

BILL OF QUANTITIES

FOR ESTABLISHMENT OF CHINIOT CAMPUS OF GOVERNMENT COLLEGE
UNIVERSITY, FAISALABAD

ACADEMIC BLOCK (2Nos) (LG+G+2)

CONSOLIDATED SUMMARY OF PRICE

Sr. No.	Description	Amount (Rs)
1	Schedule Items	
2	Non-Schedule Items	
Grand Total = (Rs.)		

Contractor's Signature

Consultant's Signature

Client's Signature

1 _____

2 _____

3 _____

4 _____

5 _____

6 _____

7 _____

BILL OF QUANTITIES

FOR ESTABLISHMENT OF CHINIOT CAMPUS OF GOVERNMENT COLLEGE
UNIVERSITY, FAISALABAD

ACADEMIC BLOCK (2Nos) (LG+G+2)

SUMMARY OF COST FOR SCHEDULE ITEMS

Sr. No.	Description	[Scheduled Items] (1st BI Annual 2021 (Jan - Jun) District. Chiniot
1	Civil Works	393,869,336
2	Public Health Works	925,684
3	Electrical Works	13,630,156
Total = (Rs.)		408,425,176
Premium Above / Below (+/-) = (Rs.)		
Grand Total = (Rs.)		

Contractor's Signature

Client's Signature

Carried over to consolidated summary of Price

BILL OF QUANTITIES

**FOR ESTABLISHMENT OF CHINIOT CAMPUS OF GOVERNMENT COLLEGE
UNIVERSITY, FAISALABAD**

ACADEMIC BLOCK (2Nos) (LG+G+2)

SUMMARY OF COST FOR NON-SCHEDULE ITEMS

Sr. No.	Description	Amount (Rs.)
1	Civil Works	
2	Public Health Works	
3	Electrical Works	
Grand Total = (Rs.)		

Contractor's Signature

Client's Signature

Carried over to consolidated summary of Cost

BILL OF QUANTITIES
FOR ESTABLISHMENT OF CHINIOT CAMPUS OF GOVERNMENT COLLEGE
UNIVERSITY, FAISALABAD

ACADEMIC BLOCK

CIVIL WORKS

[Scheduled Items] (1st BI Annual 2021 (Jan - Jun) District. Chiniot)			Unit	Qty	Rate (Rs.)	Amount (Rs.)
Sr. #	MRS Item #	Description				
CH.No.03		EXCAVATION				
1	21-b	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain (30 m) and lift upto 5 ft.(1.5m) b. in ordinary soil.	1000 Cft.	498.350	7,492.30	3,733,788
CH.No.06		CONCRETE				
2	5 (f)	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): (f) Ratio 1:2: 4	100 Cft	355.00	22,732	8,069,860
	(h)	(h) Ratio 1:3: 6	100 Cft	87.00	19,948	1,735,476
	(i)	(i) Ratio 1: 4: 8	100 Cft	400.00	17,942	7,176,640
3	6 (a) (ii)	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) (ii) Reinforced cement concrete in slab of rafts / strip foundation, base slab of column and retaining walls; etc and other structural members complete in all respects:-				
		(2) Type B (nominal mix 1:1½: 3)	Per Cft	111625	303.90	33,922,838

CIVIL WORKS

[Scheduled Items] (1st BI Annual 2021 (Jan - Jun) District. Chiniot			Unit	Qty	Rate (Rs.)	Amount (Rs.)
Sr. #	MRS Item #	Description				
		Lower Ground / Ground Floor/ 1st Floor				
4	(a) (i)	Reinforced cement concrete in roof slab, beams, lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- (2) Type B (nominal mix 1: 1½: 3)	Per Cft	148463	408.70	60,676,828
5	(a) (i)	Reinforced cement concrete in columns laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- (1) Type A (nominal mix 1:1:2)	Per Cft	21438	463.00	9,925,794
		2nd Floor				
6	(a) (i) + (d)	Reinforced cement concrete in roof slab, beams, lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- (2) Type B (nominal mix 1: 1½: 3)	Per Cft	41586	435.35	18,104,465
7	(a) (i) + (d)	Reinforced cement concrete in columns laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- (1) Type A (nominal mix 1:1:2)	Per Cft	7546	489.65	3,694,899
		Above 2nd Floor				
8	(a) (i) + (2Xd)	Reinforced cement concrete in roof slab, beams, lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- (2) Type B (nominal mix 1: 1½: 3)	Per Cft	10200	462.00	4,712,400
9	(a) (i) + (2xd)	Reinforced cement concrete in columns laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- (1) Type A (nominal mix 1:1:2)	Per Cft	1232	516.30	636,082

CIVIL WORKS

[Scheduled Items] (1st BI Annual 2021 (Jan - Jun) District. Chiniot			Unit	Qty	Rate (Rs.)	Amount (Rs.)
Sr. #	MRS Item #	Description				
10	9 (b)	Fabrication of mild steel reinforcement for cement concrete, The rate includes wastage, overlaps including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars):- (b) Deformed bars (Grade-40)	100 kg	903	15,918.00	14,373,954
11	9 (c)	Fabrication of mild steel reinforcement for cement concrete, The rate includes wastage, overlaps 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 bars (Grade-60)	100 kg	8987	16,437.65	147,725,161
12	35	Providing and laying vertical damp proof course with cement sand plaster and bitumen coating:- (b) with 2 coats of bitumen:- (i) Ratio 1: 4 (a) ½" thick (13 mm)	100 Sft	532.2	3,509.65	1,867,836
CH.No.07		BRICK WORK (in Foundations)				
13	4 (i)	Pacca brick work in foundation and plinth in:- i) Cement, sand mortar:- Ratio 1:4	100 Cft	132	23285.25	3,073,653
		BRICK WORK (LowerGround/Ground Floor)				
14	5 (i)	Pacca brick work in Lower/ground floor:- i) Cement, sand mortar:- Ratio 1:4	100 Cft	590.56	24799.00	14,645,297
		BRICK WORK (1st Floor)				
15	6 (i)	Pacca brick work in 1st floor:- i) Cement, sand mortar:- Ratio 1:4	100 Cft	391.04	25,733.55	10,062,847
		BRICK WORK (2nd Floor)				
16	6 (ii)	Pacca brick work in 2nd floor:- i) Cement, sand mortar:- Ratio 1:4	100 Cft	391.04	26,892.00	10,515,848

CIVIL WORKS

[Scheduled Items] (1st BI Annual 2021 (Jan - Jun) District. Chiniot			Unit	Qty	Rate (Rs.)	Amount (Rs.)
Sr. #	MRS Item #	Description				
		BRICK WORK (Above 2nd Floor)				
17	6 (iii)	Pacca brick work in above 2nd floor:- i) Cement, sand mortar:- Ratio 1:4	100 Cft	97.32	28,050.40	2,729,865
18	30	Supplying and filling sand under floor; or plugging in wells.	100 Cft	2180	1,976.10	4,307,898
CH.No.09 ROOFING						
19	35	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 respect iii) Thermopore sheet 1" (25 mm) thick	100 Sft	350	9,682.30	3,388,805.00
20	15	Khuras on roof 2'x2'x6" (600 x 600 x 150 mm)	Each	10	547.6	5,476.00
CH.No.12 WOOD WORK						
21	58 (b)	Providing and fixing ornamental wooden architrave 3" x (1½" tapered to ¼") all along the door frame complete in all respect. (b) Deodar wood architrave	Per Sft	1896	45.75	86,742
22	15 (a)	Providing and fixing M.S. sheet hollow pressed frame of doors, windows, C. windows, etc. (chowkat only) of 20 SWG welded with M.S. flat 6"x 1¼" x 1/8" (150 mmx30mmx3mm) M.S. holdfast 9"x1"x1/8" (225mmx25mmx3mm) welded/screwed 4" (100 mm) long iron hinges, including filling chowkat with cement sand mortar 1:8 and embedding holdfast in cement concrete 1:2:4, complete in all respects: (a) single rebate	PerSft	7584	174.35	1,322,270

