden floor.	18,000.00	Sft		% Sft	

No	Reff	Description	Quantity		Rate	Unit	Amount
44	25/59	Providing and fixing M.S. grill fabricated with MS Square polished Vertical/horizontal Bars of specified size @ 4" c/c ' passed through punched holes in MS Patti of $1-1/4"x1/8"$ i/c the cost of $1-1/4"x1/8"$ MS patti for Frame of windows and painting 3 coat complete in all respect as approved and directed by the Engineer Incharge.	2600.00	64		Per Sft	
		(i) 3/8" Squar Bars	3600.00	Sft		PerSit	
45	25/64	Providing and fixing 2'-9" high stair railing comprising of non magnetic (304) Stain less steel 2" dia pipe railing of 18 SWG welded with vertical posts of 2" dia stainless steel round/ Squar pipe @ 2-ft c/c fixed on alternate steps with 3" long steel screws and brass rawal plugs, 3-Nos diagonal stainless steel pipes of 1/2" dia passes through goties fixed on vertical post, i/c stainles steel welding, fixing & polishing complete in all respects as approved and directed by the	200.00	Sft		Per Sft	
46	9/48	Providing and fixing false ceiling comprises of Gypsum board laminated sheet of size 2'x2'/2'x3'/ 3'x3'of specified design and thickness i/c cost of fixtures i.e galvanized angle 1" x 1" at wall sides, galvanized tee 11/4" x 1"and 1 ½" x 1" both at 4' c/c (made of Taiwan CKM or equivalent), hanging with G.I/Copper wire 16 SWG, G.I hook, Rawal Plug etc: complete in all respects as approved and directed by the Engineer Incharge. 9 mm thick	12500.00	Sft		Per Sft	
47	12/60	Providing and fixing 2" wide MS Chowkat singel/double rebate made of 16 SWG MS sheet pressed/welded / supported with M.S. flat 1- 1/4"x1/8" i/c 6"long M.S. Flat 1"x1/8"hold fasts (6-Nos) welded/ screwed, punching of lock hole covered with MS Box,coating with antirust paint including filling with cement sand mortar (1:8) and embedding hold fast in cement concrete (1:2:4) ,complete in all respect as approved and directed by Engineer Incharge.					
		i) 15 " wide ii) 10.50 " wide iii) 5.5 " wide	128.00 3550.00 420.00	Sft Sft Sft		Per Sft Per Sft Per Sft	
48	12/67	Providing and fixing auotomatic hydraulic operated door closer imported heavy duty complete in all respect as approved and directed by the Engineer Incharge.	60.00	No		Each	
49	25/62	P/F Iron door comprising of specified leaves made of 1-1/4" x1-1/4" x3/16" MS angle iron for leaf frame, diagonal and horizontal braces duly welded with MS. sheet 18-SWG i/c the cost of sliding bolt, tower bolt and painting 3-coats but excluding the cost of Chowkat complete in all respect as approved and directed by the Engineer incharge. Double Leaf	120.00	Sft		Per Sft	
50	18/23	Providing and fixing M.S Grating comprising of Angle Iron frame size $1.50^{\circ} \times 1.50^{\circ} \times 3/16^{\circ}$ and $1/2^{\circ}$ square bars duly welded @ 4" c/c, including painting charges etc	60.00	64		Der Off	
		complete in all respect.	60.00	Sft		Per Sft	
51	13/33	Providing and applying weather shield paint of approved quality on external surface of building including preparation of surface, application of primer complete in all respect:New Surface	21900.00	Sft		% Sft	
52	7/38	Providing and laying Fair Face Gutka cladding laid in (1:2) cement / red posso mortar having 1/4" thick groove finish i/c cost of 8 SWG wire in shape of 8 placed horizontally and vertically at 36" and 18" c/c respectively i/c cutting charges as per approved drawing, complete in all respect as approved and directed hybrid processors.	22500.00	0.4		D 04	
		directed by the Engineer Incharge. ii. 2-1/4" x 3" x 9"	33500.00	Sft		P. Sft	

No	Reff	Description	Quantity	Rate	Unit	Amount
53	12/44	Preparing surface and Lacquar polish to reveal wooden grains by application of multiple coats of wood sealer , sand papering with different no of sandpapers and Lacquar to make glossy surface finish i/c the cost of cotton, thinner, wood sealer complete in all respects as approved and directed by the Engineer Incharge. Matt Finish	6000.00 Sf	t	Per Sft	
					Total	
1	N.S	Civil Work (Non-Schedule) P/F Handle Lock (Hiluke/DAF/Khas or equivalent) complete in all respect as approved by Engineer Incharge.	80.00 No		Each	
2	N.S	Providing and fixing UPVC Doors 38mm thickness i/c deluex matching color UPVC Frame (matt or glossy finish) having color (whiteGray- Marble Gray-Oak Wood- Dard Oak Wood, Coffee Wood Honey Pine Wood-Mahagony-Marry Gold-Chocolate Brown-Honey Dew) i/c all accessories complete in all respect as approval by the Engineer	625.00 Si	ť	P/Sft	
3	N.S	Providing & Fixing Looking Glass 5-mm thick best quality,complete in all respect as per specifications and drawings and as approved by the Engineer Incharge.	234.56 Si	ť	P/Sft	
4	N.S	Providing and fixing Steel Floor Jali complete in all respect as per specification and as approved by the Engineering Incharge.	49.00 N	þ	Each	
5	N.S	Providing & Fixing Cabinet consisting of lamination board 3/4" thick for leaves, kail wood frame 2.50" x 1", Gola for 'leaf 3/4" x 3/4" including sprit polish for gola complete in all respects as per design, drawing & pattern as approved by the engineer incharge. (Down portion)	1350.00 St	t	P/Sft	
6	N.S	'Providing & Fixing Cabinet upper portion consisting of lamination board 3/4" thick box and leaves, Partal wood frame 3" x 1", Gola for 'leaf 3/4" x 3/4" including siprit polish for gola complete in all respects as per design, drawing & pattern as approved by the Engineer Incharge. (Upper Portion)	250.00 St	t	P/Sft	
H					Total	

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

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

						MF	S Jan to Jun, 2023
No	Reff	Description	Quantity	y	Rate	Unit	Amount
		Electrical Work					
1	24/3	Supply and erection of PVC pipe for wiring recessed in walls,					
		including inspection boxes, pull boxes, hooks, cutting					
		jharries, and repairing surface, etc., complete with all specials.					
		i) 3/4" i/d (20 mm)	2310.00	М		Per M	
		ii) 1" i/d (25 mm)	2500.00	М		Per M	
		iii) 1.50" i/d (40 mm)	500.00	М		Per M	
		iv) 2" i/d (50 mm)	450.00	М		Per M	
~	04/0	Supply and exaction of DVC ning for receased wiring main and					
2	24/6	Supply and erection of PVC pipe for recessed wiring main and					
	ii	submain) purpose, i/c bends, specials etc in floor, walls or					
		trenches:	450.00			D M	
		3" i/d (80 mm)	450.00	М		Per M	
3	24/10	Supply and erection of single core PVC insulated copper					
		conductor cables, in prelaid PVC pipe/M.S. conduit/G.I					
		pipe/wooden strip batten/wooden casing an capping/G.I.					
		wire/trenches (rate for cables only). 250/440 volts, PVC					
		insulated:					
		i) 3/0.74 mm (3/0.029")	16750.00	м		Per M	
		ii) 7/0.74 mm (7/0.029")	5500.00	M		Per M	
		iii) 7/0.91 mm (7/0.036")	2500.00	M		Per M	
		iv) 7/1.12 mm (7/0.044")	3200.00	M		Per M	
		v) 7/1.63 mm (7/0.064")	1800.00	M		Per M	
		vi) 19/1.32 mm (19/0.052")	1975.00	M		Per M	
		vii) 19/1.63 mm (19/0.064")	1220.00	M		Per M	
		vii) 13/1.00 min (13/0.004)	1220.00	IVI			
4	24/13	Supply and erection of copper conductor cables for service					
		connection, in prelaid pipe/G.I. wire/trenches, etc. (rate for					
		cable only):- PVC insulated, PVC sheathed 4 core, 660/1100					
		volt non armoured cable:-					
		i) 7/1.63 mm (7/0.064")	250.00	М		Per M	
		ii) 19/1.32 mm (19/0.052")	200.00	М		Per M	
		,					
5	24/30	Supply and erection of ceiling rose, bakelite.	50.00	No		Each	
6	24/103	P/F PVC double layer Switch kit Faceplate with specified					
		switch holes i/c the cost of switches / sockets / dimmer made					
		of Hi-Life / Bush / Schenider, screws complete as approved					
		and directed by the Engineer Incharge					
		a) One way Gange Switch					
		Small					
		i) 02 Gange	10.00	No		Each	
		ii) 03 Gange	10.00	No		Each	
		iii) Three pin Light Plug 10/13 Amp	300.00	No		Each	
		iv) Fan Dimmer	120.00	No		Each	
		v) Three Pin Power Plug 15-32 Amp	180.00	No		Each	
			100.00	110		Lach	
		i) 04 Gange	85.00	No		Each	
		ii) 05 Gange	50.00	No		Each	
		ii) 06 Gange	140.00	No		Each	
			0.00			2001	
7	24/102	Providing and fixing Copper winded Exhaust fan with louver					
		and shutter made of Pak/Younas/G.F.C. i/c the cost of					
		necessary cable and hardware for connection from ceiling rose					
		complete as approved and directed by Engineer Incharge.				1	
		a) Plastic body i) 12" dia	25.00	No		Each	

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

No	Reff	Description	Quantit	y	Rate	Unit	Amount
14	24/104	P/F PVC concealed Switch kit Box i/c the cost of screws					
		complete as approved and directed by the Engineer Incharge					
		i) Small	620.00	No		Each	
		ii) Large	275.00	No		Each	
						-	
		Electrical Work (Non-Schodule)				Total	
1	N.S	Electrical Work (Non-Schedule) Supply & installation of LED 24W Down Light (Surface					
	N.0	Mounted, 220V~) i/c any accessories required at site.					
		Complete in all respect as directed and approved by the					
		Engineer Incharge (Philips Meson or Equivalent)	300.00	No		Each	
2	N.S	Supply & installation of LED 600 x 600mm Ceilling Panel Light					
		36W (220V~, CW or WW) i/c any accessories required at					
		site. Complete in all respect as directed and approved by the					
		Engineer Incharge (Philips RC0488 or Equivalent)	400.00	No		Each	
_							
3	N.S	Supply & installation of LED search light 100W (220V~, CW					
		or WW) with fitting arrangement for installation on walls,					
		parapet, pole or etc. i/c any accessories required at site.					
		Complete in all respect as directed and approved by the	12.00	No		Fach	
		Engineer Incharge (Philips BVP 151 or Equivalent)	12.00	INO		Each	
4	N.S	Providing & Fixing of LED Wall Light 15 Watt i/c any					
-	14.0	accessories (i.e. screw. Rawl plug or steel nail, etc.) as					
		required at site. Complete in all respect as directed and					
		approved by the Engineer Incharge. (WL008C OVAL Philips)	50.00	No		Each	
		······································		-			
5	N.S	Supply & installation of Wall Mounted LED Batten Light 20W					
		(220V~, 6500K) i/c any accessories required at site.					
		Complete in all respect as directed and approved by the					
		Engineer Incharge (Philips Slimline or Equivalent)	90.00	No		Each	
6	N.S	Supply & installation of PVC Fan Box with iron bar i/c any					
		accessories required at site. Complete in all respect as				_	
		directed and approved by the Engineer Incharge. (GM, Bita or	120.00	No		Each	
		equivalent)					
7	N.S	Supply & installation of Ceiling Fans, 56" sweep copper					
'	11.5	winding i/c any accessories required at site. Complete in all					
		respect as directed and approved by the Engineer Incharge					
		(Royl Fan/Deluxe, Indus/Supreme, Pak Fan/Deluxe or	120.00	No		Each	
8	N.S	equivalent)					
0	11.5	Supply & installation of 2' x 2' False Ceiling Fan 18" swipe (99.99% Copper), remote controlled i/c any accessories					
		required at site. Complete in all respect as directed and					
		approved by the Engineer Incharge (Royal, Super-asia or	100.00	No		Each	
		Equivalent)					
9	N.S	Supply & installation of Wall Bracket Fan 24" (99.99%				1	
		Copper) i/c any accessories (i.e. mounting screws & etc) as					
		required at site. Complete in all respect as directed and					
		approved by the Engineer Incharge (Younis, Tamoor, Pakfan					
		or Equivalent)	9.00	No		Each	
10	N.S	Providing and Laying earthing for Electric Machines I/c boring					
	11.0	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) &					
		charcoal around copper strip I/c connecting with Electric					
		machine. Complete in all respects as approved and as				1	
		directed by the engineer incharge.	4.00	No		Each	
\vdash						Tete	
						Total	

		The Islamía University of Construction of Academic Block for South Punjab Institu		-	& Enviorn	ment at	
		Baghdad-ul-Jadeed Car Civil Work					E lan ta lun 2022
No	Reff	Description	Quantity	,	Rate	Unit	S Jan to Jun, 2023
1	19/23	Plumbing Work Providing and fixing BATHROOM ACCESSORIES (7-piece set) MASTER BRAND - One Cosmetic Shelf, One Towel rod with bracket, One soap dish, One double hook, One towel ring, brush holder, toilet paper holder & looking glass i/c the cost of hardwares etc complete in all respect as approved and directed by the Engineer incharge. i) Plastic soap dish ii) Plastic toilet paper holder	68.00 30.00	No No	Kale	Each Each	Amount
2	19/1	 iii) Plastic tower rail iii) Plastic shelf 60x13 cm (24:x5") with bracket and railing iv) Looking glass with plastic frame Providing and fitting glazed earthen ware water closet European 	10.00 15.00 14.00	No No No		Each Each Each	
		type, excluding seat and cover:- coloured	17.00	No		Each	
3 4	19/2 19/4	Providing and fixing, double seat and cover only. Bakelite Providing and fitting glazed earthen ware water closet, squatter type (Orisa pattern), combined with foot rest. coloured	17.00 36.00	No No		Each Each	
5	19/7	Providing and fitting glazed earthen ware wash hand basin 56x40 cm (22"x16") including bracket set, waste pipe and waste coupling, etc. i) white, with pedestal ii) Under Counter Vanity Basin	6.00 42.00	No No		Each Each	
6	19/8	Providing and fixing stainless steel sink with drain board, size 120x60 cm (48"x24") including bracket set, waste pipe and waste coupling.	15.00	No		Each	
7	19/52	Providing and fixing CP bath Room Set made of Sonex/Master/Faisal comprising of 3-No Tee stop cocks, lever type Basin Mixer, double Bib Cock, open wall shower, Muslim shower,waste coupling and bottle trap etc. complete in all respect as approved and directed by the Engineer incharge. (i) 3 No Tee Stop Cock (ii) Lever Type Basin Mixer (iii) Double Bib Cock (iv) Muslim shower	40.00 42.00 17.00 17.00	No No No No		Each Each Each Each	
8	23/47	Providing, laying, testing and commissioning of POLYPROPYLENE RANDOM COPOLYMER (PPRC) water supply pipe made of (Dadex /Popular/ Beta / BBJ) with specified pressure rating PN (PRESSURE NOMINAL)and conforming to DIN 8077-8078 code l/c cost of solvent, specials,making jharries complete in all respect as approved and directed by Engineer Incharge. (Internal/External Diameters mentioned).					
		PN-20 pipe (i) (3/4") 25 mm (ii) (1") 32 mm (iii) (1-1/4") 40 mm (iv) (1-1/2") 50 mm (v) (2") 63 mm	2500.00 4000.00 1000.00 350.00 350.00	Rft Rft Rft Rft Rft		Per Rft Per Rft Per Rft Per Rft Per Rft	

No	Reff	Description	Quantity	'	Rate	Unit	Amount
9	23/46	Providing and fixing CP heavy duty brass Ball valve with CP handle of specified diameter made of Faisal/Sonex / Master best quality or equivalent complete in all respect as approved and directed by the Engineer Incharge.					
		i) 1" dia	10.00	No		Each	
		ii) 1-1/4" dia iii) 1.50" dia	5.00 8.00	No No		Each Each	
		iv) 2" dia	6.00	No		Each	
10	19/47	Providing, fixing, testing and commissioning of µ-PVC (Unplasticized polyvinyl Chloride) Nikasi/ waste pipe make of dadex /Popular/Beta/BBJ plain /socket ended conforming to code EN-1401 of specified SDR (Standard Dimension Ratio) including the cost of specials and Solvents complete in all respect as approved and directed by the Engineer Incharge.					
		Type (SDR 41/SN-4)					
		i) 3"(85 mm)	500.00	Rft		Per Rft	
		ii) 4"(110 mm) iii) 6" (160 mm)	3350.00 500.00	Rft Rft		Per Rft Per Rft	
11	19/49	Providing, laying, testing and commissioning underground Yellow Polyethelene flexible gas pipe Tubing of required IPS(Iron Pipe Size) in the trenches , made of (Dadex/ Popular / Beta/ BBJ) for Gas supply <i>i</i> /c the cost of solvent and specials complete as approved and directed by the Engineer Incharge.					
		SDR-11					
		(ii) 1"	800.00	Rft		Per Rft	
		(ii) 2" (ii) 1-1/2"	500.00 700.00	Rft Rft		Per Rft Per Rft	
12	19/48	Providing, fixing, testing and commissioning of μ-PVC (Unplasticized polyvinyl Chloride) Nikasi/ waste pipe Fittings make of dadex /Popular/Beta/BBJ conforming to code EN-1401 ncluding the cost of Solvents complete in all respect as approved and directed by the Engineer Incharge.					
		(a) P-Trap					
		(i) 4" dia (b) Vent Cowel	150.00	No		Each	
		(i) 3" dia	10.00	No		Each	
13	19/13	Providing and fitting plastic made low down flushing cistern 13.63 litre (3 gallons) capacity, including bracket set, copper connection, etc. complete.	36.00	No		Each	
14	21/3	Providing and laying R.C.C. pipe, moulded with cement concrete 1:1½:3, with spigot socket or collar joint, etc. including cost of reinforcement, conforming to B.S. 5911: Part I: 1981, Class "L" including carriage of pipe from factory to site of work, lowering in trenches to correct alignment and grade, jointing, cutting pipes where necessary, finishing and testing,					
		etc., complete. ii) 12 " i/d	500.00	Rft		Per Rft	
15	19/27	Providing and fixing chromium plated bib cock:-					
	10/21	1.5 cm (1/2")	17.00	No.		Each	
16	19/42	Providing and fitting chromium plated or oxidised, gas cock 6mm (1/4") Two way	5.00	No.		Each	
+						Total	

40.00 0.00 00.00 27.00 50.00	Cft Cft Sft Sft	%o Cft % Cft % Cft % Sft % Sft	
0.00 00.00 00.00 27.00	Cft Cft Sft Sft	% Cft % Cft % Sft % Sft	
0.00 00.00 00.00 27.00	Cft Cft Sft Sft	% Cft % Cft % Sft % Sft	
0.00 00.00 00.00 27.00	Cft Cft Sft Sft	% Cft % Cft % Sft % Sft	
0.00 00.00 00.00 27.00	Cft Cft Sft Sft	% Cft % Cft % Sft % Sft	
0.00 00.00 00.00 27.00	Cft Cft Sft Sft	% Cft % Cft % Sft % Sft	
0.00 00.00 00.00 27.00	Cft Cft Sft Sft	% Cft % Cft % Sft % Sft	
00.00 00.00 27.00	Cft Sft Sft	% Cft % Sft % Sft	
00.00 00.00 27.00	Cft Sft Sft	% Cft % Sft % Sft	
00.00 00.00 27.00	Cft Sft Sft	% Cft % Sft % Sft	
00.00 27.00	Sft Sft	% Sft % Sft	
00.00 27.00	Sft Sft	% Sft % Sft	
00.00 27.00	Sft Sft	% Sft % Sft	
27.00	Sft	% Sft	
27.00	Sft	% Sft	
27.00	Sft	% Sft	
	Cft	%o Cft	
1.00			
1.00			
1.00		1 1	
1.00			
1.00	No.	Each	
	INO.	Each	
.00	Con	P.Con	
.00	Con	P.Con	
0.00	Rft	Per Rft	
		Total	
00.00	Cft	% Cft	
36.00	Cft	% Cft	
60.00	Sft	Per Sft	
		1 1	
	5.	50	
00.00	Rft	Rft	

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

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

Estimate Based on MRS Jan-Jun, 2023

ABSTRACT OF COST

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

P-1

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

						M	RS Jan-Jun, 2023
No.	Reff.	Description	Quantity		Rate	Unit	Amount
1	• • • •	Civil Work Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and rammiing lead 'upto one chain (30 m) and lift upto 5 ft. (1.5 m). By Excavator (ii) In ordinary soil.	97500.00	Cft		%o Cft	
2	3/18	Dressing and levelling of earhtwork to designed section, etc. Ordinary or hard soil	25000.00	Cft		%o Cft	
3		Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): i) Ratio 1: 2: 4 (For Flooring) ii) Ratio 1:4:8	5500.00 500.00	Cft Cft		% Cft % Cft	
4	6/3	Cement concrete brick or stone ballast $1\frac{1}{2}$ " to 2" (40 mm to 50 mm) gauge, in foundation and plinth:- Ratio 1: 4:8	4650.00	Cft		% Cft	
5	26/43	Spraying anti termite proofing by using liquid FMC Biflex 2.5%EC Mixing Ratio 1:50=137-Sft or using liquid MIRAGE Ali Akbar /RANGERS Auriga 5% SC Mixing Ability-HEXTAR Ratio 1:110=205-Sft or any other equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10-years complete in all respect .as approved by the Engineer Incharge	35000.00	Sft		Per Sft	
6	7/4 (i)	Pacca brick work in foundation and plinth in:-C/S mortar:Ratio 1:6	31500.00	Cft		% Cft	
7		Providing and laying damp proof course of cement concrete 1:2: 4 (using cement, sand and shingle), including bitumen coating:-with 1 coat bitumen and 1 coat polythene sheet 500 gauge. 2" thick	4700.00	Sft		% Sft	
8		Providing and laying vertical damp proof course with cement sand cement sand plaster and bitumen coating:- with one coat of bitumen and one coat of polythene sheet 500 gauge: Ratio 1:3 ¾ " thick (20 mm)	3150.00	Sft		% Sft	
9		Filling, watering and ramming earth under floors:- i) with surplus earth from foundation, etc. ii) with new earth excavated from outside,lead upto One (1) Mile		Cft Cft		%o Cft %o Cft	
10	a+b	 Compaction of earthwork (soft, ordinary or hard soil) :- a) Mixing, moistening earth to optimum moisture content in layers for compaction, etc. complete. b) Compaction by rolling with animal driven roller/hand rammed:soft or sandy soil 	128500.00	Cft		%o Cft	
11		Pacca brick work in Cement, sand mortar:- Ratio 1:5 i) Ground Floor (7/5-i) ii) First Floor (7/5-i) + (7/6-i) ii) Second Floor	24500.00 23550.00 3400.00	Cft Cft Cft		% Cft % Cft % Cft	
12		Pacca brick work in Cement, sand mortar:- Ratio 1:4 i) Ground Floor (for 4.5" thick wall) ii) First Floor ii) Second Floor	700.00 980.00 850.00	Cft Cft Cft		% Cft % Cft % Cft	
13	11/10	Cement plaster 3/8" (10 mm) thick under soffit of R.C.C. roof slabs only, upto 20' height. Ratio 1:3	29500.00	Sft		% Sft	
	+11/28	Cement plaster 1:4 upto 20' (6.00 m) height:- i) ½" (13 mm) thick (11/9-b) ii) 3/4" (20 mm) thick iii) 3/4" (20 mm) thick 20' to 30' height iii) 3/4" (20 mm) thick 30' to 40' height	66500.00 46700.00 23600.00 12500.00	Sft Sft Sft Sft		% Sft % Sft % Sft % Sft	

	Reff.	Description	Quantity	,	Rate Unit	Amount
15	26/37	Supplying and laying polythene sheet over D.P.C. under floors and on roofs, etc. 500 gauge (.005" thick)	29500.00	Sft	Per Sft	
		noors and on roots, etc. 500 gauge (.005 tinck)	23300.00	on		
16	6/12	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars) deformed bars i) Deformed Bar 60-Grade	75000.00	Kg	% Kg	
17		Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects Type B (nominal mix1:1½:3) using harrow sand i) Ground Floor (6/6(a-i)2)	8195.00	Cft	Per Cft	
		ii) First Floor (6/6(a-i)2+6/6-d)	7750.00	Cft	Per Cft	
18		Supplying and filling sand under floor; or plugging in wells		Cft	% Cft	
19	6/2	Dry rammed brick or stone ballast, 1½" to 2"(40 mm to 50 mm) gauge.	12000.00	Cft	% Cft	
20	9/45	Providing and Laying Insulation material of Extruded Polystyrene XPS in Rigid Insulation/Foam Board on roof or walls, Density 32-38Kg/M, compressive strength 250-400 kpa, R-value 5 per inch thickness and water obsorbtion (1% by volume, cell structure clored cell) i/c cutting and placing in position complete in all respect 1.5" thick	13500.00	Sft	% Sft	
21	9/5	Single layer of tiles 9"x4½"x1½" (225x113x40 mm) laid over 4"(100 mm) earth and 1" (25 mm) mud plaster without Bhoosa, grouted with cement sand 1:3 on top of RCC roof 'slab, provided with 34 lbs. per %Sft. or 1.72 Kg/Sq.mbitumen coating sand blinded. (add 6% on composite rate) first floor	13500.00	Sft	% Sft	
22	12/50	P/F 1-1/2" thick Solid Flush Door comprising of 2.5 mm thick Commercial ply compressed over 2.5 mm thick commercial ply over 1" thick packing wood in style and rails under proper pressure i/c the cost of nails, tower bolt , handles, glue, sawing charges, Painting charges, sand papering and 3/8" thick matching wooden lipping as approved and directed by the Engineer Incharge.	2750.00	Sft	Per Sft	
23		Rehandling of earthwork plus additional lead or part thereof :-Upto a lead of 500 ft. (150 m).	18500.00	Cft	%o Cft	
24	25/51	Providing and fixing all types of partly fixed and partly openable glazed anodised bronze colour , using delux section of M/s Al-Cop or Pakistan 'Cables, having chowkat frame of size 40 x 100 mm (1½" x '4") and leaf frame of 60x40mm (2½"x1½") wide all of sections including the cost of ¼" (5 mm) thick imported tinted 'glass with aluminium triangular gola and rubber gasket to support the glass and leaf edging, using approved 'standard fittings, locks, 3" (75 mm) wide long handles etc., and hardware any required as approved by the engineer in-charge. 2mm thickness.	400.00	Sft	Per Sft	
25	25/52	Providing and fitting all types of glazed <u>Aluminium Windows</u> of anodised bronze colour partly fixed and partly sliding using delux sections of M/s Al-Cop or Pakistan 'Cables having frame size of 100 x 20 mm (4"x ³ /4") and 'leaf frame sections of 50 x 20 mm (2"x ³ /4"), all of including 5 'mm thick imported tinted glass with rubber gasket using approved standard latches hardware etc., as approved by the Engineer. 1.60 mm Thickness	3350.00	Sft	Per Sft	

No.	Reff.	Description	Quantity	Rate Unit	Amount
26	25/53	Providing and fixing Aluminum Fly Screen comprising of Fiber/ Aluminum wireguaze (Malasian) fixed in aluminum frame of approved manu facturer brownze Colour/powder coated of size 1-1/2"x1/2" and 1.6mm thick with rubber gasket i/c cost of Hard wares as approved and directed by the engineer incharge.	1675.00 Sft	t Per Sft	
27	10/18	Extra labour for each storey above ground, for mosaic, tiles, conglomerate,stone and wooden floor. (1st Floor Labour Only)	18500.00 Sfi	s % Sft	
28		Fabrication of heavy steel work, with angle, tees, flat iron round iron and sheet iron for making trusses, girders, 'tanks, etc., including cutting, drilling, revitting, handling, assembling and fixing, including erection in position.	890.00 Kg	% Kg	
29	11/23	Distempering:-a) new surface:- 3 Coats (For Ceiling)	30000.00 Sf	s %Sft	
30	13/46	Providing and applying Wall Putty of 2mm thickness over plastered surface (new surface) to prepare the surface even and smooth complete in all respects.(On Interior Walls/Members Only)	87000.00 Sf	: %Sft	
31	13/31	Preparing surface & painting with 3 coats Emulsion Paint complete in all respects	87000.00 Sft	% Sft	
32	13/5	Painting new surface: Preparing surface and Painting of Doors and Windows any type (including edges):- 3 coats	4800.00 Sfi	t % Sft	
33	+13/41	Providing and Applying Weather Shield Paint of approved quality on external surface of building including preparation of surface, application of primer complete in all respect: new surface 2 coats i) upto 20' height ii) 20' to 30 height iii) 30' to 40 height	17800.00 Sfi 16300.00 Sfi 2250.00 Sfi	% Sft	
34	12/7-a	Providing and fixing 1st class solid wood wrought joinery in panelled or panelled and glazed doors and windows of specified thickness with 1" thick solid wood panels with step and 1-1/2"x2-1/2" beadings all around the panels i/c the cost of Tower bolt and handles complete in all respect (Excluding the cost of sliding bolt,lock and chowkats (frame), etc.) as approved and directed by the Engineer Incharge Incharge (i) 2" thick (50 mm) For Main Enterance Door	120.00 Sft	t Per Sft	
35	13/44	Preparing surface and Lacquar polish to reveal wooden grains by application of multiple coats of wood sealer , sand papering with different no of sandpapers and Lacquar to make glossy surface finish i/c the cost of cotton, thinner, wood sealer complete in all respects as approved and directed by the Engineer Incharge. Glossy Finish (For Main Enterance Door)	250.00 Sfi	t Per Sft	
36		Providing and laying topping of cement concrete 1:2:4, including surface finishing and dividing in panels:- 3" thick	3200.00 Sft	s % Sft	
37	а	P/F 3/4" dia heavy duty sliding bolt of specified material i/c the cost of hardware complete in all respect as approved and directed by the Engineer Incharge. Iron Sliding Bolt, 12" (300 mm) long Brass Sliding Bolt 18" (450 mm) long (Main Enterance Door)	90.00 Nc 2.00 Nc		
38	10/40	Providing and fixing marble strip of any shade for dividing the mosaic flooring into panels Size $1\frac{1}{2}x3/8$ " (40x10mm)	1650.00 Rft	t Per Rft	

No.	Reff.	Description	Quantity		Rate	Unit	Amount
		Khuras on roof 2'x2'x6" (600 x 600 x 150 mm)		No		Each	
40		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 (50% Grey (50% Coloured) 60 mm thick	5000 00	C#		D/0#	
		require slope (50% Grey / 50% Coloured) 60 mm thick	5000.00	Sft		P/Sft	
41	6/27-ii	Providing and fixing 6 in(150 mm). wide Curved Sheet of required shape fixed on face of the Construction Joint with G.I.screw,1.5 in (40 mm) long to cover construction joints vertically:- G.I. sheet, 18 SWG	550.00	Rft		Per Rft	
42	9/12	Two coats of bitumen laid hot using 34 lbs. per %Sft, or 1.72 Kg per square metre over roof and blinded with sand at one Cft. per %Sft. (0.003 cu.m per sq.m)	13500.00	Sft		% Sft	
43	6/31	Providing embeding 10" (250 mm) wide ¼" (6 mm) thick rubber water stopper in expansion joints of R.C.C. roof slab complete in all respects.	180.00	Rft		Per Rft	
44	1/1	Carriage of 100 Cft. (2.83 cu.m) of all materials like stone aggregate, spawl, kankar lime (unslaked), surkhi, etc. or 150 Cft. (4.25 cu.m) of timber, by truck or by any other means owned by the contractor. Lead 366 Km from Sargodha (or approved quarry to site of work)	22500.00	Cft		% Cft	
45		Providing and laying superb quality Porcelain glazed tiles flooring of MASTER brand of specified size in approved design,Color and Shade with adhesive/bond over 3/4"thick (1:3) cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respect as approved and directed by the Engineer Incharde. Full body Glazed tiles (ii) 600mmx 600 mm	26800.00	Sft		Per Sft	
46		Providing and laying superb quality Porcelain glazed tiles of Master brand, skirting/dado of specified size, Color and Shade with adhesive/ bond over 1/2"thick (1:2) cement plaster i/c the cost of and sealer for finishing the joints, cutting grinding complete in all respect as approved and directed by the Engineer Incharge.					
		(ii) 600mmx 600 mm	3500.00	Sft		Per Sft	
47		Providing and laying 3/4" thick full width Prepolished Marble slab for Vanities / Shelves / Treads/ Window Cills , having Uniform texture (Spotless) with adhesive bond over 3/4" thick (1:2) cement sand mortor i/c the cost of matching sealer complete in all respects as approved and directed by the Engineer Incharge.					
		China Verona	1700.00	Sft		Per Sft	
48		Extra for Bevelling charges of marble edge in approved design complete in all respects i/c the cost of Carborandam disc as approved and directed by the Engineer Incharge.	500.00 I	Rft		Per Rft	
49	10/49	Extra cost for Making Hole in Marble slab for fixtures, Sink,burners, basin Vanities i/c cost of bevelling of internal edge as approved and directed by the Engineer Incharge.	40.00	No		Each	
50		Providing and laying Prepolished Granite of specified thickness and shade of full width of approved quality laid with adhesive bond over 3/4" thick (1:2) cement sand mortor bed, complete in all respect as approved and directed by the Engineer Incharge (f or podium, Stair steps, Risers) (i) 3/4" thick	2250.00	Sft		Per Sft	
51	10/24	Providing and laying superb quality Ceramic Tile Floors of Master brand of specified size,Glossy/Matt/Texture of approved Color and Shade as per approved design with adhesive bond, over 3/4" thick (1;2) cement sand plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects and as approved and directed by the Engineer Incharge.					
		12"x18"/12"x24"/10"x24" /8"x24"/12"x36"	2550.00	Sft		Per Sft	
L							

	Reff.	Description	Quantity	Rate Unit	Amount
52	10/25	Providing and laying superb quality Ceramic Tiles Dado of Master brand of specified size,Glossy/Matt/Texture skirting/dado of approved Color and Shade with adhesive bond over 1/2"thick (1:2) cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects as approved and directed by the Engineer Incharge. 12"x18"/12"x24"/10"x24" /8"x24"/12"x36"	7300.00 Sf	t Per Sft	
53	25/59	Providing and fixing M.S. grill fabricated with MS Square polished Vertical/horizontal Bars of specified size @ 4" c/c ' passed through punched holes in MS Patti of 1-1/4"x1/8" i/c the cost of 1-1/4"x1/8" MS patti for Frame of windows and painting 3 coat complete in all respect as approved and directed by the Engineer Incharge.			
		(i) 3/8" Squar Bars	3250.00 Sf	Per Sft	
54	25/64	Providing and fixing 2'-9" high stair railing comprising of non magnetic (304) Stain less steel 2" dia pipe railing of 18 SWG welded with vertical posts of 2" dia stainless steel round/ Squar pipe @ 2-ft c/c fixed on alternate steps with 3" long steel screws and brass rawal plugs, 3-Nos diagonal stainless steel pipes of 1/2" dia passes through goties fixed on vertical post, i/c stainles steel welding. fixing & polishing complete in all respects as approved and	425.00 Sf	: Per Sft	
55	12/62	Providing and fixing almirah shutter comprising of 3/4" thick both side Laminated/Glossy MDF (Karachi) sheet with 1"x3/4"deodar wood golla all around the leaf fixed on (3"x1") Kail wood frame i/c the cost of 1/2" full brass hinges, C.P.handles, catchers, screws, and rawal plugs, polishing/ paint ing 3 coat to gola & frame i/c the cost of locking arrangement complete in all respect as approved and directed by Engineer Incharge. (for Rooms)			
		approved and directed by Engineer incharge. (for Rooms)	4750.00 Sf	Per Sft	
56	9/48	Providing and fixing False Ceiling comprises of Gypsum board laminated sheet of size 2'x2'/2'x3'/ 3'x3'of specified design and thickness i/c cost of fixtures i.e galvanized angle 1" x 1" at wall sides, galvanized tee $1\frac{1}{4}$ " x 1"and $1\frac{1}{2}$ " x 1" both at 4' c/c (made of Taiwan CKM or equivalent), hanging with G.I/Copper wire 16 SWG, G.I hook, Rawal Plug etc: complete in all respects as approved and directed by the Engineer Incharge.			
		9 mm thick	1500.00 Sf	Per Sft	
57	12/17	Providing and fixing 2" wide MS Chowkat Singel/Double Rebate made of 16 SWG MS sheet pressed/welded / supported with M.S. flat 1-1/4"x1/8" i/c 6"long M.S. Flat 1"x1/8"hold fasts (6-Nos) welded/ screwed, punching of lock hole covered with MS Box,coating with antirust paint including filling with cement sand mortar (1:8) and embedding hold fast in cement concrete (1:2:4) ,complete in all respect as approved and directed by Engineer Incharge.			
		i) 15 " wide ii) 10.50 " wide	120.00 Sf 22.50 Sf		
		iii) 5.5 " wide	750.00 Sf		
58	12/67	Providing and fixing Auotomatic Hydraulic Operated Door Closer imported heavy duty complete in all respect as approved and directed by the Engineer Incharge.	8.00 No	Each	
59	25/62	P/F Iron Door comprising of specified leaves made of 1-1/4" x1-1/4" x3/16" MS angle iron for leaf frame, diagonal and horizontal braces duly welded with MS. sheet 18-SWG i/c the cost of sliding bolt, tower bolt and painting 3-coats but excluding the cost of Chowkat complete in all respect as approved and directed by the Engineer incharge. Double Leaf	80.00 Sf	: Per Sft	
60	18/23	Providing and fixing M.S Grating comprising of Angle Iron frame size 1.50" x 1.50" x 3/16" and 1/2" square bars duly welded @ 4" c/c, including painting charges etc complete in all respect.	200.00 Sf	t Per Sft	
			200.00 51		

No.	Reff.	Description	Quantity	Rate Unit	Amount
61		Providing and laying fair face Gutka cladding laid in (1:2)			
		cement / red posso mortar having 1/4" thick groove finish i/c cost of 8 SWG wire in shape of 8 placed			
		horizontally and vertically at 36" and 18" c/c			
		respectively i/c cutting charges as per approved			
		drawing excluding carriage charges complete in all			
		respect as approved and directed by the Engineer Incharge.	00750.00 0#		6
		2-1/4" x 3" x 9"	22750.00 Sft	Per S	rt
62	12/58	Providing and fixing ornamental wooden architrave 3" x			
		(1½" tapered to $\frac{1}{4}$ ") all along the door frame complete in all			
		respects Deodar wood architrave	1020.00 Sft	Per S	ft
				Tota	1
		Civil Work (Non-Schedule)			
1		Structural excavation in any kind of soil above / below water level for levelling and grading of building, for raft /			
		foundations and other structures upto any depth, and			
		disposal of unsuitable / surplus excavated material outside			
		the project premises at any lead, including restoration of			
		any damages during excavation is the responsibility of contractor complete in all respects as per Specifications			
		and as per approval of The Engineer.	28503.35 Cft	Per C	ft
2		Supplying, filling select fill material as specified in the			
		drawing including all lead and lift dressing watering and compacting to produce in situ dry density not less than	69171.20 Cft	Per C	ft
		95% modified AASHTO or as directed by the engineer	00111.20 011		
3		Providing and fixing UPVC Doors 38mm thickness i/c deluex matching color UPVC Frame (matt or glossy finish) having color			
		(whiteGray-Marble Gray-Oak Wood- Dard Oak Wood, Coffee			
		Wood Honey Pine Wood-Mahagony-Marry Gold-Chocolate	750.00 Sft	Per S	ft
		Brown-Honey Dew) i/c all accessories			
		complete in all respect as approval by the Engineer Incharge.			
4	N.S	Providing & Fixing Cabinet consisting of lamination board 3/4"			
		thick for leaves, kail wood frame 2.50" x 1", Gola for 'leaf 3/4" x			
		3/4" including sprit polish for gola complete in all respects as per			
		design, drawing & pattern as approved by the engineer incharge. (Down portion)	450.00 Sft	P/S	ft
		(
5		Providing & Fixing Cabinet upper portion consisting of lamination			
		board 3/4" thick box and leaves, Partal wood frame 3" x 1", Gola for 'leaf 3/4" x 3/4" including siprit polish for gola complete			
		in all respects as per design, drawing & pattern as approved by			
		the Engineer Incharge. (Upper Portion)	250.00 Sft	P/S	ft
e	NC	Supply & installation Durper 26 Nevel with easier 9 round			
6		Supply & installation Burner 36 Nozel with casing & round iron plate (pan) Complete in all respect and approved by			
		Engineer Incharge.	5.00 No	Each	1
7		Supply & installation Burner 24 Nozel with casing Complete in all respect and approved by Engineer Incharge.	1.00 No	Each	
		in an respect and approved by Engineer monarge.	1.00 110	EdCl	'
8		Supply & installation Tandoor large size dia (25 Roti)			
		complete in all respect and approved by Engineer inch.	1.00 No	Each	
9	N.S	Providing and fixing Steel Floor trap Jali complete in all			
		respect as per specification and as approved by the Engineering Incharge.	60.00 No	Each	
10		Providing & Fixing Looking Glass 5-mm thick best			
		quality,complete in all respect as per specifications and			<i>c</i> .
		drawings and as approved by the Engineer Incharge.	265.00 Sft	Per S	11
⊢				Tota	1

No.	Reff.	Description	Quantity	Rate	Unit	Amount
1	3/44	Plumbing Work Excavation of trenches in all kinds of soil, except cutting rock, for watersupply pipelines upto 5 ft. (1.5 m) depth from ground level, including trimming, dressing sides, leveling the beds of trenches to correct grade and cutting pits for joints, etc. complete in all respects.	8500.00 Cff		%oCft	
2	3/42	Earthwork excavation in open cutting for sewers and manholes as shown in drawings including shuttering and timbering, dressing to correct section and dimensions according to templates and levels, and removing surface water, in all types of soil except shingle, gravel and rock:- 0 ft. to 7.0 ft. (0 to 2.10 m) depth	10720.00 Cff		%oCft	
3	19/23	Providing and fixing BATHROOM ACCESSORIES (7-piece set) i) Plastic soap dish ii) Plastic toilet paper holder iii) Plastic tower rail iii) Plastic shelf 60x13 cm (24:x5") with bracket and railing iv) Looking glass with plastic frame	16.00 No 8.00 No 16.00 No 4.00 No 4.00 No		Each Each Each Each Each Each	
4	19/1	Providing and fitting glazed earthen ware water closet European type, excluding seat and cover:- coloured	10.00 No		Each	
5	19/2	Providing and fixing, double seat and cover only. Bakelite	10.00 No		Each	
6	19/4	Providing and fitting glazed earthen ware water closet, squatter type (Orisa pattern), combined with foot rest. coloured	18.00 No		Each	
7	19/7	Providing and fitting glazed earthen ware wash hand basin 56x40 cm (22"x16") including bracket set, waste pipe and waste coupling, etc.				
		i) white, with pedestal ii)Under Counter Vanity Basin	6.00 No 24.00 No		Each Each	
8	19/8	Providing and fixing stainless steel sink with drain board, size 120x60 cm (48"x24") including bracket set, waste pipe and waste coupling.			Each	
9	19/52	Providing and fixing CP bath Room Set made of Sonex/Master/Faisal comprising of 3-No Tee stop cocks, lever type Basin Mixer, double Bib Cock, open wall shower, Muslim shower,waste coupling and bottle trap etc. complete in all respect as approved and directed by the Engineer incharge.				
		 (i) 3 No Tee Stop Cock (ii) Lever Type Basin Mixer (iii) Double Bib Cock (iv) Muslim shower v) Open Type Wall Shower 	90.00 No 24.00 No 6.00 No 10.00 No 20.00 No		Each Each Each Each Each	
10	23/47	 P/laying, testing and commissioning of POLYPROPYLENE RANDOM COPOLYMER (PPRC) water supply pipe made of (Dadex/Popular/ Beta / BBJ) with specified pressure rating PN (PRESSURE NOMINAL)and conforming to DIN 8077-8078 code i/c cost of solvent, specials,making jharries complete in all respect as approved and directed by Engineer Incharge. PN-20 pipe 				
		(i) (3/4") 25 mm (ii) (1") 32 mm (iii) (1-1/4") 40 mm (iv) (1-1/2") 50 mm (v) (2") 63 mm	4000.00 Rff 3500.00 Rff 1000.00 Rff 500.00 Rff 500.00 Rff		Per Rft Per Rft Per Rft Per Rft Per Rft	

