

**SHAHEED BENAZIR BHUTTO UNIVERSITY
SHERINGAL DIR UPPER KHYBER PAKHTUNKHWA
PAKISTAN.**

- **BUILDING ITEM: "CONSTRUCTION OF ACADEMIC BLOCK"**
- **PROJECT NAME: "DEVELOPMENT OF UNIVERSITY OF DIR SHERINGAL".**
- **SPONSORING AGENCY: HIGHER EDUCATION COMMISSION, ISLAMABAD.**
- **FUNDING AGENCY: PLANNING COMMISSION, PAKISTAN.**

Bill of Quantities (BOQ)

VOLUME-III

August, 2018

Bidder/Contractor signature /stamp



**ASSOCIATED CONSULTING ENGINEERS –
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Project Director/
Director of Works
/Directorate of Planning &
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Shaheed Benazir Bhutto
University Sheringal Dir Upper



ISO 9001 Certified

BILL OF QUANTITIES/PREAMBLE

1. The items mentioned in Bill of Quantities consist of furnishing all plant, labour, Equipments, Machinery, appliances, materials, fittings, fixtures and fabrication, erection, installation required for completing the items/works and the works shall be done in accordance with bill of quantities, specifications and Drawings complete in all respect. The rate includes all taxes, GST, other Government taxes, duties, levies applicable as per law of state set forth or implied in the Contract, except for the amount reimbursable (if any) under the contract.

Unless otherwise stipulated in the Conditions of Contract, the rates and prices entered by the bidder shall not be subject to adjustment during the performance of the Contract.

2. Complete description of items of work in Bill of Quantities, general direction, conditions and limitation of work, location and place of work, applicable methods, means to be adopted, type and quality of materials use of tools, plant and machinery are not necessarily mentioned in the description column of Bill of Quantities. These shall be referred to in accordance with Specifications and drawings.

3. The bidder may ensure himself for the correctness of quantities and application of the individual items for works as per Drawings, Specifications and Contract Documents.

4. The Quantities contained in the Bill of Quantities are approximate estimated quantities and liable to be changed (increase/decrease) or omitted when the work will be actually executed. The Engineer is authorized to vary or delete any item of work or any item of Bill of Quantities. The Engineer also authorized to include any number of new items in accordance with Contract conditions same in so far as specified under the terms and conditions laid down in General Conditions of Contract.

No claim for the payment will be admissible on account of anticipated profit or variation in overhead expenditures for the works not actually performed nor will any adjustment in the unit rate set- forth in the Bill of Quantities be made because of any increase or any decrease in the quantities indicated therein.

5. The prices and rates quoted in the Bill Quantities are full inclusive value of the works described under specified items including all cost and expenses which may be required in and for the construction of the works described together with all risks, liabilities and obligations set forth and implied in all the documents referred to on which the tender is based.

6. Unless otherwise stated in the text of the Bill of quantities, the quantities have to be measured and paid in accordance with measurement and payment of works clauses given in the relevant

7. THE BIDDER SHALL QUOTE %AGE PREMIUM OR REBATE OR AT PAR FOR THE ITEMS BASED ON MARKET RATE SYSTEM (MRS 2017) AND NON MRS, GIVEN IN THE BOQ. AND TENDER COST SHALL BE EVALUATED BY ADDING TOTAL COST OF MRS AND NON MRS ITEMS ACCORDINGLY.

8. The tenderer should not make any addition or alternation in the tender documents. Tenders with addition or alteration shall be liable for rejection. Tenderer shall duly sign and stamp all pages of BOQ/Volume -III.

9. Bill of Quantities shall be read in conjunction with Conditions of Tender Documents, Technical Specifications and Drawings.

10. For any item of work listed in the BOQ, if the discrepancy between BOQ (MRS Item No, unit, rate or description) is noticed, in that case MRS(2017) shall prevail. In discrepancy is notice in Non MRS Items then Specifications/Rate analysis present Engineer Estimate will prevail.