CIVIL WORKS

[Scheduled Items] (1st BI Annual 2021 (Jan - Jun) District. Chiniot			Unit	Qty	Rate (Rs.)	Amount (Rs.)
Sr. #	MRS Item #	Description				
CH.No.10						
		TERRAZZO FLOORING				
23	23	Providing and laying floor of mosaic marble chips tiles 100 Sft. 1"(25 mm) thick of approved quality and shade, laid in white cement and pigment, over ¾"(20 mm) thick bedding of cement sand mortar 1:2, including finishing and polishing, complete.	100 Sft	1525	9,067.80	13,828,395
CH.No.25						
		IRON WORK				
24	33	Providing and fixing stair railing (all types and designs) of hard wood, including bends and corners, screwed to 5/8"x5/8" (16x16 mm) M.S. square bars 2.75 ft. (838 mm) high, at 5.5 inch (137 mm) inch centre to centre, fixed in steps of stairs, M.S. flat 1"x1/8" (25x3 mm) welded to bars, painting/polishing 3 coats, etc. complete.	Per Rft	835	1160	968,600
23	53	Providing and fixing all types of glazed aluminium windows of anodized champagne colour partly fixed and party sliding using deluxe section of approved manufacturer having Frame of size 100mm x 30mm using frame at bottom, at top and side leaf leaf frame sections of 60mm x 23mm at top & bottom and size 45mm x 25mm at center and size 45mm x 25mm at sides, Jali leaf frame size 43mm x 13mm i/c fine quality aluminum jali, 5mm thick imported tinted glass with rubber gasket using approved standard latches, wheel, stopper, brush chennel angle joint and hardware etc. completein all respect. b) 2 mm thick	Per Sft	16225	775.20	12,577,620
					Total Rs.	393,869,336

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UNIVERSITY, FAISALABAD
ACADEMIC BLOCK (2 Nos)

CIVIL WORKS

Non-Scheduled Items		Unit	Qty	Rate (Rs.)	Rate in Words	Amount (Rs.)
Sr. #	Description					
	TERMITE PROOFING					
1	Providing and applying Termite proofing of new buildings in foundations, floors including wood work therein with approved chemicals complete in all respects as per drawings and instructions of the Engineer Incharge..	Sft	125,674			
2	Providing and Filling of granular material in layers (70% sand +30 %granular material) and compacted to 100% modified AASHTO density, by appropriate compaction equipment and roll complete in all respects as per drawings, specifications and instructions of the Engineer In-charge.	Cft	172000			
	PLASTER WORK					
3	Internal Plaster Providing & applying internal Cement plaster 1/2" thick 1:4 finshed on wall ceiling etc at any height / floor, incl wre meash on joints scaffolding complete in all respects as per grawings and instructions of the Engineer In-charge..	Sft	385908			
4	External Plaster Providing & applying external Cement plaster 3/4" thick 1:4 finshed on wall, shades etc at any height / floor, incl wire meash on joints, scaffolding complete in all respects as per grawings and instructions of the Engineer In-charge..	Sft	78600			

CIVIL WORKS

Non-Scheduled Items		Unit	Qty	Rate (Rs.)	Rate in Words	Amount (Rs.)
Sr. #	Description					
5	Ornamental Plaster Providing & applying ornamental Cement plaster up to 3/4" (20 mm) thick 1:4 finished at any height / floor, incl wire mesh on joints, scaffolding complete in all respects as per drawings and instructions of the Engineer In-charge.	Sft	5000			
	WOOD WORK					
6	Providing and fixing of solid flush doors with soft wood (deodar) frame and internal core treated with termite proofing agent, 3/8" thick ply on both sides incl holdfasts, and heavy duty iron mongery, Brushed stainless steel Kick plate (6" x width of door) both side, 6" X 10" Brushed stainless steel push plate both sides, 5mm thick glass (if required) etc (3-coat of Enamel paint as described 38 mm thick complete in all respects as per drawings, and instructions of the Engineer In-charge.	Sft	9656			
7	Fixing of ABS Door incl fixing, cost of holdfasts, and heavy duty iron mongery, deodar wood chowket, locks, latch etc as described complete in all respects as per drawings, and instructions of the Engineer In-charge.	Sft	3,360.00			
8	Providing and fixing of best quality heavy duty door Locks of any pattern/shape complete in all respects as per drawings, and instructions of the Engineer In-charge.	Each	60			
9	Providing and fixing of best quality (Brass) Al-drop of any pattern/shape complete in all respects as per drawings, and instructions of the Engineer In-charge.	Each	90			

CIVIL WORKS

Non-Scheduled Items		Unit	Qty	Rate (Rs.)	Rate in Words	Amount (Rs.)
Sr. #	Description					
10	<u>Openable/ Hung Window/ ventilators</u> Providing & Fixing in position any floor any height heavy duty extruded aluminum 60-80 micron powder coated/ 18-22 micron anodized finish openable window / ventilators 2mm x 100mm x 30 mm of any shape, design and size including heavy duty lock, hinges, handles, fly screen, screws, bolts, silicone filling, glazed with 5mm thick (tempered) of approved color (Local) complete in all respect as per drawings, specifications and instructions of the Engineer Incharge. (Before Execution contractor shall submit the shop drawings, samples, design calculation and fixing detail etc for Consultant's approval.)	Sft	560			
11	<u>Aluminum Doors.</u> Providing & Fixing in position any floor any height Aluminum Doors aluminum 60-80 micron powder coated/ 18-22 micron anodized finish of approved color 2mm x100mm glazed with 5mm thick (tempered) of approved color (Local) including the cost of heavy duty Door closer Floor mounted machine, handles Locks, tower bolts,hinges,screw nut, bolts complete in all respect as per drawings, specifications and instructions of the Engineer Incharge. (Before Execution contractor shall submit the shop drawings, samples, design calculation and fixing detail etc for Consultant's approval.)	Sft	2604			

CIVIL WORKS

Non-Scheduled Items		Unit	Qty	Rate (Rs.)	Rate in Words	Amount (Rs.)
Sr. #	Description					
12	Floor Cabinets Providing & Fixing of floor cabinet 600mm wide & 862mm high with First class Soft wood (deodar) frame, 2 1/2" x 1 1/4" thick 3/4" thick lamination board (local) shutter /drawer of approved colour/design incl all necessary chromium plated (cp) mongery, PVC beading,RCC slab, 25mm thick 625 mm wide white/ coloured marble slab, PCC in side, complete in all respects as per drawings, specifications and instructions of the Engineer In-charge.	Sft	1500			
13	Wall Cabinets Providing & Fixing of kitchen wall cabinets 381mm wide & 610mm high with first class Soft wood (deodar) frame, size 2 1/2"x1 1/2" thick lamination (local) board shutter of approved colour/design incl all necessary CP mongery fixture, & PVC beading complete in all respects as per drawings, specifications and instructions of the Engineer In-charge.	Sft	850			
	FLOOR & TILING					
	MARBLE FLOORING / DADO					
14	Providing and laying 3/4" thick PERLENO marble tiles any pattern (1.75 - 2)) sft size on floors, set in neat cement slurry, jointed and grouted with matching colour cement/grouted material , incl 1" thick C.S mortar/plaster, rubbing / grinding, chemical polishing, complete in all respects as per drawings, specifications and instructions of the Engineer In-charge.	Sft	4500			