No.	Reff.	Description	Quantit	.y	Rate	Unit	Amount
11		Providing and fixing CP heavy duty brass Ball valve with CP handle of specified diameter made of Faisal/Sonex / Master best quality or equivalent complete in all respect as approved and directed by the Engineer Incharge.					
		i) 1" dia	8.00	No		Each	
		ii) 1-1/4" dia iii) 1.50" dia	4.00 4.00	No No		Each Each	
		iv) 2" dia	4.00 2.00	No		Each	
12		Providing, fixing, testing and commissioning of µ-PVC (Unplasticized polyvinyl Chloride) Nikasi/ waste pipe make of dadex /Popular/Beta/BBJ plain /socket ended conforming to code EN-1401 of specified SDR (Standard Dimension Ratio) including the cost of specials and Solvents complete in all respect as approved and directed by the Engineer Incharge.					
		Type (SDR 41/SN-4)					
		i) 3"(90 mm) ii) 4"(110 mm)	500.00 1200.00	Rft Rft		Per Rft Per Rft	
		iii) 6" (160 mm)	600.00	Rft		Per Rft	
13		Providing, laying, testing and commissioning underground Yellow Polyethelene flexible gas pipe Tubing of required IPS(Iron Pipe Size) in the trenches, made of (Dadex/ Popular / Beta/ BBJ) for Gas supply i/c the cost of solvent and specials complete as approved and directed by the Engineer Incharge. SDR-11					
		(ii) 1" (iii) 1.50"	1350.00 500.00	Rft Rft		Per Rft Per Rft	
14	19/49	Providing, fixing, testing and commissioning of µ-PVC (a) P-Trap	500.00	κιι			
		(i) 4" dia	45.00	No		Each	
		(b) Vent Cowel (i) 3" dia	15.00	No		Fach	
		(1) 5 01a	15.00	No		Each	
15		Providing and fitting plastic made low down flushing cistern 13.63 litre (3 gallons) capacity, including bracket set, copper connection, etc. complete.	18.00	No		Each	
16		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" i/c carriage of pipe from factory to site of work, lowering in					
		trenches to correct alignment and grade, jointing, cutting pipes					
		where necessary, finishing and testing, etc., complete.9" i/d	500.00	Rft		Rft	
17	19/27	Providing and fixing chromium plated bib cock:- 1.5 cm ($\frac{1}{2}$ ")	17.00	No.		Each	
10	10/10	Providing and fitting chromium plated or oxidised, gas cock					
10		6mm (1/4") Two way	5.00	No.		Each	
						Tatal	
		Electrical Work				Total	
1	24/3	Supply and erection of PVC pipe for wiring recessed in walls, including inspection boxes, pull boxes, hooks, cutting jharries,and repairing surface, etc., complete with all specials.					
		i) 3/4" i/d (20 mm)	2250.00	М		Per M	
		ii) 1" i/d (25 mm) iii) 1 50" i/d (40 mm)	2300.00 250.00	M M		Per M Per M	
		iii) 1.50" i/d (40 mm) iv) 2" i/d (50 mm)	250.00 450.00	M		Per M Per M	
2	24/6 ii	Supply and erection of PVC pipe for recessed wiring main and submain) purpose, i/c bends, specials etc in floor, walls or	- / -				
		trenches:	800.00	N 4		DerM	
		3" i/d (80 mm)	800.00	М		Per M	
3		Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe/M.S. conduit/G.I					

No.	Reff.	Description	Quantity	Rate Ur	nit Amount
		pipe/wooden strip batten/wooden casing an capping/G.I.			
		wire/trenches (rate for cables only). 250/440 volts, PVC insulated:			
		i) 3/0.74 mm (3/0.029")	13500.00 M	Per	M
		ii) 7/0.74 mm (7/0.029")	5852.00 M	Per	M
		iii) 7/0.91 mm (7/0.036")	2550.00 M	Per	
		iv) 7/1.12 mm (7/0.044") v) 7/1.63 mm (7/0.064")	3000.00 M 1600.00 M	Per Per	
		vi) 19/1.32 mm (19/0.052")	2100.00 M	Per	
		vii) 19/1.63 mm (19/0.064")	1000.00 M	Per	
	24/12	Supply and erection of copper conductor cables for service			
4		connection, in prelaid pipe/G.I. wire/trenches, etc. (rate for			
		cable only):- PVC insulated, PVC sheathed 4 core, 660/1100			
		volt non armoured cable:-			
		i) 7/1.63 mm (7/0.064")	300.00 M	Per	
		ii) 19/1.32 mm (19/0.052")	285.00 M	Per	M
5	24/30	Supply and erection of ceiling rose, bakelite.	100.00 No	Ea	ch
6	24/103	P/F PVC double layer Switch kit Faceplate with specified			
		switch holes i/c the cost of switches / sockets / dimmer made			
1		of Hi-Life / Bush / Schenider, screws complete as approved			
		and directed by the Engineer Incharge a) One way Gange Switch			
		Small			
1		i) 02 Gange	12.00 No	Ea	
		ii) 03 Gange	12.00 No	Ea	
		iii) Three pin Light Plug 10/13 Amp iv) Fan Dimmer	300.00 No 90.00 No	Ea Ea	
1		v) Three Pin Power Plug 15-32 Amp	120.00 No	Ea	
		Large			
1		i) 04 Gange	50.00 No	Ea	
		ii) 05 Gange iii) 06 Gange	50.00 No 120.00 No	Ea	
		in, oo Gange	120.00 INO	Ea	511
7		P/F PVC concealed Switch kit Box i/c the cost of screws			
		complete as approved and directed by the Engineer Incharge	E04.00 N		ah
		i) Small ii) Large	534.00 No 220.00 No	Ea Ea	
		,			
8		Providing and fixing Copper winded Exhaust fan with louver			
		and shutter made of Pak/Younas/G.F.C. i/c the cost of			
		necessary cable and hardware for connection from ceiling rose complete as approved and directed by Engineer Incharge.			
1		a) Plastic body			
1		i) 12" dia	35.00 No	Ea	ch
_	o				
9	24/86	Suppling,Installation and comissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND			
1		FRANCE/ GE U.S.A / SCHNEIDER GERMANY /SIEMEN			
		GERMAN/TERASAKI JAPAN/ ABB SWITZERLAND in prelaid			
1		DBs and Panels i/c the cost of screwes, necessary w wire			
1		complete in all respect as approved and directed by the Engineer Incharge			
		Single Pole			
		6-40 Amp (6 KA)	550.00 No	Ea	ch
10		Supplying ,Installation and commissioning of MCCB (Moulded			
1		Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI			
1		JAPAN/SIEMEN/ABB SWITZERLAND (with fixed			
1		Thermal-Magnetic Trip) in prelaid DBs and Panels			
1		i/c the cost of screws, necessary wire complete in all respect			
1		as approved and directed by the Engineer Incharge			
		Tripple Pole i) 15-100 Amp(18 KA)	40.00 No	Ea	ch
1		ii) 125-250 Amp(18 KA)	40.00 No	Ea	-
		iii) 300-630 Amp(36 KA)	4.00 No	Ea	
					-

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

No.	Reff.	Description	Quantit	y	Rate	Unit	Amount
4		Providing & Fixing of LED Wall Light 15 Watt i/c any accessories (i.e. screw. Rawl plug or steel nail, etc.) as required at site. Complete in all respect as directed and approved by the Engineer Incharge. (WL008C OVAL Philips)	70.00	No		Each	
5		Supply & installation of Wall Mounted LED Batten Light 20W (220V~, 6500K) Size 4 Feet long, i/c any accessories required at site Complete in all respect as directed and approved by the Engineer Incharge (Philips Slimline or Equivalent)	340.00	No		Each	
6		Supply & installation of PVC Fan Box with iron bar i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge. (GM, Bita or equivalent)	90.00	No		Each	
7		Supply & installation of Ceiling Fans, 56" sweep copper winding i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Royl Fan/Deluxe, Indus/Supreme, Pak Fan/Deluxe or equivalent)	90.00	No		Each	
8		Supply & installation of 2' x 2' False Ceiling Fan 18" swipe (99.99% Copper), remote controlled i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Royal, Super-asia or Equivalent)	25.00	No		Each	
9		Supply & installation of Wall Bracket Fan 24" (99.99% Copper) i/c any accessories (i.e. mounting screws & etc) as required at site. Complete in all respect as directed and approved by the Engineer Incharge (Younis, Tamoor, Pakfan or Equivalent)	8.00	No		Each	
10		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) & charcoal around copper strip I/c connecting with Electric					
		machine. Complete in all respects as approved and as directed by the engineer incharge.	2.00	No		Each	
						Total	
1		External Civil Work Supplying and filling sand under floor; or plugging in wells.	1600.00	Cft		% Cft	
2		Cement concrete brick or stone ballast $1\frac{1}{2}$ " to 2" (40 mm to 50 mm) gauge, in foundation and plinth:- Ratio 1:6:12	1800.00	Cft		% Cft	
3		Providing and laying Tuff pavers, having 7000 PSI, crushing strength of approved manufacturer, over 2" to 3" sand cushion i/c grouting with sand in joints i/c finishing to require slope. Complete in all respect. (50% Grey / 50% Coloured) 60mm thick	3000.00	Sft		Per Sft	
4		Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): Ratio 1: 2: 4	100.00	Cft		% Cft	
5		Reinforced cement concrete in slab of rafts / strip foundation, base slab of column and retaining walls; etc and other structural members other than those mentioned					
		in 5(a) (i) above not requiring form work (i.e. horizental shuttering) complete in all respects Type C (nominal mix 1: 2: 4)	100.00	Cft		Per Cft	

No.	Reff.	Description	Quantity	,	Rate	Unit	Amount
6	6/52	Providing and fixing precast Edge Kerb Stone (4"to 6" thick), of 3500 PSI Compressive Strength, embeded in PCC 1:2:4 over lean concrete 1:4:8 etc complete in all respect. With Painting 14" High (Main Path to Enterance)	400.00	Rft		Per Rft Total	
1	3/42	External Plumbing Work Earthwork excavation in open cutting for sewers and manholes as shown in drawings including shuttering and timbering, dressing to correct section and dimensions according to templates and levels, and removing surface water, in all types of soil except shingle, gravel and rock:- 0 ft. to 7.0 ft. (0 to 2.10 m) depth	7500.00	Cft		%o Cft	
2	7/4	Pacca brick work in foundation & plinth:- cement, sand mortar:- Ratio 1:4	650.00	Cft		% Cft	
3		Cement plaster 1:3 upto 20' (6.00 mm) height:- i) 3/4" thick ii) ½" thick	1250.00 1250.00	Sft Sft		% Sft % Sft	
4	3/44	Excavation of trenches in all kinds of soil, except cutting rock, for water supply pipe lines upto 5 ft. (1.5 m) depth from ground level, including trimming, dressing sides, levelling the beds of trenches to correct grade and cutting pits for joints, etc	3500.00	Cft		%o Cft	
		Providing and fixing cover with tee shaped C.I. frame of 22" I/d (frame weighing 37.324 Kg. or one maund as per Standard Drawing STD/PD No. 6, of 1977, complete in all respect.	20.00	No.		Each	
6		Making connection for new watersupply lines with the running main, including excavation of trench and refilling, complete, but excluding cost of pipe and specials, etc. Diameter of running main: i) upto 6" i/d (150 mm) ii) upto 8" i/d (200 mm)	1.00 2.00	Con Con		P.Con P.Con	
7	23/43	Providing, laying, cutting, jointing, testing and disinfecting High Density Polyethylene Pipe (HDPE-100) working presure pipe in trenches. complete in all respects PN-20 (SDR-9) 3" (90mm)	250.00	Rft		Per Rft Total	
1 2	24/13	Supply and erection of copper conductor cables for service	3500.00	Cft		%o Cft	
		connection, in prelaid pipe/G.I. wire/trenches, etc. (rate for cable only: PVC insulated, PVC sheathed 4 Core,					
		600/1000 volt armoured cable 150 mm (37/0.093)	175.00	М		Per M Total	
1	N.S	External Electrical (Non-Schedule) Supply and installation of 70mm ² -120mm ² , Aluminum Alloy Parallel Groove Clamp complete with nut/bolts i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge.	4.00	No		Each	
			4.00			Total	

Construction of New Academic Block at Bahawalnagar Campus Estimate Based on MRS Junuary to June, 2023 BWN

Estimate

A)	Civil Work		
1	Schedule Items	Rs.	
II	Non-Schedule Items	Rs.	
	Total of Civil Work:	Rs.	
B)	Electrical Work	_	
I	Schedule Items	Rs.	
II	Non-Schedule Items	Rs.	
	Total of Electrical Work	Rs.	
\mathbf{O}			
C)	Plumbing Work	_	
I	Schedule Items	Rs.	
II	Non-Schedule Items	Rs.	
	Total of Plumbing Work	Rs.	
D)	IT DATA CABELING SYSTEM		
D)		D -	
I	Schedule Items	Rs.	
	Total of IT DATA CABELING SYSTEM	Rs.	
	Total of (A,B,C)) Rs.	
	Add 5 % Punjab Sales Tax		
	Add 3 % Contingency Charges		
	Grand Tota	1	

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

r			MRS	Junuary	to June,	2023 BWN
Sr. No.	Description	Ref.	Quantity	Rate	Unit	Amount
1	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and rammiing lead 'upto one chain (30 m) and lift upto 5 ft. (1.5 m) By Excavator. In ordinary soil.	3/21.2aii	61202.17 Cft		%o Cft	
2	Spraying termite proofing by using liquid FMC / Biflex/ Terminex Exin /Ms Hextaror equivalent @ specified suspension concente rate (SC),Mixing Ability-HEXTAR with Ratio (1:250)=540 Sft or equivalent approved liquid applying with shower and certificate will be provided by the contract or for 10-years complete in all respect.as approved by the Engineer Incharge.	26/43	76466.96 Sft		P/ Sft	
3	Supplying and laying polythene sheet over D.P.C. under 'floors and on roofs, etc.	26/37-ii	117465.10		Per Sft	
	500 gauge (.005" thick)		Sft			
4	Dry rammed brick or stone ballast 1.5" to 2"guage	6/2	26233.37 Cft		% Cft	
5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): Ratio 1:4:8	6/5-i	8181.67 Cft		% Cft	
	ii) Ratio 1:2:4	6/5-f	12482.61 Cft		% Cft	
6	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars) i) 60-Grade	6/12-c	284842.54 Kg		% Kg	
	Providing and laying reinforced cement concrete (includingprestressed concrete), using Ordinary Portland Cement / Sulphateresisting cement / Slag cement as may be required; coarse sand andscreened graded and washed aggregate, in required shape and design,including forms, moulds, shuttering, lifting, compacting,curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):- Reinforced cement concrete in slab of rafts / strip foundation, base slab of column and retaining walls; etc and other structural members other than those mentioned in 5(a) (i) above not requiring form work (i.e. horizontal shuttering) complete in all					
7	respects:- (2) Type B (nominal mix 1: 1½: 3)	6/6-aiii- 2b	25108.00 Cft		Per Cft	
8	Two coats of bitumen laid hot using 34 lbs. per %Sft, or 1.72 Kg per square meter over roof and blinded with sand at one Cft. per %Sft. (0.003 cu.m per sq.m)	9/12	35879.00 Sft		% Sft	

Sr. No.	Description	Ref.	Quantity	Rate	Unit	Amount
9	Providing and laying reinforced cement concrete (includingprestressed concrete), using Ordinary Portland Cement / Sulphateresisting cement / Slag cement as may be required; coarse sand andscreened graded and washed aggregate, in required shape and design,including forms, moulds, shuttering, lifting, compacting,curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):-					
	(a) (i) Reinforced cement concrete in roof slab, beams, extra. columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- Type B (nominal mix 1: $1\frac{1}{2}$: 3)	6/6-ai-2c				
	i) Ground Floor (1: 1½: 3)	6/6-ai-	23289.14 Cft		Per Cft	
	ii) First Floor+2nd floor (1: 1½: 3)	6/6-al- 2c+d	25550.87 Cft		Per Cft	
10	Filling, watering and ramming earth under floors:- with surplus earth from foundation, etc.	3/15i.	20400.72 Cft		%o Cft	
11	Filling, watering and ramming earth under floors:- with new earth excavated from outside, lead up to one chain (30 m) including transportation of earth lead up to 5 mile	3/15- ii+17abc	241756.83 Cft		%o Cft	
12	Supplying and filling sand under floor; or plugging in wells.	7/30	13583.98 Cft		% Cft	
13	Pacca brick work in foundation and plinth in:- Cement, sand mortar:- Ratio 1:4	7/4-i	19100.95 Cft		% Cft	
14	Providing and laying damp proof course of cement concrete1:2: 4(using cement, sand and shingle), including bitumencoating :(a) with one coat bitumen and one coat polythene sheet 500gauge i) 1 ¹ / ₂ " thick (40 mm)	6/36.a, i	1908.68		% Sft	
15	Pacca brick work in Cement, sand mortar:- Ratio 1:4		Sft			
	i) Ground Floor	7/5-i	22603.52 Cft		% Cft	
	ii) First Floor	7/5-i+6i	24580.02 Cft		% Cft	
16	iii) 2nd FloorExtra for pacca brick work in staining of wells or	7/5-i+6ii 7/10	4355.49 Cft 10719.21		% Cft % Cft	
	any other circular masonry.		Cft			
17	Providing and fixing mild steel chowkat of doors, windows, C.window, etc. including holdfast, making and threading holes for hinges, etc. complete: M.S. angle iron 1½"x 1½"x ¼" (40x40x6 mm) welded with M.S. flat 2"x ¼"	12/15- a	5188.00 Sft		Per Sft	
18	Cement plaster Ratio (1:4) Upto 20' heights a)1/2" Thick	11/9-b	116213.65 Sft		% Sft	
	Cement plaster Ratio (1:4) Upto 20' height b) 3/4" Thick	11/9-c	46382.32 Sft		% Sft	
	ii) 3/4"Upto 20' to 30' heights	11/9c+11 /28	11417.58 Sft		% Sft	
19	3/8" thick cement plaster under soffit of RCC roof slabs Ratio 1:3 upto 20' height i) Ground Floor	11/10-b			% Sft	

Sr. No.	Description	Ref.	Quantity	Rate	Unit	Amount
	ii) First Floor	11/10-b +11/28	31675.15		% Sft	
	First class brick walling laid in 1:3 cement sand mortar, reinforced with 1" (25 mm) wide 18 gauge hoop iron:- 4½" (113 mm) thick walling with hoop iron, bonding 12" (300 mm) apart. i) Ground Floor +Ist Floor Providing and Laying Insulation material of Extruded Polystyrene XPS in Rigid Insulation/Foam Board on	7/21-ii	Sft 10719.21 Sft		% Sft	
22	roof or walls,Density32-38Kg/M,compressive strength250-400kpa,R-value 5 per inch thickness and water absorption (1% by volume, cell structure colored cell) i/c cutting and placing in position. complete in all respect. 1.5" thick Single layer of tiles 9"x4½"x1½" (225x113x40 mm) laid over 4"(100 mm) earth and 1" (25 mm) mud plaster	9/45b	27779.84		% Sft	
	without Bhoosa, grouted with cement sand 1:3 on top of RCC roof 'slab, provided with 34 lbs. per %Sft. or 1.72 Kg/Sq.mbitumen coating sand blinded.	9/5.	27779.84		% Sft	
23	Cement concrete brick or stone ballast 1½ " to 2" (40 mm to 50 mm) gauge, in foundation and plinth:- Ratio 1: 4: 8	6/3b	2670.13 Cft		% Cft	
24	Providing and fixing terrace railing of 2" (50 mm) i/d conduit pipe 16 SWG, welded with 5/8"x5/8" (16x16 mm) square bar 2.75 ft. (838 mm) high fixed at 5" (125 mm) centre to centre, in reinforced cement concrete slab with suitable arrangement, complete in all respects, as per design and drawing.	25/35	701.00 Rft		P/Rft	
25	Providing and fixing stair railing of 2½" (63 mm) i/d G.I. pipe, welded with 5/8"x5/8" (16x16 mm) square M.S. bars 2'-9" (838 mm) high, fixed in each step, complete in all respects, including painting, polishing three coats.	25/39	350.22 Rft		P/Rft	
26	Earthwork excavation in open cutting for sewers and manholes as shown in drawings including shuttering and timbering, dressing to correct section and dimensions according to templates and levels, and removing surface water, in all types of soil except shingle, gravel and rock:- 0 ft. to 7.0 ft. (0 to 2.10 m) depth	3/42-i	16518.84 Cft		%o Cft	
27	Providing and fixing marble strip of any shade for dividing the mosaic flooring into panels. Size 1½" x 3/8" (40 x 10 mm)	10/40- a	2622.00 Rft		P/Rft	
28	Providing and laying topping of cement concrete 1:2:4,including surface finishing and dividing in panels:- 1½"(40 mm) thick	10/15-c	9573.00 Sft		% Sft	
29	Preparing surface and painting with emulsion paint:- new surface 3 coats	13/31	179344.09 Sft		% Sft	
30	Extra for making and finishing benching floor manhole chamber, with 1/8" thick work in cement finish	21/9	108.42 Sft		% Sft	
31	Fabrication of heavy steel work, with angle, tees, flat iron round iron and sheet iron for making trusses, girders, tanks, etc., including cutting, drilling, revitting, handling,assembling and fixing, including erection in position.	25/10+ 25/11	16381.50 Kg		% Kg	

Sr. No.	Description	Ref.	Quantity	Rate	Unit	Amount
	Preparing surface and painting of doors and windows					
32	any type (including edges):- new surface 3 coats	13/5-c i+ii+ii	310.94 Sft		% Sft	
33	P/F3/4"dia heavy duty sliding bolt of specified material i/c thecost of hardware complete in all respect as approved and directed by the Engineer Incharge.					
	i) Brass ,12" (300 mm) long	12/61- B-ii	111.00 No		Each	
	ii) 10" (250 mm) long	12/61- B-i	103.00 No		Each	
34	Second class tile roofing consisting of 4" (100 mm) earth and 1" (25 mm) mud plaster with Gobri leaping over ½" (13 mm) thick cement plaster 1:6 with 34 lbs. per %Sft or 1.72 Kg/sq.m of hot bitumen coating sand blinded, provided over one layer of 12"x6"x2" (300x150x50 mm) tiles laid in 1:6 cement mortar, including 1:2 cement pointing underneath of tiles complete including curing, etc.	9/2	930.06		% Sft	
		972	Sft		70 SIL	
35	Khuras on roof 2'x2'x6" (600 x 600 x 150 mm)	9/15	35.00 No		Each	
36	Providing and fixing theremopore (foamed polythene) sheet in horizontal and vertical expansion joints: 1" (25 mm) thick thermopore sheet	6/35.a	1536.00 Sft		Per Sft	
37	Providing and fixing 6 in(150 mm). wide curved sheet of required shape fixed on face of the construction joint with G.I.screw,1.5 in (40 mm) long to cover construction joints vertically:- G.I. sheet, 18 SWG	6/27-ii	1212.68 Rft		Per Rft	
	Providing and layingTuffpavers,having 7000 PSI,crushing strength of approved manufacturer, over 2" to 3"sand cushion i/c grouting with sand in joints i/c finishing to require slope . complete in all respect. (50% Grey / 50% Coloured 60 mm thick Providing and applying weather shield paint of approved quality on external surface of building including preparation of surface, application of primer complete in all respect:new surface,2 coats	10/41.b	11423.00 Sft		Per Sft	
		13/33.A,i				
40	Providing and laying superb quality Porcelain glazed tiles flooring of MASTER brand of specified size in approved design,Color and Shade with adhesive/bond over 3/4"thick(1:3)cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respect as approved and directed by the Engineer	+ii	46004.83 Sft		% Sft	
41	Incharge.Full body Glazed tiles.600mmx 600 mm Providing and fixing M.S. grill fabricated with MS Square polished Vertical/horizontal Bars of specified size @ 4" c/c '	10/42aii	53027.47 Sft		Per Sft	
	passed through punched holes in MS Patti of 1-1/4"x1/8" i/c the cost of 1-1/4"x1/8" MS patti for Frame of windows and painting 3 coat complete in all respect as approved and directed by the Engineer Incharge. (a) 3/8" Squar Bars	25/59.i	4477.56		Per Sft	
			Sft			

Sr. No.	Description	Ref.	Quantity	Rate	Unit	Amount
42	Providing and fixing 2 mm thick Double glazed aluminium windows of anodized / powder coated bronze colour partly fixed and party sliding using deluxe section of 100mm x 40mm x2 mm using frame (70501) at bottom, (70502) at Top & Side made of Pakistan Cables/Alcop having Leaf Frame size 31mm x 60mm x2 mm (70506) at Top & Bottom, 35mm x 60mm x2 mm (70505) at center and 35mm x 60mm x2 mm(70503) at sides , fixing 5 mm thick imported tinted double glass and air tight using double tape, chemical strips, Silicon using approved latches, wheels for channel, stopper, brush channel angle joint and hardware etc (excluding the cost of Fly Proofing). Complete in all respect as approved and directed by the Engineer Incharge.					
		25/56.	4477.56 Sft		Per Sft	
	Providing and fixing Aluminum Fly screen comprising of Fiber/Aluminum wire guaze (Malasian) fixed in aluminum frame of approved manufacturer brownze Colour/powder coated of size 1-1/2"x1/2" and 1.6 mm thick with rubber gasket i /c cost of Hardwares as approved and directed by the engineer incharge complete in all respect.					
44	Providing and fixing 1st class solid wood wrought joinery in panelled or panelled and glazed doors and windows of specified thickness with 1" thick solid wood panels with step and 1-1/2"x2-1/2" beadings all around the panels i/c the cost of Tower bolt and handles complete in all respect (Excluding the cost of sliding bolt,lock and chowkats (frame), etc.) as approved and directed by the Engineer Incharge.b) Oak/Ash wood Door (iii) 1-1/2" thick (40 mm)	25/53.	2238.78		Per Sft	
		12/7.b.iii	4306.00 Sft		Per Sft	
45	Providing and laying superb quality Ceramic tile floors of Master brand of specified size,Glossy/Matt/Texture of approved Color and Shade as perapproved design with adhesive bond, over 3/4" thick(1;2) cement sand plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects and as approved and directed by the Engineer Incharge.12"x18"/12"x24"/10"x24" /8"x24"/12"x36"	10/24.i	2804.00		Per Sft	
46	Providing and laying superb quality Ceramic tiles dado of Master brand of specified size,Glossy/Matt/Texture skirting / dado of approved Color and Shade with adhesive bond over 1/2"thick (1:2) cemen tplaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects and as approved and directed by the Engineer Incharge.12"x18"/12"x24"/10"x24" /8"x24"/12"x36"	10/25.i	Sft 8620.00		Per Sft	
47	Providing embeding 10" (250 mm) wide ¼" (6 mm) thick rubber water stopper in expansion joints of R.C.C. roof		Sft			
48	slab complete in all respects. Providing and laying Prepolished Granite of specified	6/31.	350.00 P/Rft		Per Rft	
	thickness and shade of full width of approved quality laid with adhesive bond over 3/4" thick (1:2) cement sand mortor bed ,complete in all respect as approved and directed by the Engineer Incharge.3/4" thick					
49	Extra for Bevelling charges of marble edge in approved design complete in all respects i/c the cost of Carbor and amdisc as approved and directed by the Engineer	10/50.i	1742.00 Sft		Per Sft	
	Incharge.	10/48.	450.00 Rft		Per Rft	

Sr. No.	Description	Ref.	Quantity	Rate	Unit	Amount
50	Providing and fixing false ceiling comprises of Gypsum board laminated sheet of size 2'x2'/2'x3'/3'x3' of specified designand thickness i/c cost of fixtures i.egalvanized angle1"x1"at wall sides,galvanized tee 1¼"x1" and 1½"x1" both at 4' c/c (made of Taiwan CKM or equivalent) ,hanging with G.I /Copper wire16SWG ,G.I hook, Rawal Plug etc:complete in all respects as approved and directed by the Engineer Incharge.9mm thick	9/48.iii	2500.00 Sft		Per Sft	
51	Providing and laying superb quality Porcelain glazed tiles of Master brand, skirting/dado of specified size, Color and Shade with adhesive/bond over 1/2"thick (1:2) cement plaster i/c the cost of and sealer for finishing the joints, cutting grinding complete in all respect as approved and directed by the Engineer Incharge.a) Full body Glazed Tile 600mmx 600 mm	10/43.a.ii	10500.00		Per Sft	
52	Preparing surface and Lacquar polish to reveal wooden grains by application of multiple coats of wood sealer , sand papering with different no of sandpapers and Lacquar to make glossy surface finish i/c the cost of cotton, thinner, wood sealer complete in all respects as approved anddirected by the Engineer Incharge.(ii) Glossy Finish		Sft			
53	First class teak wood wrought joinery in doors and windows, etc. panelled, panelled and glazed or fully glazed and fixed in position, including chowkat, holdfast, tower bolt, chocks, rubber stop, cleats/G.I. clamps, chords with hooks, nails, screws, etc. complete	13/44.ii	9500.00 Sft		Per Sft	
54	(excluding sliding bolt and lockiii) 1½" (40 mm) thick Providing and applying wall putty of 2mm thick ness	12/3.iii	350.00 Sft		Per Sft	
	over plaster ed surface(new surface) to prepare the surface even and smooth complete in all respect.	13/46	179344.09 Sft		P/Sft	
55	Providing and fixing Vin board cabinet 3/4" thick with drawers 3"deep in 'Kitchen including termite proofing and polishing with synthetic enamel as specified, with handles					
	hinges,screws etc., complete in all respects i) 2' deep,without back	12/59	100.00		P/Sft	
	ii)2' deep,with back		125.00 Sft		P/Sft Total	
1	Civil Work (Non Shedule Item) Construction of Fiber Glass 3/4" thick Dom on already prepared rigid circular base of 1st Floor as per drawing & approved by the Engineer Incharge.	NS	1350.00 Sft		Per Sft	
	Providing & Fixing uPVC door 1.25" thick wooden colour i/c hinges kik plate, door handle with locking arrangement complete in all respects.	NS	1067.50 Sft		Per Sft	
3	Subsequent carriage of crushed stone aggregate total distance from Sargodha to Bahawalnagar IUB Campus at site of work average 278 KM	NS	110714.77 Cft		%Cft	
			On		Total	

Sr. No.	Description	Ref.	Quantity	Rate	Unit	Amoun
	Electrical Work (Schedule Items)					
1	Supply and erection of PVC pipe for wiring recessed in walls, including inspection boxes, pull				1	
	boxes, hooks, cutting jharries, and repairing					
	surface, etc., complete with all specials.					
	i) 3/4" i/d (20 mm)	24/3-i	24509.57 Rft		Per Rft	
	ii) 1" i/d (25 mm)	24/3-ii	37547.33		Per Rft	
	iii) 1.5" i/d (40 mm)	24/3-v	Rft 10500.00		Per Rft	
	iv) 2" i/d (50 mm)	24/3-vi	Rft 1550.00		Per Rft	
2	Supply and erection of single core PVC insulated		Rft			
-	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:	24/10 :	79851.00		Per Rft	
	i) 3/0.74 mm (3/0.029")	24/10-i	79851.00 Rft		Per Rit	
	ii) 7/0.74 mm (7/0.029")	24/10-iii	38314.00		Per Rft	
	iii) 7/0.91 mm (7/0.036")	24/10-iv	Rft 18649.00		Per Rft	
		24/10-10	Rft			
	iv) 7/1.12 mm (7/0.044")	24/10-v	16800.00		Per Rft	
3	Supply and erection of single core PVC insulated,		Rft			
5	PVC sheathed copper conductor, 660/1100 volts					
	grade cable, in prelaid G.I. pipe/M.S. conduits/ PVC					
	pipe/G.I. wire/trenches, etc (rate for cable only)					
	i) 16 mm (7/0.064")	24/12-iv	14750.00 Rft		Per Rft	
4	Supply and erection of copper conductor cables for services		RIL			
-	connection, in prelaid pipe/G.I. wire/trenches, etc. (rate for					
	cable only)PVC insulated, PVC sheathed 4 core, 600/1000 volt non armoured cable:-:- 240 mm sq (37/0.114)					
		24/13.c	656.00		Per Rft	
			Rft			
5	Supply and erection of copper conductor cables					
	for service connection, in prelaid pipe/G.I. wire/trenches, etc. (rate for cable only):- PVC					
	insulated, PVC sheathed 4 core, 660/1100 volt non armored cable:-	24/13-				
	7/1.63 mm (7/0.064")	c.vii	1250.00		Per Rft	
6	Supply and praction of hutton holder bekelite large size	24/39-i	Rft 1092.00		Each	
6	Supply and erection of button holder.bakelite large size	24/39-1	1092.00 No		Each	
7	Supply and erection of ceiling rose, bakelite.	24/30	36.00		Each	
~	D/E floor mounted Electric Danal haard of a suited doubt and d		No			
8	P/F floor mounted Electric Panel board of required depth and size, fabricarted with 14SWG M.S sheet (Indoor/Outdoor Type),derusting,					
	zinc Phosphated, finish with electro static powder coating in approved					
	colour i/c the cost of Lock, Indication lights,thimbles, Copper Comb, Wiring, Netural & Earth Bar, glands,Current Transformers of specified					
	capacity ,Door Earthing, Brass glands,bus bars,controles complete in					
	all respects as approved and directed by the Engineer Incharge (Breakers will be Paid Separately).3.00 Ft deep 2500~3200A					
	(4.5'x7'x3')	24/91.i,b,				
		ii.	94.50 Cft		Per Cft	
9	Supplying Installation and commissioning of MOOD		On			
	Supplying,Installation and commissioning of MCCB (MouldedCase Circuit Breaker) of specified rating					
	made of LEGRANDFRANCE/ GE U.S.A / SCHNEIDER					
	GERMANY / TERASAKIJAPAN/ABB SWITZERL(with					
	adjustable Thermal-MagneticTrip) in prelaid DBs and					
	Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer					
	InchargeTripple Pole With Adjustable Thermal-					
	Magnetic Trip/Electronic Trip (60-100%)630-1600					
	Amp(50 KA)	24/88 a.x	1.00		Each	
		1	No			

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

Sr. No.	Description	Ref.	Quantity	Rate	Unit	Amount
16	Providing and fixing Copper winded Exhaust fan with louver and shutter made of Pak/Younas/G.F.C. i/c the cost of necessary cable and hardware for connection from ceiling rose complete as approved and directed by Engineer Incharge. Plastic body 12 " dia					
	Staal hadu	24/102.a.ii	30.00		Each	
17	Steel body 18" sweep P/F PVC concealed Switch kit Box i/c the cost of screwscomplete as approved and directed by the Engineer		24.00		Each	
	Incharge i) Small	24/104	710.00		Each	
	ii) Large		No 475.00		Each	
	Supply and erection of PVC pipe for recessed wiring main and submain) purpose, i/c bends, specials etc in floor, walls		No			
18	or trenches:iii) 100 mm i/d	24/6	800.00 Rft		Per Rft	
	Electrical Work (Non-Schedule)				Total	
1	Supply & installation of PVC Fan Box with iron bar i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge. (GM, Bita or equivalent)	N.S	360.00 No		Each	
2	Supply & installation of LED 2'x 2' Ceiling Panel Light 40W (220V~, 6500K) i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips RC09led 40S/865 or Equivalent)	NS	126.00 No		Each	
3	Supply & installation LED flood light 100 watt Philips quality including casing bracket, hanging arrangement complete in all respects as approved by the Engineer Incharge.	NS	24.00 No		Each	
4	Supply & installation of LED 24 W Down Light (Surface Mounted, 220V~) i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips Essential or Equivalent)	NS	600.00		Each	
5	Supply & installation of Strip (Patti) with 20W Led tube rod (220V~, 6500K) i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips or		No			
	Equivalent)	NS	600.00 No		Each	
6	Supply & installation of Metal Body Wall Bracket Fan 24" (99.99% Copper) i/c any accessories (i.e. widing of mounting holes and 4.00nos of rawl bolts ¼" etc) as required at site. Complete in all respect as directed and approved by the Engineer Incharge (SK mega or Equivalent)					
		NS	48.00 No		Each	
7	Supply & installation of 2' x 2' False Ceiling Fan 14" swipe (99.99% Copper), remote controlled i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Royal, Super-Asia or Equivalent)					
8	Supply & installation of Ceiling Fan 56" (99.99% Copper) i/c	NS	64.00 No		Each	
	any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Younis- Deluxe, Tamoor-Deluxe, Pakfan-Deluxe , SK or Equivalent)	NS	360.00 No		Each	
9	Providing and Laying ear thing for Electric Machines I/c boring up to moisture level (up to 60' below ground level) 4" i/d including copper strip 14" x 2" x 1/4" (350 x 50 x 6 mm) connecting with 1 Nos.bare copper wire of No.8 SWG to be run in PVC pipe 20mm i/d, 1/4" i/d GI pipe 5' long, GI tee & plug for watering also includes common salt, Lime (slaked) and charcoal around copper strip I/c connecting with Electric machine. Complete in all respects as approved and as directed by the Engineer Incharge.					
		NS	20.00		Each	
			No		Total	

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

Sr. No.	Description	Ref.	Quantity	Rate	Unit	Amount
11	Providing and fixing, chromium plated toilet paper holder.	19/18.	4.00		Each	
12	Providing and fixing BATHROOM ACCESSORIES (7-piece set) MASTER BRAND - One Cosmetic Shelf, One Towel rod with bracket, One soap dish, One double hook, One towel ring, brush holder, toilet paper holder & looking glass i/c the cost of hardwares etc complete in all respect as approved and directed by the Engineer incharge	19/23.				
	Plastic soap dish Plastic toilet paper holder Plastic tower rail Looking glass with plastic frame	19/23.	48.00 32.00 64.00 96.00		Each Each Each Each	
13	Providing and laying R.C.C. pipe, moulded with cement concrete 1:1½:3, with spigot socket or collar joint, etc. including cost of reinforcement, conforming to B.S. 5911: Part I: 1981, Class "L" including carriage of pipe from factory to site of work, lowering in trenches to correct alignment and grade, jointing, cutting pipes where necessary, finishing and testing, etc., complete. 9" i/d		2050.00		D/D#	
14	Providing ,fixing testing and commissioning of µ-PVC (Unplasticized polyvinyl Chloride) Nikasi /waste pipe make of dadex /Popular /Beta/BBJ plain/ socket ended conforming to code EN-1401 of specified SDR (Standard Dimension Ratio) including thecost of specials and Solvents complete in all respect as approved and directed by the Engineer Incharge.Type (SDR 32.5/SN-8)	21/1.iii	2650.00 Rft		P/Rft	
	i)4"(110 mm) ii)3"(85 mm)	19/47.	3250.00 1625.00 Rft		P/Rft P/Rft	
15	Providing and fitting Europeon Coupled set of Water Closet (WC) and flushing Cistern of PORT Abr and (full size) i/c thecost of CP /rubber connection ,thimble ,seat cover and rawal bolts complete in all respects asapproved and directed by the Engineer Incharge.	19/3.	22.00		Each	
16	Providing and fixing CP bath Room Set made of Sonex /Master /Faisal comprising of 3-NoTee stop cocks ,lever type Basin Mixer,double Bib Cock,open wall shower,Muslim shower,waste coupling and bottle trap etc.complete in all respect as approved and directed by the Engineer incharge. i)Double Bib Cock ii)Open Type Wall Shower iii)Muslim shower iv)Waste Coupling	19/52.	22.00 4.00 22.00 55.00 Nos		Each Each Each Each	
17	Providing, fixing, testing and commissioning of µ-PVC (Unplasticized polyvinyl Chloride) Nikasi /wastepipe Fittings make of dadex /Popular /Beta/ BBJ conformingto code EN-1401 including thecost of Solvents complete in all respect as approved and directed by the Engineer .Incharge. P-Trap 4" dia P-Trap 3" dia Multi-Trap 4" dia Multi-Trap 3" dia Vent Cowel 4" dia	19/49.	250.00 250.00 50.00 50.00 36.00		Each Each Each Each Each Each	
			36.00 Nos		Each Total	

Sr. No.	Description	Ref.	Quantity	Rate	Unit	Amount
	Plumbing Work (Non Schedule) Providing & Fixing looking glass 5 mm thick best quality including aluminum frame 2'x1' complete in all respects Providing & fixing floor trap Jali Stainlessteel complete	N.S	384.00 Sft		Per Sft	
	in all respect and as approved by the Engineer Incharge.	N.S	52.00		Each	
3	Providing & Fixing Floor trap jali plastic colored complete in all respects	N.S	No 40.00 No		Each	
					Total	
	IT DATA CABELING SYSTEM					
1	Supply and erection of PVC pipe for wiring recessed in walls, including inspection boxes, pull boxes, hooks, cutting jharries,and repairing surface, etc., complete with all specials. i) 3/4" i/d (20 mm)	24/3	4428.00		Per Rft	
	ii) 1" i/d (25 mm)		2132.00		Per Rft	
	iii) 1.50" i/d (40 mm)		2132.00		Per Rft	
	iv) 2" i/d (50 mm)		2031.25 Rft		Per Rft	
2	P/F PVC concealed Switch kit Box i/c the cost of screws complete as approved and directed by the Engineer Incharge i) Small ii) Large	24/104	225.00 No 125.00 No		Each Each	
3	Supply, Installation and commissioning of wiring with 4-pair data Cable, 23 AWG UL/EN listed cable * Conforming to following standards: TIA/EIA 568 / ISO/IEC 11801, in prelaid conduit / cable tray from including all accessories, Manufacturer/OEM Authorization, Make: Schneider / i-connect UK/3M Corning USA/ D-Link/ Pollo Australian or equivalent complete in all respect as approved and directed by Engineer Incharge. a) UTP (Unshielded Twisted pair)	24/106	NO			
	(i) CAT-6 (Min.1G @ 250MHz or higher) (ii) CAT-6A (Min.1G/ 10G @ 500MHz or higher)		8500.00 8500.00 M		Per M Per M	
4	Supply, Installation and commissioning of Simple type, Dual Shutter Face Plates having fully populated I/O: Option 1:RJ-11 with RJ45/8P8C I/Os supporting either Cat6 or Cat6a cables as required by project Option 2: Two RJ45/8P8C I/Os supporting either Cat6 or Cat6a cables as required by project.	24/131				
	(i) Single I/O (ii) Double I/O		700.00 700.00 No		Each Each	
				Tot	al	

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

Estimate Based on MRS Jan-Jun, 2023

ABSTRACT OF COST

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

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

					MF	RS Jan-Jun, 2023
No.	Reff.	Description	Quantity	Rate	Unit	Amount
1		Civil Work Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and rammiing lead 'upto one chain (30 m) and lift upto 5 ft. (1.5 m). By Excavator (ii) In ordinary soil.	97500.00 Cft		%o Cft	
2	3/18	Dressing and levelling of earhtwork to designed section, etc. Ordinary or hard soil	25000.00 Cft		%o Cft	
3	6/5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): i) Ratio 1: 2: 4 (For Flooring) ii) Ratio 1:4:8	5500.00 Cft 500.00 Cft		% Cft % Cft	
4	6/3	Cement concrete brick or stone ballast $1\frac{1}{2}$ " to 2" (40 mm to 50 mm) gauge, in foundation and plinth:- Ratio 1: 4:8	4650.00 Cft		% Cft	
5	26/43	Spraying anti termite proofing by using liquid FMC Biflex 2.5%EC Mixing Ratio 1:50=137-Sft or using liquid MIRAGE Ali Akbar /RANGERS Auriga 5% SC Mixing Ability-HEXTAR Ratio 1:110=205-Sft or any other equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10-years complete in all respect .as approved by the Engineer Incharge	35000.00 Sft		Per Sft	
6	7/4 (i)	Pacca brick work in foundation and plinth in:-C/S mortar:Ratio 1:6	31500.00 Cft		% Cft	
7	6/36 a-ii	Providing and laying damp proof course of cement concrete 1:2: 4 (using cement, sand and shingle), including bitumen coating:-with 1 coat bitumen and 1 coat polythene sheet 500 gauge. 2" thick	4700.00 Sft		% Sft	
8		Providing and laying vertical damp proof course with cement sand cement sand plaster and bitumen coating:- with one coat of bitumen and one coat of polythene sheet 500 gauge: Ratio 1:3 ¾ " thick (20 mm)	3150.00 Sft		% Sft	
9	3/15	Filling, watering and ramming earth under floors:- i) with surplus earth from foundation, etc. ii) with new earth excavated from outside,lead upto One (1) Mile	97500.00 Cft 27500.00 Cft		%o Cft %o Cft	
10		 Compaction of earthwork (soft, ordinary or hard soil) :- a) Mixing, moistening earth to optimum moisture content in layers for compaction, etc. complete. b) Compaction by rolling with animal driven roller/hand rammed:soft or sandy soil 	128500.00 Cft		%o Cft	
11		Pacca brick work in Cement, sand mortar:- Ratio 1:5 i) Ground Floor (7/5-i) ii) First Floor (7/5-i) + (7/6-i) ii) Second Floor	24500.00 Cft 23550.00 Cft 3400.00 Cft		% Cft % Cft % Cft	
12		Pacca brick work in Cement, sand mortar:- Ratio 1:4 i) Ground Floor (for 4.5" thick wall) ii) First Floor ii) Second Floor	700.00 Cft 980.00 Cft 850.00 Cft		% Cft % Cft % Cft	
13	11/10	Cement plaster 3/8" (10 mm) thick under soffit of R.C.C. roof slabs only, upto 20' height. Ratio 1:3	29500.00 Sft		% Sft	
		Cement plaster 1:4 upto 20' (6.00 m) height:- i) ½" (13 mm) thick (11/9-b) ii) 3/4" (20 mm) thick iii) 3/4" (20 mm) thick 20' to 30' height	66500.00 Sft 46700.00 Sft 23600.00 Sft		% Sft % Sft % Sft	
	"	iii) 3/4" (20 mm) thick 30' to 40' height	12500.00 Sft		% Sft	