11. The following abbreviations for the Units have been used in bill of Quantities.

Unit	Abbreviations
Running Feet	- Rft. /Ft.
Running Meter	- M
Square Feet	- Sft.
Cubic Feet	- Cft.
Meter Ton	- M. Ton
Per number	- No. / Each
Lump Sum Job	- Job
Kilogram	- Kg

SHAHEED BENAZIR BHUTTO UNIVERSITY, SHERINGAL, DIR UPPER
PROJECT/PC-I NAME: DEVELOPMENT OF UNIVERSITY OF DIR, SHERINGAL, DIR UPPER
CONSTRUCTION OF ACADEMIC BLOCK
PRICED BILL OF QUANTITIES
TENDER COST SUBMITTED BY THE CONTRACTOR

A. MRS ITEMS (M.R.S 2017)

PREAMBLE(-Ref P-1.....2/26)

Summary page (-Ref P-3.....3/26)

1	Civil Works-----(-Ref P-4.....8/26)	Rs.	180,544,898.37
2	Public Health Works-----(-Ref P-13....15/26)	Rs.	2,430,062.27
3	Electrical Works-----(-Ref P-17...19/26)	Rs.	9,872,215.10
Sub-Total (A)		Rs.	192,847,175.74

B. NON MRS ITEMS

1	Civil Works-----(-Ref P-9...12/26)	Rs.	45,155,299.05
2	Public Health Works-----(-Ref P-16...16/26)	Rs.	1,314,860.04
3	Electrical Works.....(Ref P-20...26/26)	Rs.	7,962,743.05
Sub-Total (B)		Rs.	54,432,902.14

Total(A+ 'B) Rs. 247,280,077.88

Total Schedule +Non Schedule Amount Rs. 247,280,077.88

Percentage below/ above/at par on M.R.S items+Non MRS items (in figure) _____ below/above/at par Rs. _____

Amount of below/ above/at par on M.R.S items (in words) RS _____ Rs. _____

GRAND TOTAL FOR BOQ MRS & NON MRS ITEMS (A+B) Rs. _____

TOTAL AMOUNT FOR BOQ MRS & NON MRS ITEMS (A+B) IN WORDS RS. _____

**BIDDER /CONTRACTOR
SIGNATURE/STAMP**

Bid Opening & Evaluation committee
 SBBU SHERINGAL, DIR UPPER
 SIGNATURE/STAMP

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CIVIL WORKS						
(MRS Items)						
ITEM NO	DESCRIPTION	Total Quantity	UNIT	UNIT RATE (Rs)	AMOUNT (Rs)	Ref: MRS 2017 Item-Page
(1)	(2)	(3)	(4)	(5)	(6)	(7)
	General					
	All items of civil works described under title "Description" unless specifically indicated otherwise, shall be deemed to be read in terms of supply, storing, protecting, making, assembling, installing, applying, 'laying, fixing, testing, commissioning, clearing etc. of the same inclusive of but not limited to all materials, labour, tools, plants equipments, appliances etc. as required for the completion and 'maintenance of the civil work as per drawings, specifications, and/or as directed by the Engineer Incharge.					
EARTH WORK (Excavation)						
1	Excavation in foundation of building, bridges etc complete : in ordinary soil	97,417	1000Cft	6,075.00	591,808.82	3-23-b-P-10
2	Excavation in foundation of building, bridges etc complete : in hard soil or soft murum	32,472	1000Cft	6,806.25	221,015.02	03-23-c-P-10
3	Excavation in foundation of building, bridges etc complete: in shingle/gravel	32,472	1000Cft	7,740.00	251,336.09	03-23-d-P-10
4	Filling, watering and ramming earth under floor with surplus earth from foundation, etc	108,241	1000Cft	2,925.00	316,605.54	3-16-a-P-8
5	Filling, watering and ramming earth under floor with earth excavated from outside lead upto 50m	163,343	1000Cft	6,018.75	983,122.29	3-16-b-P-9
6	Rehandling of earthwork upto a lead of 25 m.	163,343	1000Cft	1,968.75	321,582.06	03-14-b-P-8
7	Transportation of earth all types lead upto 8Km	163,343	1000Cft	18,843.75	3,077,999.68	03-17-a ,03-18-a ,03-18-b,03-18-c
8	Spraying antitermite liquid mixed with water in the ratio of 1:40	68,498	100Sft/Spr	126.26	86,486.14	26-15-P-158
CONCRETE						
9	RCC in raft foundation slab, base slab of column & ret.wall etc, not including in 06-06 Type B (1:1.5:3)	25,908	100Cft	27,536.45	7,134,255.36	6-06-b-02 P-24
10	RCC in roof slab, beam, column & other structural members, insitu or precast. Type B (1:1.5:3)	74,471	100 Cft	29,905.65	22,270,957.28	6-06-a-02-P-24
11	PCC 1:3:6 in mass concrete less formwork using 50% boulders	48,600	Cft	116.028	5,638,936.50	06-36-a
12	Errection and removal of steel Form work for RCC or Plain Concrete vertical	16,390	100 Sft	7,177.19	1,176,341.44	06-39-b-P-29
13	Add extra labour for RCC in 2nd & subsequent storeys	31,026	100 Cft	2,390.63	741,723.72	06-06-e-P-25