CIVIL WORKS

Non-Scheduled Items		Unit	Qty	Rate (Rs.)	Rate in Words	Amount (Rs.)
Sr. #	Description					
15	Providing and laying PERLENO marble 1/2" thick up to 6" wide in any texture size dado skirting laid with cement slurry, jointed and grouted with matching colour grouted material , incl rubbing / grinding, chemical polishing, complete in all respects as per drawings, specifications and instructions of the Engineer In-charge.	Rft	2250			
16	Providing and laying 1/2" thick PERLENO marble tiles any pattern (1.75 - 2) sft size on walls/ dados skirtings etc , set in neat cement slurry, jointed and grouted with matching colour grouted material , incl rubbing / grinding, chemical polishing, complete in all respects as per drawings, specifications and instructions of the Engineer In-charge.	Sft	1500			
17	Providing and laying 3/4" thick sunny white/ gray marble tiles any pattern (3 - 4) sft size on floors, set in neat cement and grouted with matching colour grouted material , incl incl 1" thick C.S mortar/plaster rubbing / grinding, chemical polishing, complete in all respects as per drawings, specifications and instructions of the Engineer In-charge.	Sft	5000			
18	Providing and laying 3/8" thick sunny white/ gray marble tiles any pattern (1.75 - 2) sft size on walls/ dados skirtings etc , set in neat cement and grouted with matching colour grouted material , incl rubbing / grinding, chemical polishing, complete in all respects as per drawings, specifications and instructions of the Engineer In-charge.	Sft	2000			

CIVIL WORKS

Non-Scheduled Items		Unit	Qty	Rate (Rs.)	Rate in Words	Amount (Rs.)
Sr. #	Description					
19	Providing and laying sunny white/gray marble 3/8" thick up to 6" wide in any size dado skirting etc laid with neat cement, jointed and grouted with matching colour grouted material , incl rubbing / grinding, chemical polishing, complete in all respects as per drawings, specifications and instructions of the Engineer In-charge.	Rft	46500			
20	Providing and laying PERLENO marble 3/4" thick in any colour/print texture on steps, stairs steps up to 6 sft set in neat cement, joints grouted with white/coloured grouted material, incl 1" thick C.S mortar/plaster complete in all respects as per drawings, specifications and instructions of the Engineer In-charge.	Sft	8840			
21	Providing and laying PERLENO marble 3/8" thick in any colour/print texture, on stairs, steps risers up to 4 sft set in neat cement, joints grouted with white/coloured grouted material, incl 1/2" thick C.S mortar/plaster complete in all respects as per drawings, specifications and instructions of the Engineer In-charge.	Sft	5172			
	PORCELAIN TILES					
22	Providing and laying porcelain tiles (Local best quality) size up to 24" X 24" (60cm x 60cm) 3600 sqcm glazed/unglazed in any colour/print texture on floor set in approved bond, joints grouted with white/coloured cement, incl 1" thick C.S 1:3 mortar/plaster complete in all respects as per drawings, specifications and instructions of the Engineer In-charge	Sft	2500			

CIVIL WORKS

Non-Scheduled Items		Unit	Qty	Rate (Rs.)	Rate in Words	Amount (Rs.)
Sr. #	Description					
	CERAMIC TILES (For Toilets)					
23	Providing & laying in any colour / printed / textured / glazed/non skid ceramic tiles 6mm thick (approved make local) of any size on walls and floor, set in bond and joints grouted with white/coloured grouting material all as specified complete in all respects as per drawings, specifications and instructions of the Engineer In-charge.	Sft	42500			
	GENERAL STEEL WORKS					
24	Providing and fixing of guard bars, grills, railing, ladders and frames etc including punching/drilling holes if necessary and fixing assembling by welding or with the use of bolts, nuts, rivets, washers etc and erection/fixing in position including making good the disturbed surfaces, complete in all respects as per drawings, specifications and instructions of the Engineer In-charge.	Kg	34992			
	PAINT WORK					
25	MATT ENAMEL PAINT Providing & applying 3- coats of satian glow matt enamel paint of approved make at any height/floor incl cleaning of surface, over one coat of Red oxide paint on new surfaces of any description of steel such as iron guard bars, iron grills, steel chowkets, gates, railing and similar open work, complete in all respects as per drawings, specifications and instructions of the Engineer In-charge.	Sft	32402			

CIVIL WORKS

Non-Scheduled Items		Unit	Qty	Rate (Rs.)	Rate in Words	Amount (Rs.)
Sr. #	Description					
	PAINTING ON PLASTERED WALLS /CEILING					
26	Providing & applying 3- coats of spot less Emulsion paint of approved make , color (stain repellent) at any height/floor incl preparation of surface with 3-coats of ACS putty, one coat of sealer on plastered walls including rubbing, finishing the surfaces, complete in all respects as per drawings, specifications and instructions of the Engineer In-charge.	Sft	261776			
27	Providing & applying 3- coats of Venyl Emulsion paint of approved make, colour at any height/floor incl preparation of surface with 3-coats of ACS putty, one coat of sealer on plastered walls/ceiling,rubbing, finishing the surfaces, complete in all respects as per drawings, specifications and instructions of the Engineer In-charge.	Sft	165312			
28	Providing & applying 3- coats of weather resistance paint of approved make, colour at any height/floor incl preparation of surface on plastered surfaces at any floor any height,complete in all respects as per drawings, specifications and instructions of the Engineer In-charge.	Sft	15000			
29	Providing and applying of wall finish of Graffito wall coating 1.5 mm to 3 mm thick in any colour and shape at any height/floor complete in all respects as per drawings, specifications and instructions of the Engineer In-charge.	Sft	70600			

CIVIL WORKS

Non-Scheduled Items		Unit	Qty	Rate (Rs.)	Rate in Words	Amount (Rs.)
Sr. #	Description					
30	Gypsum Board Ceiling Providing and fixing water proof PVC Laminated with foil backing Gypsum Board Tiles size 24" x 24" x 1/2" ceiling with complete fixing mechanism of aluminium tees, angles, hanging wire, hooks, clips etc. foresee location of light fixtures, A/C & other services complete in all respect as per drawings, Technical Provisions and or as directed by the Engineer.	Sft	25000			
	DRY WALL PARTITIONS					
31	Providing and fixing of Gypsum board wall partitions. Wall to be min 88 mm thick having 12 mm gypsum board anchored to both faces of the frame. Frame to be of GI sheet 0.5 or more mm thick in U shape. Frame to have holes for cables, anchored at top and bottom with iron plates. Gypsum board to be screwed with the frame with proper screws and studs. And finishing of joints properly, complete in all respects as per drawings, specifications and instructions of the Engineer In-charge. (one side of wall to be measured)	Sft	500			
32	Providing and fixing of stainless steel grab bar to walls 2-1/2" dia 16 SWG pipe including all necessary hardwears /accessories complete in all respects as per drawings, specifications and instructions of the Engineer In-charge.	Rft	1960			

CIVIL WORKS

Non-Scheduled Items		Unit	Qty	Rate (Rs.)	Rate in Words	Amount (Rs.)
Sr. #	Description					
33	Supply and fix MS door including 16 SWG 2 " wide frame, 18 SWG,1-3/4" thick door shutter, 4-1/2" X 4-1/2" steel hinges, door bottom sweep gasket, brushed chrome plated steel, automatic latching, bored lock set (exterior key/ interior button) Aluminum threshold , and other necessary hardware /accessories complete in all respects as per drawings, specifications and instructions of the Engineer In-charge.	Sft	1225			
34	Providing & S.S angle (2"x2"x2mm) fixed on columns, wall corners etc. fix with Silicon, tape/ screw etc.complete in all respects as per drawings, specifications, and instructions of the Engineer In-charge.	Rft	2500			
35	Providing and laying,4 mm thick membrain including cost of removal of dust, prime coat etc complete in all respects as per drawings, specifications and instructions of the Engineer In-charge.	Sft	15000			
Total Rs.						