	Reff.	Description	Quantity	Rate	Unit	Amount
15		Supplying and laying polythene sheet over D.P.C. under floors and on roofs, etc. 500 gauge (.005" thick)	29500.00 Sft		Per Sft	
			20000.00 011		i ei oit	
16		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	75000.00 //-		0/ 1/-	
		i) Deformed Bar 60-Grade	75000.00 Kg		% Kg	
17		Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects Type B (nominal mix1:1½:3) using harrow sand i) Ground Floor (6/6(a-i)2	8195.00 Cft		Per Cft	
		ii) First Floor (6/6(a-i)2+6/6-d)	7750.00 Cft		Per Cft	
18	7/30	Supplying and filling sand under floor; or plugging in wells	53580.00 Cft		% Cft	
19		Dry rammed brick or stone ballast, 1½" to 2"(40 mm to 50 mm) gauge.	12000.00 Cft		% Cft	
20		Providing and Laying Insulation material of Extruded Polystyrene XPS in Rigid Insulation/Foam Board on roof or walls, Density 32-38Kg/M, compressive strength 250-400 kpa, R-value 5 per inch thickness and water obsorbtion (1% by volume, cell structure clored cell) i/c cutting and placing in position complete in all respect 1.5" thick	13500.00 Sft		% Sft	
21	9/5	Single layer of tiles 9"x4½"x1½" (225x113x40 mm) laid over 4"(100 mm) earth and 1" (25 mm) mud plaster without Bhoosa, grouted with cement sand 1:3 on top of RCC roof 'slab, provided with 34 lbs. per %Sft. or 1.72 Kg/Sq.mbitumen coating sand blinded. (add 6% on composite rate) first floor	13500.00 Sft		% Sft	
22		P/F 1-1/2" thick Solid Flush Door comprising of 2.5 mm thick Commercial ply compressed over 2.5 mm thick commercial ply over 1" thick packing wood in style and rails under proper pressure i/c the cost of nails, tower bolt , handles, glue, sawing charges, Painting charges, sand papering and 3/8" thick matching wooden lipping as approved and directed by the Engineer Incharge.	2750.00 Sft		Per Sft	
		Rehandling of earthwork plus additional lead or part thereof :-Upto a lead of 500 ft. (150 m).	18500.00 Cft		%o Cft	
24	25/51	Providing and fixing all types of partly fixed and partly openable glazed anodised bronze colour , using delux section of M/s Al-Cop or Pakistan 'Cables, having chowkat frame of size 40 x 100 mm ($1\frac{1}{2}$ " x '4") and leaf frame of 60x40mm ($2\frac{1}{2}$ "x $1\frac{1}{2}$ ") wide all of sections including the cost of $\frac{1}{4}$ " (5 mm) thick imported tinted 'glass with aluminium triangular gola and rubber gasket to support the glass and leaf edging, using approved 'standard fittings, locks, 3" (75 mm) wide long handles etc., and hardware any required as approved by the engineer in-charge. 2mm thickness.	400.00 Sft		Per Sft	
25		Providing and fitting all types of glazed <u>Aluminium Windows</u> of anodised bronze colour partly fixed and partly sliding using delux sections of M/s Al-Cop or Pakistan 'Cables having frame size of 100 x 20 mm (4"x¾") and 'leaf frame sections of 50 x 20 mm (2"x¾"), all of including 5 'mm thick imported tinted glass with rubber gasket using approved standard latches hardware etc., as approved by the Engineer. 1.60 mm Thickness	3350.00 Sft		Per Sft	

No.	Reff.	Description	Quantity	/	Rate	Unit	Amount
26	25/53	Providing and fixing <u>Aluminum Fly Screen</u> comprising of					
		Fiber/ Aluminum wireguaze (Malasian) fixed in aluminum frame of approved manu facturer brownze Colour/powder					
		coated of size 1-1/2"x1/2" and 1.6mm thick with rubber					
		gasket i/c cost of Hard wares as approved and directed by					
		the engineer incharge.	1675.00	Sft		Per Sft	
27	10/18	Extra labour for each storey above ground, for mosaic, tiles,					
21	10/10	conglomerate, stone and wooden floor.(1st Floor Labour Only)	18500.00	Sft		% Sft	
28	25/10	Fabrication of heavy steel work, with angle, tees, flat iron					
20		round iron and sheet iron for making trusses, girders,					
		'tanks, etc., including cutting, drilling, revitting, handling,					
		assembling and fixing, including erection in position.	890.00	Kg		% Kg	
29	11/23	Distempering:-a) new surface:- 3 Coats (For Ceiling)	30000.00	Sft		%Sft	
30	13/46	Providing and applying Wall Putty of 2mm thickness over					
		plastered surface (new surface) to prepare the surface even and					
		smooth complete in all respects.(On Interior Walls/Members Only)	87000.00	C#		%Sft	
		Unity)	87000.00	Sit		70SIL	
31	13/31	Preparing surface & painting with 3 coats Emulsion Paint	87000.00	Sft		% Sft	
		complete in all respects					
32	13/5	Painting new surface: Preparing surface and Painting of	4800.00	Sft		% Sft	
		Doors and Windows any type (including edges):- 3 coats					
22	10/00	Providing and Applying Weather Shield Paint of approved					
33	13/33	quality on external surface of building including preparation					
		of surface, application of primer complete in all respect:					
		new surface 2 coats i) upto 20' height	17800.00	64		% Sft	
	+13/41		16300.00	Sft Sft		% Sft	
		iii) 30' to 40 height	2250.00	Sft		% Sft	
0.4	40/7 -						
34	12/7-8	Providing and fixing 1st class solid wood wrought joinery in panelled or panelled and glazed doors and windows of specified					
		thickness with 1" thick solid wood panels with step and					
		1-1/2"x2-1/2" beadings all around the panels i/c the cost of					
		Tower bolt and handles complete in all respect (Excluding the cost of sliding bolt, lock and chowkats (frame), etc.) as approved					
		and directed by the Engineer Incharge					
		Incharge (i) 2" thick (50 mm) For Main Enterance Door	120.00	Sft		Per Sft	
35	13/44	Preparing surface and Lacquar polish to reveal					
		wooden grains by application of multiple coats of wood					
		sealer , sand papering with different no of sandpapers and					
		Lacquar to make glossy surface finish i/c the cost of cotton, thinner, wood sealer complete in all respects as					
		approved and directed by the Engineer Incharge.					
		Glossy Finish (For Main Enterance Door)	250.00	Sft		Per Sft	
36	10/15	Providing and laying topping of cement concrete 1:2:4,					
		including surface finishing and dividing in panels:- 3" thick	3200.00	Sft		% Sft	
27	12/61	P/F 3/4" dia heavy duty sliding bolt of specified material i/c					
57		the cost of hardware complete in all respect as					
		approved and directed by the Engineer Incharge.					
		Iron Sliding Bolt, 12" (300 mm) long Brass Sliding Bolt 18" (450 mm) long (Main Enterance Deer)	90.00	No No		Each	
	b	Brass Sliding Bolt 18" (450 mm) long (Main Enterance Door)	2.00	No		Each	
38	10/40	Providing and fixing marble strip of any shade for dividing				_	
		the mosaic flooring into panels Size 11/2"x3/8" (40x10mm)	1650.00	Rft		Per Rft	
						1	

No.	Reff.	Description	Quantity	/	Rate	Unit	Amount
39	9/15	Khuras on roof 2'x2'x6" (600 x 600 x 150 mm)	20.00	No		Each	
40		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 (50% Grey / 50% Coloured) 60 mm thick	5000.00	Sft		P/Sft	
41	6/27-ii	Providing and fixing 6 in(150 mm). wide Curved Sheet of required shape fixed on face of the Construction Joint with					
		G.I.screw,1.5 in (40 mm) long to cover construction joints	550.00	Rft		Per Rft	
		vertically:- G.I. sheet, 18 SWG					
10	0/10	Two easts of hituman laid bet using 24 lbs, par 0/ Oft, or					
42	9/12	Two coats of bitumen laid hot using 34 lbs. per %Sft, or 1.72 Kg per square metre over roof and blinded with sand					
		at one Cft. per %Sft. (0.003 cu.m per sq.m)	13500.00	Sft		% Sft	
43	6/31	Providing embeding 10" (250 mm) wide ¼" (6 mm) thick rubber water stopper in expansion joints of R.C.C. roof slab					
		complete in all respects.	180.00	Rft		Per Rft	
44		Carriage of 100 Cft. (2.83 cu.m) of all materials like stone					
		aggregate, spawl, kankar lime (unslaked), surkhi, etc. or 150 Cft. (4.25 cu.m) of timber, by truck or by any other					
		means owned by the contractor.Lead 366 Km from Sargodha					
		(or approved quarry to site of work)	22500.00	Cft		% Cft	
45	10/42	Providing and laying superb quality Porcelain glazed tiles flooring					
		of MASTER brand of specified size in approved design, Color and					
		Shade with adhesive/bond over 3/4"thick (1:3) cement plaster i/c					
		the cost of sealer for finishing the joints i/c cutting grinding complete in all respect as approved and directed by the Engineer					
		Incharge. Full body Glazed tiles					
		(ii) 600mmx 600 mm	26800.00	Sft		Per Sft	
46	10/43	Providing and laying superb quality Porcelain glazed tiles of					
		Master brand, skirting/dado of specified size, Color and Shade					
		with adhesive/ bond over 1/2"thick (1:2) cement plaster i/c the cost of and sealer for finishing the joints, cutting grinding complete in					
		all respect as approved and directed by the Engineer Incharge.					
		(ii) 600mmx 600 mm	3500.00	Sft		Per Sft	
			0000.00	on			
47		Providing and laying 3/4" thick full width Prepolished Marble slab					
		for Vanities / Shelves / Treads/Window Cills, having Uniform texture (Spotless) with adhesive bond over 3/4" thick (1:2)					
		cement sand mortor i/c the cost of matching sealer complete in					
		all respects as approved and directed by the Engineer Incharge.					
		China Verona	1700.00	Sft		Per Sft	
4₽	10//19	Extra for Bevelling charges of marble edge in approved					
-0		design complete in all respects i/c the cost of Carborandam disc as					
		approved and directed by the Engineer Incharge.	500.00	Rft		Per Rft	
49	10/49	Extra cost for Making Hole in Marble slab for fixtures,					
		Sink, burners, basin Vanities i/c cost of bevelling of internal edge					
		as approved and directed by the Engineer Incharge.	40.00	No		Each	
50	10/50	Providing and laying Prepolished Granite of specified thickness					
		and shade of full width of approved quality laid with adhesive bond					
		over 3/4" thick (1:2) cement sand mortor bed , complete in all					
		respect as approved and directed by the Engineer Incharge (for podium, Stair steps, Risers) (i) 3/4" thick	2250.00	Sft		Per Sft	
51		Providing and laying superb quality Ceramic Tile Floors of	2200.00	Sit			
		Master brand of specified size, Glossy/Matt/Texture of approved					
		Color and Shade as per approved design with adhesive bond, over 3/4" thick (1;2) cement sand plaster i/c the cost of sealer for					
		finishing the joints i/c cutting grinding complete in all respects					
		and as approved and directed by the Engineer Incharge.		6 4		Der Off	
		12"x18"/12"x24"/10"x24" /8"x24"/12"x36"	2550.00	Sft		Per Sft	
I							

	Reff.	Description	Quantity	/	Rate	Unit	Amount
52	10/25	Providing and laying superb quality Ceramic Tiles Dado of Master brand of specified size, Glossy/Matt/Texture skirting/dado of approved Color and Shade with adhesive bond over 1/2"thick (1:2) cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects as approved and directed by the Engineer Incharge. 12"x18"/12"x24"/10"x24" /8"x24"/12"x36"	7300.00	Sft		Per Sft	
53	25/59	Providing and fixing M.S. grill fabricated with MS Square polished Vertical/horizontal Bars of specified size @ 4" c/c ' passed through punched holes in MS Patti of 1-1/4"x1/8" i/c the cost of 1-1/4"x1/8" MS patti for Frame of windows and painting 3 coat complete in all respect as approved and directed by the Engineer Incharge.					
		(i) 3/8" Squar Bars	3250.00	Sft		Per Sft	
		Providing and fixing 2'-9" high stair railing comprising of non magnetic (304) Stain less steel 2" dia pipe railing of 18 SWG welded with vertical posts of 2" dia stainless steel round/ Squar pipe @ 2-ft c/c fixed on alternate steps with 3" long steel screws and brass rawal plugs, 3-Nos diagonal stainless steel pipes of 1/2" dia passes through goties fixed on vertical post, i/c stainles steel welding. fixing & polishing complete in all respects as approved and	425.00	Sft		Per Sft	
55	12/62	Providing and fixing almiral solution in an reasonable us destroyed and side Laminated/Glossy MDF (Karachi) sheet with 1"x3/4"deodar wood golla all around the leaf fixed on (3"x1") Kail wood frame i/c the cost of 1/2" full brass hinges, C.P.handles, catchers, screws, and rawal plugs, polishing/ paint ing 3 coat to gola & frame i/c the cost of locking arrangement complete in all respect as approved and directed by Engineer Incharge. (for Rooms)					
			4750.00	Sft		Per Sft	
56		Providing and fixing False Ceiling comprises of Gypsum board laminated sheet of size $2'x2'/2'x3'/3'x3'$ of specified design and thickness i/c cost of fixtures i.e galvanized angle 1" x 1" at wall sides, galvanized tee $1'_4$ " x 1"and $1'_2$ " x 1" both at 4' c/c (made of Taiwan CKM or equivalent), hanging with G.I/Copper wire 16 SWG, G.I hook, Rawal Plug etc: complete in all respects as approved and directed by the Engineer Incharge.					
		9 mm thick	1500.00	Sft		Per Sft	
57		Providing and fixing 2" wide MS Chowkat Singel/Double Rebate made of 16 SWG MS sheet pressed/welded / supported with M.S. flat 1-1/4"x1/8" i/c 6"long M.S. Flat 1"x1/8"hold fasts (6-Nos) welded/ screwed, punching of lock hole covered with MS Box,coating with antirust paint including filling with cement sand mortar (1:8) and embedding hold fast in cement concrete (1:2:4) ,complete in all respect as approved and directed by Engineer Incharge.					
		i) 15 " wide ii) 10.50 " wide iii) 5.5 " wide	120.00 22.50 750.00	Sft Sft Sft		Per Sft Per Sft Per Sft	
58	12/67	Providing and fixing Auotomatic Hydraulic Operated Door Closer imported heavy duty complete in all respect as approved and directed by the Engineer Incharge.	8.00	No		Each	
59		P/F Iron Door comprising of specified leaves made of 1-1/4" x1-1/4" x3/16" MS angle iron for leaf frame, diagonal and horizontal braces duly welded with MS. sheet 18-SWG i/c the cost of sliding bolt, tower bolt and painting 3-coats but excluding the cost of Chowkat complete in all respect as approved and directed by the Engineer incharge. Double Leaf	80.00	Sft		Per Sft	
60		Providing and fixing M.S Grating comprising of Angle Iron frame size 1.50" x 1.50" x 3/16" and 1/2" square bars duly welded @ 4" c/c, including painting charges etc					
		complete in all respect.	200.00	Sft		Per Sft	

No.	Reff.	Description	Quantity	Rate	Unit	Amount
61	7/38	Providing and laying fair face Gutka cladding laid in (1:2)				
		cement / red posso mortar having 1/4" thick groove finish i/c cost of 8 SWG wire in shape of 8 placed				
		horizontally and vertically at 36" and 18" c/c				
		respectively i/c cutting charges as per approved				
		drawing excluding carriage charges complete in all				
		respect as approved and directed by the Engineer Incharge. 2-1/4" x 3" x 9"	22750.00 Sft		Per Sft	
			22730.00 31		r er on	
62	12/58	Providing and fixing ornamental wooden architrave 3" x				
		(1½" tapered to ¼") all along the door frame complete in all	1000.00 05		D 0#	
		respects Deodar wood architrave	1020.00 Sft		Per Sft	
					Total	
1	N.S	Civil Work (Non-Schedule) Structural excavation in any kind of soil above / below water				
-		level for levelling and grading of building, for raft /				
		foundations and other structures upto any depth, and				
		disposal of unsuitable / surplus excavated material outside the project premises at any lead, including restoration of				
		any damages during excavation is the responsibility of				
		contractor complete in all respects as per Specifications				
		and as per approval of The Engineer.	28503.35 Cft		Per Cft	
2	N.S	Supplying, filling select fill material as specified in the				
		drawing including all lead and lift dressing watering and				
		compacting to produce in situ dry density not less than 95% modified AASHTO or as directed by the engineer	69171.20 Cft		Per Cft	
		35% modified AASH TO OF as directed by the engineer				
3	N.S	Providing and fixing UPVC Doors 38mm thickness i/c deluex				
		matching color UPVC Frame (matt or glossy finish) having color (whiteGray-Marble Gray-Oak Wood- Dard Oak Wood, Coffee				
		Wood Honey Pine Wood-Mahagony-Marry Gold-Chocolate	750.00 Sft		Per Sft	
		Brown-Honey Dew) i/c all accessories				
		complete in all respect as approval by the Engineer Incharge.				
4	N.S	Providing & Fixing Cabinet consisting of lamination board 3/4"				
	_	thick for leaves, kail wood frame 2.50" x 1", Gola for 'leaf 3/4" x				
		3/4" including sprit polish for gola complete in all respects as per				
		design, drawing & pattern as approved by the engineer incharge. (Down portion)	450.00 Sft		P/Sft	
					17010	
5	N.S	Providing & Fixing Cabinet upper portion consisting of lamination				
		board 3/4" thick box and leaves, Partal wood frame 3" x 1", Gola for 'leaf 3/4" x 3/4" including siprit polish for gola complete				
		in all respects as per design, drawing & pattern as approved by				
		the Engineer Incharge. (Upper Portion)	250.00 Sft		P/Sft	
6	NS	Supply & installation Burner 36 Nozel with casing & round				
Ŭ	11.0	iron plate (pan) Complete in all respect and approved by				
		Engineer Incharge.	5.00 No		Each	
7	NS	Supply & installation Burner 24 Nozel with casing Complete				
'		in all respect and approved by Engineer Incharge.	1.00 No		Each	
۱.						
8	N.S	Supply & installation Tandoor large size dia (25 Roti) complete in all respect and approved by Engineer inch.	1.00 No		Each	
9	N.S	Providing and fixing Steel Floor trap Jali complete in all				
Í	_	respect as per specification and as approved by the				
ĺ		Engineering Incharge.	60.00 No		Each	
10	NS	Providing & Fixing Looking Glass 5-mm thick best				
		quality,complete in all respect as per specifications and				
		drawings and as approved by the Engineer Incharge.	265.00 Sft		Per Sft	
⊢			+ +		Total	
<u>.</u>		1	1 1			

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

No.	Reff.	Description	Quanti	ty	Rate	Unit	Amount
11	23/46	Providing and fixing CP heavy duty brass Ball valve with CP handle					
		of specified diameter made of Faisal/Sonex / Master best quality or equivalent complete in all respect as approved and					
		directed by the Engineer Incharge.					
		i) 1" dia ii) 1-1/4" dia	8.00 4.00	No No		Each Each	
		iii) 1.50" dia	4.00 4.00	No		Each	
		iv) 2" dia	2.00	No		Each	
12		Providing, fixing, testing and commissioning of µ-PVC (Unplasticized polyvinyl Chloride) Nikasi/ waste pipe make of dadex /Popular/Beta/BBJ plain /socket ended conforming to code EN-1401 of specified SDR (Standard Dimension Ratio) including the cost of specials and Solvents complete in all respect as approved and directed by the Engineer Incharge.					
		Type (SDR 41/SN-4)					
		i) 3"(90 mm)	500.00	Rft		Per Rft	
		ii) 4"(110 mm) iii) 6" (160 mm)	1200.00 600.00	Rft Rft		Per Rft Per Rft	
13	19/50	Providing, laying, testing and commissioning underground Yellow Polyethelene flexible gas pipe Tubing of required IPS(Iron Pipe Size) in the trenches, made of (Dadex/ Popular / Beta/ BBJ) for Gas supply i/c the cost of solvent and specials complete as approved and directed by the Engineer Incharge. SDR-11					
		(ii) 1" (iii) 1.50"	1350.00 500.00	Rft Rft		Per Rft Per Rft	
14	19/49	Providing, fixing, testing and commissioning of μ-PVC (a) P-Trap					
		(i) 4" dia	45.00	No		Each	
		(b) Vent Cowel (i) 3" dia	15.00	No		Each	
15		Providing and fitting plastic made low down flushing cistern 13.63 litre (3 gallons) capacity, including bracket set, copper connection, etc. complete.	18.00	No		Each	
16		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" i/c carriage of pipe from factory to site of work, lowering in					
		trenches to correct alignment and grade, jointing, cutting pipes where necessary, finishing and testing, etc., complete.9" i/d	500.00	Rft		Rft	
17	19/27	Providing and fixing chromium plated bib cock:- 1.5 cm ($\frac{1}{2}$ ")	17.00	No.		Each	
18		Providing and fitting chromium plated or oxidised, gas cock 6mm (1/4") Two way	5.00	No.		Each	
						Total	
1	24/3	Electrical Work Supply and erection of PVC pipe for wiring recessed in walls, including inspection boxes, pull boxes, hooks, cutting jharries,and repairing surface, etc., complete with all specials.					
		i) 3/4" i/d (20 mm) ii) 1" i/d (25 mm) iii) 1.50" i/d (40 mm) iv) 2" i/d (50 mm)	2250.00 2300.00 250.00 450.00	M M M M		Per M Per M Per M Per M	
2	ii	Supply and erection of PVC pipe for recessed wiring main and submain) purpose, i/c bends, specials etc in floor, walls or trenches:					
		3" i/d (80 mm)	800.00	М		Per M	
3		Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe/M.S. conduit/G.I					

No.	Reff.	Description	Quantity	Rate	Unit	Amount
		pipe/wooden strip batten/wooden casing an capping/G.I.				
		wire/trenches (rate for cables only). 250/440 volts, PVC insulated:				
		i) 3/0.74 mm (3/0.029")	13500.00 M		Per M	
		ii) 7/0.74 mm (7/0.029")	5852.00 M		Per M	
		iii) 7/0.91 mm (7/0.036")	2550.00 M		Per M	
		iv) 7/1.12 mm (7/0.044")	3000.00 M		Per M	
		v)7/1.63 mm (7/0.064") vi) 19/1.32 mm (19/0.052")	1600.00 M 2100.00 M		Per M Per M	
		vii) 19/1.63 mm (19/0.064")	1000.00 M		Per M Per M	
4	24/13	Supply and erection of copper conductor cables for service				
		connection, in prelaid pipe/G.I. wire/trenches, etc. (rate for cable only):- PVC insulated, PVC sheathed 4 core, 660/1100				
		volt non armoured cable:-				
		i) 7/1.63 mm (7/0.064")	300.00 M		Per M	
		ii) 19/1.32 mm (19/0.052")	285.00 M		Per M	
5	24/30	Supply and erection of ceiling rose, bakelite.	100.00 No		Fach	
5	24/30	Cappy and creation of centry 1036, Darente.	100.00 No		Each	
6	24/103	P/F PVC double layer Switch kit Faceplate with specified				
		switch holes i/c the cost of switches / sockets / dimmer made				
		of Hi-Life / Bush / Schenider, screws complete as approved				
		and directed by the Engineer Incharge a) One way Gange Switch				
		Small				
		i) 02 Gange	12.00 No		Each	
		ii) 03 Gange	12.00 No		Each	
		iii) Three pin Light Plug 10/13 Amp iv) Fan Dimmer	300.00 No 90.00 No		Each Each	
		v) Three Pin Power Plug 15-32 Amp	120.00 No		Each	
		Large				
		i) 04 Gange	50.00 No		Each	
		ii) 05 Gange iii) 06 Gange	50.00 No 120.00 No		Each Each	
			120.00 110		Lach	
7	24/104	P/F PVC concealed Switch kit Box i/c the cost of screws				
		complete as approved and directed by the Engineer Incharge				
		i) Small ii) Large	534.00 No 220.00 No		Each Each	
			220.00 NO		Lach	
8	24/102	Providing and fixing Copper winded Exhaust fan with louver				
		and shutter made of Pak/Younas/G.F.C. i/c the cost of				
		necessary cable and hardware for connection from ceiling rose complete as approved and directed by Engineer Incharge.				
		a) Plastic body				
		i) 12" dia	35.00 No		Each	
	0.4/5-5					
9	24/86	Suppling,Installation and comissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND				
		FRANCE/ GE U.S.A / SCHNEIDER GERMANY /SIEMEN				
		GERMAN/TERASAKI JAPAN/ ABB SWITZERLAND in prelaid				
		DBs and Panels i/c the cost of screwes,necessary w wire complete in all respect as approved and directed by the				
		Engineer Incharge				
		Single Pole				
		6-40 Amp (6 KA)	550.00 No		Each	
10	24/87	Supplying ,Installation and commissioning of MCCB (Moulded				
		Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI				
		JAPAN/SIEMEN/ABB SWITZERLAND (with fixed				
		Thermal-Magnetic Trip) in prelaid DBs and Panels				
		i/c the cost of screws, necessary wire complete in all respect				
		as approved and directed by the Engineer Incharge Tripple Pole				
		i) 15-100 Amp(18 KA)	40.00 No		Each	
		ii) 125-250 Amp(18 KA)	40.00 No		Each	
1		iii) 300-630 Amp(36 KA)	4.00 No		Each	

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

No.	Reff.	Description	Quantity	Rate	Unit	Amount
4	N.S	Providing & Fixing of LED Wall Light 15 Watt i/c any accessories (i.e. screw. Rawl plug or steel nail, etc.) as required at site. Complete in all respect as directed and approved by the Engineer Incharge. (WL008C OVAL Philips)	70.00 N	0	Each	
5	N.S	Supply & installation of Wall Mounted LED Batten Light 20W (220V~, 6500K) Size 4 Feet long, i/c any accessories required at site Complete in all respect as directed and approved by the Engineer Incharge (Philips Slimline or Equivalent)		0	Each	
6	N.S	Supply & installation of PVC Fan Box with iron bar i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge. (GM, Bita or equivalent)	90.00 N	0	Each	
7		Supply & installation of Ceiling Fans, 56" sweep copper winding i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Royl Fan/Deluxe, Indus/Supreme, Pak Fan/Deluxe or equivalent)	90.00 N	o	Each	
8	N.S	Supply & installation of 2' x 2' False Ceiling Fan 18" swipe (99.99% Copper), remote controlled i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Royal, Super-asia or Equivalent)	25.00 N	0	Each	
9	N.S	Supply & installation of Wall Bracket Fan 24" (99.99% Copper) i/c any accessories (i.e. mounting screws & etc) as required at site. Complete in all respect as directed and approved by the Engineer Incharge (Younis, Tamoor, Pakfan or Equivalent)	8.00 N	0	Each	
10	N.S	Providing and Laying earthing for Electric Machines I/c boring up to moisture level (up to 60' below ground level) 4" i/d including copper strip 14" x 2" x 1/4" (350 x 50 x 6 mm) connecting with 1 Nos.bare copper wire of No.8 SWG to be run in PVC pipe 20mm i/d, 11/4" i/d GI pipe 5' long, GI tee & plug for watering also includs common salt, Lime (slaked) & charcoal around copper strip I/c connecting with Electric machine. Complete in all respects as approved and as				
		directed by the engineer incharge.	2.00 N	0	Each	
					Total	
1	7/30	External Civil Work Supplying and filling sand under floor; or plugging in wells.	1600.00 C	ft	% Cft	
2	6/3	Cement concrete brick or stone ballast 1½ " to 2" (40 mm to 50 mm) gauge, in foundation and plinth:- Ratio 1:6:12	1800.00 C	ft	% Cft	
3	10/41	Providing and laying Tuff pavers, having 7000 PSI, crushing strength of approved manufacturer, over 2" to 3" sand cushion i/c grouting with sand in joints i/c finishing to require slope. Complete in all respect. (50% Grey / 50% Coloured) 60mm thick	3000.00 S	ft	Per Sft	
4		Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): Ratio 1: 2: 4	100.00 C	ft	% Cft	
5	6/6	Reinforced cement concrete in slab of rafts / strip foundation, base slab of column and retaining walls; etc and other structural members other than those mentioned in 5(a) (i) above not requiring form work (i.e. horizental				
		shuttering) complete in all respects Type C (nominal mix 1: 2: 4)	100.00 C	ft	Per Cft	

No.	Reff.	Description	Quantity		Rate	Unit	Amount
6		Providing and fixing precast Edge Kerb Stone (4"to 6" thick), of 3500 PSI Compressive Strength, embeded in PCC 1:2:4 over lean concrete 1:4:8 etc complete in all respect. With Painting 14" High (Main Path to Enterance)	400.00	Rft		Per Rft	
						Total	
1	3/42	External Plumbing Work Earthwork excavation in open cutting for sewers and manholes as shown in drawings including shuttering and timbering, dressing to correct section and dimensions according to templates and levels, and removing surface water, in all types of soil except shingle, gravel and rock:- 0 ft. to 7.0 ft. (0 to 2.10 m) depth	7500.00	Cft		%o Cft	
2		Pacca brick work in foundation & plinth:- cement, sand mortar:- Ratio 1:4	650.00	Cft		% Cft	
3		Cement plaster 1:3 upto 20' (6.00 mm) height:- i) 3/4" thick ii) ½" thick		Sft Sft		% Sft % Sft	
4		Excavation of trenches in all kinds of soil, except cutting rock, for water supply pipe lines upto 5 ft. (1.5 m) depth from ground level, including trimming, dressing sides, levelling the beds of trenches to correct grade and cutting pits for joints, etc	3500.00	Cft		%o Cft	
		Providing and fixing cover with tee shaped C.I. frame of 22" I/d (frame weighing 37.324 Kg. or one maund as per Standard Drawing STD/PD No. 6, of 1977, complete in all respect.	20.00 1	No.		Each	
6		 Making connection for new watersupply lines with the running main, including excavation of trench and refilling, complete, but excluding cost of pipe and specials, etc. Diameter of running main: i) upto 6" i/d (150 mm) ii) upto 8" i/d (200 mm) 		Con Con		P.Con P.Con	
7	23/43	Providing, laying, cutting, jointing, testing and disinfecting High Density Polyethylene Pipe (HDPE-100) working presure pipe in trenches. complete in all respects PN-20 (SDR-9) 3" (90mm)	250.00	Rft		Per Rft Total	
1 2		External Electrical Work Earthwork excavation underessed lead upto a single throw of Kassi, phaorah or shovel:- In ordinary soil.	3500.00	Cft		%o Cft	
	d	Supply and erection of copper conductor cables for service connection, in prelaid pipe/G.I. wire/trenches, etc. (rate					
		for cable only: PVC insulated, PVC sheathed 4 Core,					
		600/1000 volt armoured cable 150 mm (37/0.093)	175.00 I	м		Per M	
			 	+		Total	
1		External Electrical (Non-Schedule) Supply and installation of 70mm ² -120mm ² , Aluminum Alloy Parallel Groove Clamp complete with nut/bolts i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge.	4.00	No		Each	
				-		Total	

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

Estimate

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

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

	Construction of New Gir			igar Campus	<u> </u>	
		Estin	<u>Estimate Based c</u>	n MPS Junuar	, to lune 202	3 RWN
			Estimate Daseu C	-		
No.	Description	Ref.	Quantity	Rate	Unit	Amount
1	<u>Civil Work (Schedule Items)</u> Jungle clearance and removing within 100 ft. (30 m).light	3/47.a	46714.13		%Sft	
2	Excavation in foundation of building,bridges andother structures,including dagbelling, dressing,refilling around structure with excavated earth,watering and rammiing lead 'upto one chain (30m) and lift upto 5 ft. (1.5 m) By Excavator.In ordinary soil.		Sft		%oCft	
3	Spraying termite proofing by using liquid FMC / Biflex/ Terminex Exin /Ms Hextaror equivalent @ specified suspension concente rate (SC),Mixing Ability-HEXTAR with Ratio (1:250)=540 Sft or equivalent approved liquid applying with shower and certificate will be	3/21-B-ii	58486.15 Cft			
4	provided by the contract or for 10-years complete in all respect.as approved by the Engineer Incharge. Supplying and laying polythene sheet over	26/43	62868.25 Sft		Per Sft	
	D.P.C. under floors and on roofs, etc 500 gauge (.005" thick)	26/37-ii	66260.84 Sft		Per Sft	
5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): i) Ratio 1:4:8 ii)'Ratio (1:2:4)	6/5-i 6/5.f	12668.64 5728.86 Cft		% Cft % Cft	
6	Fabrication of M.S. Reinforcement for cement concrete including bending, laying in position, making joints and fastening i/c cast of binding wire and labour charges for bending of steel reinforcement also includes removal of rust from bars - Deformed Bar Grade 60	6/12-c	135923.78		% Kg	
7	Providing and laying reinforced cement concrete (includingprestressed concrete), using Ordinary Portland Cement / Sulphateresisting cement / Slag cement as may be required; coarse sand andscreened graded and washed aggregate, in required shape and design,including forms, moulds, shuttering, lifting, compacting,curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):- Reinforced cement concrete in slab of rafts / strip foundation, base slab of column and retaining walls; etc and other structural members other than those mentioned in 5(a) (i) above not requiring form work (i.e. horizontal shuttering) complete in all respects:- (2) Type B (nominal mix 1: 1½: 3)	6/6-aiii-	Кg			
8	Providing and laying reinforced cement concrete (includingprestressed concrete), using Ordinary Portland Cement / Sulphateresisting cement / Slag cement as may be required; coarse sand andscreened graded and washed aggregate, in required shape and design,including forms, moulds, shuttering, lifting, compacting,curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):- Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects.	2b 6/6-ai-2c	19878.00 Cft		Per Cft	
i) ii)	Ground Floor Ratio (1:1½:3) First Floor Ratio (1:1½:3)	6/6-ai- 2c+d	26817.88 1617.44 Cft		Per Cft Per Cft	

	Estimate Based on MRS Junuary to June, 2023 BWN						
No.	Description	Ref.	Quantity	Rate	Unit	Amount	
9	Two coats of bitumen laid hot using 34 lbs. per %Sft, or 1.72 Kg per square metre over roof and blinded with sand at one Cft. per %Sft. (0.003 cu.m per sq.m)	9/12	37330.70 Sft		%Sft		
10	Providing and fixing theremopore (foamed polythene) sheet in horizontal and vertical expansion joints: a) 1" (25 mm) thick thermopore sheet	6/35-a	1852.00		Per Sft		
11	Filling, watering and ramming earth under floors:-		Sft				
10	i) with surplus earth from foundation, etc.	3/15i.	19495.38 Cft		%oCft		
12	Filling, watering and ramming earth under floors:- ii) with new earth excavated from outside,lead upto one chain (30 m). Transportation of earth all types when the total distance,including the lead covered in the item of work,is more than 1000 ft.(300 m) lead upto 5 mile.	3/15- ii+17a,b ,c	195000.00		%oCft		
13	Pacca brick work in foundation and plinth in:- i) cement, sand mortar:- Ratio 1:4	7/4-i	Cft 16556.36		% Cft		
14	Providing and laying damp proof course of cement concrete 1:2:4 (using cement, sand and shingle), including bitumen coating :- (a) with one coat bitumen and one coat polythene sheet 500 gauge. ii) 1-1/2" thick (40 mm)		Cft				
		6/36ai	2518.85 Sft		%Sft		
15 i) ii)	Pacca brick work in ground floor:- i) cement, sand mortar:- Ratio 1:4 Ground Floor First Floor	7/5-i 7/5-i+6i	26024.82 6543.94		% Cft % Cft		
16 	First class brick walling laid in 1:3 cement sand mortar, reinforced with 1" (25 mm) wide 18 gauge hoop iron:- ii) $4\frac{1}{2}$ " (113 mm) thick walling with hoop iron, bonding 12" (300 mm) apart.	7/21-ii	Cft		N/ 05		
i) 17	Ground Floor Supplying and filling sand under floor; or		6932.50 Sft		% Sft		
18	plugging in wells. Dry rammed brick or stone ballast, 1½" to 2"(7/30.	12373.35 Cft		% Cft		
	40 mm to 50 mm) gauge. Cement concrete brick or stone ballast 1½ " to	6/2	12905.11 Cft		% Cft		
	2" (40 mm to 50 mm) gauge, in foundation and plinth:- (1:4:8)	6/3.b	3375.35 Cft		% Cft		
20	Cement plaster 3/8" (10 mm) thick under soffit of R.C.C. roof slabs only, upto 20' height. Ratio 1:3						
	Ground Floor up to 20' height First Floor up to 30' height	11/10-b 11/10- b+11/28	37619.67 2286.81		% Sft % Sft		
21	Cement plaster 1:4 upto 20' (6.00 m) height:		Sft				
i) ii)	Upto 20' heights a) '½" (13 mm) thick b) ¾" (20 mm) thick	11/9-b 11/9-c	106932.90 40883.01 Sft		% Sft % Sft		
22	Providing & Laying Insulation material of Extruded Polystyrene XPS in Rigid Insulation /Foam Board on roof or wall ,Density 32-38 Kg/M, Compressive Strenght 250-400 kpa,R- Value 5 per inch thickness & water obsorbtion (1% by volume, cell structure clored cell) i/c cutting & placing in position complete in all		Un				
	respect . b)1.5" Thick	9/45.b	29846.72 Sft		%Sft		

	Estimate Based on MRS Junuary to June, 2023 BWN					
No.	Description	Ref.	Quantity	Rate	Unit	Amount
23	Single layer of tiles 9"x4½"x1½" (225x113x40 mm) laid over 4"(100 mm) earth and 1" (25 mm) mud plaster without Bhoosa, grouted with cement sand 1:3 on top of RCC roof 'slab, provided with 34 lbs. per %Sft. or 1.72 Kg/Sq.mbitumen coating sand blinded.					
		9/5.	29846.72 Sft		%Sft	
24	Khuras on roof 2'x2'x6" (600 x 600 x 150 mm)	9/15.	27.00 No		Each	
25	Providing and fixing mild steel chowkat of doors, windows, C.window, etc. including holdfast, making and threading holes for hinges, etc. complete:- a) M.S. angle iron 1½"x 1½"x ½" (40x40x6 mm) welded with M.S. flat 2"x ¼" (50 mm x 6 mm)					
		12/15-a	2765.00 Sft		Per Sft	
26	P/F1-1/2"thick solid flush door comprising of 2.5mm thick Deodar/Ash/Oak ply with grooves, compressed over 2.5mm thick commercial ply over 1"thick packing woodin style and rails under proper pressure i/c the cost of nails, tower bolt, handles, glue, sawing charges and lacquar polishing to show the grains of plyproperly, sand papering and 3/8" thick matching wooden lippingas approved and directed by the Engineer Incharge.	12/52.	1925.00		Per Sft	
27	Providing and fixing marble strip of any shade		Sft			
	for dividing the mosaic flooring into panels. 'Size 1½" x 3/8" (40 x 10 mm)	10/40.a	2,566.36 Rft		Per Rft	
28	Providing and laying topping of cement concrete 1:2:4,including surface finishing and dividing in panels: 1.5"(40 mm) thick	10/15-c	8,576.97 Sft		% Sft	
29	Preparing surface and painting with emulsion paint:- New surface 3-coats	13/31. i+ii+ii	106932.91 Sft		%Sft	
30	Painting new surface:- Preparing surface and painting of doors and windows any type (including edges):- 3-Coats	13/5-c i+ii+ii	1925.00		%Sft	
31	Priming coat of chalk under distemper.	11/22.	Sft 39906.48 Sft		%Sft	
32	Distempering:- a) new surface:- iii) three coats	11/23.a. iii	39906.48		%Sft	
33	Providing and fixing 6 in(150 mm). wide curved sheet of required shape fixed on face of the construction joint with G.I.screw,1.5 in (40 mm) long to cover construction joints vertically:-G.I sheet 18 SWG		Sft			
		6/27-ii	1450.00 Rft		P/Rft	
34 i)	Providing and applying weather shield paint of approved quality on external surface of building including preparation of surface, application of primer complete in all respect: new surface: 2-Coats upto 20' height	13/33-a- i+ii	40883.01 Sft		% Sft	
35	P/F3/4"dia heavy duty sliding bolt of specified material i/c thecost of hardware complete in all respect as approved and directed by the	10/01 5	on			
	Engineer Incharge. (B)Brass sliding bolt, 10" (250 mm) long	12/61-В- і	172.00 Nos		Each	

material i/c all respect a Engineer In	Description heavy duty sliding bolt of specified	Ref.	Quantity	Rate	Unit	
material i/c all respect a Engineer In			,	ituto	Unit	Amount
i) iron siidin	thecost of hardware complete in as approved and directed by the charge.(A) Iron g bolt, 10" (250 mm) long	12/61-A.i	91.00		Each	
ii) Iron slidir	ng bolt, 12" (300 mm) long	12/61-Ai.i	95.00		Each	
PSI,crushin manufactur grouting wit require slop	nd laying Tuff pavers,having 7000 g strength of approved er,over 2" to 3"sand cushion i/c th sand in joints i/c finishing to be . complete in all respect. (50% Coloured 60 mm thick	10/41.b	Nos 6306.83 Sft		Per Sft	
aluminium v partly fixed sections of having fram and 'leaf fra (2"x ³ ⁄4"), all mm thick in gasket usin	nd fitting all types of glazed windows of anodised bronze colour and partly sliding using delux M/s Al-Cop or Pakistan 'Cables he size of 100 x 20 mm (4"x ³ /4") ime sections of 50 x 20 mm of 1.6 mm 'thickness including 5 hported tinted glass with rubber g approved standard latches, tc., as approved by the Engineer in-	25/52.	2720.00		Per Sft	
39 Providing and	d fixing Aluminum Fly screen	25/52.	2720.00 Sft		Per Stt	
(Malasian) fix manufactured size 1-1/2"x1 gasket i /c cc directed by th	f Fiber/Aluminum wire guaze ked in aluminum frame of approved r brownze Colour/powder coated of /2" and 1.6 mm thick with rubber set of Hardwares as approved and he engineer incharge complete in all					
respect.		25/53.	1360.00		Per Sft	
12x12 'mes in cm2) fixe flat iron pat	nd fixing G.I. wire gauze 22 SWG, hes per square inch, (5x5 meshes ed to steel window, complete with ti $\frac{1}{2}$ "x 1/8" (13 mmx3 mm) and		Sft			
	ade screws.	12/55.	707.04 Sft		P/Sft	
41 Glazing with of putty.	panes (16 oz. to 18 oz.,) including cost	12/45.b	65.90 Sft		P/Sft	
glazed tiles specified siz Shade with 3/4"thick(1: sealer for fil grinding con and directed	nd laying superb quality Porcelain flooring of MASTER brand of ze in approved design,Color and adhesive/bond over 3)cement plaster i/c the cost of nishing the joints i/c cutting mplete in all respect as approved d by the Engineer Incharge.Full d tiles.400mmx 400 mm					
		10/42.a.i	26672.69 Sft		Per Sft	
MS Square of specified punched ho the cost of windows an	nd fixing M.S. grill fabricated with polished Vertical/horizontal Bars size @ 4" c/c ' passed through bles in MS Patti of 1-1/4"x1/8" i/c 1-1/4"x1/8" MS patti for Frame of nd painting 3 coat complete in all approved and directed by the charge. a) 3/8" Squar Bars					
		25/59.i	2720.00 Sft		Per Sft	

	Estimate Based on MRS Junuary to June, 2023 BWN						
No.	Description	Ref.	Quantity	Rate	Unit	Amount	
44	Providing and fixing 2" wide M S Chowkats in gel / double rebate made of 16 SWG MS sheet pressed /welded /supported with M.S.flat 1-1/4"x1/8"i/c6" long M.S. Flat 1"x1/8" hold fasts (6-Nos) welded /screwed, punching of lock hole covered with MS Box, coating with anti rust paint including filling with cement sand mortar (1:8) and embedding hold fastin cement concrete (1:2:4), complete in all respect as approved and directed by Engineer Incharge.						
	(i) 10.50 " wide	12/17ii	548.00 Sft		Per Sft		
45	Providing and laying superb quality Ceramic tile floors of Master brand of specified size, Glossy/Matt/Texture of approved Color and Shade as perapproved design with adhesive bond, over 3/4" thick(1;2) cement sand plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects and as approved and directed by the Engineer Incharge.12"x18"/12"x24"/10"x24" /8"x24"/12"x36"	10/04 -	2225.07		D/04		
		10/24.i	2225.07 Sft		P/Sft		
46	Providing and laying superb quality Ceramic tiles dado of Master brand of specified size, Glossy/Matt/Texture skirting / dado of approved Color and Shade with adhesive bond over 1/2"thick (1:2) cemen tplaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects and as approved and directed by the Engineer Incharge.12"x18"/12"x24"/10"x24" /8"x24"/12"x36"						
		10/25.i	9153.85 Sft		Per Sft		
47	Providing and laying 3/8 inch thick superb class Multani tiles of specified size and design of approved Colorand Shade with adhesive bond ,over1/2" thick (1:2) cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects and as approved and directed by the Engineer Incharge.	.10/44	238.20		P/Sft		
48	Providing and laying Prepolished Granite of specified thickness and shade of full width of approved quality laid with adhesive bond over 3/4" thick (1:2) cement sand mortor bed ,complete in all respect as approved and directed by the Engineer Incharge.3/4" thick	10/50.i	Sft 2398.84		Per Sft		
49	Extra for Bevelling charges of marble edge in approved design complete in all respects i/c the cost of Carbor and amdisc as approved	10,00.1	Sft				
	and directed by the Engineer Incharge.	10/48.	980.00 Rft		Per Rft		
50	Extra cost for making hole in Marble slab for fixtures,Sink,burners,basin Vanities i/c cost of bevelling of internal edge as approved and directed by the Engineer Incharge.	10/40	24.00		Each		
51	Providing embeding 10" (250 mm) wide 1/4" (6	10/49.	24.00 Nos		Each		
	mm) thick rubber water stopper in expansion joints of R.C.C. roof slab complete in all respects.	6/31.	350.00		Per Rft		
			P/Rft				