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(MRS Items)						
ITEM NO	DESCRIPTION	Total Quantity	UNIT	UNIT RATE (Rs)	AMOUNT (Rs)	Ref: MRS 2017 Item-Page
14	Supply and 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).					
a)	Hot rolled Deformed bars Minimum tensile strength 40,000 psi.	57,035.66	Kg	107.56	6,135,007.07	6-7-c-P-25
b)	Hot rolled Deformed bars Minimum tensile strength 60,000 psi.	287,847.98	Kg	111.60	32,123,512.09	06-07-b-P-25
15	Damp proof course of cem. conc. 1:2:4 including bitumen coat, 1 layer polythene & 2 coats bitumen (2" thick)	1,667	100sft	6,684.52	111,431.62	6-22-b-02-P-27
16	V. Damp proof c/s plaster, 1 layer polythene 1 coats bitumen Ratio 1:2 (0.75" thick)	1,634	100sft	4,506.26	73,647.83	6-24-a-06 P-28
17	Supplying and Fixing PVC Water Stopper 8" wide 3/8" thick	266.76	Rft	134.35	35,839.21	24-40-P-153
18	Plain Cement Concrete including placing, compacting, finishing & curing (Ratio 1:4:8)	8,386	100Cft	15,520.68	1,301,501.75	06-05-I-P-24
BRICK MASONARY						
19	Pacca brick work in foundation and plinth in Cement, sand mortar 1:6	5,503	100Cft	21,983.77	1,209,712.93	07-04-a-05-P-31
20	Pucca brick work in Ground Floor in cement sand mortar 1:5	72,415	100Cft	23,935.85	17,333,123.64	7-05-a-04-P-32
21	Add extra on item No.07-05 for brick work in First floor	22,687	100Cft	1,181.63	268,072.38	07-06-a-P-32
22	Add extra on item No.07-05 for brick work in Second floor	22,815	100Cft	2,250.38	513,434.83	07-06-b-P-32
23	Add extra on item No.07-05 for brick work in Third floor (R. Shed)	5,268	100Cft	3,319.13	174,836.33	07-06-c-P-32
24	Pacca brick work in ground floor Cement, sand mortar 1:4	5,647	100Cft	24,417.75	1,378,973.20	07-05-a-03-P-32
25	Add extra on item No.07-05 for brick work in First floor	1,907	100Cft	1,181.63	22,532.43	07-06-a-P-32
26	Add extra on item No.07-05 for brick work in Second floor	1,907	100Cft	2,250.38	42,912.36	07-06-b-P-32
27	Brick tiles (9"x4.5"x1.5") laid flat in 1:3 c/s mortar over a bed of 3/4" thick cement mortar 1:6	234.64	100Sft	9,110.29	21,376.38	10-11-P-52
FLOORING						
28	Plain Cement Concrete including placing, compacting, finishing & curing (Ratio 1:2:4)	14,252	100Cft	20,551.960	2,929,037.66	06-05-f-P-24
29	Dry rammed shingle brick ballast or stone ballast 1.5" to 2" guage	28,504	100Cft	3,378.42	962,975.74	06-02-P-23
30	Supplying and filling sand under floor or plugging in wells	19,519	100Cft	2,999.89	585,553.91	7-30-P-37