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UNIVERSITY, FAISALABAD

ACADEMIC BLOCK

PUBLIC HEALTH

[Scheduled Items] (1st BI Annual 2021 (Jan - Jun) District. Chiniot)			Unit	Qty	Rate (Rs.)	Amount (Rs.)
Sr. #	MRS Item #	Description				
CH.No.19						
1	7	Providing and fixing stainless steel sink with drain board, size 120x60 cm (48"x24") including bracket set, waste pipe and waste coupling.	Each	2	4,588.20	9176.40
2	15	Providing and fixing, chromium plated soap dish.	Each	87	198.05	17230.35
3	17	Providing and fixing, chromium plated toilet paper holder.	Each	118	420.85	49660.30
4	18	Providing and fixing, chromium plated towel rail:- i) 60 cm (24") long, and 2 cm (¾") dia.	Each	62	365.35	22651.70
5	20	Providing and fixing glass shelf 60x13 cm (24"x5"), with 5mm thick glass:- i) with chromium plated brackets and railing	Each	20	561.60	11232.00
6	23	Providing and fixing chromium plated pillar-cock, heavy:- i) 2 cm (¾")	Each	2	705.30	1410.60
7	26	Providing and fixing chromium plated bib cock:- ii) 1.5 cm (½")	Each	10	339.30	3393.00
8	27	Providing and fixing chromium plated tee stop cock 15mm (½").	Each	446	459.30	204847.80
9	39	Supply and fitting of cast iron manhole cover with frame, etc. complete. i) 30 cm (12") dia	Each	15	409.95	6149.25
		ii) 45 cm (18") dia	Each	8	877.95	7023.60
10	43 (a)	Providing and fixing, brass gas cock:- a) 15 mm (½") dia	Each	320	161.20	51584.00
11	(b)	Providing and fixing, brass gas cock:- b) 20 mm (¾") dia	Each	25	233.20	5830.00

Sr. #	MRS Item #	Description	Unit	Qty	(Rs.)	(Rs.)
CH.No.21						
12	1	Providing and laying R.C.C. pipe, moulded with cement concrete 1:1½:3, with spigot socket or collar joint, etc including cost of reinforcement, conforming to B.S. 5911:Part I: 1981, Class "L" including carriage of pipe from factory to site of work, lowering in trenches to correct alignment and grade, jointing, cutting pipes where necessary, finishing and testing, etc., complete. iii) 225 mm (9:) i/d	Rft	500	390.10	195050.00
13	7	Constructing gully grating chamber, 12"x12", (300x300 mm) complete in all respects. b) concrete Gully trap	Each	20	3436.9	68738.00
14	15-A	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.	Per Set	30	9056.90	271707.00
		Total Rs.				925,684

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UNIVERSITY, FAISALABAD

ACADEMIC BLOCK

PUBLIC HEALTH

Non-Scheduled Items		Unit	Qty	Rate (Rs.)	Rate in Words	Amount (Rs.)
Sr. #	Description					
1	Proiding and fixing of WC apparatus European pattern complete (coupled set) comprising closet, 13 ltrs flushing cistern, glazed in any colour, seat cover complete set (IFO pattern or equivalent, width not less than 380 mm) fixed to concrete, brick, stone or wood work best quality, complete in all respects as per drawings, specifications and instructions of the Engineer In-charge.	Each	118			
2	Proiding and fixing of WC Asiatic pattern any colour incl foot rest, full orrisa pattern or equivalent) 13 ltrs flushing cistern, low down (plastic) flush pipe etc fixed to concrete, brick, stone or wood work, best quality Pak made, complete in all respects as per drawings, specifications and instructions of the Engineer In-charge.	Each	32			
3	Proiding and fixing of WHB with pedestal, glazed ware, size 660mm x 560 mm in any colour , one hole, complete with waste pipe, coupling, CP chain & plug, mixer and pedestal etc best quality (IFOpattern or equivalent) fixed to concrete, brick, stone or wood work, Pak made, complete in all respects as per drawings, specifications and instructions of the Engineer In-charge.	Each	20			
4	Proiding and fixing of vanity bowl white colour, glazed ware, one hole, complete with bottle trap waste coupling, chain and plug, mixer etc fixed to concrete, brick, stone or wood work, complete in all respects as per drawings, specifications and instructions of the Engineer In-charge.	Each	128			

Sr. #	Description	Unit	Qty	Rate (Rs.)	Words	(Rs.)
5	Providing and fixing of 25 mm thick white/coloured marble slab around vanity bowl, with brackets etc including cutting in shape with machine, rubbing, polishing and making the joints water tight, fixed to concrete, brick or stone work complete in all respects as per drawings, specifications and instructions of the Engineer In-charge.	Sft	1680			
6	Providing and fixing best quality imported earthen ware laboratory sink of 56 cm earthen ware, white glazed earthenware mounted on bolt kit, M.S. cantilever brackets or in slab painted and built into walls, 1-1/4" dia C.P. brass, waste with brass union, including C.P waste water pipe 1-1/4" dia, 1/2" dia C.P copper inlet connections, C.P drain pipe, C.P. lever handle toggle head mixer C.P. tee stop cocks with C.P. walls cups, connection etc. complete in all respects as per drawings, Technical Provisions and or as directed by the Engineer.	Each	25			
7	Providing and fixing of mirror any shape and pattern, circular, rectangular, oval etc 5 mm thick, imported (mirror foreign made) including cost of edging, fixing accessories complete in all respects as per drawings, specifications and instructions of the Engineer In-charge.	Sft	1000			
8	Providing and fixing of 3" dia uPVC floor trap including reducer etc complete in all respects as per drawings, specifications and instructions of the Engineer In-charge.	Each	507			
9	Providing and fixing of 4" dia uPVC floor trap including reducer etc complete in all respects as per drawings, specifications and instructions of the Engineer In-charge.	Each	207			