	Estimate Based on MRS Junuary to June, 2023 BWN						
No.	Description	Ref.	Quantity	Rate	Unit	Amount	
	Providing and fixing 2'-9" high stair railing comprising of non magnetic (304) Stain less steel 2" dia pipe railing of 18 SWG welded with vertical posts of 2" dia stainless steel round/ Squar pipe @ 2-ft c/c fixed on alternate steps with 3" long steel screws and brass rawal plugs, 3-Nos diagonal stainless steel pipes of 1/2" dia passes through goties fixed on vertical post, i/c stainles steel welding, fixing & polishing complete in all respects as approved and directed by the Engineer Incharge.						
		25/64	516.64 Rft		P/Rft		
	Providing and laying superb quality Porcelain glazed tiles of Master brand, skirting/dado of specified size, Color and Shade with adhesive/bond over 1/2"thick (1:2) cement plaster i/c the cost of and sealer for finishing the joints, cutting grinding complete in all respect as approved and directed by the Engineer Incharge.a) Full body Glazed Tile 400mmx 400 mm						
	40011111 400 11111	10/43.a.i	3377.80 Sft		Per Sft		
54	Providing and applying wall putty of 2 mm thickness over plastered surface (new surface) to prepare the surface even and smooth complete in all respect.	13/46	106932.91		% Sft		
55	Providing and fixing 1st class solid wood wrought joinery in panelled or panelled and glazed doors and windows of specified thickness with 1" thick solid wood panels with step and 1-1/2"x2-1/2" beadings all around the panels i/c the cost of Tower bolt and handles complete in all respect (Excluding the cost of sliding bolt,lock and chowkats (frame), etc.) as approved and directed by the Engineer InchargeOak/Ash wood Door(iii) 1-1/2" thick (40 mm)	12/7 b.iii	Sft 72.00		Per Sft		
56	Providing and fixing Vin board cabinet 3/4" thick with	1277 5.111	Sft				
	drawers 3"deep in 'Kitchen including termite proofing and polishing with synthetic enamel as specified, with handles	12/59					
	hinges,screws etc., complete in all respects i) 2' deep,without back ii)2' deep,with back		46.20 67.90 Sft		Per Sft Per Sft Total		
	Civil Work (Non-Schedule Items)				Total		
	Making and errecting in position MS Grill Door with M.S box pipe 1.5"x1.5" main frame and M.S Box pipe 1/2"x1/2", 18 SWG for grill, complete in all respects and duly painted as approved by the Engineer Incharge.(Fly/Mosquito Proof Grill Doors for Fixing at Gallaries openings)	NS	1190.25 Sft		Per Sft		
2	Providing and fixing 3/4" thick laminated Board shutter with 3/4" x 3/4" deodar wood beading wardrobe frame of 3"x1.5" M.S Box pipe 18 SWG including catchers, lock, CP hanger rod with hooks, hinges, french polish on beading complete in all respects including hanger rod etc. as approved by the Engineer Incharge.		U.				
		NS	8316.00 Sft		Per Sft		
3	Providing & Fixing uPVC door 1.25" thick wooden colour i/c hinges, door handle with locking arrangement complete in all respects.						
		NS	857.50 Sft		Per Sft		

		Estimate Based on MRS Junuary to June, 2023 BWN					
No.	Description	Ref.	Quantity	Rate	Unit	Amount	
	Providing & Fixing Magnet stopper for doors with screws best quality complete in all respects as approved by the Engineer Incharge.	NS	160.00 Nos		Each		
	Preparing surface & applying siprit polish best quality complete in all respects as approved by the Engineer Incharge.	NS	144.00 Sft		P/Sft		
	Providing, applying and filling expansion joint with 2"x ¾" thick elastomeric sealant of approved manufacture over backing rod complete in all respect according to manufactures recommendations and to the entire satisfaction of the engineer incharge	NS	Sft 650.00		P/Rft		
	Subsequent carriage of crushed stone aggregate total distance from Sargodha to Bahawalnagar IUB Campus at site of work average 278 KM		Rft 74947.48 Cft		% Cft		
					Total		
1	Electric Work (Schedule Items) Supply and erection of PVC pipe for wiring recessed in walls, including inspection boxes, pull boxes, hooks, cutting jharries, and repairing surface, etc., complete with all specials. i) 20 mm i/d	24/3-ii	8514.91		Per Rft		
	ii) 25 mm i/d iii) 1.5" i/d (40 mm) iv)2" i/d (50 mm)	24/3-iii 24/3-v 24/3-vi	13277.60 150.00 1381.00 Rft		Per Rft Per Rft Per Rft		
	Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only). a) 250/440 volts, PVC insulated:						
ii) iii) iv) v) vi)	3/0.74 mm (3/0.029") 3/0.91 mm (3/0.036") 7/0.74 mm (7/0.029") 7/0.91 mm (7/0.036") 7/1.12 mm (7/0.044") 7/1.63 mm (7/0.064") 19/1.32 mm (19/0.052")	24/10-i 24/10-ii 24/10-ii 24/10-iv 24/10-v 24/10-vi 24/10-viii	12668.00 34248.00 20125.00 10553.00 2208.00 6677.00 2460.00		Per Rft Per Rft Per Rft Per Rft Per Rft Per Rft Per Rft		
	Supply and erection of copper conductor cablesfor service connection, in prelaid pipe/G.I.wire/trenches, etc. (rate for cable only):- PVCinsulated, PVC sheathed 4 core 660/1100 voltgrade cable, armoured with G.I. wire 16 SWG.	24/13-d	Rft				
	i) 185 mm (37/0.103")	2 // 10 4	79.27		Per M		
	ii)16 mm (7/0.064")	24/13	Per M 420.50 Per M		Per M		
	Providing and fixing Copper winded Exhaust fan with louver and shutter made of Pak/Younas/G.F.C. i/c the cost of necessary cable and hardware for connection from ceiling rose complete as approved and directed by Engineer Incharge.	24/102.a.ii					
	.Plastic body 12 " dia		15.00		Each		
5	Steel body 18" sweep P/F PVC double layer Switch kit Faceplate with specified switch holes i/c the cost of switches / sockets / dimmer made of Hi-Life / Bush / Schenider, screws complete as approved and directed by the Engineer		3.00 No		Each		
	Incharge	24/103.a					

Small 0.0 Control 0.0 Control 0.3 Gange 10.8 0.0 Control Each Three pin Light Plug 10/13 Amp 10.0 Control Each Fan Dinmer 110.00 Each Each Three Pin Power Plug 15-32 Amp 96.00 Each Each Large 96.00 Each 57.00 Each OG Gange 57.00 Each Each 0 Gange 24.00 Each Each 0 Gange 24.00 Each Each 0 Gange 108.00 Each Each 0 Gange 24.00 Each Each 0 Gange 108.00 Each Each 0 Gange 108.00 Each Each 0 Gange 108.00 Each Each 0 Gange 10.00 Each Each 0 Gange 24.01 Lib.v 108.00 Each 0 Gange 10.00 Each Each 0 Gange 10.00 Control Each 10 Gange 10.00 Control Each 10 Gange 24.01 Lib.v 105.00 Control 10 Gange 24.01 Lib.v 105.00 Control 10 Gange 24.03 Lib.N 105.00 Control 10 Gange 24.01 Lib.v 105.00 Control 10 Gange 24.01 Lib.v 105.00 Contro 10 Gange	10/13 Amp 108.00 Each Each Each
03 Gange Three pin Light Plug 10/13 Amp Fan Dimmer 108.00 110.00 Each Each Each Bach 108.00 Three Pin Power Plug 15:32 Amp Large 04 Gange 05 Gange 57.00 24.00 Each 96.00 108.00 05 Gange 04 Gange 57.00 24.00 Each 108.00 108.00 05 Gange 04 Gange 57.00 10.00 Each 108.00 108.00 04 Gange 108.00 11.00 Each 108.00 109 Gange 04 Gange 108.00 11.00 Each 108.00 109 Gange 04 Gange 108.00 11.00 Each 108.00 109 Gange 100 Gange 100.00 11.00 Each 108.00 100 Gange 110 Gange 100.00 11.00 Each 108.00 100 Gange 110 Gange 100.00 11.00 Each 108.00 101 Gange 110 Gange 100.00 11.00 Each 108.00 101 Gange 110 Gange 100.00 11.00 Each 109.00 110 Gange 110 Gange 100.00 Each 109.00 1110 Gange 1110 Gange 100.00 Each 100.00 1110 Gange 1110 Gange 100.00 Each 100.00 1110 Gange 1110 Gange 24/87.a.1 2.00 <t< th=""><th>10/13 Amp 110.00 Each</th></t<>	10/13 Amp 110.00 Each
Tree pin Light Plug 10/13 Amp Fan Dimmer110.00 103.00Each Each 103.00Tree pin Power Plug 15:32 Amp Large103.00Each 96.00H Gange57.00Each 96.00OG Gange57.00Each 103.00OG Gange32.00EachOG Gange32.00EachOG Gange108.00EachOG Gange108.00EachOG Gange108.00EachOG Gange108.00EachOG Gange108.00EachOf Gange108.00EachOf Gange108.00EachOf Gange108.00EachOf Gange108.00EachOf Gange108.00EachOf Gange108.00EachOf Gange108.00EachOf Specific Capedir, Jooc Earthing, Tarse Joneson of specific David Capedir Jooc Earthing, Tarse Joneson of specific David Capedir Jooc Earthing, Tarse Joneson of LEGRAND FRANCE/ CE U.S.A / SCHNEIDER (EGRAND FRANCE/ CE U.S.	10/13 Amp 110.00 Each
Factor103.00EachThree Pin Power Plug 15-32 Amp103.0096.00EachLarge0 Gange57.00Each0 Gange32.00Each0 Gange32.00Each0 Gange32.00Each0 Gange108.00Each0 Gange108.00Each0 Gange108.00Each0 Gange108.00Each0 Gange108.00Each0 Gange108.00Each103.00 or planetFinshirkwith detor satic power counting in approved coluri /c the ospecified capacity.Door Earthing, Drass glands.bus bars.ontrols complete in all respects as approved and disected by the Engineer incharge (Breakers will be Paid Semitarity 13.00 FI deep 2500-3200A)24/91.i.b./v103.00 or planet is approved and directed by the Engineer incharge. There Paie24/87.a.2.00110.10 or planet is approved and directed by the Engineer incharge. There Paie24/87.a.2.00111125-250 Amp(25KA)24/87.a.2.00Each111125-250 Amp(25KA)24/87.a.2.00Each11115-100 Amp (10 KA, 15KA)24/87.a.2.00Each11115-100 Amp (10 KA, 15KA)24/87.a.2.00Each11115-100 Amp (26 Core Switch, Current Transformers and Controle Complete in all respect as approved and directed by the Engineer Incharge. Reakers will be Paid Separately.(a) 6' deep75-100A24/87.a. i2.00Each11115-100 Amp (10 KA, 15KA)24/87.a. i2.000 <td></td>	
Three Pin Power Plug 15-32 Amp 96.00 Each Large 4 Gange 57.00 Each 04 Gange 57.00 Each 05 Gange 24.00 Each 06 Gange 32.00 Each 108 Gange 108.00 Each 04 Gange 108.00 Each 04 Gange 111.00 Each 04 Gange 108.00 Each 04 Gange 111.00 Each 108 Congression 111.00 Each 109 Congression 111.00 Each 100 Congression 111.00 Each 111 25-250 Amp(25KA) 24/87.a. 2.00 111 25-250 Amp(25KA)	
Large Large Each 04 Gange 5 Gange 24.00 05 Gange 32.00 Each 10 Gange 32.00 Each 10 Gange 108.00 Each 10 Gange 108.00 11.00 04 Gange 108.00 Each 10 Gange 108.00 11.00 04 Gange 108.00 Each 10 Gange 108.00 11.00 11 Loor 105.00 Crit 11 Loor 105.00 Crit 11 Loor 105.00 Crit 11 Loor 105.00 Crit 11 Loor Crit Crit 11 Loor Crit Crit 11 Loor Crit Crit 12 Separately).3.00 Pt deep 2500-3200A) 24/91.1.b.1x 105.00 12 Separately).3.00 Pt deep 2500-3200A) 24/97.a.x 2.00 13 00-630 Amp(36 KA) 24/87.a.x 2.00 Each 13 00-630 Amp(36 KA) 24/87.a.x 2.00 Each 13 00-630 Amp(10 KA, 15KA) 24/87.a.ii 9.00 Each 14 125-250 Amp(25KA) 24/87.a.ii 20.00 Each 13 00-630 Amp(10 KA, 15KA) 24/87.a.ii 2.00 Each <t< td=""><td>ug 15-32 Amp 96 00 Each</td></t<>	ug 15-32 Amp 96 00 Each
94 Gange 57.00 Each 95 Gange 24.00 Each 70 way Gange Switch small 33.00 Each 94 Gange 108.00 Each 70 gange 11.00 Each 94 Gange 108.00 Each 94 Gange 108.00 Each 94 Gange 11.00 No 94 Gange 11.00 No 95 Gende Capabit, Jock Sheet Intervention of the Early Bar, glands, Surgend and directed by the Enginee Internate (Breakers will be Paid) Stephyling, Installation and commissioning of MCCB 95 Supplying, Installation and commissioning of MCCB 24/91.10.10 Cft 95 Supplying, Installation and commissioning of MCCB 24/91.10.10 Cft 95 Supplying, Installation and commissioning of MCCB 24/97.2.1 05.00 Cft 108.00-630 Amp(36 KA) 24/87.a. 2.00 Each 1109 15-100 Amp (10 KA, 15KA) 24/87.a. 2.00 Each 1109 15-100 Amp (10 KA, 15KA) 24/87.a. 9.00 Each 1109 15-100 Amp (10 KA, 15KA) 24/87.a. No Each 11105 15-1	
bG Gange 06 GangeEach 24.00Each EachTwo wy Gange Switch small 04 Gange33 Gange 04 Gange108.00Each6P/F floor mounted Electric Panel board of required depth and size, fabricated with 14SWG M.S sheet (Indoor/Outdoor Type), derusting, zinc Phosphated, finish with electro statile power coaling in approved colour i/c the bars, outriced scaling in approved and discered by the Engineer Incharge (Breakers will be Paid Bearately).3.00 FI deep 2500-3200A)24/91.jb,iv105.00Cft7Supplying, Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A. / SCHNEIDER GERMANY TERASKULAPANVISIEMENABB SWITZERLAND (with fixed Thermal-Magnetic Trip) in preliad DBs and Panels iv the coot of screw, necessary wire complete in all respect as approved and directed by the Engineer Incharge. There Pole24/87.a. x 9.002.00Eachii300-630 Amp(36 KA) iii)24/87.a. x 9.002.00Eachiii125-250 Amp(25KA)24/87.a. x 9.002.00Eachiii125-250 Amp(25KA)24/87.a. x 9.002.00Eachiiii)15-100 Amp (10 KA,15KA)24/87.a. x 9.002.000Each8P/F wall mounted DB (Distribution Board) made with 16SWG Sheet coated Paint, i/t the cost of screek, Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge. Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge Dreakers will be Paid Separately).(a) 6" deep75~100A24/80-a.iiZ5.00Cft <td>57.00 Each</td>	57.00 Each
Two way Gange Switch small 03 Gange 04 Gange Image: Comparison of Comp	
03 Gange 108.00 Each 04 Gange 108.00 11.00 6 P/F floor mounted Electric Panel board of required depth and size, Eabricarted with 145WG M.S sheet (indoor/Outdoor Type), deusting, zine Phosphated, finish with electro static powder coating in approved colour if ic the cost of Lock, Indication fights, thimbles, Copper Comb, Wiring, Netural & Earth Bar, glands, Current Transformers of specified capacity. Door Earthing, Brass glands, bus bars, controles complete in all respects as approved and directed by the Engineer Incharge (Breakers will be Paid Separately). 30.0 Ft deep 2500-3200A) 24/91.i,b,iv 105.00 Cft 7 Supplying .Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRANDRY / TERASKI JAPAN/SIEMEN/ABB SW/TZER/AND (with fixed Thermal-Magnettic Trip) in prelial DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge. There Pole 24/87.a.t 2.00 Each ii 300-630 Amp(36 KA) 24/87.a.t 2.00 Each iiii) 15-100 Amp (10 KA, 15KA) 24/87.a.t 2.00 Each 8 P/F wall mounted DB (Distribution Board) made with 165WCG Sheet (Recessded/Surface mounted Type), Powder coated Paint, i/c the cost of Lock, Indication lights, Thimble, Copper Comb, Wiring, Netural & Earth Bar, Door Earthing, Digital Voltmeter, Digital Ammeter, Volt Selector Switch, Ammeter selector Switch, Current Transformers and Controles Complete in all respect as approved and directed by the Engineer incharge (Br	
04 Gange 11.00 Each 6 P/F floor mounted Electric Panel board of required depth and size, fabricarted with 145WG MS sheet (Indoor/topor Type), depondent, linish with electro static powder coating in approved color i/ ic the cost of Lock, Indication lights, thimbles, Copper Comb, Wiring, Netural & Earth Bar, glands, Current Transformers of specified capacity, Door Earthing, Brass glands, bus bars, controles complete in all respects as approved and directed by the Engineer Incharge (Breakers will be Paid Separately).300 Ft deep 2500-3200A) 24/91.j.b.iv 105.00 Cft 7 Supplying, Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A./ SCHNEIDER (GERMANY TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip) in prelaid DBs and Panels i/ the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge. There Pole 24/87.a. x 2.00 Each ii 125-250 Amp(25KA) 24/87.a. x 2.00 Each 8 P/F wall mounted DB (Distribution Board) made with 16SWG Sheet (Recessed / Surface mounted Type), Powder coated Paint, i/c the cost of Lock, Indication lights, Thimble, Copper Comb, Wiring, Netural & Earth Bar, Door Earthing, Digital Voltmeter, Digital Ammeter, volt Selector Switch, Qurrent Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately).(a) 6" deep75-100A 24/80-a.il 25.00 Cft	vitch small
6 P/F floor mounted Electric Panel board of required depth and size, fabricarted with 145WG M.S sheet (Indoor/Outdoor Type), densiting, 2010 Phosphated, finish with electro static powder color iv ic the cost of Lock, Indication lights, thimbles, Copper Comb, Wiring, Netural & Earth Bay regineds, Current Transformers of specified capacity. Door Earthing, Brass glands, bus bars, controles complete in all respects as approved and directed by the Engineer Incharge (Breakers will be Paid Separately). 300 Ft deep 2500-3200A) 24/91.i,b,iv 105.00 Cft 7 Supplying .Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A./ SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip) in pretaid DBs and Panels i/c the cost of screws, necessary wire complete in all respects as approved and directed by the Engineer Incharge. There Pole 24/87.a.x. vi 2.00 Each ii 125-250 Amp(25KA) 24/87.a. xi 2.00 Each 300-630 Amp(10 KA, 15KA) 24/87.a. ii 20.00 Each 8 P/F wall mounted DB (Distribution Board) made with 16SWC9 Sheet (Recesseded/Surface mounted Type), Powder coated Paint, i/c the cost of Lock, Indication lights, Thimble, Copper Comb, Wiring, Netural & Earth Bar, Door Earthing, Digital Voltmeter, Digital Ammeter, Volt Selector Switch, Ammeter selector switch, Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately).(a) 6" deep75-100A 24/80-a.ii 25.00 Cft	108.00 Each
6 P/F floor mounted Electric Panel loard of required depth and size, fabricarted with 14SWG M.S sheet (indoo?/Udoor Type), derusting, zinc Phosphated, finish with electro static powder coating in approved colour i/c the cost of Lock, Indication lights himbles, Copper Comb, Wring, Netural & Earth Bar, glands, Current Transformers of specified capacity, Door Earthing, Tarsa glands, bus bars.controles complete in all respects as approved and directed by the Engineer Incharge (Breakers will be Paid Separately).3.00 Ft deep 2500-3200A) 24/91.j.b./w 105.00 Cft 7 Supplying .Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER (BERMANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip) in prelaid DBs and Panels in the cost of Lock and Japanet Trip) in prelaid DBs and Panels in the cost of Lock, Indication B and Panels in the cost of Lock, Indication	11.00 Each
and size, fabricarted with 14SWG NS sheet (Indoor/Uduotor Type) deusting, zinc Prosphated, finish with electro static powder coating in approved colour liC the cost of Lock, Indication lights, flumibles, Copper Comb, Wiring, Neturial & Earth Barr, glands, Current Transformers of specified capacity, Door Earthing, Brass glands, bus bars, controles complete in all respects as approved and directed by the Engineer Incharge (Breakers will be Paid Separately).3:00 Ft deep 2500-3200A) 24/91.1,b,iv 105.00 Cft 7 Supplying, Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ CF U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with Key Thremal-Magnetic Trip) in prelial DBs and Panels ic the cost of screws, necessary wire complete in all respects as approved and directed by the Engineer Incharge. There Pole 24/87.a.x vi 2.00 Each ii 300-630 Amp(36 KA) 24/87.a.x vi 9.00 Each iii) 15-100 Amp (10 KA, 15KA) 24/87.a.ii 9.00 Each 8 P/F wall mounted DB (Distribution Board) made with 16SWG Sheet (Recessded/Surface mounted Type), Powder coated Paint, i/c the cost of Lock, Indication lights, Thimble, Copper Comb, Wiring, Netural & Earth Bar, Door Earthing, Digital Voltmeter, Digital Ammeter, Volt Selector Switch, Ammeter selector switch, Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately),(a) 6" deep75~100A 24/80-a.ii 25.00 Cft	No
indoor/Outdoor Type), derusting, zinc Phosphated, finish with electro static powder coating in approved colour Vic the cost of Lock, Indication lights, thimbles, Copper Comb, Wiring, Netural & Earth Bar, glands, Current Transformers of specified capacity, Door Earthing, Brass glands, bus bars, controles complete in all respects as approved and directed by the Engineer Incharge (Breakers will be Paid Separately).3.00 Ft deep 2500-3200A) 24/91.i,b,iv 105.00 Cft 7 Supplying, Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRANDY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip) in preliad DBs and Panets is ic the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge. There Pole 24/87.a.x 2.00 Each ii 300-630 Amp(36 KA) 24/87.a.x 2.00 Each iii) 15-100 Amp (10 KA, 15KA) 24/87.a.ii 9.00 Each 8 P/F wall mounted DB (Distribution Board) made with 16SWG Sheet (Recessded/Surface mounted Type), Powder coated Paint, <i>ic</i> the cost of Lock, Indication lights, Thimble, Copper Comb, Wiring, Netural & Earth Bar, Door Earthing, Digital Votimeter, Digital Ammeter, Volt Selector Switch, Ammeter selector switch, Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately).(a) 6" deep75~100A 24/90-a.ii 25.00 Cft	
with electro static powder coafing in approved colour i/c the cost of Lock, Indication lights, thimbles, Copper Comb, Wiring, Netural & Earth Bar, glands, Current Transformers of specified capacity. Door Earthing, Brass glands, bus bars, controles complete in all respects as approved and directed by the Engineer Incharge (Breakers will be Paid Separately).3.00 FI deep 2500-3200A)24/91.i,b,iv105.00Cft7Supplying, Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respects as approved and directed by the Engineer Incharge. There Pole24/87.a.x i2.00Eachii125-250 Amp(25KA)24/87.a.x vi9.00Each8P/F wall mounted DB (Distribution Board) made with 16SWG Sheet (Recessded/Surface mounted Type), Powder coated Paint, i/c the cost of Lock, Indication lights, Thimble, Copper Comb, Wiring, Netural & Earth Bar, Door Earthing, Digital Voltmeter, Digital Ammeter, Volt Selector Switch, Ammeter selector switch, Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid 24/87.a.ii25.00Cft	
Wing, Netural & Earth Bar, glands, Current Transformers of specified capacity. Door Earthing, Brass glands, bus bars, controles complete in all respects as approved and directed by the Engineer Incharge (Breakers will be Paid Separately).3.00 Ft deep 2500-3200A) 24/91.i,b,iv 105.00 Cft 7 Supplying, Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE? Cel US A / SCHNEIDER GERMARY / TERASAKI JAPANI/SIEMENI/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip) in prelaid DBs and Panels ic the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge. There Pole 24/87.a.x 24/87.a.x vi 2.00 Each ii 125-250 Amp(25KA) 24/87.a.x vi 9.00 Each at 125-250 Amp(25KA) 24/87.a.ii 20.00 Each iii) 15-100 Amp (10 KA, 15KA) 24/87.a.ii 20.00 Each 8 P/F wall mounted DB (Distribution Board) made with 16SWG Sheet (Recessded/Surface mounted Type), Powder coated Paint, <i>i/c</i> the cost of Lock, Indication lights, Thimble, Copper Comb, Wring, Netural & Earth Bar, Door Earthing, Digital Voltmeter,Digital Ammeter,Volt Selector Switch, Ammeter selector switch, Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately).(a) 6" deep75-100A 24/90-a.ii 25.00 Cft	
of specified capacity. Door Earthing, Brass glands.bus bas.controles complete in all respects as approved and directed by the Engineer incharge (Breakers will be Paid Separately).3.00 Ft deep 2500-3200A)24/91.i,b,iv105.00 CftCft7Supplying .Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A./ SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip) in prelial DBs and Panels U: the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge. There Pole24/87.a. 24/87.a. vi2.00Eachii125-250 Amp(25KA)24/87.a. Vi2.000Eachiii)15-100 Amp (10 KA, 15KA)24/87.a. Vi9.00Each8P/F wall mounted DB (Distribution Board) made with 16SWG Sheet (Recessded/Surface mounted Type), Powder coated Paint, i/c the cost of Lock, Indication lights. Thimble, Copper Comb, Wiring, Netural & Earth Bar, Door Earthing, Digital Voltmeter,Digital Ammeter,Volt Selector Switch, Ammeter selector switch, Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately).(a) 6" deep75-100A24/90-a.ii25.00Cft	
aris_controles_complete in all respects as approved and directed by the Engineer Incharge (Breakers will be Paid Separately).3.00 Ft deep 2500-3200A) 24/91.i,b,iv 105.00 Cft 7 SupplyingInstallation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respects as approved and directed by the Engineer Incharge. There Pole 24/87.a.x 2.00 Each ii 300-630 Amp(36 KA) 24/87.a.x 2.00 Each iii) 15-100 Amp (10 KA, 15KA) 24/87.a.x 2.00 Each 8 P/F wall mounted DB (Distribution Board) made with 16SWG Sheet (Recessded/Surface mounted Type), Powder coated Paint, <i>i/c</i> the cost of Lock, Indication lights, Thimble, Copper Comb, Wiring, Netural & Earth Bar, Door Earthing, Digital Voltmeter, Digital Ammeter, Volt Selector Switch, Ammeter selector switch, Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately).(a) 6° deep75~100A 24/90-a.ii 25.00 Cft	
directed by the Engineer Incharge (Breakers will be Paid Separately).3.00 Ft deep 2500-3200A) 24/91.i,b,iv 105.00 Cft 7 Supplying, Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERNANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermai-Magnetic Trip) in prelaid DBs and Panels (Ic the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge. There Pole 24/87.a.x 2.00 Each ii 125-250 Amp(25KA) 24/87.a.x 2.00 Each iii) 15-100 Amp (10 KA, 15KA) 24/87.a.ii 20.00 Each 8 P/F wall mounted DB (Distribution Board) made with 16SWG Sheet (Recessded/Surface mounted Type), Powder coated Paint, <i>ic</i> the cost of Lock, Indication lights, Thimble, Copper Comb, Wiring, Netural & Earth Bar, Door Earthing, Digital Voltmeter, Digital Ammeter, Volt Selector Switch, Ammeter selector switch, Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately).(a) 6" deep75~100A 24/90-a.ii 25.00 Cft	
7Supplying Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S. A. / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge. There Pole105.00 CftCftii300-630 Amp(36 KA) iii)24/87.a.x 2.002.00Eachiii)15-100 Amp (10 KA, 15KA)24/87.a. ii20.00Each8P/F wall mounted DB (Distribution Board) made with 16SWG Sheet (Recessded/Surface mounted Type), Powder coated Paint, i/c the cost of Lock, Indication Ights, Thimble, Copper Comb, Wiring, Netural & Earth Bar, Door Earthing, Digital Voltmeter, Digital Ammeter, Volt Selector Switch, Ammeter selector switch, Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately).(a) 6" deep75~100A24/90-a.ii25.00Cft	
7Supplying ,Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge. There PoleCfti300-630 Amp(36 KA) ii24/87.a.x2.00Eachii125-250 Amp(25KA) vire complete in all respect as approved and directed by the Engineer Incharge. There Pole24/87.a.x2.00Eachiii)15-100 Amp (10 KA, 15KA)24/87.a.ii20.00Each8P/F wall mounted DB (Distribution Board) made with 16SWG Sheet (Recessded/Surface mounted Type), Powder coated Paint, i/c the cost of Lock, Indication lights, Thimble, Copper Comb, Wiring, Netural & Earth Bar, Door Earthing, Digital Voltmeter, Digital Ammeter, Volt Selector Switch, Ammeter selector switch, Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately).(a) 6" deep75~100A24/90-a.ii25.00Cft	
7Supplying ,Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge. There PoleCfti300-630 Amp(36 KA) ii24/87.a.x2.00Eachii125-250 Amp(25KA) vire complete in all respect as approved and directed by the Engineer Incharge. There Pole24/87.a.x2.00Eachiii)15-100 Amp (10 KA, 15KA)24/87.a.ii20.00Each8P/F wall mounted DB (Distribution Board) made with 16SWG Sheet (Recessded/Surface mounted Type), Powder coated Paint, i/c the cost of Lock, Indication lights, Thimble, Copper Comb, Wiring, Netural & Earth Bar, Door Earthing, Digital Voltmeter, Digital Ammeter, Volt Selector Switch, Ammeter selector switch, Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately).(a) 6" deep75~100A24/90-a.ii25.00Cft	
7 Supplying Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ CE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge. There Pole 24/87.a. 2.00 Each ii 300-630 Amp(36 KA) 24/87.a. vi 9.00 Each iii) 125-250 Amp(25KA) 24/87.a. vi 9.00 Each iii) 15-100 Amp (10 KA, 15KA) 24/87.a. vi 9.00 Each 8 P/F wall mounted DB (Distribution Board) made with 16SWG Sheet (Recessded/Surface mounted Type), Powder coated Paint, i/c the cost of Lock, Indication lights, Thimble, Copper Comb, Wiring, Netural & Earth Bar, Door Earthing, Digital Voltmeter, Digital Ammeter, Volt Selector Switch, Ammeter selector switch, Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately).(a) 6" deep75~100A 24/90-a.ii 25.00 Cft	
(Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip) in prelaid DBs and Panels //c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge. There Pole 24/87.a.x 2.00 Each ii 125-250 Amp(25KA) 24/87.a.x 2.00 Each iii) 15-100 Amp (10 KA, 15KA) 24/87.a.i 20.00 Each 8 P/F wall mounted DB (Distribution Board) made with 16SWG Sheet (Recessded/Surface mounted Type), Powder coated Paint, i/c the cost of Lock, Indication lights, Thimble, Copper Comb, Wiring, Netural & Earth Bar, Door Earthing, Digital Voltmeter, Digital Ammeter, Volt Selector Switch, Ammeter selector switch, Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately).(a) 6" deep75~100A 24/90-a.ii 25.00 Cft	
LEGRAND FRANCE/ GE U S.Å / SCHNEIDER GERMANY / TERASAKI JAPAN/SIENEINABB SWITZERLAND (with fixed Thermal-Magnetic Trip) in prelaid DBs and Panels I/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge. There Pole24/87.a.x2.00Eachi300-630 Amp(36 KA) 125-250 Amp(25KA)24/87.a.x2.00Eachiii)15-100 Amp (10 KA, 15KA)24/87.a. vi9.00Each8P/F wall mounted DB (Distribution Board) made with 16SWG Sheet (Recessded/Surface mounted Type), Powder coated Paint, i/c the cost of Lock, Indication lights, Thimble, Copper Comb, Wiring, Netural & Earth Bar, Door Earthing, Digital Voltmeter, Digital Ammeter, Volt Selector Switch, Ammeter selector switch, Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately).(a) 6" deep75~100A24/90-a.ii25.00Cft	•
SWITZERLAND (with fixed Thermal-Magnetic Trip) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge. There Pole24/87.a. x2.00Eachi300-630 Amp(36 KA) 125-250 Amp(25KA)24/87.a. x2.00Eachiii)125-250 Amp(25KA)24/87.a. x9.00Eachiiii)15-100 Amp (10 KA, 15KA)24/87.a. ii20.00Each8P/F wall mounted DB (Distribution Board) made with 16SWG Sheet (Recessded/Surface mounted Type), Powder coated Paint, i/c the cost of Lock, Indication lights, Thimble, Copper Comb, Wiring, Netural & Earth Bar, Door Earthing, Digital Voltmeter,Digital Ammeter,Volt Selector Switch, Ammeter selector switch, Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately).(a) 6" deep75~100A24/90-a.ii25.00Cft	
prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge. There Pole24/87.a.x 24/87.a.x 200Eachi300-630 Amp(36 KA) 125-250 Amp(25KA)24/87.a.x 24/87.a. vi9.00Eachiii)15-100 Amp (10 KA, 15KA)24/87.a.ii20.00 24/87.a.iiEach8P/F wall mounted DB (Distribution Board) made with 16SWG Sheet 	SAKI JAPAN/SIEMEN/ABB
 wire complete in all respect as approved and directed by the Engineer Incharge. There Pole 300-630 Amp(36 KA) 125-250 Amp(25KA) 125-250 Amp(25KA) 15-100 Amp (10 KA, 15KA) P/F wall mounted DB (Distribution Board) made with 16SWG Sheet (Recessded/Surface mounted Type), Powder coated Paint, i/c the cost of Lock, Indication lights, Thimble, Copper Comb, Wiring, Netural & Earth Bar, Door Earthing, Digital Voltmeter, Digital Ammeter,Volt Selector Switch, Ammeter selector switch, Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately).(a) 6" deep75~100A 24/90-a.ii 25.00 Cft 	
the Engineer Incharge. There Pole24/87.a.x2.00Eachii300-630 Amp(36 KA)24/87.a.x2.00Eachiii125-250 Amp(25KA)24/87.a.x9.00Eachiii)15-100 Amp (10 KA, 15KA)24/87.a.ii20.00Each8P/F wall mounted DB (Distribution Board) made with 16SWG Sheet (Recessded/Surface mounted Type), Powder coated Paint, i/c the cost of Lock, Indication lights, Thimble, Copper Comb, Wiring, Netural & Earth Bar, Door Earthing, Digital Voltmeter, Digital Ammeter, Volt Selector Switch, Ammeter selector switch, Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately). (a) 6" deep75~100A24/90-a.ii25.00 CftCft	
iii125-250 Amp(25KA)24/87.a.x 24/87.a. vi2.00Eachiiii)15-100 Amp (10 KA, 15KA)24/87.a.ii9.00Each8P/F wall mounted DB (Distribution Board) made with 16SWG Sheet (Recessded/Surface mounted Type), Powder coated Paint, i/c the cost of Lock, Indication lights, Thimble, Copper Comb, Wiring, Netural & Earth Bar, Door Earthing, Digital Voltmeter, Digital Ammeter, Volt Selector Switch, Ammeter selector switch, Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately).(a) 6" deep75~100A24/90-a.ii25.00 CftCft	
iii125-250 Amp(25KA)24/87.a.x 24/87.a. vi2.00Eachiiii)15-100 Amp (10 KA, 15KA)24/87.a.ii9.00Each8P/F wall mounted DB (Distribution Board) made with 16SWG Sheet (Recessded/Surface mounted Type), Powder coated Paint, i/c the cost of Lock, Indication lights, Thimble, Copper Comb, Wiring, Netural & Earth Bar, Door Earthing, Digital Voltmeter, Digital Ammeter, Volt Selector Switch, Ammeter selector switch, Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately).(a) 6" deep75~100A24/90-a.ii25.00 CftCft	
iii 125-250 Amp(25KA) 24/87.a. iii) 15-100 Amp (10 KA,15KA) 24/87.a.ii 20.00 Each 8 P/F wall mounted DB (Distribution Board) made with 16SWG Sheet (Recessded/Surface mounted Type), Powder coated Paint, i/c the cost of Lock, Indication lights, Thimble, Copper Comb, Wiring, Netural & Earth Bar, Door Earthing, Digital Voltmeter,Digital Ammeter,Volt Selector Switch, Ammeter selector switch, Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately).(a) 6" deep75~100A 24/90-a.ii 25.00 Cft	
vi9.00Eachiii)15-100 Amp (10 KA, 15KA)24/87.a.ii20.00Each8P/F wall mounted DB (Distribution Board) made with 16SWG Sheet (Recessded/Surface mounted Type), Powder coated Paint, i/c the cost of Lock, Indication lights, Thimble, Copper Comb, Wiring, Netural & Earth Bar, Door Earthing, Digital Voltmeter,Digital Ammeter,Volt Selector Switch, Ammeter selector switch, Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately).(a) 6" deep75~100A24/90-a.ii25.00Cft	
 iii) 15-100 Amp (10 KA, 15KA) 24/87.a.ii 20.00 No P/F wall mounted DB (Distribution Board) made with 16SWG Sheet (Recessded/Surface mounted Type), Powder coated Paint, <i>i/c</i> the cost of Lock, Indication lights, Thimble, Copper Comb, Wiring, Netural & Earth Bar, Door Earthing, Digital Voltmeter, Digital Ammeter, Volt Selector Switch, Ammeter selector switch, Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately).(a) 6" deep75~100A 24/90-a.ii 25.00 Cft 	
8P/F wall mounted DB (Distribution Board) made with 16SWG Sheet (Recessded/Surface mounted Type), Powder coated Paint, <i>i/c</i> the cost of Lock, Indication lights, Thimble, Copper Comb, Wiring, Netural & Earth Bar, Door Earthing, Digital Voltmeter,Digital Ammeter, Volt Selector Switch, Ammeter selector switch, Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately).(a) 6" deep75~100A24/90-a.ii25.00Cft	
8P/F wall mounted DB (Distribution Board) made with 16SWG Sheet (Recessded/Surface mounted Type), Powder coated Paint, i/c the cost of Lock, Indication lights, Thimble, Copper Comb, Wiring, Netural & Earth Bar, Door Earthing, Digital Voltmeter,Digital Ammeter, Volt Selector Switch, Ammeter selector switch, Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately).(a) 6" deep75~100A24/90-a.ii25.00 CftCft	,
 P/F wall mounted DB (Distribution Board) made with 16SWG Sheet (Recessded/Surface mounted Type), Powder coated Paint, i/c the cost of Lock, Indication lights, Thimble, Copper Comb, Wiring, Netural & Earth Bar, Door Earthing, Digital Voltmeter,Digital Ammeter,Volt Selector Switch, Ammeter selector switch, Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately).(a) 6" deep75~100A 24/90-a.ii 25.00 Cft 	
made with 16SWG Sheet (Recessded/Surface mounted Type), Powder coated Paint, i/c the cost of Lock, Indication lights, Thimble, Copper Comb, Wiring, Netural & Earth Bar, Door Earthing, Digital Voltmeter, Digital Ammeter, Volt Selector Switch, Ammeter selector switch, Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately).(a) 6" deep75~100A 24/90-a.ii 25.00 Cft	
coated Paint, i/c the cost of Lock, Indication lights, Thimble, Copper Comb, Wiring, Netural & Earth Bar, Door Earthing, Digital Voltmeter,Digital Ammeter,Volt Selector Switch,Ammeter selector switch,Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately).(a) 6" deep75~100A 24/90-a.ii 25.00 Cft	NG Sheet
lights, Thimble, Copper Comb, Wiring, Netural & Earth Bar, Door Earthing, Digital Voltmeter, Digital Ammeter, Volt Selector Switch, Ammeter selector switch, Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately).(a) 6" deep75~100A 24/90-a.ii 25.00 Cft	face mounted Type), Powder
& Earth Bar, Door Earthing, Digital Voltmeter,Digital Ammeter,Volt Selector Switch,Ammeter selector switch,Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately).(a) 6" deep75~100A 24/90-a.ii 25.00 Cft	the cost of Lock, Indication
Voltmeter,Digital Ammeter,Volt Selector Switch,Ammeter selector switch,Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately).(a) 6" deep75~100A 24/90-a.ii 25.00 Cft	Copper Comb, Wiring, Netural
Switch,Ammeter selector switch,Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately).(a) 6" deep75~100A 24/90-a.ii 25.00 Cft	or Earthing, Digital
Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately).(a) 6" deep75~100A 24/90-a.ii 25.00 Cft	
respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately).(a) 6" deep75~100A 24/90-a.ii 25.00 Cft	
Engineer Incharge (Breakers will be Paid Separately).(a) 6" deep75~100A 24/90-a.ii 25.00 Cft	
Separately).(a) 6" deep75~100A 24/90-a.ii 25.00 Cft	
24/90-a.ii 25.00 Cft Cft	
Cft	
M INDOUDD INSTALLATION AND COMPRESIONING OF	
MCB (Miniature Circuit Breaker) of specified	
rating made of LEGRAND FRANCE/ GE	
U.S.A / SCHNEIDER GERMANY /SIEMEN	
GERMAN/TERASAKI JAPAN/ ABB	
SWITZERLAND in prelaid DBs and Panels i/c the cost of screwes,necessary wire complete	
in all respect as approved and directed by the	
Engineer Incharge.6-40 Amp (6 KA)	approved and directed by the
24/86-a-ii 216.00 Each	
	rge.6-40 Amp (6 KA) 24/86-a-ii 216.00 Each
10 Supply and erection of PVC pipe for recessed	rge.6-40 Amp (6 KA) 24/86-a-ii 216.00 Each No
wiring main andsubmain) purpose, i/c bends,	rge.6-40 Amp (6 KA) 24/86-a-ii 216.00 No Each
specials etc in floor, walls ortrenches:iii)	rge.6-40 Amp (6 KA) 24/86-a-ii 216.00 No Submain) purpose, i/c bends,
	rge.6-40 Amp (6 KA) 24/86-a-ii 216.00 No Submain) purpose, i/c bends,
100 mm i/d 24/6.iii 1312.00 Per Rft	rge.6-40 Amp (6 KA) 24/86-a-ii 216.00 No Each No Each No

r	Estimate Based on MRS Junuary to June, 2023 BWN						
No.	Description	Ref.	Quantity	Rate	Unit	Amount	
11	Supplying,Installation and commissioning of MCCB (MouldedCase Circuit Breaker) of specified rating made of LEGRANDFRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKIJAPAN/ABB SWITZERL(with adjustable Thermal-MagneticTrip) in prelaid DBs and Panels i/c the cost of screws,necessary wire complete in all respect as approved anddirected by the Engineer InchargeTripple Pole With Adjustable Thermal- Magnetic Trip/Electronic Trip (60-100%)630- 1600 Amp(50 KA)						
12	P/F PVC concealed Switch kit Box i/c the cost	24/88-a-x	1.00 No		Each		
	of screwscomplete as approved and directed by the Engineer Incharge i) Small ii) Large	24/104	250.00 150.00 No		Each Each		
	Electric Work (Non-Schedule Items)				Total		
1	Supply & installation of PVC Fan Box with iron bar i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge. (GM, Bita or equivalent)	NS	103.00 No		Each		
2	Supply & installation of Ceiling Fans, 56" sweep (As per "Pakistan Energy Lable" certified manufacturers). i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge	NS	103.00 No		Each		
3	Supply & installation of Metal Body Wall Bracket Fan 24" (99.99% Copper) i/c any accessories (i.e. widing of mounting holes and 4.00nos of rawl bolts ¼" etc) as required at site. Complete in all respect as directed and approved by the Engineer Incharge (SK mega or Equivalent)	NS	8.00		Each		
	Supply & installation of LED 24 W Down Light 6500 K ,2000 Lumen (Surface Mounted, 220V~) i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips Essential or Equivalent)	NS	128.00 Nos		Each		
5	Supply & installation of Strip (patti) with 20W Led tube rod (220V~, 6500K) i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips or Equivalent)	NS	340.00		Each		
6	Supply & installation LED flood light 100 watt Philips quality including casing bracket, hanging arrangement complete in all respects as approved by the Engineer Incharge.	NS	No. 16.00		Each		
7	Supply and Installation of Stainless Steel/Aluminum Exhaust Hood with exhaust fan (170W) and 4 x20W halogen lamp i/c any other accessories required at site. Complete in all respects as approved by Engineer Incharge. (Canon-HD-GL9011 or Equivalent)		No				
		NS	1.00 No		Each		