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31	P/F Ceramic Floor Tiles (Emco, National or eq) Size : 12"x 12"	4,953	100Sft	16,507.56	817,626.90	10-46-a-P-56
32	Glazed tile dado 1/4" thick in pigment over 1:2 c/s mortar 3/4" thick including finishing complete	11,892	100Sft	14,571.55	1,732,915.76	10-39-P-56
33	Brick on edge flooring, laid in 1:6 c/s mortar, over a bed of 3/4" thick cement mortar 1:6	24,056	100 Sft	9,575.76	2,303,565.89	10-09-P-52
34	Shisham wood block flooring 1" thick out to required size, fixed on a layer of bitumen base	310	100 Sft	85,481.16	264,938.17	10-33-P-55
Road work (Access Road for Academic Block)						
35	Clearing & Grubbing	60,103.00	1000 Sft	2,163.04	130,005.19	03-56--P-13
36	Compaction of Natural Ground	60,103.00	1000 Sft	1,554.85	93,451.15	03-58-P-13
37	P/F Precast Concrete 7000 psi TUFF Tiles over bed of 2" thick sand & 4" thick brick ballast comp	50000	100 Sft	10,121.85	5,060,925.00	10-45-P-56
38	Providing and fixing kerb stone (12"x18"x6") in cement sand mortar 1:3 in center media or round about as specified.	6000	100 Rft	20,479.22	1,228,753.20	16-63-a-P-109
39	Bitumenous Prime Coat	49920	100 Sft	1,105.87	552,050.30	16-06
40	Asphaltic Wearing Course (Asphalt Batch Plant Hot mixed	8486.40	100 cft	53,117.63	4,507,774.55	16-12-b
41	Transportation up to 20 KM (16-12-c)x20 (6.22*20=124.40)	576.65	Ton	124.40	71,735.26	16-12-c
WOOD WORK						
42	First class deodar wood wrought joinery in doors and windows etc. complete : 1.5" thick including chawkats	7,050	Sft	1,314.57	9,267,718.50	12-07-c-P-62
43	Supply and Fixing Aluminium door/window, Premium 4" sect. Sliding window	7,791	Sft	771.38	6,009,821.58	12-53-d-01-P-69
44	Supply and Fixing aluminium bronze/black. Other items : Fly screen shutter for premium model	3,895.50	Sft	229.73	894,913.22	12-54-e-02-P-73
45	Supply and Fixing accoustic miller fibre tile ceiling fixed with aluminium tee hung by GI wire fixed in roof	31545	100 Sft	16,593.64	5,234,463.74	12-40-P-66
46	Panelled door of MS sheet with forged door leaves of MS sheet 22 SWG etc complete including Paint	189	Sft	626.47	118,402.83	12-47-P-67
47	MS flat 1/2"x1/8" grill in windows of approved design including painting 3 coats, complete	7,791	Sft	288.39	2,246,846.49	12-50-P-67
48	Kitchen Floor Cabinet as per MES Design/Specification..	270	Sft	1,266.99	342,087.30	12-62-a-P-74
49	Kitchen Wall Cabinet as per MES Design/Specification.	270	Sft	757.47	204,516.90	12-62-b-P-74

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ITEM NO	DESCRIPTION	Total Quantity	UNIT	UNIT RATE (Rs)	AMOUNT (Rs)	Ref: MRS 2017 Item-Page
50	P & F hydraulic Door Closer (Best Quality)	259	Each	1,682.50	435,767.50	12-17-b P-63
51	Extra for providing/fixing approved quality Rim locks :(Imported or Equilent)	259	Each	1,784.63	462,219.17	12-20-a-01-P-64
52	Providing and fixing sliding bolt to doors Brass sliding bolts 12" long	259	Each	1,426.05	369,346.95	12-18-c-2- P-64