Sr. #	Description	Unit	Qty	Rate (Rs.)	Words	(Rs.)
10	Proiding and fixing of toilet shower best quality (Pak made) complete in all respects as per drawings, specifications and instructions of the Engineer In-charge.	Each	150			
11	Proiding and fixing of casted grating CP 4"x4" complete in all respects as per drawings, specifications and instructions of the Engineer In-charge.	Each	207			
12	Proiding and fixing of u-PVC Soil and waste pipe 3" with all fittings (i.e bend, tee, elbow, reducers etc) all as required complete with joint and rubber ring, complete in all respects as per drawings, specifications and instructions of the Engineer In-charge.	Rft	2450			
13	Proiding and fixing of u-PVC Soil and waste pipe 4" with all fittings (i.e bend, tee, elbow, reducers etc) all as required complete with joint and rubber ring, complete in all respects as per drawings, specifications and instructions of the Engineer In-charge.	Rft	1500			
14	Proiding and fixing of u-PVC Soil and waste pipe 6" with all fittings (i.e bend, tee, elbow, reducers etc) all as required complete with joint and rubber ring, complete in all respects as per drawings, specifications and instructions of the Engineer In-charge.	Rft	500			
15	Proiding and fixing of PPR pipe 25 mm dia approved brand with all fittings i.e socket, bend, tee, elbow, where required complete in all respects as per drawings, specifications and instructions of the Engineer In-charge.	Rft	2950			
16	Proiding and fixing of PPR pipe 32 mm dia approved brand with all fittings i.e socket, bend, tee, elbow, where required complete in all respects as per drawings, specifications and instructions of the Engineer In-charge.	Rft	1250			

Sr. #	Description	Unit	Qty	Rate (Rs.)	Words	(Rs.)
17	Proiding and fixing of PPR pipe 40 mm dia approved brand with all fittings i.e socket, bend, tee, elbow, where required complete in all respects as per drawings, specifications and instructions of the Engineer In-charge.	Rft	1750			
18	Proiding and fixing of PPR pipe 50 mm dia approved brand with all fittings i.e socket, bend, tee, elbow, where required complete in all respects as per drawings, specifications and instructions of the Engineer In-charge.	Rft	500			
19	Proiding and fixing of PPR pipe 75 mm dia approved brand with all fittings i.e socket, bend, tee, elbow, where required complete in all respects as per drawings, specifications and instructions of the Engineer In-charge.	Rft	200			
20	Proiding and fixing of PPR pipe 110 mm dia approved brand with all fittings i.e socket, bend, tee, elbow, where required complete in all respects as per drawings, specifications and instructions of the Engineer In-charge.	Rft	150			
	SUI-GAS / WATER					
21	Proiding and fixing of pipe, water quality (GI) with all fittings (i.e sockets, bends, tees, elbows where required) and laid complete in trenches or fixed to walls, floor (surface or concealed) and ceilings etc including caps and plugs as required 1/2" dia (medium) complete in all respects as per drawings, specifications and instructions of the Engineer In-charge.	Rft	500			
22	Proiding and fixing of pipe, water quality (GI) with all fittings (i.e sockets, bends, tees, elbows where required) and laid complete in trenches or fixed to walls, floor (surface or concealed) and ceilings etc including caps and plugs as required 3/4" dia (medium) complete in all respects as per drawings, specifications and instructions of the Engineer In-charge.	Rft	1500			

Sr. #	Description	Unit	Qty	Rate (Rs.)	Words	(Rs.)
23	Proiding and fixing of pipe, water quality (GI) with all fittings (i.e sockets, bends, tees, elbows where required) and laid complete in trenches or fixed to walls, floor (surface or concealed) and ceilings etc including caps and plugs as required 1" dia (medium) complete in all respects as per drawings, specifications and instructions of the Engineer In-charge.	Rft	1000			
24	Proiding and fixing of Tubes, water quality (GI) with all fittings (i.e sockets, bends, tees, elbows where required) and laid complete in trenches or fixed to walls, floor (surface or concealed) and ceilings etc including caps and plugs as required 2" dia (medium) complete in all respects as per drawings, specifications and instructions of the Engineer In-charge.	Rft	500			
25	Proiding and fixing of Tubes, water quality (GI) with all fittings (i.e sockets, bends, tees, elbows where required) and laid complete in trenches or fixed to walls, floor (surface or concealed) and ceilings etc including caps and plugs as required 4" dia (medium) complete in all respects as per drawings, specifications and instructions of the Engineer In-charge.	Rft	500			
26	Proiding and fixing of toilet Bib cock (double) brass,CP, screwed down, BSP , 1/2" dia, complete in all respects as per drawings, specifications and instructions of the Engineer In-charge.	Each	150			
27	Proiding and fixing of Non return valve or reflux valve, screwed 3/4" dia, complete in all respects as per drawings, specifications and instructions of the Engineer In-charge.	Each	10			

Sr. #	Description	Unit	Qty	Rate (Rs.)	Words	(Rs.)
28	Proiding and fixing of Valves Peet pattern strong gunmetal, high pressure "full way" valves with iron wheel head, screwed both ends for iron pipes , 2" dia, complete in all respects as per drawings, specifications and instructions of the Engineer In-charge.	Each	10			
29	Proiding and fixing of Air valve automatic, 2" size, double acting complete in all respects as per drawings, specifications and instructions of the Engineer In-charge.	Each	10			
	Total Rs.					

BILL OF QUANTITIES
FOR ESTABLISHMENT OF CHINIOT CAMPUS OF GOVERNMENT COLLEGE UNIVERSITY,
FAISALABAD
ACADEMIC BLOCK

ELECTRICAL WORKS

[Scheduled Items] (1st BI Annual 2021 (Jan - Jun) District. Chiniot)			Unit	QTY.	Rate (Rs)	Amount (Rs.)
Sr. #	MRS Item #	Description				
CH.No.24		ELECTRICAL INSTALLATION				
1	3	Supply and erection of PVC pipe for wiring recessed in walls, including inspection boxes, pull boxes, hooks, cutting jharries, 38.5 and repairing surface, etc., complete with all specials.				
a		iii) 25 mm i/d	Per Rft	1250	58.45	73,063
b.		v) 40 mm i/d	Per Rft	500	91.70	45,850
2	6	Supply and erection PVC pipe for recessed wiring (main and sub-main) purpose, including bends, specials, etc. in floor, wall or trenches:-				
a		ii) 80 mm i/d	Per Rft	550	140.30	77,165
b.		iii) 100 mm i/d	Per Rft	750	175.80	131,850
3	13	Supply and erection of copper conductor cables for service connection, in prelaid pipe/G.I. wire/trenches, etc. (rate for cable only):- c) PVC insulated, PVC sheathed 4 core, 660/1100 volt non armoured cable:-				
a		vi) 7/1.63 mm (7/0.064") (4 x 16 mm2)	Per Rft	1500	272.40	408,600
4		Supply and erection of copper conductor cables for service connection, in prelaid pipe/G.I. wire/trenches, etc. (rate for cable only):- d) PVC insulated, PVC sheathed 4 core 660/1100 volt grade cable, armoured with G.I. wire 16 SWG.				
a		viii) 37/2.62 mm (37/0.103") (4 x 185 mm2)	Per Rft	450	3,707.05	1,668,173
b.		vi) 37/2.11 mm (37/0.083") (4 x 120 mm2)	Per Rft	2250	2,443.80	5,498,550
c		v) 37//1.83 mm (37/0.072") (4 x 95 mm2)	Per Rft	960	1,933.60	1,856,256
d		iii) 19/1.83 mm (19/0.072") (4 x 50 mm2)	Per Rft	875	1,017.00	889,875

ELECTRICAL WORKS

[Scheduled Items] (1st BI Annual 2021 (Jan - Jun) District. Chiniot			Unit	QTY.	Rate (Rs)	Amount (Rs.)
Sr. #	MRS Item #	Description				
e		ii) 19/1.63 mm (19/0.064") (4 x 35 mm2)	Per Rft	3250	752.30	2,444,975
f		i) 19/1.32 mm (19/0.052") (4 x 25 mm)	Per Rft	950	564.00	535,800
TOTAL Rs.						13,630,156

**BILL OF QUANTITIES
FOR ESTABLISHMENT OF CHINIOT CAMPUS OF GOVERNMENT
COLLEGE UNIVERSITY, FAISALABAD
ACADEMIC BLOCK
SUB SUMMARY OF PRICE**

ELECTRICAL WORKS

Non-Scheduled Items		
Sr. No.	Description	Non-Schedule Items
SECTION-1	WIRING OF POINTS / OUTLETS	
SECTION-2	WIRING ACCESSORIES	
SECTION-3	FANS	
SECTION-4	LIGHTING FIXTURES	
SECTION-5	PVC CONDUITS / UPVC PIPES	
SECTION-6	CABLES	
SECTION-7	POWER DISTRIBUTION SYSTEM	
SECTION-8	EARTHING AND LIGHTNING PROTECTION	
SECTION-9	FIRE ALARM SYSTEM	
SECTION-10	TELEPHONE CABLING	
SECTION-11	SUB-STATION	
TOTAL (Rs.)		