Estimate Based on MRS Junuary to June, 2023 BWI						23 BWN
No.	Description	Ref.	Quantity	Rate	Unit	Amount
8	Providing and Laying earthing for Electric Machines I/c boring up to moisture level (up to 60' below ground level) 4" i/d including copper strip 14" x 2" x 1/4" (350 x 50 x 6 mm) connecting with 1 Nos.bare copper wire of No.8 SWG to be run in PVC pipe 20mm i/d, 1%" i/d Gl pipe 5' long, Gl tee & plug for watering also includes common salt, Lime (slaked) and charcoal around copper strip i/c connecting with Electric machine. Complete in all respects as approved and as directed by the engineer incharge.					
		NS	2.00 No		Each Total	
	Plumbing Work (Schedule Items)				TOLAI	
1	Providing and fitting glazed earthen ware water closet squatter type (Orissa pattern) combined with foot rest. (Coloured).	19/4ii.	21.00 No		Each	
2	Providing and fitting glazed earthen ware wash hand basin 56x40 cm (22"x16") including bracket set, waste pipe and waste coupling, etc. i. coloured, with pedestal	19/7.i	6.00		Each	
	ii. Under Counter Vanity Basin	19/7.v	20.00 No		Each	
3	Providing and Fixing Crommium plated bib cock 1/2" dia.	19/27.ii	38.00 Nos		Each	
4	Providing and fixing chromium plated pillar- cock, heavy:- ii) (1/2")	19/24.ii	6.00 No.		Each	
5	Providing and fixing chromium plated tee stop cock '15mm (½").	19/28	34.00 No.		Each	
6	Providing and fixing BATHROOM ACCESSORIES (7-piece set) MASTER BRAND - One Cosmetic Shelf, One Towel rod with bracket, One soap dish, One double hook, One towel ring, brush holder, toilet paper holder & looking glass <i>i/c</i> the cost of hardwares etc complete in all respect as approved and directed by the Engineer incharge	19/23.				
	 i) plastic soap dish ii) plastic toilet paper holder iii) plastic towel rail 		12.00 12.00 12.00 No.		Each Each Each	
7	Providing and fitting plastic made low down flushing cistern 13.63 litre (3 gallons) capacity, including bracket set, copper connection, etc. complete. ii) coloured	19/13.ii	25.00		Each	
8	Providing and fixing, chromium plated mixing valve, for wash hand basin, sink or shower, as approved by the engineer in charge		No.			
9	Earthwork excavation in open cutting for sewers and manholes as shown in drawings including shuttering and timbering, dressing to correct section and dimensions according to templates and levels, and removing surface water, in all types of soil except shingle, gravel and rock:-'0 ft. to 7.0 ft. (0 to 2.10 m) depth		26.00		Each	
10	Providing and laying R.C.C. pipe sewers, moulded with cement concrete 1:11/2:3 conforming to ASTM Specification C-76-79,	3/42-i	8848.48 Cft		%0 Cft	
	Class II. Wall B, including carriage of pipe from factory to site of work, lowering in trenches to correct alignment and grade, jointing	04/0			D.C.C.	
i) 11	310 mm (12") i/d Cement plaster 1:3 upto 20' (6.00 m) height:-	21/3 i 11/8.b	1,665.00 Rft		P/Rft	
	b) 11/2" (13 mm) thick		5676.00 Sft		% Sft	

Estimate Based on MRS Junuary to June, 2023 BWN						
No.	Description	Ref.	Quantity	Rate	Unit	Amount
12	Constructing standard gully grating chamber, 3'x2½' '(900x750 mm), with chinaware trap as per PHED Drawing STD/PD No. 3 of 1977, complete in all respects.					
		21/8.	6.00 No		Each	
13	Extra for making and finishing benching floor work in manhole chamber, with 1/8" (3 mm) thick cement finish.	21/9.	150.00 Sft		% Sft	
	Providing, fixing, testing and commissioning of μ-PVC (Unplasticized polyvinyl Chloride) Nikasi /wastepipe Fittings make of dadex /Popular /Beta/ BBJ conformingto code EN- 1401 including thecost of Solvents complete in all respect as approved and directed by the Engineer Incharge.	19/49.				
	P-Trap 4" dia P-Trap 3" dia Multi-Trap 4" dia Multi-Trap 3" dia Vent Cowel 4" dia		69.00 69.00 22.00 22.00 20.00 Nos		Each Each Each Each Each	
	Providing ,fixing testing and commissioning of μ-PVC (Unplasticized polyvinyl Chloride) Nikasi /waste pipe make of dadex /Popular /Beta/BBJ plain/ socket ended conforming to code EN-1401 of specified SDR (Standard Dimension Ratio) including thecost of specials and Solvents complete in all respect as approved and directed by the Engineer Incharge.Type (SDR 32.5/SN-8)	19/47.	1105			
	i)4" (110 mm) ii)3" (85 mm)	19/47.	1905.07 750.00		P/Rft P/Rft	
	Providing, laying, testing and commissioning of POLY PROPYLENE RANDOM COPOLYMER (PPRC) water supply pipe made of (Dadex/Popular/Beta/BBJ) with specified pressurerating PN (PRESSURE NOMINAL) and conforming to DIN 8077-8078 code i/c cost of solvent, specials ,making jharries complete in all respectas approved and directedby Engineer Incharge.(Internal/External Diameters mentioned).	23/47.bi	Rft			
	PN-20 pipe ii)(3/4") 25 mm		523.00		P/Rft	
	iii)(1") 32 mm vi)(2") 63 mm		1211.00 1050.00 Rft		P/Rft P/Rft	
	Providing and fixing CP bath Room Set made of Sonex/ Master /Faisal comprising of 3- NoTee stop cocks ,lever type Basin Mixer,double Bib Cock,open wall shower,Muslim shower,waste coupling and bottle trap etc.complete in all respect as approved and directed by the Engineer					
	incharge. i)Double Bib Cock ii)Open Type Wall Shower iii)Muslim shower iv)Waste Coupling	19/52.	25.00 25.00 25.00 25.00 No		Each Each Each Each	
	Providing and fixing stainless steel sink with drain board, size 120x60 cm (48"x24") including bracket set, waste pipe and waste					
	coupling.	19/8.	6.00 No.		Each	

			Estimate Based or	n MRS Junuary	/ to June, 202	<u>23 BWN</u>
No.	Description	Ref.	Quantity	Rate	Unit	Amount
19	Providing and fitting one piece Europeon Coupled set of Water Closet (WC) and flushing Cistern of PORT Abrand (fullsize) i/c the cost of CP /rubber connection ,thimble,normal seat cover and rawal bolts completein all respects as approved and directed by the Engineer Incharge	19/3.	4.00 No		Each	
	Plumbing Work (Non-Schedule Items)				Total	
	P/F Looking glass imported quality complete in all respect and as approved by the Engineer Incharge.	NS	111.00 Sft		P/ Sft	
2	Providing & fixing floor trap Jali plastic complete in all respect and as approved by the Engineer Incharge.	NS	33.00 No		Each	
3	Providing & fixing floor trap Jali Stainlessteel complete in all respect and as approved by the Engineer Incharge.	NS	37.00 No		Each	
1	IT DATA CABELING SYSTEM Supply and erection of PVC pipe for wiring recessed in wallsincluding inspection boxes, pull boxes, hooks, cuttingjharries,and repairing surface, etc.,complete with all				Total	
	specials. i) 3/4" i/d (20 mm) ii) 1" i/d (25 mm) iii) 1.50" i/d (40 mm) iv) 2" i/d (50 mm)	24/3	525.00 530.00 250.00 260.00 Ft		Per Ft Per Ft Per Ft Per Ft	
	P/F PVC concealed Switch kit Box i/c the cost of screwscomplete as approved and directed by the Engineer Incharge i) Small	24/104	50.00 No		Each	
	ii) Large Supply, Installation and commissioning of wiring with 4-pairdata Cable, 23 AWG UL/EN listed cable * Conforming tofollowing standards: TIA/EIA 568 / ISO/IEC 11801, in prelaidconduit / cable tray from including all accessories, Manufacturer/OEM Authorization, Make: Schneider / i-connectUK/3M Corning USA/ D-Link/ Pollo Australian or equivalentcomplete in all respect as approved and directed byEngineer Incharge.		50.00 No		Each	
	a) UTP (Unshielded Twisted pair) (i) CAT-6 (Min.1G @ 250MHz or higher) (ii) CAT-6A (Min.1G/ 10G @ 500MHz or higher)	24/106	600.00 600.00 M		Per M Per M	
	Supply, Installation and commissioning of Simple type, DualShutter Face Plates having fully populated I/O: Option 1:RJ-11 withRJ45/8P8C I/Os supporting either Cat6 or Cat6a cables asrequired by project Option 2: Two RJ45/8P8C I/Os supportingeither Cat6 or Cat6a cables as required by project.	24/131				
	(i) Single I/O (ii) Double I/O	24/131	100.00 100.00 No	Tota	Each Each	

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

Estimate

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

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

Estimate

	Estimate Based on MRS Junuary to June, 2023 BWN						
No.	Description	Ref.	Quantity	Rate	Unit	Amount	
1	<u>Civil Work (Schedule Items)</u> Jungle clearance and removing within 100 ft. (30 m).light	3/47.a	46714.13 Sft		%Sft		
2	Excavation in foundation of building, bridges andother structures, including dagbelling, dressing,refilling around structure with excavated earth,watering and rammiing lead 'upto one chain (30m) and lift upto 5 ft. (1.5 m) By Excavator. In ordinary soil.	3/21-B-ii	58486.15		%oCft		
3	Spraying termite proofing by using liquid FMC / Biflex/ Terminex Exin /Ms Hextaror equivalent @ specified suspension concente rate (SC),Mixing Ability-HEXTAR with Ratio (1:250)=540 Sft or equivalent approved liquid applying with shower and certificate will be provided by the contract or for 10-years complete in all respect.as approved by the Engineer Incharge.	0.2. 0	Cft				
		26/43	62868.25 Sft		Per Sft		
4	Supplying and laying polythene sheet over D.P.C. under floors and on roofs, etc 500 gauge (.005" thick)	26/37-ii	66260.84 Sft		Per Sft		
5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): i) Ratio 1:4:8 ii)'Ratio (1:2:4)	6/5-i 6/5.f	12668.64 5728.86		% Cft % Cft		
6	Fabrication of M.S. Reinforcement for cement concrete including bending, laying in position, making joints and fastening i/c cast of binding wire and labour charges for bending of steel reinforcement also includes removal of rust from bars - Deformed Bar Grade 60	6/12-c	Cft 135923.78		% Kg		
7	Providing and laying reinforced cement concrete (includingprestressed concrete), using Ordinary Portland Cement / Sulphateresisting cement / Slag cement as may be required; coarse sand andscreened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):- Reinforced cement concrete in slab of rafts / strip foundation, base slab of column and retaining walls; etc and other structural members other than those mentioned in 5(a) (i) above not requiring form work (i.e. horizontal shuttering) complete in all respects:-		Kg				
	(2) Type B (nominal mix 1: 1½: 3)	6/6-aiii- 2b	19878.00 Cft		Per Cft		

	Estimate Based on MRS Junuary to June, 2023 BWN							
No.	Description	Ref.	Quantity	Rate	Unit	Amount		
8	Providing and laying reinforced cement concrete (includingprestressed concrete), using Ordinary Portland Cement / Sulphateresisting cement / Slag cement as may be required; coarse sand andscreened graded and washed aggregate, in required shape and design,including forms, moulds, shuttering, lifting, compacting,curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):- Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects.							
i)	Ground Floor Ratio (1:1½:3)	6/6-ai-2c	26817.88		Per Cft			
ii) 9	First Floor Ratio (1:1½:3) Two coats of bitumen laid hot using 34 lbs.	6/6-ai-2c+d	1617.44 Cft		Per Cft			
	per %Sft, or 1.72 Kg per square metre over roof and blinded with sand at one Cft. per %Sft. (0.003 cu.m per sq.m)	9/12	37330.70		%Sft			
10	Providing and fixing theremopore (foamed polythene) sheet in horizontal and vertical expansion joints:		Sft					
11	a) 1" (25 mm) thick thermopore sheet Filling, watering and ramming earth under	6/35-a	1852.00 Sft		Per Sft			
	floors:- i) with surplus earth from foundation, etc.	3/15i.	19495.38 Cft		%oCft			
12	Filling, watering and ramming earth under floors:- ii) with new earth excavated from outside,lead upto one chain (30 m). Transportation of earth all types when the total distance,including the lead covered in the item of work,is more than 1000 ft.(300 m) lead upto 5 mile.	3/15- ii+17a,b, c	195000.00		%oCft			
13	Pacca brick work in foundation and plinth in:- i) cement, sand mortar:- Ratio 1:4	7/4-i	Cft 16556.36 Cft		% Cft			
14	Providing and laying damp proof course of cement concrete 1:2:4 (using cement, sand and shingle), including bitumen coating :- (a) with one coat bitumen and one coat polythene sheet 500 gauge. ii) 1-1/2" thick (40 mm)	6/36ai	2518.85		%Sft			
15	Pacca brick work in ground floor:-		Sft					
i) ii)	i) cement, sand mortar:- Ratio 1:4 Ground Floor First Floor	7/5-i 7/5-i+6i	26024.82 6543.94 Cft		% Cft % Cft			
16	First class brick walling laid in 1:3 cement sand mortar, reinforced with 1" (25 mm) wide 18 gauge hoop iron:-		On					
i)	ii) 4½" (113 mm) thick walling with hoop iron, bonding 12" (300 mm) apart. Ground Floor	7/21-ii	6932.50 Sft		% Sft			
17	Supplying and filling sand under floor; or plugging in wells.	7/30.	12373.35 Cft		% Cft			
18	Dry rammed brick or stone ballast, 1½" to 2"(40 mm to 50 mm) gauge.	6/2	12905.11 Cft		% Cft			
19	Cement concrete brick or stone ballast 1½ " to 2" (40 mm to 50 mm) gauge, in foundation and plinth:- (1:4:8)	6/3.b	3375.35 Cft		% Cft			

	Estimate Based on MRS Junuary to June, 2023 BWN						
No.	Description	Ref.	Quantity	Rate	Unit	Amount	
20	Cement plaster 3/8" (10 mm) thick under soffit of R.C.C. roof slabs only, upto 20' height. Ratio 1:3						
	Ground Floor up to 20' height First Floor up to 30' height	11/10-b 11/10- b+11/28	37619.67 2286.81		% Sft % Sft		
21 i) ii)	Cement plaster 1:4 upto 20' (6.00 m) height: Upto 20' heights a) '½" (13 mm) thick b) ¾" (20 mm) thick	11/9-b 11/9-с	Sft 106932.90 40883.01 Sft		% Sft % Sft		
22	Providing & Laying Insulation material of Extruded Polystyrene XPS in Rigid Insulation /Foam Board on roof or wall ,Density 32-38 Kg/M, Compressive Strenght 250-400 kpa,R- Value 5 per inch thickness & water obsorbtion (1% by volume, cell structure clored cell) i/c cutting & placing in position complete in all respect . b)1.5" Thick	9/45.b	29846.72		%Sft		
23	Single layer of tiles 9"x4½"x1½" (225x113x40 mm) laid over 4"(100 mm) earth and 1" (25 mm) mud plaster without Bhoosa, grouted with cement sand 1:3 on top of RCC roof 'slab, provided with 34 lbs. per %Sft. or 1.72 Kg/Sq.mbitumen coating sand blinded.		Sft				
24	Khuras on roof 2'x2'x6" (600 x 600 x 150 mm)	9/5.	29846.72 Sft		%Sft		
		9/15.	27.00 No		Each		
25	Providing and fixing mild steel chowkat of doors, windows, C.window, etc. including holdfast, making and threading holes for hinges, etc. complete:- a) M.S. angle iron 1½"x 1½"x ¼" (40x40x6 mm) welded with M.S. flat 2"x ¼" (50 mm x 6 mm)	12/15-a	2765.00		Per Sft		
26	P/F1-1/2"thick solid flush door comprising of 2.5mm thick Deodar/Ash/Oak ply with grooves,compressed over 2.5mm thick commercial ply over 1"thick packing woodin style and rails under proper pressure i/c the cost of nails,tower bolt,handles,glue,sawing charges and lacquar polishing to show the grains of plyproperly,sand papering and 3/8" thick matching wooden lippingas approved and directed by the Engineer Incharge.	12/52.	Sft 1925.00		Per Sft		
27	Providing and fixing marble strip of any shade for dividing the mosaic flooring into panels. 'Size $1\frac{1}{2}$ " x 3/8" (40 x 10 mm)	10/40.a	Sft 2,566.36		Per Rft		
28	Providing and laying topping of cement concrete 1:2:4,including surface finishing and dividing in panels: 1.5"(40 mm) thick	10/15-c	Rft 8,576.97		% Sft		
29	Preparing surface and painting with emulsion paint:- New surface 3-coats	13/31. i+ii+ii	Sft 106932.91 Sft		%Sft		
30	Painting new surface:- Preparing surface and painting of doors and windows any type (including edges):- 3-Coats	13/5-c i+ii+ii	1925.00 Sft		%Sft		
31	Priming coat of chalk under distemper.	11/22.	39906.48 Sft		%Sft		

	Estimate Based on MRS Junuary to June, 2023 BWN							
No.	Description	Ref.	Quantity	Rate	Unit	Amount		
32	Distempering:- a) new surface:- iii) three coats	11/23.a.i ii	39906.48 Sft		%Sft			
33	Providing and fixing 6 in(150 mm). wide curved sheet of required shape fixed on face of the construction joint with G.I.screw,1.5 in (40 mm) long to cover construction joints vertically:-G.I sheet 18 SWG	6/27-ii	1450.00 Rft		P/Rft			
	Providing and applying weather shield paint of approved quality on external surface of building including preparation of surface, application of primer complete in all respect: new surface: 2-Coats	13/33-a- i+ii			0/ Of			
i)	upto 20' height		40883.01 Sft		% Sft			
35	P/F3/4"dia heavy duty sliding bolt of specified material i/c thecost of hardware complete in all respect as approved and directed by the Engineer Incharge. (B)Brass sliding bolt, 10" (250 mm) long	12/61-B- i	172.00 Nos		Each			
36	P/F3/4"dia heavy duty sliding bolt of specified material i/c thecost of hardware complete in all respect as approved and directed by the Engineer Incharge.(A) Iron i) Iron sliding bolt, 10" (250 mm) long ii) Iron sliding bolt, 12" (300 mm) long	12/61-A.i 12/61-Ai.i	91.00 95.00		Each Each			
37	Providing and laying Tuff pavers, having 7000 PSI, crushing strength of approved manufacturer, over 2" to 3"sand cushion i/c grouting with sand in joints i/c finishing to require slope . complete in all respect. (50% Grey / 50% Coloured 60 mm thick	10/41.b	Nos 6306.83		Per Sft			
38	Providing and fitting all types of glazed aluminium windows of anodised bronze colour partly fixed and partly sliding using delux sections of M/s Al-Cop or Pakistan 'Cables having frame size of 100 x 20 mm (4"x ³ / ₄ ") and 'leaf frame sections of 50 x 20 mm (2"x ³ / ₄ "), all of 1.6 mm 'thickness including 5 mm thick imported tinted glass with rubber gasket using approved standard latches, hardware etc., as approved by the Engineer in- charge.	25/52.	Sft 2720.00		Per Sft			
39	Providing and fixing Aluminum Fly screen comprising of Fiber/Aluminum wire guaze (Malasian) fixed in aluminum frame of approved manufacturer brownze Colour/powder coated of size 1-1/2"x1/2" and 1.6 mm thick with rubber gasket i /c cost of Hardwares as approved and directed by the engineer incharge complete in all		Sft					
	respect.	25/53.	1360.00		Per Sft			
40	Providing and fixing G.I. wire gauze 22 SWG, 12x12 'meshes per square inch, (5x5 meshes in cm2) fixed to steel window, complete with		Sft					
	flat iron patti ½"x 1/8" (13 mmx3 mm) and machine made screws.	12/55.	707.04		P/Sft			
41	Glazing with panes (16 oz. to 18 oz.,) including cost		Sft		rioit			
-71	of putty.		65.90 Sft		P/Sft			

Estimate Based on MRS Junuary to June, 2023 BWN							
No.	Description	Ref.	Quantity	Rate	Unit	Amount	
42	Providing and laying superb quality Porcelain glazed tiles flooring of MASTER brand of specified size in approved design,Color and Shade with adhesive/bond over 3/4"thick(1:3)cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respect as approved and directed by the Engineer Incharge.Full body Glazed tiles.400mmx 400 mm	10/42.a.i	26672.69 Sft		Per Sft		
43	Providing and fixing M.S. grill fabricated with MS Square polished Vertical/horizontal Bars of specified size @ 4" c/c ' passed through punched holes in MS Patti of 1-1/4"x1/8" i/c the cost of 1-1/4"x1/8" MS patti for Frame of windows and painting 3 coat complete in all respect as approved and directed by the Engineer Incharge. a) 3/8" Squar Bars						
		25/59.i	2720.00 Sft		Per Sft		
44	Providing and fixing 2" wide M S Chowkats in gel / double rebate made of 16 SWG MS sheet pressed /welded /supported with M.S.flat 1-1/4"x1/8"i/c6" long M.S. Flat 1"x1/8" hold fasts (6-Nos) welded /screwed, punching of lock hole covered with MS Box, coating with anti rust paint including filling with cement sand mortar (1:8) and embedding hold fastin cement concrete (1:2:4), complete in all respect as approved and directed by Engineer Incharge.		Un				
	(i) 10.50 " wide	12/17ii	548.00 Sft		Per Sft		
45	Providing and laying superb quality Ceramic tile floors of Master brand of specified size, Glossy/Matt/Texture of approved Color and Shade as perapproved design with adhesive bond, over 3/4" thick(1;2) cement sand plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects and as approved and directed by the Engineer Incharge.12"x18"/12"x24"/10"x24"						
	/8"x24"/12"x36"	10/24.i	2225.07		P/Sft		
46	Providing and laying superb quality Ceramic tiles dado of Master brand of specified size,Glossy/Matt/Texture skirting / dado of approved Color and Shade with adhesive bond over 1/2"thick (1:2) cemen tplaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects and as approved and directed by the Engineer Incharge.12"x18"/12"x24"/10"x24" /8"x24"/12"x36"		Sft				
		10/25.i	9153.85 Sft		Per Sft		
47	Providing and laying 3/8 inch thick superb class Multani tiles of specified size and design of approved Colorand Shade with adhesive bond ,over1/2" thick (1:2) cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects and as approved and directed by the Engineer		Un				
	Incharge.	.10/44	238.20 Sft		P/Sft		

	Estimate Based on MRS Junuary to June, 2023 BWN					
No.	Description	Ref.	Quantity	Rate	Unit	Amount
48	Providing and laying Prepolished Granite of specified thickness and shade of full width of approved quality laid with adhesive bond over 3/4" thick (1:2) cement sand mortor bed ,complete in all respect as approved and directed by the Engineer Incharge.3/4" thick	10/50.i	2398.84		Per Sft	
49	Extra for Bevelling charges of marble edge in approved design complete in all respects i/c the cost of Carbor and amdisc as approved and directed by the Engineer Incharge.	10/48.	Sft 980.00		Per Rft	
50	Extra cost for making hole in Marble slab for fixtures, Sink, burners, basin Vanities i/c cost of bevelling of internal edge as approved and directed by the Engineer Incharge.	10/48.	980.00 Rft		rei Kit	
51	Providing embeding 10" (250 mm) wide 1/4" (6 mm) thick rubber water stopper in expansion joints of R.C.C. roof	10/49.	24.00 Nos		Each	
52	slab complete in all respects. Providing and fixing 2'-9" high stair railing	6/31.	350.00 P/Rft		Per Rft	
	comprising of non magnetic (304) Stain less steel 2" dia pipe railing of 18 SWG welded with vertical posts of 2" dia stainless steel round/ Squar pipe @ 2-ft c/c fixed on alternate steps with 3" long steel screws and brass rawal plugs, 3-Nos diagonal stainless steel pipes of 1/2" dia passes through goties fixed on vertical post, i/c stainles steel welding, fixing & polishing complete in all respects as approved and directed by the Engineer Incharge.					
	incharge.	25/64	516.64 Rft		P/Rft	
53	Providing and laying superb quality Porcelain glazed tiles of Master brand, skirting/dado of specified size, Color and Shade with adhesive/bond over 1/2"thick (1:2) cement plaster i/c the cost of and sealer for finishing the joints, cutting grinding complete in all respect as approved and directed by the Engineer Incharge.a) Full body Glazed Tile					
54	400mmx 400 mm Providing and applying wall putty of 2 mm thickness over plastered surface (new	10/43.a.i	3377.80 Sft		Per Sft	
	surface) to prepare the surface even and smooth complete in all respect.	13/46	106932.91 Sft		% Sft	
55	Providing and fixing 1st class solid wood wrought joinery in panelled or panelled and glazed doors and windows of specified thickness with 1" thick solid wood panels with step and 1-1/2"x2-1/2" beadings all around the panels i/c the cost of Tower bolt and handles complete in all respect (Excluding the cost of sliding bolt,lock and chowkats (frame), etc.) as approved and directed by the Engineer InchargeOak/Ash wood Door(iii) 1-1/2" thick (40 mm)					
		12/7 b.iii	72.00 Sft		Per Sft	

	Estimate Based on MRS Junuary to June, 2023 BWN					
No.	Description	Ref.	Quantity	Rate	Unit	Amount
56	Providing and fixing Vin board cabinet 3/4" thick with drawers 3"deep in 'Kitchen including termite proofing and polishing with synthetic enamel as specified, with handles hinges,screws etc., complete in all respects	12/59				
	 i) 2' deep, without back ii) 2' deep, with back 		46.20 67.90 Sft		Per Sft Per Sft Total	
	Civil Work (Non-Schedule Items)				Total	
1	Making and errecting in position MS Grill Door with M.S box pipe 1.5"x1.5" main frame and M.S Box pipe 1/2"x1/2", 18 SWG for grill, complete in all respects and duly painted as approved by the Engineer Incharge.(Fly/Mosquito Proof Grill Doors for Fixing at Gallaries openings)	NS	1190.25 Sft		Per Sft	
2	Providing and fixing 3/4" thick laminated Board shutter with 3/4" x 3/4" deodar wood beading wardrobe frame of 3"x1.5" M.S Box pipe 18 SWG including catchers, lock, CP hanger rod with hooks, hinges, french polish on beading complete in all respects including hanger rod etc. as approved by the Engineer Incharge.					
3	Providing & Fixing uPVC door 1.25" thick wooden colour i/c hinges, door handle with	NS	8316.00 Sft		Per Sft	
4	locking arrangement complete in all respects. Providing & Fixing Magnet stopper for doors	NS	857.50 Sft		Per Sft	
	with screws best quality complete in all respects as approved by the Engineer Incharge.	NS	160.00 Nos		Each	
5	Preparing surface & applying siprit polish best quality complete in all respects as approved by the Engineer Incharge.	NS	144.00 Sft Sft		P/Sft	
6	Providing, applying and filling expansion joint with 2"x ³ / ₄ " thick elastomeric sealant of approved manufacture over backing rod complete in all respect according to manufactures recommendations and to the entire satisfaction of the engineer incharge	NS	650.00 Rft		P/Rft	
7	Subsequent carriage of crushed stone aggregate total distance from Sargodha to Bahawalnagar IUB Campus at site of work average 278 KM		74947.48 Cft		% Cft	
1	Electric Work (Schedule Items) 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.				Total	
	i) 20 mm i/d ii) 25 mm i/d iii) 1.5" i/d (40 mm) iv)2" i/d (50 mm)	24/3-ii 24/3-iii 24/3-v 24/3-vi	8514.91 13277.60 150.00 1381.00 Rft		Per Rft Per Rft Per Rft Per Rft	

	Estimate Based on MRS Junuary to June, 2023 BWN							
No.	Description	Ref.	Quantity	Rate	Unit	Amount		
ii) iii) iv)	Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only). a) 250/440 volts, PVC insulated: 3/0.74 mm (3/0.029") 3/0.91 mm (3/0.036") 7/0.74 mm (7/0.029") 7/0.91 mm (7/0.036") 7/1.12 mm (7/0.044") 7/1.63 mm (7/0.064") 19/1.32 mm (19/0.052")	24/10-i 24/10-ii 24/10-iii 24/10-iv 24/10-v 24/10-vi 24/10-viii	12668.00 34248.00 20125.00 10553.00 2208.00 6677.00 2460.00 Rft		Per Rft Per Rft Per Rft Per Rft Per Rft Per Rft Per Rft			
	cablesfor service connection, in prelaid pipe/G.I.wire/trenches, etc. (rate for cable only):- PVCinsulated, PVC sheathed 4 core 660/1100 voltgrade cable, armoured with G.I. wire 16 SWG.	24/13-d						
	i) 185 mm (37/0.103")	04/40	79.27 Per M		Per M			
4	ii)16 mm (7/0.064") Providing and fixing Copper winded Exhaust fan with louver and shutter made of Pak/Younas/G.F.C. i/c the cost of necessary cable and hardware for connection from ceiling rose complete as approved and directed by Engineer Incharge.	24/13	375.00 Per M		Per M			
i ii	.Plastic body 12 " dia Steel body 18" sweep	24/102.a.ii	15.00 3.00 No		Each Each			
5	P/F PVC double layer Switch kit Faceplate with specified switch holes i/c the cost of switches / sockets / dimmer made of Hi-Life / Bush / Schenider, screws complete as approved and directed by the Engineer Incharge One way Gange Switch	24/103.a						
	Small 03 Gange Three pin Light Plug 10/13 Amp Fan Dimmer Three Pin Power Plug 15-32 Amp		108.00 110.00 103.00 96.00		Each Each Each Each			
	Large 04 Gange 05 Gange 06 Gange Two way Gange Switch small		57.00 24.00 32.00		Each Each Each			
	03 Gange 04 Gange		108.00 11.00 No		Each Each			
6	P/F floor mounted Electric Panel board of required depth and size, fabricarted with 14SWG M.S sheet (Indoor/Outdoor Type),derusting, zinc Phosphated, finish with electro static powder coating in approved colour i/c the cost of Lock, Indication lights,thimbles, Copper Comb, Wiring, Netural & Earth Bar, glands,Current Transformers of specified capacity ,Door Earthing, Brass glands,bus bars,controles complete in all respects as approved and directed by the Engineer Incharge (Breakers will be Paid Separately).3.00 Ft deep 2500~3200A)							
		24/91.i,b,iv.	105.00 Cft		Cft			

	Estimate Based on MRS Junuary to June, 2023 BWN						
No.	Description	Ref.	Quantity	Rate	Unit	Amount	
7	Supplying ,Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge. There Pole						
	300-630 Amp(36 KA)	24/87.a.x	2.00		Each		
i	125-250 Amp(25KA)	24/87.a.vi	9.00		Each		
ii	15-100 Amp (10 KA,15KA)	24/87.a.ii	20.00		Each		
iii) 8	P/F wall mounted DB (Distribution Board) made with 16SWG Sheet (Recessded/Surface mounted Type), Powder coated Paint, i/c the cost of Lock, Indication lights,Thimble, Copper Comb, Wiring, Netural & Earth Bar, Door Earthing, Digital Voltmeter,Digital Ammeter,Volt Selector Switch,Ammeter selector switch,Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately).(a) 6" deep75~100A	24/07.a.ii	25.00 No		Cft		
9	Suppling,Installation and comissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY /SIEMEN GERMAN/TERASAKI JAPAN/ ABB SWITZERLAND in prelaid DBs and Panels i/c the cost of screwes,necessary wire complete in all respect as approved and directed by the Engineer Incharge.6-40 Amp (6 KA)		Cft				
10	Supply and erection of PVC pipe for recessed wiring main andsubmain) purpose, i/c bends, specials etc in floor, walls ortrenches:iii) 100 mm i/d	24/86-a-ii	216.00 No		Each		
11	Supplying,Installation and commissioning of MCCB (MouldedCase Circuit Breaker) of specified rating made of LEGRANDFRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKIJAPAN/ABB SWITZERL(with adjustable Thermal-MagneticTrip) in prelaid DBs and Panels i/c the cost of screws,necessary wire complete in all respect as approved anddirected by the Engineer InchargeTripple Pole With Adjustable Thermal- Magnetic Trip/Electronic Trip (60-100%)630- 1600 Amp(50 KA)	24/6.iii	1312.00 Rft		Per Rft		
12	P/F PVC concealed Switch kit Box i/c the cost of screwscomplete as approved and directed		1.00 No		Each		
	by the Engineer Incharge i) Small ii) Large	24/104	250.00 150.00 No		Each Each		
					Total		

	Estimate Based on MRS Junuary to June, 2023 BWN					
No.	Description	Ref.	Quantity	Rate	Unit	Amount
1	Electric Work (Non-Schedule Items) Supply & installation of PVC Fan Box with iron bar i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge. (GM, Bita or equivalent)	NS	103.00 No		Each	
	Supply & installation of Ceiling Fans, 56" sweep (As per "Pakistan Energy Lable" certified manufacturers). i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge	NS	103.00 No		Each	
3	Supply & installation of Metal Body Wall Bracket Fan 24" (99.99% Copper) i/c any accessories (i.e. widing of mounting holes and 4.00nos of rawl bolts ¼" etc) as required at site. Complete in all respect as directed and approved by the Engineer Incharge (SK mega or Equivalent)	NS	8.00		Each	
	Supply & installation of LED 24 W Down Light 6500 K ,2000 Lumen (Surface Mounted, 220V~) i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips Essential or Equivalent)	NS	128.00 Noo		Each	
5	Supply & installation of Strip (patti) with 20W Led tube rod (220V~, 6500K) i/c any accessories required at site. Complete in all respect as directed and approved by the Engineer Incharge (Philips or Equivalent)	NS	Nos 340.00		Each	
	Supply & installation LED flood light 100 watt Philips quality including casing bracket, hanging arrangement complete in all respects as approved by the Engineer Incharge.		No.		Fach	
		NS	16.00 No		Each	
7	Supply and Installation of Stainless Steel/Aluminum Exhaust Hood with exhaust fan (170W) and 4 x20W halogen lamp i/c any other accessories required at site. Complete in all respects as approved by Engineer Incharge. (Canon-HD-GL9011 or Equivalent)					
0	Providing and Laying earthing for Electric Machines I/c boring up to moisture level (up to 60' below ground level) 4" i/d including copper strip 14" x 2" x 1/4" (350 x 50 x 6 mm) connecting with 1 Nos.bare copper wire of No.8 SWG to be run in PVC pipe 20mm i/d, 1¼" i/d GI pipe 5' long, GI tee & plug for watering also includes common salt, Lime (slaked) and charcoal around copper strip i/c connecting with Electric machine. Complete in all respects as approved and as directed by the engineer incharge.	NS	1.00 No		Each	
		NS	2.00 No		Each Total	

		1	Estimate Based on			
No.	Description	Ref.	Quantity	Rate	Unit	Amount
1	Plumbing Work (Schedule Items) Providing and fitting glazed earthen ware water closet squatter type (Orissa pattern) combined with foot rest. (Coloured).	19/4ii.	21.00 No		Each	
2	Providing and fitting glazed earthen ware wash hand basin 56x40 cm (22"x16") including bracket set, waste pipe and waste coupling, etc.					
	i. coloured, with pedestal	19/7.i	6.00		Each	
	ii. Under Counter Vanity Basin	19/7.v	20.00 No		Each	
3	Providing and Fixing Crommium plated bib	19/27.ii	00.00			
	cock 1/2" dia.		38.00 Nos		Each	
4	Providing and fixing chromium plated pillar- cock, heavy:-	19/24.ii	NUS			
	ii) (1/2")		6.00 No.		Each	
5	Providing and fixing chromium plated tee stop	19/28	NO.			
Ū	cock '15mm (½").		34.00 No.		Each	
6	Providing and fixing BATHROOM ACCESSORIES (7-piece set) MASTER BRAND - One Cosmetic Shelf, One Towel rod with bracket, One soap dish, One double hook, One towel ring, brush holder, toilet paper holder & looking glass i/c the cost of hardwares etc complete in all respect as approved and directed by the Engineer incharge	19/23.	NO.			
	i) plastic soap dish	10/201	12.00		Each	
	ii) plastic toilet paper holder		12.00		Each	
	iii) plastic towel rail		12.00		Each	
			No.			
7	Providing and fitting plastic made low down flushing cistern 13.63 litre (3 gallons) capacity, including bracket set, copper					
	connection, etc. complete. ii) coloured	19/13.ii	25.00 No.		Each	

Estimate Based on MRS Junuary to June, 2023 BWN

	Estimate Based on MRS Junuary to June, 2023 BWN							
No.	Description	Ref.	Quantity	Rate	Unit	Amount		
8	Providing and fixing, chromium plated mixing valve, for wash hand basin, sink or shower, as approved by the engineer in charge	19/30.	26.00		Each			
9	Earthwork excavation in open cutting for sewers and manholes as shown in drawings including shuttering and timbering, dressing to correct section and dimensions according to templates and levels, and removing surface water, in all types of soil except shingle, gravel and rock:-'0 ft. to 7.0 ft. (0 to 2.10 m) depth	3/42-i	8848.48 Cft		%0 Cft			
10	Providing and laying R.C.C. pipe sewers, moulded with cement concrete 1:1½:3 conforming to ASTM Specification C-76-79, Class II. Wall B, including carriage of pipe from factory to site of work, lowering in trenches to correct alignment and grade, jointing							
i)	310 mm (12") i/d	21/3 i	1,215.00 Rft		P/Rft			
11	Cement plaster 1:3 upto 20' (6.00 m) height:- b) '1⁄2" (13 mm) thick	11/8.b	5676.00 Sft		% Sft			
12	Constructing standard gully grating chamber, 3'x2½' '(900x750 mm), with chinaware trap as per PHED Drawing STD/PD No. 3 of 1977, complete in all respects.							
13	Extra for making and finishing benching floor	21/8.	6.00 No		Each			
10	work in manhole chamber, with 1/8" (3 mm) thick cement finish.	21/9.	150.00 Sft		% Sft			
14	Providing, fixing, testing and commissioning of µ-PVC (Unplasticized polyvinyl Chloride) Nikasi /wastepipe Fittings make of dadex /Popular /Beta/ BBJ conformingto code EN- 1401 including thecost of Solvents complete in all respect as approved and directed by the Engineer Incharge.	19/49.	Uit					
	P-Trap 4" dia P-Trap 3" dia Multi-Trap 4" dia Multi-Trap 3" dia Vent Cowel 4" dia		69.00 69.00 22.00 22.00 20.00 Nos		Each Each Each Each Each			
15	Providing ,fixing testing and commissioning of μ -PVC (Unplasticized polyvinyl Chloride) Nikasi /waste pipe make of dadex /Popular /Beta/BBJ plain/ socket ended conforming to code EN-1401 of specified SDR (Standard Dimension Ratio) including thecost of specials and Solvents complete in all respect as approved and directed by the Engineer Incharge.Type (SDR 32.5/SN-8)	19/47.						
	i)4" (110 mm) ii)3" (85 mm)		1905.07 750.00 Rft		P/Rft P/Rft			

Estimate Based on MRS Junuary to June, 2023 BWN

			Estimate Based on I			
No.	Description	Ref.	Quantity	Rate	Unit	Amount
16	Providing, laying, testing and commissioning of POLY PROPYLENE RANDOM COPOLYMER (PPRC) water supply pipe made of (Dadex/Popular/Beta/BBJ) with specified pressurerating PN (PRESSURE NOMINAL) and conforming to DIN 8077-8078 code i/c cost of solvent, specials ,making jharries complete in all respectas approved and directedby Engineer Incharge.(Internal/External Diameters mentioned).	23/47.bii				
	PN-20 pipe	20/47.01				
	ii)(3/4") 25 mm iii)(1") 32 mm vi)(2") 63 mm		523.00 1211.00 1050.00 Rft		P/Rft P/Rft P/Rft	
17	Providing and fixing CP bath Room Set made of Sonex/ Master /Faisal comprising of 3- NoTee stop cocks ,lever type Basin Mixer,double Bib Cock,open wall shower,Muslim shower,waste coupling and bottle trap etc.complete in all respect as approved and directed by the Engineer incharge.	19/52.				
	i)Double Bib Cock ii)Open Type Wall Shower iii)Muslim shower iv)Waste Coupling	10/02.	25.00 25.00 25.00 25.00 No		Each Each Each Each	
18	Providing and fixing stainless steel sink with drain board, size 120x60 cm (48"x24") including bracket set, waste pipe and waste coupling.	19/8.	6.00 No.		Each	
19	Providing and fitting one piece Europeon Coupled set of Water Closet (WC) and flushing Cistern of PORT Abrand (fullsize) i/c the cost of CP /rubber connection ,thimble,normal seat cover and rawal bolts completein all respects as approved and directed by the Engineer Incharge	19/3.	4.00 No		Each	
	Plumbing Work (Non-Schedule Items)				TULAI	
1	P/F Looking glass imported quality complete in all respect and as approved by the Engineer Incharge.	NS	111.00 Sft		P/ Sft	
2	Providing & fixing floor trap Jali plastic complete in all respect and as approved by the Engineer Incharge.	NS	33.00 No		Each	
3	Providing & fixing floor trap Jali Stainlessteel complete in all respect and as approved by the Engineer Incharge.	NS	37.00		Each	
			No			
					Total	

Estimate Based on MRS Junuary to June, 2023 BWN

			Estimate Based on			
No.	Description	Ref.	Quantity	Rate	Unit	Amount
	IT DATA CABELING SYSTEM					
1	Supply and erection of PVC pipe for wiring recessed in wallsincluding inspection boxes, pull boxes, hooks, cuttingjharries,and repairing surface, etc.,complete with all specials. i) 3/4" i/d (20 mm) ii) 1" i/d (25 mm) iii) 1.50" i/d (40 mm) iv) 2" i/d (50 mm)	24/3	525.00 530.00 250.00 260.00 Ft		Per Ft Per Ft Per Ft Per Ft	
2	P/F PVC concealed Switch kit Box i/c the cost of screwscomplete as approved and directed by the Engineer Incharge i) Small	24/104	50.00		Each	
	ii) Large		No 50.00 No		Each	
3	Supply, Installation and commissioning of wiring with 4-pairdata Cable, 23 AWG UL/EN listed cable * Conforming tofollowing standards: TIA/EIA 568 / ISO/IEC 11801, in prelaidconduit / cable tray from including all accessories, Manufacturer/OEM Authorization, Make: Schneider / i-connectUK/3M Corning USA/ D-Link/ Pollo Australian or equivalentcomplete in all respect as approved and directed byEngineer Incharge.	24/106				
	a) LITB (Linchioldod Twistod pair)	24/100				
	a) UTP (Unshielded Twisted pair) (i) CAT-6 (Min.1G @ 250MHz or higher) (ii) CAT-6A (Min.1G/ 10G @ 500MHz or higher)		600.00 600.00 M		Per M Per M	
4	Supply, Installation and commissioning of Simple type, DualShutter Face Plates having fully populated I/O: Option 1:RJ-11 withRJ45/8P8C I/Os supporting either Cat6 or Cat6a cables asrequired by project Option 2: Two RJ45/8P8C I/Os supportingeither Cat6 or Cat6a cables as required by project.	24/131				
	(i) Single I/O (ii) Double I/O	27/101	100.00 100.00 No		Each Each	
				Tota	al	

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

BILL OF QUANTITIES

SUMMARY OF COST

Sr. No.	DESCRIPTION		AMOUNT
1.	CIVIL WORKS		
2.	PUBLIC HEALTH WORKS		
3.	ELECTRIC WORKS		
	Main Building	TOTAL - A	
4.	EXTERNAL DEVELOPMENT		
	External Civil Works	TOTAL - B	
	SUB-TOTAL (A+B)		
5.	HVAC WORKS		
	HVAC Works 1	TOTAL - C	
	SUB-TOTAL (A+B)+C		
	ADD PST		
	GRAND TOTAL		

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

_		BILL OF QUANTITIES				
		CIVIL WORKS				
Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
1	C-3/21(a)-(ii)	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and rammiing lead 'upto one chain (30 m) and lift upto 5 ft. (1.5 m) a) By Manual: in ordinary soil.	%0Cft	195774.8		
2	C-26/43	Spraying anti termite proofing by using liquid FMC Biflex 2.5%EC Per Stt 1.20 10.00 Sq.m 13.00 107.50 Mixing Ratio 1:50=137-Sft or using liquid MIRAGE Ali Akbar /RANGERS Auriga 5% SC Mixing Ability-HEXTAR Ratio 1:110=205-Sft or any other equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10- years complete in all respect .as approved by the Engineer Incharge	D 0#	470047.0		
3	C-6/5(i)	Cement concrete plain including placing,compacting, finishing and	P.Sft	176847.6		
C		curing complete (including screening and washing of stone aggregate):Ratio 1:4:8	%Cft	13249.8		
4	C-6/6 a-i (2)	Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- Type B (nominal mix 1: 1.5: 3), Ground Floor				
_			P.Cft	35072.3		
5	C-6/6 a-i (2)	Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- Type B (nominal mix 1: 1.5: 3), Ground Floor				
6	C-6/6 a-i	Reinforced cement concrete in roof slab, beams, columns lintels,	P.Cft	34832.2		
0	(2)+d	girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- Type B (nominal mix 1: 1.5: 3), add extra for First Floor.	P.Cft	27632.4		
7	C-6/6 a-i (2)+d	Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- Type B (nominal mix 1: 1.5: 3), add extra for Second Floor.	P.Cft	3159.7		
8	C-6/6 a-i (2)	Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- Type B (nominal mix 1: 1.5: 3), Under Plinth Level		5942.1		
9	C-6/6 a-i (2)	Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- Type B (nominal mix 1: 1.5: 3), Ground Floor	P.Cft	7505.9		
10	C-6/6 a-i (2)+d	Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- Type B (nominal mix 1: 1.5: 3), add extra for First Floor.				
11	C-6/6 a-i	Reinforced cement concrete in roof slab, beams, columns lintels,	P.Cft	6011.8		
11	(2)+d	girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- Type B (nominal mix 1: 1.5: 3), add extra for Second Floor.	P.Cft	52.8		
12	C-6/12(c)	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars):- Deformed bars (Grade-60)				
		(Grade-60)	%Kg	408181.8		