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SURFACE RENDERING						
53	Cement plaster 1:4 upto 20' height 1/2" thick	227,362	100Sft	2,024.19	4,602,246.36	11-09-b-P-58
54	Cement plaster 1:4 upto 20' height 3/4" thick	29,332	100Sft	2,733.06	801,665.10	11-09-c-P-58
55	Additional for from 20' and above for additional 10' height.	150,182	100Sft	262.13	393,672.86	11-28-P-60
56	Cement plaster 3/8" thick under soffit of RCC roof slabs only upto 20' height : (1:2)	79,834	100Sft	2,383.29	1,902,669.02	11-10-a-P-59
PAINTING AND VARNISHING						
57	Prepare & Paint new surface, sashes, doors & windows etc : Priming Coat (I.C.I / Berger)	14,100	100 Sft	1,499.25	211,394.25	13-6-c-01-P-77
58	Prepare & Paint new surface, sashes, doors & windows etc : Each subsequent coat of paint 2nd coat (I.C.I / Berger)	14,100	100 Sft	1,061.30	149,643.30	13-6-c-02-P-77
59	Prepare & Paint new surface, sashes, doors & windows etc : Each subsequent coat of paint 3rd coat (I.C.I / Berger)	14,100	100 Sft	1,061.30	149,643.30	13-6-c-02-P-77
60	Preparing surface and painting with emulsion paint : First coat (I.C.I / Berger)	202,743	100Sft	1,571.70	3,186,508.43	13-30-a-P-78
61	Preparing surface and painting with emulsion paint : 2nd & each subsequent coat.	202,743	100Sft	716.31	1,452,266.88	13-30-b-P-79
62	Extra labour for painting, varnishing etc from 20' height and above for every additional height 10'.	140,396	100/Coat	101.25	142,150.79	13-37-P-79
IRON WORK						
63	Fabrication of heavy steel work with angle, tees, sheet iron etc for making trusses, girders etc (For Trusses) including welding	41,270.00	Kg	139.21	5,745,334.13	25-10-P-155
64	Erection and fitting in position iron trusses, staging of water tanks, etc (For Trusses)	41,270.00	Kg	7.86	324,253.85	25-11-P-155
65	Providing and fixing 6" wide GI sheet 18 SWG. stopper to expansion joint.	1,855.98	Rft	81.38	151,039.98	06-19 -
66	Fill in expansion joints with bitumen, sand & saw dust in Ratio 1:2:2	1,855.98	Rft	26.38	48,960.86	06-20-
67	Supply & fix corrugated GI sheet with GI bolts, nuts, limpet etc. complete : 22 BWG coloured	44,239.09	100 Sft	15454.81	6,837,067.31	09-13-b+13-06-c-01
68	GI flate sheet 22 BWG including batten rolls,screws,clips coloured complete in all respect(coloured)	870	100 Sft	196.94	1,713.38	09-24-a-P-48+13-06-c-01-P-77
Total Rs.					176,485,726.65	
Defray/less 7% withholding tax for tax Exempted Area					12,354,000.87	
Amount after 7% Defray withholding tax for tax Exempted Area					164,131,725.79	
Add Area Factor 10%					16,413,172.58	
Grand Total Rs.					180,544,898.37	