BILL OF QUANTITIES
FOR ESTABLISHMENT OF CHINIOT CAMPUS OF GOVERNMENT COLLEGE UNIVERSITY,
FAISALABAD
ACADEMIC BLOCK

ELECTRICAL WORKS

Non-Scheduled Items		Unit	QTY.	Rate (Rs)	Rate in Words	Amount (Rs.)
Sr. #	Description					
SECTION -1						
	<u>Points and Outlets wiring.</u>					
	Wiring with Low Smoke Zero Halogen Fire Retardant (LSZH) 450/750 V CU/PVC wires approved make (including circuit wiring & insulated E.C.C)					
1	Supply and Wiring of light circuit from DB to switchboard and switch board to switch board with 2x2.5mm2 & 1x1.5mm single core cables including 16 SWG steel box, PVC pipe approved make from D.B to point complete in all respects as per drawings, specifications and instructions of the Engineer In-charge.	Each	275			
2	Wiring for one light or exhaust / bracket fan point controlled by one switch wired with 2x1.5mm ² +1x1.5mm ² wires with circuit 2x2.5mm ² +1x1.5mm ² wires including 16 SWG steel box, PVC pipe approved make from D.B to point complete in all respects as per drawings, specifications and instructions of the Engineer In-charge.	Each	550			
3	As above but 2 points controlled by 1 Switch.	Each	585			
4	As above but 3 points controlled by 1 Switch.	Each	75			
5	As above but 4 points controlled by 1 Switch.	Each	65			
6	As above but 1/2 point controlled by 2 Two way Switchs.	Each	40			
7	Wiring for ceiling fan point , wired with 2x1.5mm ² +1x1.5mm ² wires & 16 SWG steel box, Switch, Dimmer, Fan Box complete in all respects as per drawings, specifications and instructions of the Engineer In-charge.	Each	524			
8	Supply and fix 4 - 8 light points controlled by one MCB in DB with wiring in 2x2.5 mm ² + 1x2.5 mm ² insulated ECC complete in all respects as per drawings, specifications and instructions of the Engineer In-charge..	Each	150			

ELECTRICAL WORKS

Non-Scheduled Items		Unit	QTY.	Rate (Rs)	Rate in Words	Amount (Rs.)
Sr. #	Description					
9	As above but wiring for 10 Amp universal switch socket outlet wired with 2x2.5mm ² + 1x1.5mm ² wires from D.B with 16 SWG steel outlet box and PVC pipe complete in all respects as per drawings, specifications and instructions of the Engineer In-charge.	Each	285			
10	As above but from outlet to outlet	Each	450			
11	As above but wiring for 20amp Switch socket wired with 2x4mm ² + 1x2.5mm ² wires from DB with 16SWG steel outlet box and PVC pipe complete in all respects as per drawings, specifications and instructions of the Engineer In-charge.	Each	350			
TOTAL FOR SECTION-1						Rs.

ELECTRICAL WORKS

Non-Scheduled Items		Unit	QTY.	Rate (Rs)	Rate in Words	Amount (Rs.)
Sr. #	Description					
SECTION - 2						
	<u>WIRING ACCESSORIES</u>					
1	Supply and installation of the following accessories Approved make complete in all respects as per drawings, specifications and instructions of the Engineer In-charge.					
a.	10 Amp one way SP switch. In one, gang formation	Each	50			
b.	10 Amp one way SP switch. In two gang formation	Each	110			
c.	10 Amp one way SP switch. In three gang formation	Each	135			
d.	10 Amp one way SP switch. In four gang formation	Each	95			
e	10 Amp one way SP switch. In Six gang formation	Each	105			
2	10 Amp two way gang switch	Each	40			
3	10 Amp Universal Socket with switch (Multy).	Each	635			
4	3 pin 20Amp Switch socket outlet complete with plug	Each	350			
TOTAL FOR SECTION-2					Rs.	

ELECTRICAL WORKS

Non-Scheduled Items		Unit	QTY.	Rate (Rs)	Rate in Words	Amount (Rs.)
Sr. #	Description					
SECTION - 3						
	FANS					
1	Supply Instalaltion Testing of Following Cielling Fans (2x2) Cielling Fan Recccesed in cielling 18" Dia approved make complete in all respects as per drawings, specifications and instructions of the Engineer In-charge.	Each	50			
2	Supply and installation of the following Fans approved make complete in all respects as per drawings, specifications and instructions of the Engineer In-charge.					
i	Ceiling fan 56"/48" sweep including extra hanging rod (if required)	Each	524			
ii	Exhaust fan 12" sweep plastic body complete with louvers.	Each	8			
iii	Exhaust fan 18" sweep with G.I Sheet louvers.	Each	48			
iv	Wall bracket fan 18" sweep.	Each	28			
TOTAL FOR SECTION-3						Rs.

ELECTRICAL WORKS

Non-Scheduled Items		Unit	QTY.	Rate (Rs)	Rate in Words	Amount (Rs.)
Sr. #	Description					
SECTION - 4						
	LIGHT FIXTURES					
	INCLUDING SUSPENSION/ FIXING MATERIAL					
	Supply and Installation of LED light fittings of approved make All the light fixture have the efficacy of 100 lumens/Watt & have 2 years of standard replacment warranty. The power factor of the light fitting should >0.9 & have <15% THD. The color shifting of the LED Source should not be greater than 5 SDCM for indoor light. The driver should be Meanwell or approved equivalent complete in all respects as per drawings, specifications and instructions of the Engineer In-charge..					
1	Surface mounted Ceiling 10-12 Watt LED down lighter.	Each	1050			
2	Surface mounted Ceiling 15-18 Watt LED down lighter.	Each	495			
3	Ceiling recessed 15/18 Watt LED down lighter.	Each	75			
4	surface mounted tornado type LED light fitting (4 feet long) with 36/40 watt) LED.	Each	150			
5	LED light fitting (4 feet long) with 18 watt) LED.	Each	50			
6	Decorative weatherproof Bulk Head light IP65 with 12Watt LED lamp.	Each	40			
TOTAL FOR SECTION-4					Rs.	

ELECTRICAL WORKS

Non-Scheduled Items		Unit	QTY.	Rate (Rs)	Rate in Words	Amount (Rs.)
Sr. #	Description					
SECTION - 5						
2	Supply and fixing of perforated cable tray 16 SWG galvanized steel sheet with mounting and accessories complete in all respect as per drawings and instructions of the Engineer.					
a.	12" x 4"	Rft	650			
b.	18"x 4"	Rft	225			
c.	24" x 4"	Rft	50			
TOTAL FOR SECTION-5						Rs.
SECTION - 6						
	CABLES					
1	Supply and laying of approved make Low Smoke Zero Halogen Fire Retardant (LSZH) Multicore cable PVC (SWA) PVC 600 / 1100 V grade copper conductor complete in all respects as per drawings, specifications and instructions of the Engineer In-charge.					
a.	4 x 240 mm2	Rft	850			
b.	4 x 300 mm2	Rft	650			
TOTAL FOR SECTION-6						Rs.