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
13	C-7/4(i)	Pacca brick work in foundation and plinth in Cement,sand mortar. Ratio 1:6	%Cft	72011.7		
14	C-3/15(i)	Filling, watering, ramming earth under floors (with surplus earth foundation).		65258.3		
15	C-3/15(ii)	Filling, watering and ramming earth under floors:-ii) with new earth excavated from outside lead upto one chain (30 m).		297690.4		
16	C-3/17	Transportation of earth all types when the total distance, this rate will be paid inaddition to the including the lead covered in the item of work, is more than rate of earthwork, without deducting 1000 ft. (300 m) (Lead will be paid as per actual but not more than 7km)		237030.4		
	а	upto ¼ mile (400 m).	%0Cft	297690.4		
	b	for every 330 ft. (100 m) additional lead or part thereof, beyond ¼ mile (400 m) upto one mile. (1.6 Km.)	%0Cft	297690.4		
	с	for every ¼ mile (400 m) additional lead or part thereof, beyond one mile (1.6 Km.) upto 5 mile (8 Km).	%0Cft	297690.4		
17	C-7/5(i)	Pacca brick work in ground floor cement, sand mortar Ratio 1:5	%Cft	33695.2		
18	C-7/5(i)	Pacca brick work in ground floor cement, sand mortar Ratio 1:4	%Cft	768		
19	C-7/5(i) + 6(i)	Pacca brick work in First floor cement, sand mortar Ratio 1:5	%Cft	25050.0		
20	C-7/5(i) + 6(i)	Pacca brick work in First floor cement, sand mortar Ratio 1:4	%Cft	1164.6		
21	C-11/11(b)	Cement plaster 1:5 upto 20' (6.00 m) height:- ½" (13 mm) thick. (Internal Ground Floor)	%Sft	79125.5		
22	C-11/11(c)	Cement plaster 1:5 upto 20' (6.00 m) height:- c) ¾" (20 mm) thick. (Internal Ground Floor)	%Sft	41697.1		
23	C-11/9-c	Cement plaster 1:4 Ground Floor:- c) ¾" (20 mm) thick (External)	%Sft	33541.7		
24	C-11/9-c + 28	Cement plaster 1:4 First Floor:- c) ¾" (20 mm) thick (External)	%Sft	29242.8		
25	C-11/9-c + 28	Cement plaster 1:4 Second Floor:- c) ¾" (20 mm) thick (External)	%Sft	110379.6		
26	C-7/38-(i)	Providing and laying fair face Gutka cladding laid in (1:2) cement / red posso mortar having 1/4" thick groove finish i/c cost of 8 SWG wire in shape of 8 placed horizontally and vertically at 36" and 18" c/c respectively i/c cutting charges as per approved drawing , complete in all respect as approved and directed by the Engineer Incharg i. 2-1/4" x 2-1/4" x 9"		59283.40		
27	C-9/48 (iv)	Providing and fixing false ceiling comprises of Gypsum board laminated sheet of size 2'x2'/2'x3'/ 3'x3'of specified design and thickness i/c cost of fixtures i.e galvanized angle 1" x 1" at wall sides, galvanized tee 1¼" x 1"and 1 ½" x 1" both at 4' c/c (made of Taiwan CKM or equivalent), hanging with G.I/Copper wire 16 SWG, G.I hook, Rawal Plug etc: complete in all respects as approved and directed by the Engineer Incharge. iv) 12 mm thick		83918.2		
28	C-11/23-a- (iii)	Distempering:- a) new surface:- 3 coats	%Sft	120822.60		
29	C-13/46	Providing and applying wall putty of 2mm thickness over plastered surface (new surface) to prepare the surface even and smooth complete in all respect.				
30	C-13/33-a- (i+ii)	Providing and applying weather shield paint of approved quality on external surface of building including preparation of surface, application of primer complete in all respect: a) new surface: Two coats		241645.20 6587.04		
31	C-10/3	Providing, laying, watering and ramming brick ballast 1½" to 2"(40 mm to 50 mm) gauge mixed with 25% sand, for floor foundation, complete in all respects.				
32	C-6/5(f)	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):(f) Ratio 1: 2: 4		27245.4 13038.9		

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
33	C-10/15(e)	Providing and laying topping of cement concrete 1:2:4,including surface finishing and dividing in panels:-(e) 2"(50 mm) thick	%Sft	7430.6		
34	C-9/35 (iii)	Providing and laying roof insulation, comprising of single layer of tiles 9"x4½"x1½" (225x113x40 mm) grouted with cement sand mortar 1:3 laid over 2" (50 mm) thick earth (including mud plaster) over thermopore sheet, over polythene sheet 300 gauge over a layer of bitumen, complete in all respects:- iii) Thermopore sheet 1" (25 mm) thick	%Sft	47457.5		
35	C-9/15	Khuras on roof 2'x2'x6" (600 x 600 x 150 mm)	Each	36.0		
36	Ch 10/42-a- (ii)	Providing and laying superb quality Porcelain glazed tiles flooring of MASTER brand of specified size in approved design,Color and Shade with adhesive/bond over 3/4"thick (1:3) cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respect as approved and directed by the Engineer Inchargea) Full body Glazed tiles (ii) 600 mm x 600 mm.		78611.82		
37	Ch 10/43-a- (ii)	Providing and laying superb quality Porcelain glazed tiles of Master brand, skirting/dado of specified size, Color and Shade with adhesive/ bond over 1/2"thick (1:2) cement plaster i/c the cost of and sealer for finishing the joints, cutting grinding complete in all respect as approved and directed by the Engineer Incharge.a) Full body Glazed tiles (ii) 600 mm x 600 mm.	P.Sft	7572.35		
38	C-10/22(a)	1½"(40 mm) thick mosaic flooring, consisting of ½ "(13 mm) mosaic topping of one part of cement and marble powder in the ratio of 3:1 and two parts of marble chips, laid over 1"(25 mm) thick floor of 1:2:4 cement concrete, including rubbing and polishing complete with finishing :- (a) using Grey cement. Ground Floor	%Sft	264.57		
39	C-10/37 (a-ii)	Mosaic dado or skirting with one part of cement and marble powder in the ratio of 3:1 and two parts of marble chips, laid over $\frac{1}{2}$ "(13 mm) thick cement plaster 1:3, including rubbing and polishing, complete with finishing: (a) using Grey cement : ii) $\frac{1}{2}$ "(13 mm) thick	%Sft	270.19		
40	C-10/24(i)	Providing and laying superb quality Ceramic tile floors of Master brand of specified size, Glossy/Matt/Texture of approved Color and Shade as per approved design with adhesive bond, over 3/4" thick (1;2) cement sand plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects and as approved and directed by the Engineer Incharge. i) 12"x18"/12"x24"/10"x24" /8"x24"/12"x36"				
41	C-10/25(i)	Providing and loving ouroth quality Caromia tilog dada of Master brand	P.Sft	1582.94		
71	0-10/20(1)	Providing and laying superb quality Ceramic tiles dado of Master brand of specified size, Glossy/Matt/Texture skirting/dado of approved Color and Shade with adhesive bond over 1/2"thick (1:2) cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects as approved and directed by the Engineer Incharge. i) 12"x18"/12"x24"/10"x24" /8"x24"/12"x36"				
42	C-10/50 (i)	Providing and laying Prepolished Granite of specified thickness and shade of full width of approved quality laid with adhesive bond over 3/4" thick (1:2) cement sand mortor bed, complete in all respect as	P.Sft	5333.32		
43	C-10/48	approved and directed by the Engineer Incharge. (i) 3/4" thick Extra for Bevelling charges of marble edge in approved design complete in all respects i/c the cost of Carborandam disc as approved and directed by the Engineer Incharge.	P.Sft P.Rft	11460.46 8676.15		
44	C-10/49	Extra cost for making hole in Marble slab for fixtures, Sink,burners, basin Vanities i/c cost of bevelling of internal edge as approved and directed by the Engineer Incharge.	Each	6.00		
45	C-12/51	P/F 1-1/2" thick solid flush door comprising of 2.5 mm thick Commercial ply compressed over 2.5 mm thick commercial ply over 1" thick packing wood in style and rails under proper pressure i/c the cost of nails, tower bolt , handles, glue, sawing charges, Painting charges, sand papering and 3/8" thick matching wooden lipping as approved and directed by the Engineer Incharge.		3031.88		

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
46	C-12/61 (b) - (ii)	P/F 3/4" dia heavy duty sliding bolt of specified material i/c the cost of hardware complete in all respect as approved and directed by theEngineer Incharge. (ii) 12" (300 mm) long	Each	89.00		
47	C-12/22	Providing and fixing, approved quality mortice lock	Each	89.00		
48	C- 12/17 - (ii)	Providing and fixing 2" wide MS/ GI Chowkat singel/double rebate made of 16 SWG MS sheet pressed/welded / supported with M.S. flat 1- 1/4"x1/8" i/c 6"long M.S. Flat 1"x1/8"hold fasts (6-Nos) welded/ screwed, punching of lock hole covered with MS Box,coating with antirust paint including filling with cement sand mortar (1:8) and embedding hold fast in cement concrete (1:2:4) ,complete in all respect as approved and directed by Engineer Incharge.(ii) 10.50 " wide	P.Sft	3031.88		
49	C-13/5 c(i+ii)	Painting new surface:- c) Preparing surface and painting of doors and windows any type (including edges):- 3 coats (Chowkats)	%Sft	7568.36		
50	C-25/51	Providing and fixing all types of partly fixed and partly openable glazed anodised bronze colour aluminium doors, using delux section of M/s Al- Cop or Pakistan Cables, having chowkat frame of size 40 x 100 mm (1½" x 4") and leaf frame of 60x40mm (2½"x1½") wide sections including the cost of ¼" (5 mm) thick imported tinted glass with aluminium triangular gola and rubber gasket to support the glass and leaf edging, using approved standard fittings, locks, 3" (75 mm) wide long handles etc., and hardware any required as approved by the engineer in-charge.	P.Sft	322.7		
51	C-25/52	Providing and fitting all types of glazed aluminium windows of anodised bronze colour partly fixed and partly sliding using delux sections of approved manufacturer having frame size of $100 \times 20 \text{ mm} (4^*x^{3/*})$ and leaf frame sections of $50 \times 20 \text{ mm} (2^*x^{3/*})$, all of 1.6mm hickness including 5 mm thick imported tinted glass with rubber gasket using approved standard latches, hardware etc., as approved by the Engineer in-charge.		6044.8		
52	C-25/53	Providing and fixing Aluminum Fly screen comprising of Fiber / Aluminum wire gauze (Malasian) fixed in aluminum frame of approved manufacturer brownze colour / powder coated of size 1-1/2" x 1/2" and 1.6mm thick with rubber gasket i/c cost of hardwares as approved and directed by the engineer incharge complete in all respect.		6044.8		
53	Ch-25/59-(ii)	Providing and fixing M.S. grill fabricated with MS Square polished Vertical/ horizontal Bars of specified size @ 4" c/c ' passed through punched holes in MS Patti of 1-1/4"x1/8" i/c the cost of 1-1/4"x1/8" MS patti for Frame of windows and painting 3 coat complete in all respect as approved and directed by the Engineer Incharge. (ii) 1/2" Squar Bars	P.Sft	6044.77		
54	Ch-25/64	Providing and fixing 2'-9" high stair railing comprising of non magnetic (304) Stain less steel 2" dia pipe railing of 18 SWG welded with vertical posts of 2" dia stainless steel round/ Squar pipe/ Tong (chimta) @ 2-ft c/c fixed on alternate steps with 3" long steel screws and brass rawal plugs , 3-Nos diagonal stainless steel pipes of 1/2" dia passes through goties fixed on vertical post, i/c stainles steel welding, fixing & polishing complete in all respects as approved and directed by the Engineer Incharge.		345.45		
55	C-25/57	Providing and fixing aluminium glazed partition of anodized / powder coated using section of M/s. Al-Cop/ Pakistan Cable having 2 mm thick Frame size D48-A , i/c 12 mm tinted TEMPERED glass with sand blasting and edge polishing i/c the cost of tear resistance film,rubber gasket and hardware etc. complete in all respect as approved and directed by the Engineer Incharge.(Floor hinge will be paid separately)		9935.70		
56	C-13/9(i)	Bitumen coating to plastered or cement concrete surface:-i) 20 lbs. per 100 Sft. (9.07 Kg per Sq.m)	%Sft	5061.5		
57	C-26/37(ii)	Supplying and laying polythene sheet over D.P.C. under floors and on roofs, etc.ii)500 gauge (.005" thick)	P.Sft	52519.0		
58	C-19/40 (iii)	Supply and fitting of cast iron manhole cover with frame, etc. complete. iii) 60 cm (24") dia	Each	1.00		

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
59	C-21/13	Providing and fixing 1 ¹ / ₄ "x1 ¹ / ₄ "x3/16" (31x31x5 mm) angle iron step, in manhole chambers, including carriage and setting the same in work to correct lines and levels.	Each	6.00		
60	C-6/31	Providing embeding 10" (250 mm) wide ¼" (6 mm) thick rubber water stopper in expansion joints of R.C.C. roof slab complete in all respects.	P.Rft	65.45		
61	C-6/28/a	Providing and fixing 1/8" (3 mm) thick 3" (75 mm) wide aluminium strip on horizontal and vertical expansion joints in walls, columns, ceilings and floors etc., including cost of clips/screws etc., complete in all respects:- a) On interior surface (without mastic strip)		813.64		
62	C-6/28/b	Providing and fixing 1/8" (3 mm) thick 3" (75 mm) wide aluminium strip on horizontal and vertical expansion joints in walls, columns, ceilings and floors etc., including cost of clips/screws etc., complete in all respects:- b) On exterior surface (with mastic strip)		546.82		
63	C-6/35/b	Providing and fixing theremopore (foamed polythene) sheet in horizontal and vertical expansion joints: b) 11/2" (40 mm) thick thermopore sheet				
64	C-6/55	Providing and mixing super plasticizer (water reducing admixture) as defined in ASTM C-94 in order to achieve the required consistancy / workability measured by the slump, used in the ratio of (0.05% to 1.00%) by weight of cement as proposed by the designer etc complete in all respect.		4669.35		
65	C-1/1	Carriage of 100 Cft. (2.83 cu.m) of all materials like stone aggregate, spawl, kankar lime (unslaked), surkhi, etc. or 150 Cft. (4.25 cu.m) of timber, by truck or by any other means owned by the contractor. (Sargodha to Ahmadpur East 399 KM) (Lead will be paid as per actual but not more than 399km)	P.Ltr %Cft	15465.39		
		Total of MRS ITEMS	,			
1	NSI	Excavation in foundation of building, bridges and other structures, including dag belling, dressing refilling around structure with excavated earth, watering and ramming, lead upto one chain (30 metre) and lift 5 ft. to 10 ft:- In ordinary soil.				
2	NSI	Providing and laying structural pad for foundation made of selected granular fill material (Mixture of 70% gravel and 30% sand of approved quality and grade) including placing, mixing, spreading and compaction of sub-base material to required depth, grade to achieve 95% maximum modified AASHTO dry density, including carriage of all material to site of work complete in all respect as approved by the Engineer incharge.	%0Cft	124153.49		
3	NSI	Providing and fixing UPVC Doors 38mm thickness i/c deluex matching color UPVC frame matt or glossy finish having color (white-Gray-Marble Gray-Oak Wood- Dard Oak Wood, Coffee Wood Honey Pine Wood-Mahagony-Marry Gold-Chocolate Brown-Honey Dew) i/c all accessories i/c mortice locks complete in all respect as approval by the Engineer Incharge.		485.10		
4	NSI	Providing and fixing steel Fire Rated Emergency Exit Door ,Door manufactured as per NFPA 252 & UL 10C standards Steel Door (MS) Size: 48" x 98" Double Leaf door, Filled with fire-rated material With Inner Steel Stiffeners for reinforcement. Door Leaf 1.2-1.5mm, Door Frame 1.5- 2.0mm, Accessories: Hinges, Panic Bar On single Leaf, SS Handle, Glass 12x24 ft, and Door closer including carriage complete in all respect as approved & directed by the Engineer/ Incharge. (TECHNO (PVT) LTD or Equivalent)	Each	3.00		
5	NSI	Providing and fixing of Fiber Glass Shed on main Entrance Podium and Side having box shape M.S pipe 4" x 6" (10-SWG) used for main frame and M.S pipe 4" x 4" (12-SWG) used for distribution Pipes and cover with 3 ply clear fiber glass sheet approved colour, includingapint, cutting, drilling, revitting, handling, assembling and fixing, nutbolt, carriage fabrication and all accessories which is being used as per Design etc complete in all respect as approval by the Engineer Incharge.	P.Sft	1141.35		

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

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

BILL OF QUANTITIES

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

17 Ch 1949 Providing, twing, testing and commissioning of µ-PVC 0.0 (Unplasticzder) oplying/Choldrob Nikasi/ waste pipe Fittings 18 Ch 1949 Providing, fixing, testing and commissioning of µ-PVC 18 Ch 1949 Providing, fixing, testing and commissioning of µ-PVC 19 (1) (1) 18 Ch 1949 Providing, fixing, testing and commissioning of µ-PVC 19 (1) (1) 19 19/52 (vi) Providing and fixing CP bath Room Set made of Sonev/ Master Fisals comprising of 3-No Tee stop cocks, lever type Each 20 19/52 (vii) Providing and fixing CP bath Room Set made of Sonev/ Master Fisals coupling and bottle trag etc. complete in all respect as approved and directed by the Engineer in charge. Each 20 19/52 (vii) Providing and fixing CP bath Room Set made of Sonev/ Master Fisals coupling and bottle trag etc. complete in all respect as approved and directed by the Engineer in charge. Each 22.00 21 19/52 (vii) Providing and fixing chronium plated stop cock, levery type Basin Mixer, double Bib Cock Each 22.00 23 19/27 (ii) Providing and fixing chronium plated stop cock, levery: li) 1.5 cm (%) Each 8.00 1.5 cm (%) <t< th=""><th>SR. NO.</th><th>ITEM NO.</th><th>DESCRIPTION</th><th>UNIT</th><th>QTY</th><th>RATE (RS)</th><th>AMOUNT (RS)</th></t<>	SR. NO.	ITEM NO.	DESCRIPTION	UNIT	QTY	RATE (RS)	AMOUNT (RS)
18 Ch 19/49 (Providing, fixing, testing and commissioning of µ-PVC) i) 0(i) (Unplasticized polywin/Choirde) Nikasi Waste pipe Fittings make of dadex /Popular/Beta/BBJ conforming to code EN- 1401 notuding the cost of Solvents complete in all respect as approved and directed by the Engineer Incharge. (d) Clean Each 6.00 19 19/52 (v) Providing and fixing CP bath Room Set made of Sonex/ Master/ Faisal comprising of 3-No Tee stop cocks, lever type Basin Mixer, double BIb Cock, open wall shower, Muslim shower, waste coupling and bottle trap etc. complete in all respect as approved and directed by the Engineer in charge. (v) Muslim shower Each 22.00 20 19/52 (ii) Providing and fixing CP bath Room Set made of Sonex/ Master/ Faisal comprising of 3-No Tee stop cocks, lever type Basin Mixer, couble Bib Cock, open wall shower, Muslim shower, waste coupling and bottle trap etc. complete in all respect as approved and directed by the Engineer in charge. (iii) Double Bib Cock Each 22.00 22 19/25 (ii) Providing and fixing chromium plated stop cock, heavy ii) 1.5 cm (½') Each 8.00 23 19/27 (ii) Providing and fixing chromium plated bib cock:- ii) 1.5 cm (½') Each 8.00 24 19/7 (v) Providing and fixing chromium plated mixing valve, for wash hand basin, sink or shower. Each 18.00 18.00 25 25 19/30 Providing and fixing, chromium plated mixing valve, for wash hand basin, sink or shower. Each	17		(Unplasticized polyvinyl Chloride) Nikasi/ waste pipe Fittings make of dadex /Popular/Beta/BBJ conforming to code EN- 1401 ncluding the cost of Solvents complete in all respect as approved and directed by the Engineer Incharge. (b) Multi-				
d (i) (Upplasticized poly/nyl Chloride) Nikasi/ waste pipe Fittings make of date: //Popular/Beta/BBJ. conforming to code BN- approved and directed by the Engineer Incharge. (d) Clean Dur (l) 4' dia Each 6.00 19 19/52 (i) Providing and fixing CP bath Room Set made of Sonex/ Master/Faisal comprising of 3-No Tee stop cocks, lever type Basin Mixer, double Bib Cock, open wall shower, Muslim shower, waster coupling and bothet trap et c. complete in all respect as approved and directed by the Engineer in charge. (v) Muslim shower Each 22.00 20 19/52 (ii) Providing and fixing CP bath Room Set made of Sonex/ Master/Faisal comprising of 3-No Tee stop cocks, lever type Basin Mixer, double Bib Cock, open wall shower, Muslim shower, waste coupling and bothet trap et c. complete in all respect as approved and directed by the Engineer in charge. (iii) Double Bib Cock Each 22.00 22 19/27 (ii) Providing and fixing chromium plated stop cock, heavy:- ii) 1.5 cm (X') Each 60.00 23 19/27 (i) Providing and fixing chromium plated stop cock, heavy:- ii) 1.5 cm (X') Each 8.00 24 19/7 (v) Providing and fixing chromium plated stop cock, levary:- ii) 1.5 cm (X') Each 18.00 25 19/30 Providing and fixing chromium plated mixing valve, for wash hand basin, sink or shower. Each 18.00 26 Ch 23/47 WATEE SUPPLY PIPES AND FITTINGS Each	10	Ch 10/40		Each	10.00		
Master/ Faisal comprising of 3-No Tee stop cocks, lever type Basin Mixer, double Bib Cock, open wall shower, Muslim shower, waste coupling and bottle trap etc. complete in all respect as approved and directed by the Engineer in charge. (v) Muslim shower Each 22.00 20 19/52 (iii) Providing and fixing CP bath Room Set made of Sonev/ Master/ Faisal comprising of 3-No Tee stop cocks, lever type Basin Mixer, double Bib Cock, open wall shower, Muslim shower, waste coupling and bottle trap etc. complete in all respect as approved and directed by the Engineer in charge. (iii) Double Bib Cock Each 22.00 22 19/25 (ii) Providing and fixing chromium plated stop cock, heavy:- ii) 1.5 cm (%) Each 60.00 23 19/27 (ii) Providing and fixing chromium plated bib cock:- ii) 1.5 cm (%) Each 8.00 24 19/7 (v) Providing and fixing chromium plated bib cock:- ii) 1.5 cm (%) Each 18.00 25 19/30 Providing and fixing chromium plated mixing valve, for wash hand basin, sink or shower. Each 18.00 26 Ch 23.47 WATER SUPPLY PIPES AND FITTINGS Each 18.00 Image: fill the specified pressure rating PN (PRESSURE NOMINAL)and conforming to DIN 8077-8078 code i/c cost of solvent, specified pressure rating PN (PRESSURE NOMINAL)and conforming to DIN 8077-8078 code i/c cost of solvent, specified pressure rating PN (PRESSURE NOMINAL)and conforming to DIN 8077-8078 code i/c cost of solvent, specified pressure rating PN (PRESSURE NO	18	d (i)	(Unplasticized polyvinyl Chloride) Nikasi/ waste pipe Fittings make of dadex /Popular/Beta/BBJ conforming to code EN- 1401 ncluding the cost of Solvents complete in all respect as approved and directed by the Engineer Incharge. (d) Clean Out (i) 4" dia	Each	6.00		
20 19/52 (iii) Providing and fixing CP bath Room Set made of Sonex/ Master/ Faisal comprising of 3-No Tee stop cocks, lever type Basin Mixer, double Bib Cock, open wall shower, Muslim shower, waste coupling and bottle trap etc. complete in all respect as approved and directed by the Engineer in charge. Each 22.00 22 19/25 (iii) Providing and fixing chromium plated stop cock, heavy:- ii) 1.5 cm (%') Each 60.00 23 19/27 (ii) Providing and fixing chromium plated bib cock:- ii) 1.5 cm (%') Each 8.00 24 19/27 (ii) Providing and fixing chromium plated bib cock:- ii) 1.5 cm (%') Each 8.00 24 19/7 (v) Providing and fixing chromium plated bib cock:- ii) 1.5 cm (%') Each 18.00 25 19/30 Providing and fixing, chromium plated mixing valve, for wash hand basin, sink or shower. Each 18.00 26 Ch 23/47 WATER SUPPLY PIPES AND FITTINGS Each 18.00 26 Ch 23/47 WATER SUPPLY PIPES AND FITTINGS Each 18.00 27 19/30 laptic pressure rating PN (PRESSURE NOMINAL)and conforming to DIN 8077-8078 code i/c cost of solvent, specials, making jharrise complete in all respect as approved and directed by Engineer Incharge.(Internal/External Diameters mentioned) b) PN-20 pipe Rft 450.00 iii 3/4* (25 mm) dia. Rft	19	19/52 (v)	Master/ Faisal comprising of 3-No Tee stop cocks, lever type Basin Mixer, double Bib Cock, open wall shower, Muslim shower, waste coupling and bottle trap etc. complete in all respect as approved and directed by the Engineer in charge.	Fach	22.00		
Master/ Faisal comprising of 3-No Tee stop cocks, lever type Basin Mixer, double Bib Cock, open wall shower, Muslim shower, waste coupling and bottle trap etc. complete in all respect as approved and directed by the Engineer in charge. Each 22.00 22 19/25 (ii) Providing and fixing chromium plated stop cock, heavy:- ii) 1.5 cm (½") Each 60.00 23 19/27 (ii) Providing and fixing chromium plated bib cock:- ii) 1.5 cm (½") Each 8.00 24 19/7 (v) Providing and fixing chromium plated bib cock:- ii) 1.5 cm (½") Each 8.00 24 19/7 (v) Providing and fixing chromium plated mixing valve, for wash hand basin, sink or shower. Each 18.00 25 19/30 Providing and fixing, chromium plated mixing valve, for wash hand basin, sink or shower. Each 18.00 26 Ch 23/47 WATER SUPPLY PIPES AND FITTINGS Each 18.00 26 Ch 23/47 WATER SUPPLY PIPES AND FITTINGS Each 18.00 27 19/30 Providing, laying, testing and commissioning of POLYPROPYLENE RANDOM COPOLYMER (PPRC) water supply pipe made of (Dadex /Popular/ Beta / BBJ) with specified pressure rating PN (PRESSURE NOMINAL)and conforming to DIN 8077-8078 code i/c cost of solvent, specials,making jharries complete in all respect as approved and directed by Engineer incharge. (Internal/External Diameters mentioned) b) PN-20 pipe	20	19/52 (iii)	Providing and fixing CP bath Room Set made of Sonex/	Each	22.00		
Image: Constraint of the second state of the second sta	-		Master/ Faisal comprising of 3-No Tee stop cocks, lever type Basin Mixer, double Bib Cock, open wall shower, Muslim shower, waste coupling and bottle trap etc. complete in all respect as approved and directed by the Engineer in charge.				
1.5 cm (½") Each 60.00 23 19/27 (ii) Providing and fixing chromium plated bib cock:- ii) Each 8.00 24 19/7 (v) Providing and fitting glazed earthen ware wash hand basin /vanity56x40 cm (22"x16") including bracket set, waste pipe and waste coupling, etc. v) Under Counter Vanity Basin Each 18.00 25 19/30 Providing and fixing, chromium plated mixing valve, for wash hand basin, sink or shower. Each 18.00 26 Ch 23/47 WATER SUPPLY PIPES AND FITTINGS Each 18.00 26 Ch 23/47 WATER SUPPLY PIPES AND FITTINGS Each 18.00 26 Ch 23/47 WATER SUPPLY PIPES AND FITTINGS Each 18.00 26 Ch 23/47 WATER SUPPLY PIPES AND FITTINGS Each 18.00 27 IProviding, laying, testing and commissioning of POLYPROPYLENE RANDOM COPOLYMER (PPRC) water supply pipe made of (Dadex /Popular/ Beta / BB.)) with specified pressure rating PN (PRESSURE NOMINAL)and conforming to DIN 8077-8078 code i/c cost of solvent, specials, making jharries complete in all respect as approved and directed by Engineer Incharge. (Internal/External Diameters mentioned) b) PN-20 pipe Rft 450.00 27 ii 3/4" (25 mm) dia. Rft 240.00 Rft 240.00 Each E				Each	22.00		
1.5 cm (½") Each 8.00 24 19/7 (v) Providing and fitting glazed earthen ware wash hand basin /vanity56x40 cm (22"x16") including bracket set, waste pipe and waste coupling, etc. v) Under Counter Vanity Basin Each 18.00 25 19/30 Providing and fixing, chromium plated mixing valve, for wash hand basin, sink or shower. Each 18.00 26 Ch 23/47 WATER SUPPLY PIPES AND FITTINGS Image: Comparison of POLYPROPYLENE RANDOM COPOLYMER (PPRC) water supply pipe made of (Dadex /Popular/ Beta / BBJ) with specified pressure rating PN (PRESSURE NOMINAL)and conforming to DIN 8077-8078 code i/c cost of solvent, specials, making iharries complete in all respect as approved and directed by Engineer Incharge.(Internal/External Diameters mentioned) b) PN-20 pipe Rft 450.00 iii 3/4" (25 mm) dia. Rft 240.00 Rft 170.00			1.5 cm (½")	Each	60.00		
vanity56x40 cm (22"x16") including bracket set, waste pipe and waste coupling, etc. v) Under Counter Vanity Basin Each 18.00 25 19/30 Providing and fixing, chromium plated mixing valve, for wash hand basin, sink or shower. Each 18.00 26 Ch 23/47 WATER SUPPLY PIPES AND FITTINGS Each 18.00 26 Ch 23/47 WATER SUPPLY PIPES AND FITTINGS Image: Supply pipe state stat		.,	1.5 cm (1/2")	Each	8.00		
25 19/30 Providing and fixing, chromium plated mixing valve, for wash hand basin, sink or shower. Each 18.00 26 Ch 23/47 WATER SUPPLY PIPES AND FITTINGS Each 18.00 26 Ch 23/47 WATER SUPPLY PIPES AND FITTINGS Image: state s	24	19/7 (v)	/vanity56x40 cm (22"x16") including bracket set, waste pipe	Each	18.00		
26 Ch 23/47 WATER SUPPLY PIPES AND FITTINGS Providing, laying, testing and commissioning of POLYPROPYLENE RANDOM COPOLYMER (PPRC) water supply pipe made of (Dadex /Popular/ Beta / BBJ) with specified pressure rating PN (PRESSURE NOMINAL)and conforming to DIN 8077-8078 code i/c cost of solvent, specials,making jharries complete in all respect as approved and directed by Engineer Incharge.(Internal/External Diameters mentioned) b) PN-20 pipe ii 3/4" (25 mm) dia. Rft 450.00 v 1 1/2" (50 mm) dia Rft 170.00	25				18.00		
POLYPROPYLENE RANDOM COPOLYMER (PPRC) water supply pipe made of (Dadex /Popular/ Beta / BBJ) with specified pressure rating PN (PRESSURE NOMINAL)and conforming to DIN 8077-8078 code i/c cost of solvent, specials,making jharries complete in all respect as approved and directed by Engineer Incharge.(Internal/External Diameters mentioned) b) PN-20 pipe ii 3/4" (25 mm) dia. Rft 450.00 iii 1" (32 mm) dia. Rft 240.00	26	Ch 23/47	WATER SUPPLY PIPES AND FITTINGS				
Rft 450.00 iii 1" (32 mm) dia. v 1 1/2" (50 mm) dia Rft 240.00 Rft 170.00			POLYPROPYLENE RANDOM COPOLYMER (PPRC) water supply pipe made of (Dadex /Popular/ Beta / BBJ) with specified pressure rating PN (PRESSURE NOMINAL)and conforming to DIN 8077-8078 code i/c cost of solvent, specials,making jharries complete in all respect as approved and directed by Engineer Incharge.(Internal/External				
iii 1" (32 mm) dia. Rft 240.00 v 1 1/2" (50 mm) dia Rft 170.00		ii	3/4" (25 mm) dia.	Rft	450.00		
v 1 1/2" (50 mm) dia Rft 170.00		iii	1" (32 mm) dia.				
		v	1 1/2" (50 mm) dia				
Rft 190.00		vi	2" (63 mm) dia.				

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

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

ESTA	ABLIS	HMENT AND DEVELOPMENT OF THE ISL	AMIA UN	IIVERSIT	Y OF BAHAWAL	PUR SUB CAMPUS
		ENGINEER'S C				
Sr.	Item	ELECTRIC				
No.	No.	Description	Unit	Qty	Unit Rate (Rs.)	Total Amount (Rs.)
1 i)		WIRING IN CONCEALED CONDUITS 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				
		FAST, Newage or universal cables and conduit				
		should be of Solo,popular,easyfit or equivalent as approved by engineer incharge				
		Supply and erection of single core PVC insulated				
		copper conductor cables, in prelaid PVC pipe/M.S. conduit/G.I pipe/wooden strip				
	ch/24/	batten/wooden casing an capping/G.I.				
а	10 (a(iii))	wire/trenches (rate for cables only):-				
	((((())))	a) 250/440 volts, PVC insulated:				
		iii) 7/0.74 mm (7/0.029") (17010+6480++15795+31824)	RMtr	71109		
		Supply and erection of PVC pipe for wiring				
	ab/24/	recessed in walls, including inspection boxes, pull boxes, hooks, cutting jharries, and repairing				
b		surface, etc., complete with all specials.				
	- ()	iii) 25 mm i/d (5670+2160+5265+10608)				
::)		Quitab to light point 9 point to point wining	Rmtr	23703		
ii)		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). Cable should be of FAST, Newage or				
		universal cables and conduit should be of				
		Solo,popular,easyfit or equivalent as approved by engineer incharge				
		Supply and erection of single core PVC insulated				
	ch/24/	copper conductor cables in prelaid PVC pipe/M.S conduit G.I pipe/wooden strip batten/wooden				
а	10	casing and capping/G.I wire/trenches (rate for				
	(a(i))	cables only) i) Cost of 1x 1.5 mm (3/0.029")				
		Supply and erection of PVC pipe for wiring	RMtr	9342		
		recessed in walls,				
L	ch/24/	including inspection boxes, pull boxes, hooks,				
b	3 (ii)	cutting jharries, and repairing surface, etc., complete with all				
		specials.				
		ii) 20 mm i/d Switch to Switch	Rmtr	3114		
iii)		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).				
		Cable should be of FAST, Newage or universal				
		cables and conduit should be of Solo, popular, easyfit or equivalent as approved by engineer				
		incharge				
		Supply and erection of single core PVC insulated				
	ch/04/	copper 38.1 conductor cables, in prelaid PVC				
а	cn/24/	pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I.				
		wire/trenches (rate for cables only):-				
		a) 250/440 volts, PVC insulated:	DN 4+			
		iii) 7/0.74 mm (7/0.029") <mark>(6480)</mark>	RMtr			

				1	r	1
		Supply and erection of PVC pipe for wiring				
		recessed in walls, including inspection boxes, pull				
L .	ch/24/	boxes, hooks, cutting jharries, and repairing				
b	3 (iii)	surface, etc., complete with all specials.				
	- ()	iii) 25 mm i/d (2160)				
			Rmtr			
		Distribution board to General Purpose (
iv)		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 , 2&3				
		pin switched socket, stranded copper conductor				
		cables in concealed PVC conduit, including				
		conduit accessories, etc(conduit partly shared).				
		Cable should be of FAST, Newage or universal				
		cables and conduit should be of				
		Solo,popular,easyfit or equivalent as approved by				
		engineer incharge				
		Supply and erection of single core PVC insulated				
		copper conductor cables, in prelaid PVC				
	ch/24/	pipe/M.S. conduit/G.I pipe/wooden strip				
а	10 (a(iiii))	batten/wooden casing an capping/G.I. wire/trenches (rate for cables only):-				
	(a(iii))	a) 250/440 volts, PVC insulated:				
			RMtr			
		iii) 7/0.74 mm (7/0.029") (15795) Supply and erection of PVC pipe for wiring	RIVIT			
		recessed in walls, including inspection boxes, pull				
	ab/24/	, 0 1				
b	3 (iii)	boxes, hooks, cutting jharries, and repairing surface, etc., complete with all specials.				
	3 (III)	iii) 25 mm i/d (5265)				
		11) 20 mm //a (0200)	Rmtr			
V)		Socket to Socket	millu			
v)		Wiring from 5 Amps, 2&3 pin socket to socket with				
		3 nos. single core 2.5 Sgmm PVC insulated				
		450/750 Volts grade solid or stanerd copper				
		conductor cables in concealed PVC conduit				
		including PVC conduit,Conduit accessories, etc				
		complete. (conduit partly shared). Cable should be				
		of FAST, Newage or universal cables and conduit should be of Solo,popular,easyfit or equivalent as				
		approved by engineer incharge				
		Supply and araption of single care DV/C insulated				
		Supply and erection of single core PVC insulated				
	ah/04/	copper conductor cables, in prelaid PVC				
-	ch/24/	pipe/M.S. conduit/G.I pipe/wooden strip				
а	10	batten/wooden casing an capping/G.I.				
	(a(iii))					
		a) 250/440 volts, PVC insulated:				
		iii) 7/0.74 mm (7/0.029") (31824)	RMtr			
		Supply and erection of PVC pipe for wiring				
	- h /0.1/	recessed in walls, including inspection boxes, pull				
b	ch/24/	boxes, hooks, cutting jharries, and repairing				
	3 (iii)	surface, etc., complete with all specials.				
		iii) 25 mm i/d <mark>(10608)</mark>	Rmtr			

2		LT CABLES				
		Supply at site, installation, testing and				
		commissioning of PVC insulated armoured copper				
		conductor cable 600 / 1000 Volt grade (or				
		otherwise mentioned in cable description) in				
		prelaid conduits / trenches to be installed as per				
		routes shown on drawings including cost of all				
		necessary materials, connections, identification				
		tags, cables lugs properly crimped at both ends				
		for the following sizes complete in all respects. Actual length of cables to be installed shall be				
		practically measured at site by the Contractor,				
		duly authenticated by the Engineer before placing				
		the order with the manufacturer, however,				
		approximate length of cables are shown herewith.				
		Payments shall be made as per actual length				
		installed. Cable should be of FAST, Newage or				
		universal cables and conduit should be of				
		Solo,popular,easyfit or equivalent as approved by				
	-	engineer incharge				
		Supply and erection of copper conductor cables				
	ch/24/	for service connection, in prelaid pipe/G.I. wire/trenches, etc. (rate for cable only):-				
i)	13 (c-	c) PVC insulated, PVC sheathed 4 core, 660/1100				
	v)	volt non armoured cable:-				
		v) 6 mm sq (7/0.044")	R.Mtr	250		
		Supply and erection of copper conductor cables				
	ch/24/	for service connection, in prelaid pipe/G.I.				
i)	13 (c-	wire/trenches, etc. (rate for cable only):-				
.,	vi)	c) PVC insulated, PVC sheathed 4 core, 660/1100				
	,	volt non armoured cable:-	D M/s	000		
		vi) 10 mm sq (7/0.052")	R.Mtr	220		
		Supply and erection of copper conductor cables for service connection, in prelaid pipe/G.I.				
	ch/24/	wire/trenches, etc. (rate for cable only):-				
i)	13 (c-	c) PVC insulated, PVC sheathed 4 core, 660/1100				
1	vii)	volt non armoured cable:-				
		vii) 16 mm sq (7/0.064")	R.Mtr	290		
		Supply and erection of copper conductor cables				
	ch/24/	for service connection, in prelaid pipe/G.I.				
ii)	13 (c-	wire/trenches, etc. (rate for cable only):-				
′	viii)	c) PVC insulated, PVC sheathed 4 core, 660/1100				
1	Í	volt non armoured cable:-	D M+r	280		
├ ──	ł	viii) 25 mm sq (19/0.052") Supply and erection of copper conductor cables	R.Mtr	200	L	
		for service connection, in prelaid pipe/G.I.				
	ch/24/	wire/trenches, etc. (rate for cable only):-				
iii)	13 (c-	c) PVC insulated, PVC sheathed 4 core, 660/1100				
	xiii)	volt non armoured cable:-				
		xiii) 120 mm sq (37/0.83")	R.Mtr	150		
		Supply and erection of copper conductor cables				
	ch/24/	for service connection, in prelaid pipe/G.I.				
iv)	13 (c-	wire/trenches, etc. (rate for cable only):-				
,	xiv)	c) PVC insulated, PVC sheathed 4 core, 660/1100				
1		volt non armoured cable:-		150		
		xiv) 150 mm sq (37/0.93") Supply and erection of copper conductor cables	R.Mtr	150		
		for service connection, in prelaid pipe/G.I.				
	ch/24/	wire/trenches, etc. (rate for cable only):-				
V)	13 (c-	c) PVC insulated, PVC sheathed 4 core, 660/1100				
	xv)	volt non armoured cable:-				
		xv) 185 mm sq (37/0.103")	R.Mtr	100		
		Supply and erection of copper conductor cables				
	ch/24/	for service connection, in prelaid pipe/G.I.				
vi)	13 (c-	wire/trenches, etc. (rate for cable only):-				
	xvi)	c) PVC insulated, PVC sheathed 4 core, 660/1100				
	,	volt non armoured cable:-		150		
L	L	xvi) 240 mm sq (37/0.114")	R.Mtr	150		ļ

3		GROUNDING SYSTEM				
i)		Grounding Cables	<u> </u>			
		Supply at site, installation, testing and				
		commissioning of PVC insulated non armoured				
		copper conductor cable 450/ 750 Volt grade (or				
		otherwise mentioned in cable description) in				
		prelaid conduits / trenches to be installed as per				
		routes shown on drawings including cost of all				
		necessary materials, connections, identification				
		tags, cables lugs properly crimped at both ends				
		for the following sizes complete in all respects.				
		Actual length of cables to be installed shall be				
		practically measured at site by the Contractor,				
		duly authenticated by the Engineer before placing				
		the order with the manufacturer, however,				
		approximate length of cables are shown herewith.				
		Payments shall be made as per actual length installed. Cable should be of FAST, Newage or				
		universal cables and conduit should be of				
		Solo,popular,easyfit or equivalent as approved by				
		engineer incharge				
		Supply and erection of single core PVC insulated,				
		PVC				
		sheathed copper conductor, 660/1100 volts grade				
2		cable, in				
а	12 (ii)	prelaid G.I. pipe/M.S. conduits/PVC pipe/G.I.				
		wire/trenches,				
		etc (rate for cable only):-				
		ii) 6 mm sq (7/0.044")	R.Mtr	640		
		Supply and erection of single core PVC insulated,				
		PVC				
	ah/24/	sheathed copper conductor, 660/1100 volts grade				
b		cable, in prelaid G.I. pipe/M.S. conduits/PVC pipe/G.I.				
	12 (10)	wire/trenches,				
		etc (rate for cable only):-				
		iv) 16 mm sq (7/0.064")	R.Mtr	80		
		Supply and erection of single core PVC insulated,				
		PVC				
	ch/24/	sheathed copper conductor, 660/1100 volts grade				
с	12	cable, in				
Ŭ	(vii)	prelaid G.I. pipe/M.S. conduits/PVC pipe/G.I.				
	(•)	wire/trenches,				
		etc (rate for cable only):-		400		
		vii) 50 mm sq (19/0.072") Supply and erection of single core PVC insulated,	R.Mtr	100		
		PVC				
		sheathed copper conductor, 660/1100 volts grade				
	ch/24/	cable, in				
d	12	prelaid G.I. pipe/M.S. conduits/PVC pipe/G.I.				
	(viii)	wire/trenches,				
		etc (rate for cable only):-				
		viii) 70 mm sq (19/0.083")	R.Mtr	100		
		Supply and erection of single core PVC insulated,				
		PVC				
		sheathed copper conductor, 660/1100 volts grade				
е		cable, in				
Ĭ	12 (ix)	prelaid G.I. pipe/M.S. conduits/PVC pipe/G.I.				
		wire/trenches,				
		etc (rate for cable only):-	D M4	100		
		ix) 95 mm sq (37/0.072") Supply and erection of single core PVC insulated,	R.Mtr	100		
		PVC				
		sheathed copper conductor, 660/1100 volts grade				
	ch/24/	cable, in				
f		prelaid G.I. pipe/M.S. conduits/PVC pipe/G.I.				
	(wire/trenches,				
		etc (rate for cable only):-				
		x) 120 mm sq (37/0.083")	R.Mtr	150		
4		CONDUITS, PIPES, DUCT , CABLE TRAYS,				
		FIXING CLAMPS AND FIXING				
1		ARRANGEMENTS				