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(NON-MRS Items)					
ITEM NO	DESCRIPTION	Total Quantity	UNIT	UNIT RATE (Rs)	AMOUNT (Rs)
(1)	(2)	(3)	(4)	(5)	(6)
	General				
	All items of civil works described under title "Description" unless specifically indicated otherwise, shall be deemed to be read in terms of supply, storing, protecting, making, assembling, installing, applying, laying, fixing, testing, commissioning, clearing etc. of the same inclusive of but not limited to all materials, labour, tools, plants equipments, appliances etc. as required for the completion and maintenance of the civil work as per drawings, specifications, and/or as directed by the Engineer Incharge.				
1	Providing & laying China Verona Marble 12"x24" approved Or equivalent marbles ¾ "thick of required shape laid over 3/4" Thick in one piece pre polished, under mortar (1:2) cement sand mortar, finishing complete in all respects as per drawing, specification and as directed by the engineer incharge.)	33,362	Sft	295	9,841,837
2	Providing & laying Granite Marble or approved equivalent marbles on floor Size 12"x12"x ¾ "thick of required shape pre polished, under mortar (1:2) cement sand mortar, finishing complete in all respects as per drawings, specifications, color as directed by the engineer incharge.	23,796	Sft	430	4,262,610
3	Providing & laying Granite Marble or approved equivalent marbles for /Dado/skirting ½ " thick prepolished laid with under mortar (1:2) cement sand mortar, finishing complete in all respects as per drawing, specification and as directed by the Engineer Incharge.	24619.08	Sft	430	10,586,204
4	Providing and laying Granite Tiles Glazed/ unglazed in any colour / print/ texture exc 1600 sqcm but not. exc 3700 sqcm on walls and floor set in neat cement and joint grouted with white/ coloured cement, complete all as sepecified	31,220	Sft	267	8,337,438
5	Providing & laying Granite Marble or approved equivalent marbles ¾ "thick of required shape laid over tread of slab in one piece pre polished, under mortar (1:2) cement sand mortar, finishing complete in all respects as per drawing, specification and as directed by the engineer incharge.	2,902	Sft	697	2,022,854

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6	Providing & laying granite marble or approved equivalent marbles ½ "thick of required shape laid over Riser of slab in one piece pre polished, under mortar (1:2) cement sand mortar, finishing complete in all respects as per drawing, specification and as directed by the engineer incharge.	1,067	Sft	430	458,698
7	Providing & applying sand tex coating with recommended sealer and thinner on the surface of cement plaster on the exterior surface of the building (including 3/4" thick plaster on wall). The coating shell be of approved color and pattern surface should be prepared by removing duct dirt oil and stepped irregularities shell be rectified approved manufactor complete in all respect.	15,067	Sft	60	904,028
8	Providing & laying dark red & white mohmand marble 12"x18"x½" approved color & equivalent marbles prepolished laid with under mortar (1:2) cement sand mortar, finishing complete in all respects as per drawings, specifications, color as directed by the Engineer Incharge.	9,291	Sft	210	1,951,053
9	Providing and fixing Stain less steel railing of any shape & design including bends, corners, polishing etc complete in all respect as per drawing, specification and as directed by the Engineer Incharge.	248	Rft	1,849	458,302
10	Supply and fixing in position XPM expended metal Galvanized 38mm x44mm mesh 18SWG BRC Fabric weld-mesh, max weld fixed in position any Where Required or as directed by engineer	150	KG	145	21,750
11	Provide and fixing of Deodar wood Architrave 3" wide 1/2" thick best quality approved by engineer(excluding paint)	4,739	Rft	90	426,510
12	Lackar polish on Deodar wood Doors complete in all respect approved by Engineer	14,100	Sft	95	1,339,500