ELECTRICAL WORKS

Non-Scheduled Items		Unit	QTY.	Rate (Rs)	Rate in Words	Amount (Rs.)
Sr. #	Description					
SECTION - 7						
1	Sub Main Distribution Boards					
	<u>INCOMING (Normal)</u>					
	1-200 ATP MCCB (ICS 15 KA)					
	1-Digital voltmeter+volt selector switch					
	1-Digital ammeter+ammeter selector switch					
	3-C.T.'s ratio 200/5A					
	3-Phase indications lights+control fuses/MCB's (2A).					
	<u>OUTGOING</u>					
	5-100 ATP MCCB (ICS 15 KA)					
	2-40 ATP MCCB (ICS 15 KA)					
		Each	4			
2	Sub Main Distribution Boards (Emergency)					
	<u>INCOMING</u>					
	1-150 ATP MCCB (ICS 15 KA)					
	1-Digital voltmeter+volt selector switch					
	1-Digital ammeter+ammeter selector switch					
	3-C.T.'s ratio 200/5A					
	3-Phase indications lights+control fuses/MCB's (2A).					
	<u>OUTGOING</u>					
i).	5-80 ATP MCCB (ICS 15 KA)					
ii).	2-40 ATP MCCB (ICS 15 KA)					
		Each	4			
3	<u>Distribution Board Normal</u>					
	<u>Incoming</u>					
	1x160 A TP MCCB (15 - KA)					
	<u>Outgoing</u>					
	18 Nos 10 Amp SP (MCB) (6-KA)					
	20 Nos 16 Amp SP (MCB) (6-KA)					
	1 Nos 25 Amp TP (MCB) (6-KA)					
	1 Nos 32 Amp TP (MCB) (6-KA)	Each	16			

ELECTRICAL WORKS

Non-Scheduled Items		Unit	QTY.	Rate (Rs)	Rate in Words	Amount (Rs.)
Sr. #	Description					
3	<u>Distribution Board (Emergency)</u>					
i)	<u>Incoming</u>					
	1x100 A TP MCCB (15 - KA)					
	<u>Outgoing</u>					
	18 Nos 10 Amp SP (MCB) (6-KA)					
	20 Nos 16 Amp SP (MCB) (6-KA)	Each	16			
	<u>Distribution Board (Miscellaneous)</u>					
i).	<u>Incoming</u>					
	1x100 A TP MCCB (15 - KA)					
	<u>Outgoing</u>					
i).	24 Nos 6/10/15/20 Amp SP (MCB) (6-KA)	Each	4			
4	Enclosed MCCB 30 A with indication lamp.	Each	4			
5	As above but 60 A TP MCCB - (15 - KA)	Each	4			
6	As above but 100 A TT MCCB - (15 - KA)	Each	4			
7	As above but 200 A TP MCCB - (25 - KA)	Each	4			
TOTAL FOR SECTION-7					Rs.	

ELECTRICAL WORKS

Non-Scheduled Items		Unit	QTY.	Rate (Rs)	Rate in Words	Amount (Rs.)
Sr. #	Description					
SECTION - 8						
	Earthing and Lightning Protection					
1	Supply and installation of Earthing comprising copper plate 24" x 24" x 1/4" placed at 20 feet depth not less than 10 feet away from the building foundations, connecting to the distribution board/generator body by double run of Earthing Lead including excavation and back filling with coal, lime & salt mixture in 1:1:1 ratio around the plate, and fixing 1/2" dia G.I. water and feed pipe to full depth of excavation, including cost of brick masonry chamber of 12" x 12" clear size inside duly plastered inside, M.S. hinged cover of 16 SWG thick M.S. sheet and 1" x 1" x 1/8" angle iron frames, duly enamel painted, complete as per specification and as directed. The chamber is to be constructed on firm/original ground to avoid settlement complete in all respects as per drawings, specifications and instructions of the Engineer In-charge.	Each	25			
2	Supply and laying of approved make Copper conductor PVC insulated Low Smoke Zero Halogen Fire Retardant (LSZH) 450/750 V single core cable as ECC along cable runs and Earthing Lead complete in all respects as per drawings, specifications and instructions of the Engineer In-charge.					
i	1 x 70 mm ²	Rft	1000			
ii	1 x 50 mm ²	Rft	350			
iii	1 x 35 mm ²	Rft	350			
iv	1 x 25 mm ²	Rft	500			
v	1 x 16 mm ²	Rft	1500			
vi	1 x 10 mm ²	Rft	500			
3 (a).	Supply, fixing of 1"x1/8" copper strip on walls, parapet of the building including Copper Saddles, nails and all other necessary fixing material complete in all respects as per drawings, specifications and instructions of the Engineer In-charge.	Rft	1950			

ELECTRICAL WORKS

Non-Scheduled Items		Unit	QTY.	Rate (Rs)	Rate in Words	Amount (Rs.)
Sr. #	Description					
(b).	Supply, installation and commissioning of test point 250 mm x 75 mm x 6 mm complete in all respects as per drawings, specifications and instructions of the Engineer In-charge.	Each	30			
(c).	Supply, installation and commissioning of lightning protection air terminal, 20 mm dia and 450 mm long copper rod (Air Terminal) complete in all respects as per drawings, specifications and instructions of the Engineer In-charge.	Each	15			
(d).	Supply, installation and commissioning of 20mm dia 3 meter long copper rod as earth electrode for lightning protection system including the cost of concrete pit and all necessary material complete with 300mm x 300 x 300mm inspection chamber with CI cover,complete in all respects as per drawings, specifications and instructions of the Engineer In-charge.	Each	15			
TOTAL FOR SECTION-8						Rs.

ELECTRICAL WORKS

Non-Scheduled Items		Unit	QTY.	Rate (Rs)	Rate in Words	Amount (Rs.)
Sr. #	Description					
SECTION - 9						
	<u>Fire Alarm System:</u> Providing, fixing, testing and commissioning of the following Fire Alarm equipment make Velex, Gent, Menvire, Photain, Simplex, Ziton,Honey Well or approved equivalent complete in all respects as per drawings, specifications and instructions of the Engineer In-charge.					
1	<u>Addressable Fire Alarm control panel.</u> Compact 4 loop panel with 1 loop card and batteries with, 1 loop capacity maximum 200, with all necessary fittings & Accesries complete in all respects as per drawings, specifications and instructions of the Engineer In-charge.	Each	1			
2	10 Zone <u>repeater Fire Alarm control panel</u> with power supply, with all necessary fittings & Accesries complete in all respects as per drawings, specifications and instructions of the Engineer In-charge.	Each	2			
3	<u>Addressable optical smoke detector:</u> Optical smoke detector for general fire detection application with common base plate, diodes nominal voltage 9-28v dc Operating temp.= -10°c to+50°c with all necessary fittings & Accesries complete in all respects as per drawings, specifications and instructions of the Engineer In-charge.	Each	325			
4	<u>Addressable optical Heat detector:</u> Optical smoke detector for general fire detection application with common base plate, diodes nominal voltage 9-28v dc Operating temp.= -10°c to+50°c with all necessary fittings & Accesries complete in all respects as per drawings, specifications and instructions of the Engineer In-charge.	Each	35			