		Supply, installation, testing and commisiioning of				
		following conduits laid under floor for telephone/				
		data cables, optical fiber cables, Sub main power				
		cables & earth cables including all conduit				
		accessories. The PVC conduits shall be laid				
		under floor including chiseling and cutting of floor				
		· · ·				
		for required dimensions, laying of conduit,				
		backfilling of remaining cavity with CC as				
		specified for floor in that area, making good,				
		complete in all respect. conduit made of solo,				
		popular, easyfit or equivalent as approved by				
		engineer incharge.				
i)		PVC Conduit				
		Supply and erection of PVC pipe for wiring				
		recessed in walls, including inspection boxes, pull				
	ch/24/	boxes, hooks, cutting jharries, and repairing				
		surface, etc., complete with all specials.				
	- ()	iii) 25 mm i/d				
а		, - ···· · · · · · · · · · · · · · · · ·	Rmtr	550		
- u	1	Supply and erection of PVC pipe for wiring			1	1
		recessed in wall including inspection boxes pull				
h	ch/24/	÷				
b	6 (i)	boxes, hooks, cutting jharries, and repairing				
	, í	surface, etc, complete with all specials	D . (000		
		ii) Cost of 50mm	Rmtr	280		
		Supply and erection of PVC pipe for wiring				
	ch/24/	recessed in wall including inspection boxes pull				
с	6(ii)	boxes, hooks, cutting jharries, and repairing				
	0(11)	surface, etc, complete with all specials				
		ii) Cost of 80mm	Rmtr	50		
		Supply and erection PVC pipe for recessed wiring				
	ch/24/	(main and 38.2 &				
d		38.3 sub-main) purpose, including bends,				
	6 (iii)					
1	. ,	specials, etc. in floor, wall or trenches:-				
	()	specials, etc. in floor, wall or trenches:- iii) Cost of 100mm	Rmtr	550		
5		iii) Cost of 100mm	Rmtr	550		
5		iii) Cost of 100mm DISTRIBUTION BOARDS	Rmtr	550		
5		iii) Cost of 100mm DISTRIBUTION BOARDS Supply at site, fabrication, installation, testing and	Rmtr	550		
5		iii) Cost of 100mm DISTRIBUTION BOARDS Supply at site, fabrication, installation, testing and commissioning of Distribution Board (DB), made	Rmtr	550		
5		iii) Cost of 100mm DISTRIBUTION BOARDS Supply at site, fabrication, installation, testing and commissioning of Distribution Board (DB), made of sheet steel 16 SWG, degreased and derusted,	Rmtr	550		
5		iii) Cost of 100mm 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	Rmtr	550		
5		iii) Cost of 100mm 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	Rmtr	550		
5		iii) Cost of 100mm 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	Rmtr	550		
5		iii) Cost of 100mm 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,	Rmtr	550		
5		iii) Cost of 100mm 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	Rmtr	550		
5		iii) Cost of 100mm 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	Rmtr	550		
5		iii) Cost of 100mm 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	Rmtr	550		
5		iii) Cost of 100mm 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	Rmtr	550		
5		iii) Cost of 100mm 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	Rmtr	550		
5		iii) Cost of 100mm 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	Rmtr	550		
5		iii) Cost of 100mm 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,	Rmtr	550		
5		iii) Cost of 100mm 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	Rmtr	550		
5		iii) Cost of 100mm 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	Rmtr	550		
5		iii) Cost of 100mm 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	Rmtr	550		
5		iii) Cost of 100mm 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	Rmtr	550		
5		iii) Cost of 100mm 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	Rmtr	550		
5		iii) Cost of 100mm 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,	Rmtr	550		
5		iii) Cost of 100mm 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	Rmtr	550		
5		iii) Cost of 100mm 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,	Rmtr	550		
5		iii) Cost of 100mm 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 engineer incharge.	Rmtr	550		
5		iii) Cost of 100mm 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 engineer incharge. All MCCBs shall be suitable to operate without	Rmtr	550		
5		iii) Cost of 100mm 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 engineer incharge. All MCCBs shall be suitable to operate without any derating at 40°C ambient temperature and	Rmtr	550		
5		iii) Cost of 100mm 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 engineer incharge. All MCCBs shall be suitable to operate without	Rmtr	550		
5		iii) Cost of 100mm 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 engineer incharge. All MCCBs shall be suitable to operate without any derating at 40°C ambient temperature and	Rmtr	550		
5		 iii) Cost of 100mm 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 engineer incharge. All MCCBs shall be suitable to operate without any derating at 40°C ambient temperature and shall be of one make only. The sides of MDB shall 	Rmtr	550		
5		iii) Cost of 100mm 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 engineer incharge. All MCCBs shall be suitable to operate without any derating at 40°C ambient temperature and shall be of one make only. The sides of MDB shall also have louvers at bottom and top on sides of	Rmtr	550		
5		iii) Cost of 100mm 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 engineer incharge. All MCCBs shall be suitable to operate without any derating at 40°C ambient temperature and shall be of one make only. The sides of MDB shall also have louvers at bottom and top on sides of panel for hot air exhaust, wire mesh etc. The back of the panel shall be lockable door instead of	Rmtr	550		
5		 iii) Cost of 100mm 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 engineer incharge. All MCCBs shall be suitable to operate without any derating at 40°C ambient temperature and shall be of one make only. The sides of MDB shall also have louvers at bottom and top on sides of panel for hot air exhaust, wire mesh etc. The back of the panel shall be lockable door instead of bolted and shall conform to single line diagram. 	Rmtr	550		
5		 iii) Cost of 100mm 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 engineer incharge. All MCCBs shall be suitable to operate without any derating at 40°C ambient temperature and shall be of one make only. The sides of MDB shall also have louvers at bottom and top on sides of panel for hot air exhaust, wire mesh etc. The back of the panel shall be lockable door instead of bolted and shall conform to single line diagram. item should be of Schneider, Terasaki or 	Rmtr	550		
5		 iii) Cost of 100mm 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 engineer incharge. All MCCBs shall be suitable to operate without any derating at 40°C ambient temperature and shall be of one make only. The sides of MDB shall also have louvers at bottom and top on sides of panel for hot air exhaust, wire mesh etc. The back of the panel shall be lockable door instead of bolted and shall conform to single line diagram. 	Rmtr	550		

i)		MAIN-DB HVAC			
<u> </u>		P/F floor mounted Electric Panel board of required			
		depth and size, fabricarted with 14SWG M.S			
		sheet (Indoor/Outdoor Type), derusting, zinc			
		Phosphated, finish with electro static powder			
		coating in approved colour i/c the cost of Lock,			
		Indication lights, thimbles, Copper Comb, Wiring,			
		Netural & Earth Bar, glands, Current Transformers			
		of specified capacity ,Door Earthing, Brass			
	ii)	glands,bus bars,controles complete in all respects			
		as approved and directed by the Engineer			
		Incharge (Breakers will be Paid Separately).			
		i) LT Switchboards			
		(a) 2.50 Ft deep			
		(ii)800~1200A			
			CFT	9	
		INCOMING			
		Supplying, Installation and commissioning of			
		MCCB (Moulded Case Circuit Breaker) of			
		specified rating made of LEGRAND FRANCE/ GE			
		U.S.A / SCHNEIDER GERMANY / TERASAKI			
		JAPAN/ABB SWITZERL(with adjustable Thermal-			
	ch24-	Magnetic Trip) in prelaid DBs and Panels i/c the			
	88/(a-	cost of screws, necessary wire complete in all			
	x)	respect as approved and directed by the Engineer			
	-	Incharge.			
		Tripple Pole With Adjustable Thermal-Magnetic Trip /Electronic			
		Trip (60-100%)			
		(x) 630-1600 Amp(50 KA)	Each	1	
		OUTGOING	Latin	1	
		Supplying Installation and commissioning of			
		MCCB (Moulded Case Circuit Breaker) of			
		specified rating made of LEGRAND FRANCE/ GE			
		U.S.A / SCHNEIDER GERMANY / TERASAKI			
		JAPAN/SIEMEN/ABB			
		SWITZERLAND (with fixed Thermal-Magnetic Trip			
) in prelaid DBs and Panels i/c the cost of screws,			
		necessary wire complete in all respect as			
		approved and directed by the Engineer Incharge			
	ch24-	a) Triple Pole			
		(vi) 125-250 Amp (25 KA)			
	vi)		Each	2	
	ch24-	a) Triple Pole			
	87/(a-	(x) 300-630 Amp(36 KA)			
	x)		Each	2	
ii)		MAIN-DB			
		P/F floor mounted Electric Panel board of required			
		depth and size, fabricarted with 14SWG M.S			
		sheet (Indoor/Outdoor Type),derusting, zinc			
		Phosphated, finish with electro static powder			
		coating in approved colour i/c the cost of Lock,			
		Indication lights,thimbles, Copper Comb, Wiring,			
	ch24-	Netural & Earth Bar, glands, Current Transformers			
	91(a-i)	of specified capacity ,Door Earthing, Brass			
	5.(0.1)	glands,bus bars,controles complete in all respects			
		as approved and directed by the Engineer			
		Incharge (Breakers will be Paid Separately).			
		i) LT Switchboards			
		(a) 2.50 Ft deep			
		(i) 300~600A	0		
1	1		CFT	9	

INCOMING INCOMING INCOMING Image: Second S						1
MCCB (Moulded Case Circuit Breaker) of USA / SCINEIDER GERMANY / TERASKI USA / SCINEIDER GE			INCOMING			
MCCB (Moulded Case Circuit Breaker) of USA / SCINEIDER GERMANY / TERASKI USA / SCINEIDER GE			Supplying Installation and commissioning of			
specified rating made of LEGRAND FRANCE (GEUSA / SCINED SERMINAY) TERASAKI br24 JAPANSEMENNABB br27 SVITZERLAND (with fixed Thermal-Magnetic Trip) br37 Jin prelat DBs and Panels to the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer incharge, a) tripple Pale c) UTGOING Each 1 d) COLTGOING Each 1 d) Supplying Installation and commissioning of the screws, necessary wire complete in all respect to a specified rating made of LEGRAND FRANCE/ GEUSA / SCINNED/BEB SWITZERLAND (with fixed Thermal-Magnetic Trip) In preliad DBs and Panels to the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer incharge title DB-GF-01 Each 18 iii) DD-GF-01 Each 18 iii) DD-GF-01 Each 18 iii) DD-GF-01 Each						
U.S.A./ SCI-NEIDER GERMANY / TERASAKI ubca. PANSIEMENNABB BYTZERLAND (with fixed Thormal-Magnetic Trip) Impelial DBs and Presib /c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer incharge. a) BYTZERLAND (with fixed Thormal-Magnetic Trip) Each 1 BYTZERLAND (with fixed Thormal-Magnetic Trip) Each 1 BYTZERLAND (with fixed Thormal-Magnetic Trip) Impelial DBs and o LEGRAND FRANCE; GE Impelial DBs and o LEGRAND FRANCE; GE BYTZERLAND (with fixed Thormal-Magnetic Trip) Impelial DBs and Panels /c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer incharge Impelial DBs and Panels /c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer incharge Bit DB-GF01 Impelial DBs and panels /c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer incharge Impelial DBs and panels /c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer incharge Bit DB-GF01 Impelial DBs and Panels /c the cost of screws, necessary wire completer, Digital United, Distribution Board) made with Current Transformers and Controles Complete mall respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately), in prelial DBs and Panels /c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer incharge approved and directed by the Engineer incharge approved and directed by the Engineer incharge approved and dire						
ch24 JAPANUSIEKENNABE ch25 BY70a j) in preliat DBs and Panels to the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer incharge, a) triple Pole a) Triple Pole Control Beneficient (Control Beneficient) of specific rating made of LEGRAND FRANCE/ GE U.SA/MERNAWY TERASAKI b) APANUSIEKENNABE Supplying, Installation and commissioning of MCCB (Moulded Case Circuit Benefic) of specific rating made of LEGRAND FRANCE/ GE U.SA/MERNAWY TERASAKI synphysical control Beneficient (Control Benefic) of specific rating made of LEGRAND FRANCE/ GE U.SA/MERNAWY TERASAKI synphysical control Beneficient (Control Benefic) of specific rating made of LEGRAND Franker (Control Benefic) and respect as approved and directed by the Engineer Incharge ch24 = a) Triple Pole B70(4= (1) 15-100 Amp (10 KA, 15 KA) ii) DB-GF-01 iii) DB-GF-01 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td></t<>						
CH24- B771a- 3 SWITZERLAND (with fixed Thermal-Magnetic Trip proved and directed by the Engineer Incharge. a) Tripple Pole (x) 300-830 Amp (36 KA) Each 1 CUTGOING OUTGOING Each 1 Main Coll Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/GE U.S. A SCHNEUDER GERMANY / TRRASAKI JAPAN/SIEMENIABB SUpplying, Installation and commissioning of MCCEB Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/GE U.S. A SCHNEUDER GERMANY / TRRASAKI JAPAN/SIEMENIABB SWITZERLAND (with fixed Thermal-Magnetic Trip) in preliad DBs and Panels ic the cost of screws, necessary wite complete nall respect as approved and directed by the Engineer Incharge B10 DB-BF-01 Each 18 B11 DB-BF-01 Each 18 B12 DB-BF-01 Each 18 B13 DB-BF-01 Each 18 B14						
B7(a): SWILZERAWD (with itsed itermal-Magnetic Irp) itermal-Magnetic Irp) A preliad DBs and Panels (: the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge. itermal B 0.010000000000000000000000000000000000		ah 0.4				
or/a in preliat DBs and Panels ic the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge. a) Triple Pole a) Triple Pole correction of the engineer Incharge. a) a) CUTGOING Each 1 correction of the engineer Incharge. a) correction of the engineer Incharge. correction of the engineer Incharge. a) correction of the engineer Incharge. correction of the engineer Incharge. a) correction of the engineer Incharge. ch24 a) Triple Pole correction of the engineer Incharge. correction of the engineer Incharge. ch24 a) Triple Pole correction of the engineer Incharge. correction of the engineer Incharge. ch24 a) Triple Pole correction of the engineer Incharge. correction of the engineer Incharge. ch24 a) Triple Pole correction of the engineer Incharge. correction of the engineer Incharge. ch24 a) Triple Pole correction of the engineer Incharge. correction of the engineer Incharge. ch24 a) Triple Pole correction of the engineer Incharge. correction of the engineer Incharge. ch24 eth Bar. Door Earthing. Digital Voltmeer. Digital Andinecided Dighe Engineer Incharge. correct		-	SWITZERLAND (with fixed Thermal-Magnetic Trip			
X1 necessary wire complete in all respect as an Tropic Pole x3 Tropic Pole x4 300-633 Amp (36 KA) Each 1 X4 Supplying, Installation and commissioning of MCCE (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S. A SCH-NEDRE GERMANY / TERASAKI JAPANSIEMENABB SWTZETELAND (with fixed Thermal-Magnetic Trip) in preliad DBs and Panels i/o the cost of screws. necessary wire complete in all respect as approved and directed by the Engineer Incharge ch24. a) Tripic Pole (b) 10 90-67-01 (b) 11 90-67-01 (b) 11 90-67-01 (ch24. a) Tripic Pole (ch2		87/(a-				
approved and directed by the Engineer Incharge. (1) 3300-330 Amp (36 KA) Each 1 DUTGOING Each 1 MCCB (Moulded Case Circuit Breaker) of Specifier ating made of LEGRAND FRANCE/CE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPANISIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip)in preliai DBs and Panels ic the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge ch24- a) Triple Pole B7(a; (ii) 15-100 Amp (10 KA, 15 KA) Each 18 iii) DB-GF-01 PF wall mounted DB (Distribution Board) made with 165WG Sheet Recesseded/Surface mounted Type), Powder casted Paint, lic the cost of screws, nore Earthing, Digital Voitmeter, Digital other than the screen scheduler of the paint which, Current Transformets and Controlesced by the Engineer Incharge (Breakers will be Paid Septients), Interspect as approved and directed by the Engineer Incharge (Breakers will be Paid Septients), Interspect as approved and directed by the Engineer Incharge (Breakers will be Paid Septients), Interspect as approved and directed by the Engineer Incharge (Breakers will be Paid Septients), Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of Septient Septient, Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of Septient Tring probind Panels (ic the cot of screws, necessary wire complete In all respect as a Tropple Pole (i) 15-100 Amp (10 KA, 15KA) Each 1		X)				
a) Tripple Pole Each 1 B) UTGOING Each 1 COUTGOING Supplying, Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPANSIEMENIABB SWITZERLAND (with fixed Thermal-Magnetic Trip) in preliaid DBs and Panels it: the cost of screws. necessary wire complete in all respect as approved and directed by the Engineer Incharge ch24+ a) Triple Pole ST(A= (1) 15-100 Amp (10 KA, 15 KA) Each 18 ii) DB-GF-01 PF wall mounted DB (Distribution Board) made with 155WG Sheet (Recessaded/Surface mounted Type), Powder coated Paint, it the cost of Jacch Unterter. Digital Ammeter, volt Salector Switch, Ammeter selector 3004- switch, Current Transformers and Controles 10 iii) DB-GF-01 With Engineer Incharge (Breakers will be Paid Separately). 6) 67 deep (i) 75-100A cp2+ Ammeter, Volt Salector Switch, Ammeter selector 3004- switch, Current Transformers and Controles 10 witch.Current Transformers and Controles 10 Supplying, Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPANSIEMEN/ABB 1 witch.Current Transformers and Controles circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPANSIEMEN/ABB 1 witch.Curent Transformers and Contro			, , ,			
(i) 300-830 Amp (36 KA) Each 1 OUTGOING Each 1 Supplying, Installation and commissioning of MCCB (Moulded Case Circuit) Breaker) of specified rating made of LEGRAND FRANCE/GE U.S.A / SCHNEIDER GERMANY / TERASAKI J.APANSIEMEN/NABB Image: Complete in all respect as approved and directed by the Engineer incharge ch24- a) Trpile Pole R7(4+ (ii) 15-100 Amp (10 KA, 15 KA) Each 18 iii) DE-GF-01 Immetry v15 Sepand and directed v100, Englist						
Each 1 OUTGOING Each 1 Supplying, Installation and commissioning of MCCE (Moulded Case Circuit Breaker) of specified raing made of LEGRAND FRANCE/ GE U.S. A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip) in prelaid DBs and Panels i/ the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge ch24- ii) DB-GF-01 DB-GF-01 Each 18 P/F wall mounted DB (Distribution Board) made with 15SWG Shoet (Recessade/Surface mounted Type), Powder coated Paini, Lich te cost of Lock, Nothertor, Digital Ammeter, Volt Selector Switch, Ammeter selector 906- 906- 906- 906- 906- 906- 9076- 90774 Mounted DB (Distribution Board) made with 15SWG Shoet (Recessde/Surface mounted Type), Powder coated Paini, Lich ecost of Lock, Nothertor, Digital Ammeter, Volt Selector Switch, Ammeter selector 906- 906- 906- 906- 90774 Mounted Type), Powder coated Paini, Lich ecost of Lock, Nothertor, Digital 9074- 9074 B DB-GF-01 Mounted Type), Powder coated Paini, Lich ecost of Lock, Nothertor, Digital 9074- 9074 Mounted Steparately, 9074- 9074 B DB-GF-01 Distribution Board Painels ich te cost of screws, 9074- 9074 Powder 9074- 9074 B DB-GF-01 Distribution Board Painels ich te cost of screws, 9074- 9074 Powder 9074- 9074 B Distribution Board Painels ich te cost of screws, 90740 Distribution Board Painels ich te cost of screws, 90740 Powder 9074- 9074 B Distributich and commissioning of MCD 90740- 90740			a) Tripple Pole			
Each 1 OUTGOING Each 1 Supplying, Installation and commissioning of MCCE (Moulded Case Circuit Breaker) of specified raing made of LEGRAND FRANCE/ GE U.S. A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip) in prelaid DBs and Panels i/ the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge ch24- ii) DB-GF-01 DB-GF-01 Each 18 P/F wall mounted DB (Distribution Board) made with 15SWG Shoet (Recessade/Surface mounted Type), Powder coated Paini, Lich te cost of Lock, Nothertor, Digital Ammeter, Volt Selector Switch, Ammeter selector 906- 906- 906- 906- 906- 906- 9076- 90774 Mounted DB (Distribution Board) made with 15SWG Shoet (Recessde/Surface mounted Type), Powder coated Paini, Lich ecost of Lock, Nothertor, Digital Ammeter, Volt Selector Switch, Ammeter selector 906- 906- 906- 906- 90774 Mounted Type), Powder coated Paini, Lich ecost of Lock, Nothertor, Digital 9074- 9074 B DB-GF-01 Mounted Type), Powder coated Paini, Lich ecost of Lock, Nothertor, Digital 9074- 9074 Mounted Steparately, 9074- 9074 B DB-GF-01 Distribution Board Painels ich te cost of screws, 9074- 9074 Powder 9074- 9074 B DB-GF-01 Distribution Board Painels ich te cost of screws, 9074- 9074 Powder 9074- 9074 B Distribution Board Painels ich te cost of screws, 90740 Distribution Board Painels ich te cost of screws, 90740 Powder 9074- 9074 B Distributich and commissioning of MCD 90740- 90740			(x) 300-630 Amp (36 KA)			
Image: constraints of the second se				Each	1	
Supplying _Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/GE U_S A/ SCHNEDRER GERMANY / TERASAKI UAPANISIEMENABB SWITZERLAND (with fixed Thermal-Magnetic Trip) in prelated DBs and Panels ic the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge ch24: a) Triple Pole g7/te (ii) 15-100 Amp (10 KA, 15 KA) ii) Each 18 iii) DB-GF-01 P/F wall mounted DB (Distribution Board) made with 16SWC Sheet (Recessede/Surface mounted Type), Powder ceated Paint, i/c the cost of Lock, Indication lights, Thimble, Copper Comb, Wining, Netural & Each 18 iii) DB-GF-01 P/F wall mounted DB (Distribution Board) made with 16SWC Sheet (Recessede/Surface mounted Type), Powder ceated Paint, i/c the cost of Lock, Indication lights, Thimble, Copper Comb, Wining, Netural & Each 18 object Defactor Switch, Ammeter selector witch, Current Transformers and Controles 09(e); witch, Current Transformers and Controles 09(e); witch, Current Transformers and Controles 09(e); witch, Current Transformers and Controles 09(e); witch, Class (Moulde Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/GE U_S A/ SCHNEDDER GERMANY / TERASAKI UAPAN/SIEMENABB WITZERLAND (With fixed Thermai-Magnetic Trip in prelation and complete in all respect as approved and directed by the Engineer Incharge. 0) Tripple Pole (ii) 15-100 Amp (10 KA,15KA) Each 1 UTGOINE Each 1 UTGOINE Supplying, Installation and commissioning of MCB (Wintarue Circuit Breaker) of specified rating made of LEGRAND FRANCE/GE U_S A/ SCHNED				Each		
MCCCB (Moulded Case Circuit Breaker) of Boender ating made of LEGRAND FRANCE/GE U.S.A./ SCI-NEIDER OERMANY / TERASAKI U.A.PAN/SIEMENABB SWITZERLAND (with fixed Thermal-Magnetic Trip) in prelaid DBs and Panels ic the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge ch24: a) Triple Pole 87(-6: (i) 15-100 Amp (10 KA, 15 KA) ii) DB-GF-01 iii) Copper Comb, Wining, Netural & Each iii) Copper Comb, Wining, Netural & Separately, 1 iii) Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately), 1 iii) Supplying, Installation and commissioning of MCCE (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/GE U.S.A / SCHNELDER GERMANY / TERASAKI dr24, J.AFANSIEMENABB 30(a: SWITZERLAND (with fixed Thermal-Magnetic Trip i) n prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approve						
specified rating made of LEGRAND FRANCE/ GE USA / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB SWTZERLAND (with fixed Thermal-Magnetic Trip) in prelated DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge 87/24. (ii) 15-100 Amp (10 KA, 15 KA) Each 18 10) DB-GF-01 Each 18 110) DB-GF-01 Each 18 111) DB-GF-01 Each 18 112) DB-GF-01 Each 18 113) DB-GF-01 Each 18 114) DB-GF-01 Each 18 115) DB-GF-01 Each 18 111 DB-GF-01 Each 18 112 DF-Greger Come, Wing, Netural & Coated Paint, Uc the cost of Lock, Indication uights, Timible, Coper Come, Wing, Netural & Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately). (a) 6' deep (ii) 75-100 A CFT 9 11 Supplying, Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE Los A/ SCHNEDFR GERMANY / TERASAKI JAPAN/SIEMEN/ABB Each 1 11 Supplying, Installation and comissioning of MCB (ii) 15-100 Amp (10 KA,15KA) Each 1						
iii. J. A. / SCHWEIDER GERMANY / TERASAKI JPANX/SIEME/NABB SWITZERLAND (with fixed Thermal-Magnetic Trip in preliad DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge ch24 a) Triple Pole d7(14c (10) 15-100 Amp (10 KA, 15 KA) ii) Each 18 iii) DB-GF-01 18 iii) P/F wall mounted DB (Distribution Board) made with 16SWG Sheet (Recessedd/Surface mounted Type), Powder coated Paint, i/c the cost of Lock, Indication lights. Thimble, Copper Comb, Wiring, Netural & coated Paint, i/c the cost of Lock, Indication lights. Thimble, Copper Comb, Wiring, Netural & coated Paint, i/c the cost of Lock, Indication lights. Thimble, Copper Comb, Wiring, Netural & coated Paint, i/c the cost of Lock, Indication lights. Thimble, Copper Comb, Wiring, Netural & complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately). P iii) NCOMING CFT 9 iiii Supplying, Installation and commissioning of specified rating made of LEGRAND FRANCE/ GE Los A/ SCHNEDR GERMANT / TERASAKI JAPAN/SIEMEN/ABB Each 1 SWITZERLAND (with fixed Thermal-Magnetic Trip in preliad DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer incharge. Each 1 Iiii OUTGOING Each 1 CH24<			MCCB (Moulded Case Circuit Breaker) of			
JAPANSIEMEN/ABB JAPANSIEMEN/ABB iii) VITZERLAND (with fixed Thermal-Magnetic Trip) in preliad DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge iii) DB-GF-01 iiii) Checked iiii) DB-GF-01 iiiii: Checked iiii: Checked iiii: Checked iii: Checked iii: Checked iii: Checked iii: Checked iii: Che			specified rating made of LEGRAND FRANCE/ GE			
JAPANSIEMEN/ABB JAPANSIEMEN/ABB iii) VITZERLAND (with fixed Thermal-Magnetic Trip) in preliad DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge iii) DB-GF-01 iiii) Checked iiii) DB-GF-01 iiiii: Checked iiii: Checked iiii: Checked iii: Checked iii: Checked iii: Checked iii: Checked iii: Che			U.S.A / SCHNEIDER GERMANY / TERASAKI			
SWITZERLAND (with fixed Thermal-Magnetic Trip) in preliad DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge ch24 a) Triple Pole 87/(4c) (ii) 15-100 Amp (10 KA, 15 KA) ii) DB-OF-01 iii) DB-OF-01 iiii) DB-OF-01 iiiiii Coated Planit, it the cost of Lock, Indication lights. Thimble, Copper Comb, Wiring, Netural & ch24. Ammeter, VOIS Delector Switch, Ammeter selector switch, Current Transformers and Controles complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately). iii) Complet in all respect as approved and directed by the Engineer Incharge. iii) Supplying Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating mate of LEGRAND FRANCE/ GE U.S.A. SCHNEIDER GERMANY TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip i) Fingle Pole iii) DuFol OAmp (10 KA, 15KA) Each						
i) in preliatio DBs and Panels //c the cost of screws. necessary wire complete in all respect as approved and directed by the Engineer Incharge iii) DB-GF-01 iii) DB-GF-01 PF wall mounted DB (Distribution Board) made with 16SWG Sheet (Recessed/Straface mounted Type), Powder coated Paint, i/c the cost of Lock, Indication lights. Thimble, Copper Comb, Wring, Netural & Earth Bar, Door Earthing, Digital Voltmeter, Digital dch24 90(a gits, Thimble, Copper Comb, Wring, Netural & Earth Bar, Door Earthing, Digital Voltmeter, Digital mmeter, Vol. Selector Switch, Ammeter selector switch, Current Transformers and Controles gits, Thimble, Copper Comb, Nameter selector switch, Current Transformers and Controles iii) De Berger Incharge (Breakers will be Paid Separately), (a 6 deep (ii) 75-100A ch24 Supplying, Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/MBB SWITZERLAND (with fixed Thermal-Magnetic Trip First F						
ch24 a) Triple Pole a) (1) a) Triple Pole a) (1) b) 10 (1) ch24- (1) ch24- (1) ch124- (1) complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately). (2) (2) (2) (3) (3) c) 100A (2) Supplying.Installation and commissioning of MCCE (Guouided Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI (1) D) apple Jole a) Triple Pole (1) i) notelaid DB and Panelsi / the cost of screws, necessany wire complete in al						1
ch24 approved and directed by the Engineer Incharge						
ch24 approved and directed by the Engineer Incharge			necessary wire complete in all respect as			
ch2 a) Triple Pole B7/(a) (i) 15-100 Amp (10 KA, 15 KA) ii) DB-GF-01 iii) DB-GF-01 P/F wall mounted DB (Distribution Board) made with 165WG Sheet (Recessded/Surface mounted Type), Powder coated Paint, iv the cost of Lock, Indication lights. Thimble, Copper Comb, Wing, Netural & Earth Bar, Door Earthing, Digital Voltmeter Digital Ammeter, Volt Selector Switch. Ammeter selector witch.Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately), (a) 6° deep (ii) 75-100A Supplying, Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A. SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMNABB SWITZERLAND (with fixed Thermal-Magnetic Trip i) SWIT/(a- i) SWITZERLAND (with fixed Thermal-Magnetic Trip i) SWITZERLAND (with fixed Thermal-Magnetic Trip ii) SWITZERLAND (with fixed Thermal-Magnetic Trip ii) SWITZERLAND (with fixed Thermal-Magnetic Trip ii) SWITZERLAND (with fixed Thermal-Magnetic Trip iii) SUTGOING SUTGOING SUPpling.Installation and comissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A./ SCHNEIDER GERMANT / SIEMEN GERMANTERASKI JAPAN / ABB SWITZERLAND in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge. ch24- a) Single Pole 88(6e (b) 6-40 Amp (6 KA)						1
87/(a- i)) ib DB-GF-01 Each 18 iii) DB-GF-01 Ib Ib iii) DB-GF-01 Ib Ib iii) P/F wall mounted DB (Distribution Board) made with 15SWG Sheet (Recessded/Surface mounted Type), Powder (Recessded/Surface mounted Type), Powder (Recessary with the Construction switch.Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately), (a) 6° deep (i) 75-100A CFT 9 INCOMING CFT 9 Supplying .Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge. a) Tripple Pole (i) 15-100 Amp (10 KA,15KA) Each 1 UTGOING Ib Ib Ib Ampleter SWITZERLAND in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer incharge. Each 1 Image: Image Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY /SIEMEN GERMAN/TERASAKI JAPAN/ ABB SWITZERLAND in prelaid DBs and Panels i						1
87/(a- i)) ib DB-GF-01 Each 18 iii) DB-GF-01 Ib Ib iii) DB-GF-01 Ib Ib iii) P/F wall mounted DB (Distribution Board) made with 15SWG Sheet (Recessded/Surface mounted Type), Powder (Recessded/Surface mounted Type), Powder (Recessary with the Construction switch.Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately), (a) 6° deep (i) 75-100A CFT 9 INCOMING CFT 9 Supplying .Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge. a) Tripple Pole (i) 15-100 Amp (10 KA,15KA) Each 1 UTGOING Ib Ib Ib Ampleter SWITZERLAND in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer incharge. Each 1 Image: Image Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY /SIEMEN GERMAN/TERASAKI JAPAN/ ABB SWITZERLAND in prelaid DBs and Panels i	┝───┤	ah 0.4	a) Tripla Dala			 <u> </u>
ii) DB-GF-01 iii) DB-GF-01 vith 16SWG Sheet P/F wall mounted DB (Distribution Board) made with 16SWG Sheet (Recessed:GVSurface mounted Type), Powder coated Paint, Vic the cost of Lock, Indication lights. Timble, Copper Comb, Wiring, Netural & Earth Bar, Door Earthing, Digital Voltmeter,Digital Ammeter, Volt Selector Switch, Armmeter selector switch, Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately). (a) 6' deep (i) 75-100A VCDMING CFT VCCMING Supplying, Installation and commissioning of MCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A. / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMM/ABB SW122ERLAND (with fixed Thermal-Magnetic Trips) in preliad DBs and Panels ic the cost of screws, approved and directed by the Engineer Incharge. approved and directed store of screws, approved and directed by the Engineer Incharge. CERAMN/TERASAKI JAPAN/SEREMIN GERMAN/TERASAKI JAPAN/SEREMIN GERMAN/TERASAKI JAPAN/ABB SWITZERLAND in preliad DBs and Panels i/c the cost of screws, approved and directed by the Engineer Incharge. approved and directed by the Engineer Inch						
iii) DB-GF-01 iii) P/F wall mounted DB (Distribution Board) made with 16SWG Sheet (Recessded/Surface mounted Type), Powder (cated Paint, ic the cost of Lock, Indication lights, Thimble, Copper Comb, Wiring, Netural & Earth Bar, Door Earthing, Digital Voltmeter/Digital data meter/Digital Voltmeter/Digital Voltmeter/Digital Voltmeter/Digital Voltmeter/Digital Voltmeter/Digital Voltmeter/Digital Separately). 90(a: ii) Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately). (a) Gr deep (ii) 75-100A CFT 9 MCOMING CFT Supplying, Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U S A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB 87/fa- SWITZERLAND (with fixed Thermal-Magnetic Trip) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge. a) Tripple Pole (ii) 15-100 Amp (10 KA,15KA) Each 1 OUTGOING Each 1 GERMANTERASAKI JAPAN ABB SWITZERLAND in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge. 1 OUTGOING Each 1 cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge. 1 OUTGOING Each 1 </td <td></td> <td>87/(a-</td> <td>(ii) 15-100 Amp (10 KA, 15 KA)</td> <td></td> <td></td> <td>1</td>		87/(a-	(ii) 15-100 Amp (10 KA, 15 KA)			1
iii) DB-GF-01 iii) P/F wall mounted DB (Distribution Board) made with 16SWG Sheet (Recessded/Surface mounted Type), Powder (cated Paint, ic the cost of Lock, Indication lights, Thimble, Copper Comb, Wiring, Netural & Earth Bar, Door Earthing, Digital Voltmeter/Digital data meter/Digital Voltmeter/Digital Voltmeter/Digital Voltmeter/Digital Voltmeter/Digital Voltmeter/Digital Voltmeter/Digital Separately). 90(a: ii) Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately). (a) Gr deep (ii) 75-100A CFT 9 MCOMING CFT Supplying, Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U S A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB 87/fa- SWITZERLAND (with fixed Thermal-Magnetic Trip) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge. a) Tripple Pole (ii) 15-100 Amp (10 KA,15KA) Each 1 OUTGOING Each 1 GERMANTERASAKI JAPAN ABB SWITZERLAND in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge. 1 OUTGOING Each 1 cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge. 1 OUTGOING Each 1 </td <td></td> <td></td> <td></td> <td>Each</td> <td>18</td> <td>1</td>				Each	18	1
P/F wall mounted DB (Distribution Board) made with 16SWG Sheet (Recesseded/Surface mounted Type), Powder coated Paint, i/c the cost of Lock, Indication lights, Thimble, Copper Comb, Wiring, Netural & Earth Bar, Door Earthing, Digital Voltmeter,Digital Ammeter, Volt Selector Switch, Ammeter selector switch, Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately). (a) 6' deep (ii) 75-100A CFT 9 INCOMING CFT 9 Supplying, Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIENEMABB SWITZERLAND (with fixed Thermal-Magnetic Trip) in preliat DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge. a) Triple Pole (ii) 15-100 Amp (10 KA,15KA) Each 1 OUTGOING Each 1 OUTGOING Each 1 Ch24- a) Triple Pole (iii) 15-100 Amp (10 KA,15KA) Each 1 Ch24- bSWITZERLAND RANCE/ GE U.S.A / SCHNEIDER GERMANY SIEMEN GERMANYTERASAKI JAPAN/ ABB SWITZERLAND In preliaid DBs and Panels i/c the cost of screwes, necessary wire complete in all respect as approved and directed by the Engineer Incharge. 1 Ch24- bS(/a- (ii) 6-40 Amp (6 KA) 1 1	iii)	,	DB-GF-01		-	
with 16SWG Sheet (Recessed/Surface mounted Type), Powder coated Paint, ic the cost of Lock, Indication lights, Thimble, Copper Comb, Wiring, Netural & Earth Bar, Door Earthing, Digital Voltmeter,Digital Ammeter, Volt Selector Switch, Ammeter selector switch, Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately). (a) 6' deep (ii) 75-100A CFT 9 IncoMING 0 9 WCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER CERMANY / TERASKI JAPAN/SIEMEN/ABB 9 WITZERLAND (with fixed Thermal-Magnetic Trip Ji) 1 9 iii) OUTGOING Each 1 OUTGOING 0 1 1 OUTGOING Each 1 1 OUTGOING Each 1 1 OUTGOING Each 1 1 CH24- 8/7(a- B) Suppling.Installation and comissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GL U.S.A / SCHNEIDER GERMANY/SIEMEN GERMANTERASAKI JAPAN/ABB SWITZERLAND in prelaid DBs and Panels i/c the cost of screwes, necessary wire complete in all respect as approved and directed by the Engineer Incharge. 1 Ch24- 80/64 a) Single Pole (ii) 6-40 Amp (6 KA) 1	,					
ch24 g0(a) Recessde/Surface mounted Type). Powder coated Paint, i/c the cost of Lock, Indication iights, Thimble, Copper Comb, Wiring, Netural & Earth Bar, Door Earthing, Digital Voltmeter, Digital Ammeter, Volt Selector Switch, Ammeter selector switch, Aumeter selector Supplete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately). Image: Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately). i) i) Supplying, Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge. Image: Complete in all respect as approved and directed by the Engineer Incharge. i) Torgoing Suppling, Installation and commissioning of MCB (Moulded Case Close of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge. Image: Complete in all respect as approved and directed by the Engineer Incharge. i) Tripple Pole (ii) Suppling, Installation and commissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMAN/YIEMEN Each 1 ch24 Suppling, Installation and complete in all respect as approved and directed by the Engineer incharge. Image: Complete in all respect as approved and directed by the Engineer incharge. i) Tripple Pole						
ch24 ch24 90(a) Barth Bar, Door Earthing, Digital Voltmeter, Digital Ammeter, Volt Selector Switch, Ammeter selector witch, Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately). (a) 6° deep (ii) 75-100A CFT 90(a) Supplying, Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip i) Switch, Current of the Second Second Second approved and directed by the Engineer Incharge. a) Tripple Pole (ii) 15-100 Amp (10 KA,15KA) Ch24 Supplying, Installation and commissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip i) in relaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge. a) Tripple Pole (ii) 15-100 Amp (10 KA,15KA) Each 1 OUTGOING Each Ch24 Suppling, Installation and comissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY /SIEMEN GERMANTERASAKI JAPAN / ABB SWITZERLAND in prelaid DBs and Panels i/c the cost of screwes, necessary wire complete in all respect as approved and directed by the Engineer Incharge. ch24 a) Single Pole (ii) 640 Amp (6 KA)						
ch24 90(n- ii) lights, Thimble, Copper Comb, Wring, Netural & Earth Bar, Door Earthing, Digital Voltmeter, Digital Ammeter, Volt Selector Switch, Ammeter selector witch, Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately). a) 6° deep f) 75-100A CFT Supplying, Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A. / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEM/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip) in prelaid DBs and Panels <i>i/c</i> the cost of screws, necessary wite complete in all respect as approved and directed by the Engineer Incharge. a) Tripple Pole GUTGOING Suppling, Installation and comissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / SIEMEN GERMANY TERASAKI JAPAN/SIEMEN SUPDIR_Installation and comissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / SIEMEN GERMANYTERASAKI JAPAN/ ABB SVITIZERLAND in preliad DBs and Panels <i>i/c</i> the cost of screwes, necessary wire complete in all respect as approved and directed by the Engineer Incharge. ch24 a) Single Pole Bay (i) 640 Amp (6 KA) ch24 a) Single Pole			(Recessded/Surface mounted Type), Powder			
ch24 90(n- ii) lights, Thimble, Copper Comb, Wring, Netural & Earth Bar, Door Earthing, Digital Voltmeter, Digital Ammeter, Volt Selector Switch, Ammeter selector witch, Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately). a) 6° deep f) 75-100A CFT Supplying, Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A. / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEM/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip) in prelaid DBs and Panels <i>i/c</i> the cost of screws, necessary wite complete in all respect as approved and directed by the Engineer Incharge. a) Tripple Pole GUTGOING Suppling, Installation and comissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / SIEMEN GERMANY TERASAKI JAPAN/SIEMEN SUPDIR_Installation and comissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / SIEMEN GERMANYTERASAKI JAPAN/ ABB SVITIZERLAND in preliad DBs and Panels <i>i/c</i> the cost of screwes, necessary wire complete in all respect as approved and directed by the Engineer Incharge. ch24 a) Single Pole Bay (i) 640 Amp (6 KA) ch24 a) Single Pole			coated Paint. i/c the cost of Lock. Indication			
ch24 90(a) Earth Bar, Door Earthing, Digital Volimeter, Digital Ammeter, Voli Selector Switch, Ammeter selector switch, Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately). a) 6" deep b) 75–100A CFT Supplying, Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE LS A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB b) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge. a) Tripple Pole (ii) 15-100 Amp (10 KA, 15KA) Each OUTGOING Suppling,Installation and comissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / SIEMEN / ABB Suppling,Installation and comissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY/SIEMEN GERMAN/TERASAKI JAPAN/ ABB SWITZERLAND in prelaid DBs and Panels i/c the cost of screwes, necessary wire complete in all respect as approved and directed by the Engineer Incharge. ch24- a) Single Pole ch24- a) Single Pole ch24- a) Gingle Pole ch24- a) Single Pole ch24- a(h24- a) a) Single Pole						
ch/24- 90(a; ii) Ammeter, Volt Selector Switch, Ammeter selector switch, Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately). Cert 9 (a) 6° deep (ii) 75-100A CFT 9 INCOMING Supplying, Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANV / TERASAKI JAPAN/SIEMEN/ABB Supplying, Installation and commissioning of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANV / TERASAKI JAPAN/SIEMEN/ABB 87/(8- will) i) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge. a) Tripple Pole (ii) 15-100 Amp (10 KA, 15KA) Each 1 OUTGOING Suppling, Installation and comissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY/SIEMEN GERMAN/TERASAKI JAPAN/ ABB Suppling, Installation and comissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY/SIEMEN GERMAN/TERASAKI JAPAN/ ABB Image of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / SIEMEN GERMAN/TERASAKI JAPAN/ ABB SWITZZERLAND in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge. Image definition and comission proves and panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge. Image definition and comission proves and						
90(a. ii) Ammeter, Voir Selector Switch, Ammeter Selector Switch, Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately). (a) 6" deep (ii) 75–100A CFT 9 INCOMING Supplying, Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASKI JAPAN/SIEMEN/ABB Supplying, Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASKI JAPAN/SIEMEN/ABB 877(a) ii) i) prelaid DBs and Panels / cth ecost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge. a) Tripple Pole (ii) 15-100 Amp (10 KA,15KA) Each 1 OUTGOING Each 1 Suppling,Installation and comissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMAN/TERASKI JAPAN/ ABB SWITZERLAND in prelaid DBs and Panels / tch cost of screwes, necessary wire complete in all respect as approved and directed by the Engineer Incharge. I ch24- 86((e) a) Single Pole (ii) 6-40 Amp (6 KA) I		ch24-				
ii) Switch, Current ransoumers and Controles complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately). (a) 6° deep (a) 6° deep (ii) 75-100A CFT 9 INCOMING CFT 9 INCOMING CFT 9 Supplying, Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified Case Circuit Breaker) of specified rating made of LEGRANDY / TERASAKI JAPAN/SIEMEN/ABB SwitzERLAND (with fixed Thermal-Magnetic Trip) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge. a) Tripple Pole (ii) 15-100 Amp (10 KA,15KA) Each 1 OUTGOING Suppling,Installation and comissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / SIEMEN GERMANT/ERASAKI JAPAN/ ABB SWITZERLAND in prelaid DBs and Panels i/c the cost of screwes, necessary wire complete in all respect as approved and directed by the Engineer Incharge. Incharge ch24- a) Single Pole 86(a (ii) 6-40 Amp (6 KA) Incharge Incharge						
Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately). (a) 6° deep (ii) 75-100A CFT 9 INCOMING Supplying .Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip i))in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge. a) Tripple Pole ii) OUTGOING Each 1 OUTGOING Suppling.Installation and comissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / SIEMEN GERMAN/TERASAKI JAPAN/ ABB SWITZERLAND in prelaid DBs and Panels i/c the cost of screwes, necessary wire complete in all respect as approved and directed by the Engineer Incharge. ch24- a) Single Pole 8b((a- (ii) 6-40 Amp (6 KA))			switch, Current Transformers and Controles			
by the Engineer Incharge (Breakers will be Paid Separately). (a) 6' deep (ii) 75-100A CFT 9 INCOMING CFT 9 incoming Supplying ,Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB incoming SWITZERLAND (with fixed Thermal-Magnetic Trip) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge. a) Tripple Pole (ii) 15-100 Amp (10 KA,15KA) Each 1 OUTGOING Each 1 Suppling.Installation and comissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / SIEMEN GERMANVTERASAKI JAPAN/ABB SWITZERLAND in prelaid DBs and Panels i/c the cost of screwes, necessary wire complete in all respect as approved and directed by the Engineer Incharge. incomine of the screwes of the screwescrewes of the screwes of the screwes of the screwes o		II)	Complete in all respect as approved and directed			
Separately). (a) 6' dep (i) 75-100A CFT INCOMING CFT Supplying, Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of Supplying, Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of Specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip) i) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as a approved and directed by the Engineer Incharge. a) Tripple Pole (ii) 15-100 Amp (10 KA, 15KA) Each UTGOING OUTGOING Suppling, Installation and comissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY /SIEMEN GERMANYTERASAKI JAPAN/ ABB SWITZERLAND in prelaid DBs and Panels i/c the cost of screwes, necessary wire complete in all respect as approved and directed by the Engineer Incharge. ch24- a) Single Pole g(i) 640 Amp (6 KA)						
(a) 6" deep (ii) 75-100A CFT 9 INCOMING CFT 9 INCOMING Supplying, Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge. a) Tripple Pole (ii) 15-100 Amp (10 KA, 15KA) Each 1 OUTGOING Suppling, Installation and comissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / SIEMENN GERMAN/TERASAKI JAPAN/ ABB SWITZERLAND in prelaid DBs and Panels i/c the cost of screwes, necessary wire complete in all respect as approved and directed by the Engineer Incharge. Image: ch24- 86/(a- (ii) 6-40 Amp (6 KA) a) Single Pole a) Single Pole			, , , , , , , , , , , , , , , , , , , ,			
(ii) 75-100A CFT 9 INCOMING Supplying, Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB JAPAN/SIEMEN/ABB 87/(a- ii) SWITZERLAND (with fixed Thermal-Magnetic Trip p) in preliad DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge. a) Tripple Pole Image: Circuit Breaker) of Supplying, Installation and comissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / SIEMEN / ABB Supplying, Installation and comissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / ABB SUPTZERLAND in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge. ch24 a) Single Pole (b) CH24 b) SUPPling, Installation and comissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY ABB SWITZERLAND in prelaid DBs and Panels i/c the cost of screwes, necessary wire complete in all respect as approved and directed by the Engineer Incharge. ch24 a) Single Pole d(ii) 640 Amp (6 KA)						
CFT 9 INCOMING Supplying Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB Image: Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge. a) Tripple Pole (ii) 15-100 Amp (10 KA,15KA) Each 1 OUTGOING Image: Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY /SIEMEN GERMAN/TERASAKI JAPAN/ ABB SWITZERLAND in prelaid DBs and Panels i/c the cost of screwes,necessary wire complete in all respect as approved and directed by the Engineer Incharge. Image: Circuit Breaker) ch24- 86/(a- (ii) 6-40 Amp (6 KA) a) Single Pole Image: Circuit Breaker)			(a) 6" deep			
INCOMING Supplying Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB 87/(a- ii) approved and directed by the Tengineer Incharge. a) Tripple Pole (ii) 15-100 Amp (10 KA,15KA) Each 1 OUTGOING Supplying.Installation and comissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY /SIEMEN GERMAN/TERASAKI JAPAN / ABB SWITZERLAND in prelaid DBs and Panels i/c the cost of screwes,necessary wire complete in all respect as approved and directed by the Engineer Incharge. ch24- 86/(a- (ii) 6-40 Amp (6 KA)			(ii) 75~100A			
INCOMING Supplying Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB 87/(a- ii) approved and directed by the Tengineer Incharge. a) Tripple Pole (ii) 15-100 Amp (10 KA,15KA) Each 1 OUTGOING Supplying.Installation and comissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY /SIEMEN GERMAN/TERASAKI JAPAN / ABB SWITZERLAND in prelaid DBs and Panels i/c the cost of screwes,necessary wire complete in all respect as approved and directed by the Engineer Incharge. ch24- 86/(a- (ii) 6-40 Amp (6 KA)				CFT	9	
Supplying, Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip) ii) iii) urble g7/(a- ii) iii) urble gaproved and directed by the Engineer Incharge. a) Tripple Pole (ii) US.Buppling,Installation and comissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY /SIEMEN GERMAN/TERASAKI JAPAN / ABB SWITZERLAND in prelaid DBs and Panels i/c the cost of screwes,necessary wire complete in all respect as approved and directed by the Engineer Incharge. ch24- 86/(a- (ii) 6-40 Amp (6 KA)					-	
MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE US.A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge. a) Tripple Pole (ii) 15-100 Amp (10 KA,15KA) Each 1 OUTGOING Suppling,Installation and comissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY /SIEMEN GERMAN/TERASAKI JAPAN/ ABB SWITZERLAND in prelaid DBs and Panels i/c the cost of screwes, necessary wire complete in all respect as approved and directed by the Engineer Incharge.	├				-	1
specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip ii) iii) iii prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge. a) Tripple Pole (ii) 15-100 Amp (10 KA,15KA) Each 1 OUTGOING Image: Court of the specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY /SIEMEN GERMANY /SIEMEN GERMANVTERASAKI JAPAN/ ABB SWITZERLAND in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge. Image: Court Breaker of the specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY /SIEMEN GERMANVTERASAKI JAPAN/ ABB SWITZERLAND in prelaid DBs and Panels i/c the cost of screwes, necessary wire complete in all respect as approved and directed by the Engineer Incharge. Image: Ch24- ch24- a) Single Pole a) Single Pole Image: Ch24- generative Image: Ch24- a) Single Pole Image: Ch24-						1
ch24, 87/(a- ii) U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge. a) Tripple Pole (ii) 15-100 Amp (10 KA,15KA) Each 1 OUTGOING Each 1 Suppling,Installation and comissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY /SIEMEN GERMAN/TERASAKI JAPAN/ ABB SWITZERLAND in prelaid DBs and Panels i/c the cost of screwes,necessary wire complete in all respect as approved and directed by the Engineer Incharge. Image: ch24- 86/(a- (ii) 6-40 Amp (6 KA) a) Single Pole Image:						
ch24, 87/(a- ii) U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge. a) Tripple Pole (ii) 15-100 Amp (10 KA,15KA) Each 1 OUTGOING Each 1 Suppling,Installation and comissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY /SIEMEN GERMAN/TERASAKI JAPAN/ ABB SWITZERLAND in prelaid DBs and Panels i/c the cost of screwes,necessary wire complete in all respect as approved and directed by the Engineer Incharge. Image: ch24- 86/(a- (ii) 6-40 Amp (6 KA) a) Single Pole Image:			specified rating made of LEGRAND FRANCE/ GE			
ch24- 87/(a- ii) JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip)) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge. a) Tripple Pole (ii) 15-100 Amp (10 KA,15KA) Each 1 OUTGOING Each 1 Suppling,Installation and comissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY /SIEMEN GERMAN/TERASAKI JAPAN/ ABB SWITZERLAND in prelaid DBs and Panels i/c the cost of screwes,necessary wire complete in all respect as approved and directed by the Engineer Incharge. Image: ch24- 86/(a- (ii) 6-40 Amp (6 KA) a) Single Pole Image:						
Ch24- 87/(a- ii) SWITZERLAND (with fixed Thermal-Magnetic Trip) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge. a) Tripple Pole (ii) 15-100 Amp (10 KA,15KA) Each 1 OUTGOING Each 1 Suppling,Installation and comissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY /SIEMEN GERMAN/TERASAKI JAPAN/ ABB SWITZERLAND in prelaid DBs and Panels i/c the cost of screwes,necessary wire complete in all respect as approved and directed by the Engineer Incharge. Image: Ch24- 86/(a- (ii) 6-40 Amp (6 KA)						
87/(a- ii)) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge. a) Tripple Pole a) Tripple Pole (ii) 15-100 Amp (10 KA,15KA) Each 1 OUTGOING Each 1 Suppling,Installation and comissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY /SIEMEN GERMAN/TERASAKI JAPAN/ ABB SWITZERLAND in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge. a) Single Pole ch24- a) Single Pole a) Single Pole a) Single Pole		ch24-				
ii) In pretaid Dbs and Parlets //c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge. a) Tripple Pole (ii) 15-100 Amp (10 KA,15KA) Each 1 OUTGOING Each 1 Suppling,Installation and comissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY /SIEMEN SCHNEIDER GERMANY /SIEMEN GERMAN/TERASAKI JAPAN/ ABB SWITZERLAND in prelaid DBs and Panels i/c the cost of screwes,necessary wire complete in all respect as approved and directed by the Engineer Incharge. a) Single Pole ch24- a) Single Pole a) Single Pole a) Single Pole		87/(a-				
* necessary wire complete in all respect as approved and directed by the Engineer Incharge. a) Tripple Pole (ii) 15-100 Amp (10 KA,15KA) Each 1 OUTGOING Each Suppling,Installation and comissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY /SIEMEN GERMANV/TERASAKI JAPAN/ ABB SWITZERLAND in prelaid DBs and Panels i/c the cost of screwes,necessary wire complete in all respect as approved and directed by the Engineer Incharge. ch24- a) Single Pole 86/(a- (ii) 6-40 Amp (6 KA)						
a) Tripple Pole (ii) 15-100 Amp (10 KA,15KA) Each 1 OUTGOING Suppling,Installation and comissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY /SIEMEN GERMAN/TERASAKI JAPAN/ ABB SWITZERLAND in prelaid DBs and Panels i/c the cost of screwes,necessary wire complete in all respect as approved and directed by the Engineer Incharge. ch24- 86/(a- (ii) 6-40 Amp (6 KA)		")	necessary wire complete in all respect as			
a) Tripple Pole (ii) 15-100 Amp (10 KA,15KA) Each 1 OUTGOING Suppling,Installation and comissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY /SIEMEN GERMAN/TERASAKI JAPAN/ ABB SWITZERLAND in prelaid DBs and Panels i/c the cost of screwes,necessary wire complete in all respect as approved and directed by the Engineer Incharge. ch24- 86/(a- (ii) 6-40 Amp (6 KA)			approved and directed by the Engineer Incharge			
(ii) 15-100 Amp (10 KA,15KA) Each 1 OUTGOING Each 1 Suppling,Installation and comissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY/SIEMEN GERMAN/TERASAKI JAPAN/ ABB SWITZERLAND in prelaid DBs and Panels i/c the cost of screwes,necessary wire complete in all respect as approved and directed by the Engineer Incharge. Image: Ch24- 86/(a- (ii) 6-40 Amp (6 KA)						
Each 1 OUTGOING Each 1 Suppling,Installation and comissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY /SIEMEN GERMANY/TERASAKI JAPAN/ ABB SWITZERLAND in prelaid DBs and Panels i/c the cost of screwes,necessary wire complete in all respect as approved and directed by the Engineer Incharge. Image: Ch24- a) Single Pole 86/(a- (ii) 6-40 Amp (6 KA)						
OUTGOING Suppling,Installation and comissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY /SIEMEN GERMAN/TERASAKI JAPAN/ ABB SWITZERLAND in prelaid DBs and Panels i/c the cost of screwes,necessary wire complete in all respect as approved and directed by the Engineer Incharge. ch24- a) Single Pole 86/(a- (ii) 6-40 Amp (6 KA)			(ii) 13-100 Amp (10 KA,15KA)	_		1
Suppling,Installation and comissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY /SIEMEN GERMAN/TERASAKI JAPAN/ ABB SWITZERLAND in prelaid DBs and Panels i/c the cost of screwes,necessary wire complete in all respect as approved and directed by the Engineer Incharge. ch24- 86/(a- a) Single Pole 6/(a- (ii) 6-40 Amp (6 KA)				Each	1	
Suppling,Installation and comissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY /SIEMEN GERMAN/TERASAKI JAPAN/ ABB SWITZERLAND in prelaid DBs and Panels i/c the cost of screwes,necessary wire complete in all respect as approved and directed by the Engineer Incharge. ch24- 86/(a- a) Single Pole 6/(a- (ii) 6-40 Amp (6 KA)			OUTGOING			
(Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY /SIEMEN GERMAN/TERASAKI JAPAN/ ABB SWITZERLAND in prelaid DBs and Panels i/c the cost of screwes,necessary wire complete in all respect as approved and directed by the Engineer Incharge. ch24- 86/(a- a) Single Pole (ii) 6-40 Amp (6 KA)						
made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY /SIEMEN GERMAN/TERASAKI JAPAN/ ABB SWITZERLAND in prelaid DBs and Panels i/c the cost of screwes, necessary wire complete in all respect as approved and directed by the Engineer Incharge. ch24- 86/(a- (ii) 6-40 Amp (6 KA)						
SCHNEIDER GERMANY /SIEMEN GERMAN/TERASAKI JAPAN/ ABB SWITZERLAND in prelaid DBs and Panels i/c the cost of screwes, necessary wire complete in all respect as approved and directed by the Engineer Incharge. ch24- a) Single Pole 86/(a-						
GERMAN/TERASAKI JAPAN/ ABB SWITZERLAND in prelaid DBs and Panels i/c the cost of screwes, necessary wire complete in all respect as approved and directed by the Engineer Incharge. ch24- a) Single Pole 86/(a- (ii) 6-40 Amp (6 KA)						
SWITZERLAND in prelaid DBs and Panels i/c the cost of screwes, necessary wire complete in all respect as approved and directed by the Engineer Incharge. Incharge. ch24- 86/(a- a) Single Pole (ii) 6-40 Amp (6 KA) Incharge.			SCHNEIDER GERMANY /SIEMEN			1
SWITZERLAND in prelaid DBs and Panels i/c the cost of screwes, necessary wire complete in all respect as approved and directed by the Engineer Incharge. Incharge. ch24- 86/(a- a) Single Pole (ii) 6-40 Amp (6 KA) Incharge.			GERMAN/TERASAKI JAPAN/ ABB			
cost of screwes, necessary wire complete in all respect as approved and directed by the Engineer Incharge. Incharge. ch24- 86/(a- a) Single Pole (ii) 6-40 Amp (6 KA) Incharge.						
ch24- 86/(a- a) Single Pole ch24- 86/(a- b) Single Pole						1
Incharge. ch24- 86/(a- a) Single Pole 86/(a- (ii) 6-40 Amp (6 KA)						1
ch24- 86/(a- a) Single Pole 86/(a- (ii) 6-40 Amp (6 KA)						1
86/(a- (ii) 6-40 Amp (6 KA)			Incharge.			1
86/(a- (ii) 6-40 Amp (6 KA)						
86/(a- (ii) 6-40 Amp (6 KA)		ch24-	a) Single Pole			
II) Each 18				F	40	
		II)		⊨ach	18	1

i. A					
iv)		DB-GF-02 P/F wall mounted DB (Distribution Board) made			
		with 16SWG Sheet			
		(Recessded/Surface mounted Type), Powder			
		coated Paint, i/c the cost of Lock, Indication			
		lights, Thimble, Copper Comb, Wiring, Netural &			
		Earth Bar, Door Earthing, Digital Voltmeter, Digital			
	ch24-	Ammeter, Volt Selector Switch, Ammeter selector			
	90(a-	switch, Current Transformers and Controles			
	ii)	Complete in all respect as approved and directed			
		by the Engineer Incharge (Breakers will be Paid			
		Separately).			
		(a) 6" deep			
		(ii) 75~100A			
			CFT	9	
		INCOMING			
		Supplying ,Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of			
		specified rating made of LEGRAND FRANCE/ GE			
		U.S.A / SCHNEIDER GERMANY / TERASAKI			
		JAPAN/SIEMEN/ABB			
	ch24-	SWITZERLAND (with fixed Thermal-Magnetic Trip			
	87/(a-) in prelaid DBs and Panels i/c the cost of screws,			
	ii)	necessary wire complete in all respect as			
		approved and directed by the Engineer Incharge.			
		a) Tripple Pole			
		(ii) 15-100 Amp (10 KA,15KA)	_		
			Each	1	
		OUTGOING			
		Suppling,Installation and comissioning of MCB (Miniature Circuit Breaker) of specified rating			
		made of LEGRAND FRANCE/ GE U.S.A /			
		SCHNEIDER GERMANY /SIEMEN			
		GERMAN/TERASAKI JAPAN/ ABB			
		SWITZERLAND in prelaid DBs and Panels i/c the			
		cost of screwes, necessary wire complete in all			
		respect as approved and directed by the Engineer			
		Incharge.			
		a) Single Pole			
		(ii) 6-40 Amp (6 KA)			
)	ii)		Each	24	
V)		DB-GF-03 P/F wall mounted DB (Distribution Board) made			
		with 16SWG Sheet			
		(Recessded/Surface mounted Type), Powder			
		coated Paint, i/c the cost of Lock, Indication			
		lights, Thimble, Copper Comb, Wiring, Netural &			
		Earth Bar, Door Earthing, Digital Voltmeter, Digital			
	ch24- 90(a-	Ammeter, Volt Selector Switch, Ammeter selector			
		switch,Current Transformers and Controles			
	ii)	Complete in all respect as approved and directed			
		by the Engineer Incharge (Breakers will be Paid			
		Separately).			
		(a) 6" deep			
		(ii) 75~100A	057	~	
		INCOMING	CFT	9	
		INCOMING Supplying ,Installation and commissioning of			
		MCCB (Moulded Case Circuit Breaker) of			
		specified rating made of LEGRAND FRANCE/ GE			
		U.S.A / SCHNEIDER GERMANY / TERASAKI			
		JAPAN/SIEMEN/ABB			
	ch24-	SWITZERLAND (with fixed Thermal-Magnetic Trip			
	87/(a-) in prelaid DBs and Panels i/c the cost of screws,			
	ii)	necessary wire complete in all respect as			
		approved and directed by the Engineer Incharge.			
		a) Tripple Pole			
1 1		(ii) 15-100 Amp (10 KA,15KA)			
1			Each	1	

		[1
┝───┼		OUTGOING			
		Suppling,Installation and comissioning of MCB			
		(Miniature Circuit Breaker) of specified rating			
		made of LEGRAND FRANCE/ GE U.S.A /			
		SCHNEIDER GERMANY /SIEMEN			
		GERMAN/TERASAKI JAPAN/ ABB			
		SWITZERLAND in prelaid DBs and Panels i/c the			
		cost of screwes, necessary wire complete in all			
		respect as approved and directed by the Engineer			
		Incharge.			
	ch24-	a) Single Pole			
	86/(a-	(ii) 6-40 Amp (6 KA)			
	ii)		Each	30	
vi)		DB-GF-04			
		P/F wall mounted DB (Distribution Board) made			
		with 16SWG Sheet			
		(Recessded/Surface mounted Type), Powder			
		coated Paint, i/c the cost of Lock, Indication			
		lights, Thimble, Copper Comb, Wiring, Netural &			
		Earth Bar, Door Earthing, Digital Voltmeter, Digital			
	ch24-	Ammeter, Volt Selector Switch, Ammeter selector			
	90(a-	switch,Current Transformers and Controles			
	ii)	Complete in all respect as approved and directed			
1		by the Engineer Incharge (Breakers will be Paid			
1		Separately).			
		(a) 6" deep			
		(ii) 75~100A	OFT	0	
		NOOMNO	CFT	9	
		Supplying ,Installation and commissioning of			
		MCCB (Moulded Case Circuit Breaker) of			
		specified rating made of LEGRAND FRANCE/ GE			
		U.S.A / SCHNEIDER GERMANY / TERASAKI			
	ch24-	JAPAN/SIEMEN/ABB			
	87/(a-	SWITZERLAND (with fixed Thermal-Magnetic Trip			
	ii)) in prelaid DBs and Panels i/c the cost of screws,			
	,	necessary wire complete in all respect as			
		approved and directed by the Engineer Incharge.			
		a) Tripple Pole			
		(ii) 15-100 Amp (10 KA,15KA)			
			Each	1	
		OUTGOING			
		Suppling, Installation and comissioning of MCB			
1		(Miniature Circuit Breaker) of specified rating			
1		made of LEGRAND FRANCE/ GE U.S.A /			
1		SCHNEIDER GERMANY /SIEMEN			
1		GERMAN/TERASAKI JAPAN/ ABB			
1		SWITZERLAND in prelaid DBs and Panels i/c the			
1		cost of screwes, necessary wire complete in all			
1		respect as approved and directed by the Engineer			
1		Incharge.			
1		U ^a			
	ch24-	a) Single Pole			
		(ii) 6-40 Amp (6 KA)			
(I	ii)		Each	26	
vii)	")	DB-Lighting FF-01	Laun	20	
vii)		P/F wall mounted DB (Distribution Board) made			
1		with 16SWG Sheet			
1		(Recessded/Surface mounted Type), Powder			
		coated Paint, i/c the cost of Lock, Indication			
		lights, Thimble, Copper Comb, Wiring, Netural &			
1	ch24-	Earth Bar, Door Earthing, Digital Voltmeter, Digital			
	90(a-	Ammeter, Volt Selector Switch, Ammeter selector			
1		switch,Current Transformers and Controles			
	ii)	Complete in all respect as approved and directed			
	11)	by the Engineer Incharge (Breakers will be Paid			
	11)	by the Engineer Incharge (Breakers will be Paid Separately).			
	11)	by the Engineer Incharge (Breakers will be Paid Separately). (a) 6" deep			
	11)	by the Engineer Incharge (Breakers will be Paid Separately).	CFT	9	

					1
		Supplying Installation and commissioning of			
		MCCB (Moulded Case Circuit Breaker) of			
		specified rating made of LEGRAND FRANCE/ GE			
		U.S.A / SCHNEIDER GERMANY / TERASAKI			
		JAPAN/SIEMEN/ABB			
	ch24-	SWITZERLAND (with fixed Thermal-Magnetic Trip			
	87/(a-) in prelaid DBs and Panels i/c the cost of screws,			
	ii)	necessary wire complete in all respect as			
		approved and directed by the Engineer Incharge.			
		a) Tripple Pole			
		(ii) 15-100 Amp (10 KA,15KA)			
		(ii) 15-100 Amp (10 KA, 15KA)	Fach	4	
			Each	1	
		OUTGOING Suppling,Installation and comissioning of MCB			
		(Miniature Circuit Breaker) of specified rating			
		made of LEGRAND FRANCE/ GE U.S.A /			
		SCHNEIDER GERMANY /SIEMEN			
		GERMAN/TERASAKI JAPAN/ ABB			
		SWITZERLAND in prelaid DBs and Panels i/c the			
		cost of screwes, necessary wire complete in all			
		respect as approved and directed by the Engineer			
		Incharge.			
		-			
	ch24-	a) Single Pole			
		(ii) 6-40 Amp (6 KA)			
	ii)		Each	12	
viii)	,	DB-Lighting FF-02			
,		P/F wall mounted DB (Distribution Board) made			
		with 16SWG Sheet			
		(Recessedd/Surface mounted Type), Powder			
		coated Paint, i/c the cost of Lock, Indication			
		lights, Thimble, Copper Comb, Wiring, Netural &			
		Earth Bar, Door Earthing, Digital Voltmeter, Digital			
	ch24-				
	90(a-	Ammeter, Volt Selector Switch, Ammeter selector			
	ii)	switch,Current Transformers and Controles			
	,	Complete in all respect as approved and directed			
		by the Engineer Incharge (Breakers will be Paid			
		Separately).			
		(a) 6" deep			
		(ii) 75~100A			
			CFT	9	
		INCOMING			
		Supplying ,Installation and commissioning of			
		MCCB (Moulded Case Circuit Breaker) of			
		specified rating made of LEGRAND FRANCE/ GE			
		U.S.A / SCHNEIDER GERMANY / TERASAKI			
		JAPAN/SIEMEN/ABB			
	ch24-	SWITZERLAND (with fixed Thermal-Magnetic Trip			
	87/(a-) in prelaid DBs and Panels i/c the cost of screws,			
	ii)	necessary wire complete in all respect as			
		approved and directed by the Engineer Incharge.			
		a) Tripple Pole			
		(ii) 15-100 Amp (10 KA,15KA)			
			Each	1	
		OUTGOING	Laun	I	
		Suppling, Installation and comissioning of MCB			
		11 0,			
		(Miniature Circuit Breaker) of specified rating			
		made of LEGRAND FRANCE/ GE U.S.A /			
		SCHNEIDER GERMANY /SIEMEN			
		GERMAN/TERASAKI JAPAN/ ABB			
		SWITZERLAND in prelaid DBs and Panels i/c the			
		cost of screwes, necessary wire complete in all			
		respect as approved and directed by the Engineer			
		Incharge.			
		a) Single Pole			
	86/(a-	(ii) 6-40 Amp (6 KA)			
	ii)		Each	8	1
	II)			-	

: - 3					
ix)		DB-Power FF			
		P/F wall mounted DB (Distribution Board) made			
		with 16SWG Sheet			
		(Recessded/Surface mounted Type), Powder			
		coated Paint, i/c the cost of Lock, Indication			
		lights, Thimble, Copper Comb, Wiring, Netural &			
	ch24-	Earth Bar, Door Earthing, Digital Voltmeter, Digital			
	90(a-	Ammeter, Volt Selector Switch, Ammeter selector			
	ii)	switch,Current Transformers and Controles			
	,	Complete in all respect as approved and directed			
		by the Engineer Incharge (Breakers will be Paid			
		Separately).			
		(a) 6" deep			
		(ii) 75~100A			
			CFT	9	
		INCOMING			
		Supplying ,Installation and commissioning of			
		MCCB (Moulded Case Circuit Breaker) of			
		specified rating made of LEGRAND FRANCE/ GE			
		U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB			
	ch24-	SWITZERLAND (with fixed Thermal-Magnetic Trip			
	87/(a-) in prelaid DBs and Panels i/c the cost of screws,			
	ii)				
		necessary wire complete in all respect as approved and directed by the Engineer Incharge.			
		a) Tripple Pole			
		a) Tripple Pole (ii) 15-100 Amp (10 KA,15KA)			
		(ii) 13-100 Allip (10 KA, 13KA)	Each	1	
		OUTGOING	Laun	1	
		Suppling, Installation and comissioning of MCB			
		(Miniature Circuit Breaker) of specified rating			
		made of LEGRAND FRANCE/ GE U.S.A /			
		SCHNEIDER GERMANY /SIEMEN			
		GERMAN/TERASAKI JAPAN/ ABB			
		SWITZERLAND in prelaid DBs and Panels i/c the			
		cost of screwes, necessary wire complete in all			
		respect as approved and directed by the Engineer			
		Incharge.			
	ch24-	a) Single Pole			
		(ii) 6-40 Amp (6 KA)			
	ii)		Each	8	
x)		DB-Power Computer Labs*10			
		P/F wall mounted DB (Distribution Board) made			
		with 16SWG Sheet			
		(Recessded/Surface mounted Type), Powder			
		coated Paint, i/c the cost of Lock, Indication			
		lights, Thimble, Copper Comb, Wiring, Netural &			
	ch24	Earth Bar, Door Earthing, Digital Voltmeter, Digital			
	ch24- 90(a-	Ammeter, Volt Selector Switch, Ammeter selector			
		switch,Current Transformers and Controles			
	ii)	Complete in all respect as approved and directed			
		by the Engineer Incharge (Breakers will be Paid			
		Separately).			
		(a) 6" deep			
		(ii) 75~100A			
			CFT	90	
		INCOMING			
		Supplying ,Installation and commissioning of			
		MCCB (Moulded Case Circuit Breaker) of			
		specified rating made of LEGRAND FRANCE/ GE			
		U.S.A / SCHNEIDER GERMANY / TERASAKI			
	ch24-				
	87/(a-	SWITZERLAND (with fixed Thermal-Magnetic Trip			
	ii)) in prelaid DBs and Panels i/c the cost of screws,			
	,	necessary wire complete in all respect as			
		approved and directed by the Engineer Incharge.			
		a) Tripple Pole			
		(ii) 15-100 Amp (10 KA,15KA)	- ·	10	
			Each	10	

		[
	<u> </u>	OUTGOING				
		Suppling, Installation and comissioning of MCB				
		(Miniature Circuit Breaker) of specified rating				
		made of LEGRAND FRANCE/ GE U.S.A /				
		SCHNEIDER GERMANY /SIEMEN				
		GERMAN/TERASAKI JAPAN/ ABB				
		SWITZERLAND in prelaid DBs and Panels i/c the				
		cost of screwes, necessary wire complete in all				
		respect as approved and directed by the Engineer				
		Incharge.				
	ob24	a) Single Pole				
		(ii) 6-40 Amp (6 KA)				
	ii)	(ii) 6-40 Amp (6 KA)	Each	150		
6	")	MISCELLANEOUS FITTINGS	Laun	130		
Ŭ		Providing and fixing Copper winded Exhaust fan				
		with louver and shutter made of				
		Pak/Younas/G.F.C. i/c the cost of necessary cable				
		and hardware for connection from ceiling rose				
		complete as approved and directed by Engineer				
		Incharge.				
		(a) Plastic body				
		(i) 10" dia				
	i)		Each	13		
7		WIRING ACCESSORIES				
		P/F PVC double layer Switch kit Faceplate with				
		specified switch holes i/c the cost of switches /				
		sockets / dimmer made of Hi-Life / Bush /				
		Schenider, screws complete as approved and				
		directed by the Engineer Incharge				
	<u> </u>	(a) One way Gange Switch				
	ch24-	(vi) Fan Dimmer				
	103 (a-					
	vi)	Cmall	No.	380		
	ch24-					
		(i) 01 Gange	No	2		
	i) ch24-	Small	No.	2		
		(ii) 02 Gange				
	ii)	(··/ ounge	No.	8		
		Small				
		(iii) 03 Gange				
	iii)		No.	4		
	ch24-	(iv) Three pin Light Plug 10/13 Amp				
	103 (a-					
	iv)		No.	1221		
	ch24-	(v) Telephone / TV/Datacable socket				
	103 (a-					
	v)		No.	547		
	ch24-					
		(i) 04 Gange				
	i)		No.	79		
		Large				
		(ii) 05 Gange	No	24		
	ii) ch24-	Large	No.	24		
		(iii) 06 Gange				
	iii)		No.	22		
	ch24-	(viii) Three Pin Power Plug 15-32 Amp			<u> </u>	
	103 (a-					
	viii)		No.	20		
		P/F PVC concealed Switch kit Box i/c the cost of				
		screws complete as approved and directed by the				
		Engineer Incharge				
	ch24-	(i) Small				
	104 (i)		No.	1615		
	ch24-	(ii) Large				
	104					
	(ii)		No.	145		

8		CCTV System			
i	1	Camera Cable		1	
	1	Supply, Installation and commissioning of wiring			
		with 4-pair data Cable, 23 AWG UL/EN listed			
		cable * Conforming to following standards:			
		TIA/EIA 568 / ISO/IEC 11801, in prelaid conduit /			
		cable tray from including all accessories,			
		Manufacturer/OEM Authorization, Make:			
		Schneider / i-connect UK/3M Corning USA/ D-			
		Link/ Pollo Australian or equivalent complete in all			
		respect as approved and directed by Engineer			
		Incharge.			
	ch24-	a) UTP (Unshielded Twisted pair)			
		(ii)CAT-6A (Min.1G/ 10G @ 500MHz or higher)			
	ii)		MTR	800	
	,		WITT	000	
	1	Total of MRS Items			
1		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			
		ledvance, Osaka or equivalent approved by			
		engineer incharge			
i)	NSI	20 Watt LED Light Fixture surface/recessed			
-		mounted, IP-22 rated	No.	909	
ii)	NSI	15 Watt (White) LED Light Fixture			
		surface/recessed mounted, IP-22 rated	No.	220	
iii)	NSI	10 Watt LED Light Fixture surface/recessed			
		mounted, IP-22 rated	No.	60	
2		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, GFC, Pak			
		Fan or approved equivalent by engineer incharge			
i)		56" dia ceiling fan suitable to give an air			
	NSI	displacement of minimum 8000 Cu. ft./ min. Fan			
	_	shall be made with 99% purity Copper windings.		000	
	NO	Description and Finish of her so has that for AOU	No.	380	
ii)	NSI	Providing and Fixing of brass bracket fan 18"	NI-	_	
-		(good quality)	No.	9	
3	+	WIRING ACCESSORIES Supply at site, installation, testing and		-	 +
		commissioning of the following wiring accessories,			
		complete in all respects. Made of TJ, HiLife or			
		equivalent approved by engineer incharge			
		equivalent approved by engineer incharge			
i)		Appropiate size of plastic body fan box and ceiling			
"	NSI	fan rod 24" in length	Nos	380	
4		Fire Alarm System	1100	000	
	+	(General Description) Supply, installation, testing		-	 +
		and commissioning of following items as per			
		drawings, specifications, & instructions of the			
		Engineer, complete in all respect, all item should			
		0 / 1			
		be of Gent by honeywell, ETON uk or approved			
		equivalent as per instructions by the Engineer as			
		required.			I

i)		Manual Call Point			
- ''	NSI	Supply, install testing and commsiong of manual			
	1101	call point RESET type with allied components			
		with full functionality as per specification of			
		manufacturer / drawing with proper staff and tools			
		and plants etc.Input Source Zone signal			
		Address Coding dip switch			
		Operating Voltage 26V DC			
		Alarm Current 6mA			
		Quiescent Current 850µA			
		Ambient Temperature 0°C ~ +50°C			
		Material Fire-proof plastic			
			Each	10	
ii)		Smoke Detector			
	NSI	Supply, install testing and commsiong of			
		Addressable Optical Smoke Detectors			
		incorporating a with in the housing of the			
		detector. Sensing of the detector shall be			
		adjustable via software between 0-90			
		seconds.Address Coding Binary			
		Alarm Current DC26V 6mA			
		Standby Current DC26V 850µA			
		Sensitivity Setting Comply to EN54			
		Ambient Temperature 0°C ~ +50°C			
		Material Fire-proof plastic	Each	172	
iv)		Sounder			
10)	NSI	Supply, install testing and commsiong of			
	NOI	Intelligent analogue addressable Loop powered			
		sounder with flasher and red body and wall			
		mounting base.Input Source Zone signal			
		Address Coding Binary dip switch			
		Operating Voltage 26.5V DC			
		Standby Current Under 850µA			
		Alarm Current Under 8mA			
		Sound Output 90 ±4dB at 1 meter			
		Sounder Output 2.3~3.4KHz			
		Ingress Protection IP65			
		Ambient Temperature -20°C ~ +50°C			
		Ambient Humidity 10% ~ 95%			
		Material Fire-proof plastic	Each	10	
v)		FACP			
	NSI	Supply, install, testing and commsiong of			
		Addressable FACP. Each loop can connect up to			
		250 addressable devices. Maximum networking			
		are 32 loops and total addressable points are			
		8000.			
		Large LCD screen (40 x 15 lines) allows more			
		events to be displayed on the same screen.			
		Power 220V AC 50/60Hz			
		*Others also available			
		Battery Capacity 24V DC 4Ah			
		Charging Voltage, Current 26V DC 100~400mA			
		*With auto adjustment function			
		Zone Voltage, Current 26.5V DC 340mA			
		System Capacity 250 devices/1 loop			
		*Expandable for site requirement			
		Exterior Resistance Round-trip under 40Ω			
		Transmitting Method Digital series transmitting			
		Accumulation Time 0~40 seconds			
		Main Sound 85dB @1M	Each	4	
	1	Material 1.6mm steel plate	Each	1	

vi)		Cable			
,	NSI	Supply, install testing and commsiong of 2 x 2.5			
		mmsg shielded drain wire, 30 minutes fire			
		resistance, red, LPCB approved, BS 7629-1/2008,			
		BS 5839-1 standard in 25 mm dia pvc conduit			
		complete in all respects including cost of conduit			
		and its accesories installing arrangment, making			
		jurries in wall and repairment of wall .(Newage,			
		Pakistan Cable, Fast or approved equivalent).			
		conduit should be of Dadex, Turkplast, Easyfit or			
		equivalent as per instructions by engineer			
		incharge.	Rmtr	800	
vii)		Programming, Testing and Commissioning			
	NSI	Programming, Testing and Commissioning of			
		Complete system by authorized certified company			
		complete in all respects as per instructions of the			
		Engineer.	Job	1	
viii)		Fire Extinguishers			
	NSI	Supply & installation of 1 x 6kg DCP CO2 Fire			
		Extinguishers installed as per instructions of			
		Cleint, complete with wall hanging and mounting			
		arrangement complete in all respects. Complete in			
		all respect as per instructions by site engineer			
			Nos.	10	
5		GROUNDING SYSTEM			
i)		Earthing system with road			
		Supply and install pair of earth electrode			
		comprising 13ft (4m)long 2" (50mm) dia G.I. pipe having 3/8" (10mm) dia holes at 20" (500mm) c/c			
		all along the length of pipe burie 40ft (6.09m)			
	NSI	underground in upright position including all			
	INOI	accessories for complete installation such as nuts			
		bolts, washers 2x3/0 SWG copper conductor			
		earthing lead complete in all respect			
		earthing lead complete in air respect	No.	2	
ii)	1	Grounding Connection Point	110.	~	
,		Supply of Grounding connecting points consisting			
		of copper plate 300mm long x50mm wide x 6mm			
		thick to be installed, complete with fixing			
	NSI	arrangement, brass nuts bolts, washers, lugs,			
		12.5mm dia. holes to facilitate connections of			
		Incoming copper strips / copper conductors.			
			Nos.	2	
iii)		Testing and commissiong			
		Testing and commissioning of the earthing system			
		in the presence of site engineer with electronic			
	NSI	devices such as megger etc, making so report			
		with after approximating 3 time testing and the			
		grounding ohm must be less than or upto 3 ohms			
		Total of Non-MRS Items	Nos.	2	
		Grand Total			
L		Granu Total			

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

BILL OF QUANTITIES

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount		
1	C-10/3	Providing, laying, watering and ramming brick ballast 1½" to 2"(40 mm to 50 mm) gauge mixed with 25% sand, for floor foundation, complete in all respects.	%Cft	7977.1				
2	C-10/41-c	Providing and laying Tuff pavers, having 7000 PSI, crushing strength of approved manufacturer, over 2" to 3" sand cushion i/c grouting with sand in joints i/c finishing to require slope Complete in all respect. (50% Grey / 50% Coloured) c) 80-mm thick	P.Sft	7977.11				
3	C-6/53-(ii)	Providing & fixing precast Edge Kerb Stone (4" to 6" thick) and 14" high of Compressive Strength of 3500 PSI laid in cement sand mortar (1:3) over pre-laid brick masonary for drain cum footpath etc complete in all respect.	P.Rft	3452.40				
4	C-26/45-(i)	Supply and Erection of 10 ft high Cantiliver type Car Parking Shed consisting of 3 mm thick fiber glass sheet roof fixed / riveted with moulded curved frame comprising of 1-1/2"x1-1/2" 16-SWG MS box placed @ 2 ft C/C both sides and 1-1/2"x3" M.S box 16-SWG at front and back side welded on cantillever arch type MS pipe 3" dia arms welded with 3/8" thick and 8 " dia Main Post duly welded with 1/2" thick 1.5'x1.5' base plate and 4 no stiffeners of 1/2" thick MS sheet embeded in PCC 2'x2'x3' with 18" long nut bolts 1"dia i/c cost of foundation,cutting straightening assembling, bending as per drawing, welding / grinding of joints and painting three coats complete in all respect as approved by the Engineer Incharg respects. (i) One side Cantilever	P.Sft	4620.00				
5	C-6/5(f)	Cement concrete plain including placing,compacting, finishing and curing complete (including screening and washing of stone aggregate):(f) Ratio 1: 2: 4	%Cft	2664.4				
		Total of MRS ITEMS		- I				
		GRAND TOTAL OF CIVIL WORKS						

ESTABLISHMENT AND DEVELOPMENT OF THE ISLAMIA UNIVERSITY OF BAHAWALPUR SUB CAMPUS AT AHMADPUR EAST ACADEMIC BLOCK									
				BILL O	F QUANTI	TES			
				HV	AC WORKS	5			
Sr.			Qty	Unit		olies (PKR)		ons (PKR)	Total
No.			 ,	•	Rate	Amount	Rate	Amount	Amount
		EQUIPMENT							
1		Supply, Installation Testing & Commissioning of All DC Inverter Controlled Variable Refrigerant Flow (VRF) Heat Pump Type Multi Split A/c System with 02 compressors complete with built-in auto control system & Central Controller with display (Tablet) including unloading, Lifting, placing and Fixing at foundation at locations shown on drawing. Capable to operate at 48 °C ambient without tripping with T3 compressor. Make: GREE, AUX, HISENSE or Eq.							
	a)	Outdoor Condensing Units				<u> </u>			
		CU-1 (Net Cap. 62 TR)	1	No.					
		CU-2 (Net Cap. 56 TR)	1	No.					
		CU-3 (Net Cap. 58 TR)	1	No.					
		CU-4 (Net Cap. 54 TR)	1	No.					
		CU-5 (Net Cap. 45 TR)	1	No.					
		CU-6 (Net Cap. 44 TR)	1	No.					
		CU-7 (Net Cap. 44 TR)	1	No.					
		CU-8 (Net Cap. 48 TR)	1	No.					
	b)	Indoor Units							
	i۱	Cassette Type Units							
	1)	Clucial Clucia	35	Nos.					
		CIU-1 (1.5 TR)	9	Nos.					
		CIU-1 (2.0 TR)	96	Nos.					
		CIU-1 (3.0 TR)	18	Nos.					
	i)	Fresh Air Ducted Units							
		FIU-1 (2000 CFM - 14 TR - ESP 0.88")	4	Nos.					
		FIU-2 (1600 CFM - 12 TR - ESP 0.75")	4	Nos.					
	III)	Auto Control System For VRF System with Central C	1	Nos.					
	iv)	Refrigerant Distributer (Y-Type) Pipe Joints	1	Lot					
	,								
2		Supply & Installation of Centrifugal Fans as specified and scheduled complete with gravity shutter, un-loading, lifting and fixing at locations as shown on the drawings.							
		EF-1 (200 CFM @ 0.75" E.S.P)	4	No.					
		EF-2 (500 CFM @ 1.0" E.S.P)	1	No.					
				├					
3		DUCT WORKS Supply, Fabrication and Installation of G.I. ducting &							
3		Sheet Metal work complete with 1" thick foam insulation, hangers, bracings, splitter dampers etc							
		US Gauge 26	###	Sft					
		US Gauge 24	###	Sft					
4	_	Supply & Installation of round insulated flexible duct							
		complete with jublee clamps.							
		Ø 6"	250	Rft					
F		Cumply 9 Installation of 40 merces 0.1.01 (1)/1	40	0"			-	┨─────┤	
5		Supply & Installation of 18 gauge G.I. Sheet Volume Control dampers as specified	10	Sft					
6		Cupply 9 Installation of Aluminum - in devices -							
6		Supply & Installation of Aluminum air devices as specified and scheduled							

E	ESTABLISHMENT AND DEVELOPMENT OF THE ISLAMIA UNIVERSITY OF BAHAWALPUR SUB CAMPUS AT AHMADPUR EAST ACADEMIC BLOCK										
					OF QUANTITI						
				нν	AC WORKS						
Sr.			Qty	Unit		ies (PKR)		ons (PKR)	Total		
No.			-		Rate	Amount	Rate	Amount	Amount		
		Fresh / Exhaust Air Louvers 4D Diffuser	18 25	Sft Sft							
	U		20	Sit							
		PIPE WORKS									
7		Supply and Installation of Gas & Liquid Copper Piping along with isolation valves with each indoor unit for A/c System Complete with ArmaFlex O Class Tube type 19mm thick insulation, gas charging, accessories, clamping and other related material for installation purpose, complete in all respect. REFRIGERANT PIPE SIZES SHALL BE AS PER	1	Lot							
		MANUFACTURER'S RECOMMENDATION.									
8		Supply & installation of G.I Sheet Tray with top covering required to install refrigerant pipes running at exposed roof	1	Lot							
9		Supply, fabrication and installation of PVC Drain Piping & Fittings complete with the insulation and taping, including hangers, anchor bolts, rubber vibration mounts etc.									
		Ø 0.75 Inch	###	Rft							
		Ø 1.00 Inch	350	Rft							
		ELECTRICAL WORKS									
10		Supply & installation of HVAC related Electrical works as specified and as shown on the drawings									
	a)	Electrical Panels		NI-							
		ACP-1 ACP-2	1	No No							
		ACP-2 ACP-3	1	No				-			
		ACP-4	1	No				1			
			<u> </u>					1			
	b)	Conduiting and wiring onward from main panel room to MCC, MCC to all outdoor units and DB to all HVAC equipment (indoor &outdoor) complete with cables/wires, cables glands, cable ties, cable trays, cable trunkey, G.I./PVC conduits etc. including earthing, control wiring and all other items to complete the Job.	1	Lot							
			~	OT (
			G	51 (17%	6) & SST (16%)						
					Grand Total						