ELECTRICAL WORKS

Non-Scheduled Items		Unit	QTY.	Rate (Rs)	Rate in Words	Amount (Rs.)
Sr. #	Description					
5	<u>Addressable manual call points:</u> Manual call stations are manufactured From ABS with plastic covered push glass, Nominal voltage 24 v dc , Operating temp.= 0°c to+50°c with all necessary fittings & Accesries complete in all respects as per drawings, specifications and instructions of the Engineer In-charge.	Each	48			
6	<u>Addressable Flasher Wall sounder:</u> with both audible and visual alaram signals (flash), bulit in volume level control and short circuit isolater, with all necessary fittings & Accesries complete in all respects as per drawings, specifications and instructions of the Engineer In-charge.	Each	16			
7	<u>Fire Retendent Cable:</u> Providing, laying and connecting approved make Low Smoke Zero Halogen Fire Retardant (LSZH) of 2 core 1.5mm ² copper conductor fire retendent cable (draka, perle UK or approved Equivalent)complete in all respects as per drawings, specifications and instructions of the Engineer In-charge.	Rft	9150			
8	Providing and laying of PVC conduit in roof slab, walls, ceiling etc. 3/4" (20mm) dia complete in all respects as per drawings, specifications and instructions of the Engineer In-charge.	Rft	3200			
TOTAL FOR SECTION-9					Rs.	

ELECTRICAL WORKS

Non-Scheduled Items		Unit	QTY.	Rate (Rs)	Rate in Words	Amount (Rs.)
Sr. #	Description					
SECTION - 10						
	<u>Telephone Cabling</u>					
1	Supply and laying of approved make PVC conduit in roof slabs walls , floor or under ground complete in all respects as per drawings, specifications and instructions of the Engineer In-charge.					
a.	1" dia (25 mm dia)	Rft	2500			
b.	3/4" dia (20 mm dia)	Rft	2000			
2	Supply and laying of approved make PVC Pipe 2" dia laid underground complete in all respects as per drawings, specifications and instructions of the Engineer In-charge.	Rft	100			
3	Supply and laying of approved make Telephone Cable Low Smoke Zero Halogen Fire Retardant (LSZH) 2 pairs complete in all respects as per drawings, specifications and instructions of the Engineer In-charge..	Rft	5000			
4	Supply and laying of approved make Telephone cable Low Smoke Zero Halogen Fire Retardant (LSZH) 10 pairs complete in all respects as per drawings, specifications and instructions of the Engineer In-charge.	Rft	550			
5	Supply and laying of approved make Telephone cable Low Smoke Zero Halogen Fire Retardant (LSZH) 20 pairs complete in all respects as per drawings, specifications and instructions of the Engineer In-charge.	Rft	250			
6	Supply and laying of approved make Telephone cable Low Smoke Zero Halogen Fire Retardant (LSZH) 30 pairs complete in all respects as per drawings, specifications and instructions of the Engineer In-charge.	Rft	250			
7	Supply and fix of approved make Telephone Junction Box 10 Pairs complete in all respects as per drawings, specifications and instructions of the Engineer In-charge.	Each	4			
8	Supply and fix of approved make Telephone Junction Box 20 pairs complete in all respects as per drawings, specifications and instructions of the Engineer In-charge.	Each	4			

ELECTRICAL WORKS

Non-Scheduled Items		Unit	QTY.	Rate (Rs)	Rate in Words	Amount (Rs.)
Sr. #	Description					
9	Supply and fix of approved makeTelephone Junction Box 30 pairs complete in all respects as per drawings, specifications and instructions of the Engineer In-charge.	Each	2			
10	Supply and fix of approved makeTelephone sacket outlet with back box complete in all respects as per drawings, specifications and instructions of the Engineer In-charge.	Each	112			
TOTAL FOR SECTION-10						Rs.

ELECTRICAL WORKS

Non-Scheduled Items		Unit	QTY.	Rate (Rs)	Rate in Words	Amount (Rs.)
Sr. #	Description					
SECTION - 11						
	<u>Power Distribution System</u>					
	Supply, Installation & Commissioning of sheet metal clad totally enclosed free standing, front excess LT-SWITCH BOARD frames fabricated from 14-SWG sheet steel derusted phosphated & with electrostatic paint of approved color, and suitable for system voltage 400/230,50 Hz., 3 phase & Neutral bus bars (Rated as per incoming breaker) of 99.99% electrolytic copper conductor, rated to a minimum short circuit of 75 KA for 3 seconds. Earthing link, Internal wiring. The switch board shall be equipped with following air circuit breakers/moulded case circuit breakers rated at 50 °C of specified breaking capacity. Shop drawings shall be submitted by the contractor for approval before the manufacture of all distribution equipment all breakers, instrumentations and other materials shall be make LEGRAND/ABB/TERASAKI/ SCHNEIDER as listed in Annexure "A".complete in all respects as per drawings, specifications and instructions of the Engineer In-charge.					
1	Main LT Panel Having 2 Incomig From Wapada With Complete 2No. PFI Plant Having Following Icomig & Out Goings					
	incoming From Wapda					
i	ACB 1600 A TP 65KA					
ii	1-Digital voltmeter+volt selector switch					
iii	1-Digital ammeter+ammeter selector switch					
iv	3-C.T.'s ratio 1600/5A					
v	3-Phase indication light+control fuses/MCB's (2A).					
vi	1-4 pole voltage surge protector (100 KA) make PHONEIX/LEGRAND/LEUTRON.					
vii	Including all components as required, to complete the job.					
viii	Phase Reversal Protection Relay for protection					
	Outgoing Wapda					

ELECTRICAL WORKS

Non-Scheduled Items		Unit	QTY.	Rate (Rs)	Rate in Words	Amount (Rs.)
Sr. #	Description					
i	1 No. Of MCCB 400A TP 50KA (NS 800N)					
ii	2 No. Of MCCB 300A TP 50KA (NSX630N)					
iii	3 No. Of MCCB 200A TP 50KA (NSX400N)					
iv	8 No. Of MCCB 100A TP 36KA (NSX250F)	Each	1			
2	PFI Plant (400KVAR)					
i	1 No. LBS 1600A TP					
ii	1 No. C.T 1600/5A					
iii	6 No. Capacitor 50 KVAR					
iv	5 No. Capacitor 50 KVAR					
v	2 No. Capacitor 25 KVAR					
vi	7 No. Magnetic Contactor SC - N7					
vii	5 No. Magnetic Contactor SC - N5					
viii	2 No. Magnetic Contactor SC - N3					
ix	Indaction Lights Bush Battons etc.					
x	Including all components as required, to complete the job.	Each	1			
3	Supply and installing of Power Transformer 630 KVA (WAPDA Standard) along with all necessary arrangements such as moving steel trolley etc complete in all respects as per drawings, specifications and instructions of the Engineer In-charge.	Each	1			
4	3 x 1-Core, 120 sq.mm PVC/SWA/XLPE/PVC HT Cable Low Smoke Zero Halogen Fire Retardant (LSZH) letc complete in all respects as per drawings, specifications and instructions of the Engineer In-charge.	Rft	500			
5	Supply and fix H.T Pannel complete in all respects as per drawings, specifications and instructions of the Engineer In-charge.	Each	1			
6	To obtain electrical connection from Electricity Department. (Demand notice to be paid by the client)	Each	1			
TOTAL FOR SECTION-11				Rs.		