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(NON-MRS Items)					
ITEM NO	DESCRIPTION	Total Quantity	UNIT	UNIT RATE (Rs)	AMOUNT (Rs)
13	Providing and fixing floor cabinet 30" deep consisting of brick walls with deodar wood doors and frame with precast RCC (2" thick) over anti acidic tiles on top complete in all respects polishing, painting all accessories as per directions of Engineer-In-charge (Reference Drawing No. SBBU-ACD-AR-21 & 22), in the following locations: Geotechnical & Material Testing Lab-V, Gemmology Lab-IV, GIS/Remote Sensing Lab-III, Petrography (Microscope) Lab-II, Rock Cutting/ Thin Section Lab-I, Department of Mathematics, Department of Physics, Department of Chemistry, Department of Computer Sciences, Department of Management Sciences	2,042	Sft	1560	3,186,270
14	Providing and fixing deodar wood wall mounted cabinet 15" deep complete with back and front shutters (glass if required) with all accessories, complete in all respects as as per directions of Engineer-In-charge (Reference Drawing No. SBBU-ACD-AR-21 & 22), in the following locations: Geotechnical & Material Testing Lab-V, Department of Mathematics, Computer Labs III & IV	1,018	Sft	2295	2,336,310
15	Providing & Fixing Deodar Wood display Almari 18" Deep Size 6' x 7' made of deodar wood Frame 2"x4", sides, top 1" thick planks, leafs 1.5" thick ,drawer, Shelves, glass 5mm thick lackar polishing, and iron mangories complete in all respect as per the direction of Engineer Incharge	21	nos	35,000	735,000
16	Providing & Fixing of Deodar Wood Fume Cabinits including lackar polishing Complete in all respect as per the direction of Engineer Incharg	4	nos	15,000	60,000
17	Providing & Fixing Glass top on counter 8mm including grinding/golas complete in all respect as per the direction of Engineer Incharg	352	Sft	190	66,880
18	providing & fixing of Table made of Sheshem wood frame on Glass top 8mm thick oval shap including lackar polishing Complete in all respect as per the direction of Engineer Incharg(Drw no SBBU-ACD- AR-21) at Mathematics Lab & Computer Science Lab	630	Sft	550	346,500

SHAHEED BENAZIR BHUTTO UNIVERSITY, SHERINGAL, DIR UPPER					
PROJECT/PC-I NAME: DEVELOPMENT OF UNIVERSITY OF DIR, SHERINGAL, DIR UPPER					
CONSTRUCTION OF ACADEMIC BLOCK					
PRICED BILL OF QUANTITY					
CIVIL WORKS					
(NON-MRS Items)					
ITEM NO	DESCRIPTION	Total Quantity	UNIT	UNIT RATE (Rs)	AMOUNT (Rs)
19	Providing and fixing Lab anti-acidic sinks for washing as per standards complete in all respects as per directions of Engineer-In-charge (Reference Drawing No. SBBU-ACD-AR-21 & 22), in the following locations:				
20	Geotechnical & Material Testing Lab-V, Department of Physics, Department of Chemistry	9	nos	7,260	65,340
21	Office Rack made of deodar wood	60	nos	9,000	540,000
22	Providing and fixing of jali/latace Made of MS Square pipe 1.5"x1.5", MS jali, Ms Bracket, Drg no SBBU-ACD-AR-10 Complete in all respect as per direction of engineer	600	Sft	885	531,000
23	Providing and fixing of kitchen Hood made of 3/4" thick lumination sheet (MDF lasani sheet) With deodar wood Beading gola exhaust Duct complete in all respect as per the direction of engineer	8	nos	9,500	76,000
				Total Rs	48,554,085
					Defray/less 7% withholding tax for tax Exempted Area
					3,398,785.95
				Net Total	45,155,299.05

SHAHEED BENAZIR BHUTTO UNIVERSITY, SHERINGAL, DIR UPPER

PROJECT/PC-I NAME: DEVELOPMENT OF UNIVERSITY OF DIR, SHERINGAL, DIR UPPER

CONSTRUCTION OF ACADEMIC BLOCK

PRICED BILL OF QUANTITY

Public Health Works

(MRS Items)

ITEM	DESCRIPTION	Quantity	UNIT	UNIT RATE (Rs)	AMOUNT (Rs)	Ref: MRS 2017 Item-Page
(1)	(2)	(3)	(4)	(5)	(6)	(7)
	General					
	All items of Plumbing works described under title "Description" unless specifically indicated otherwise, shall be deemed to be read in terms of supply, storing, protecting, making, assembling, installing, applying, laying, fixing, testing, commissioning, clearing etc. of the same inclusive of but not limited to all materials, labour, tools, plants equipments, appliances etc. as required for the completion and maintenance of the civil work as per drawings, specifications, and/or as directed by the Engineer Incharge.					
1	Providing & fitting glazed earthen ware WC European type xcluding cost of seat cover coloured	54	Each	5,362.63	289,582	14-01-b P-80
2	Providing & fixing glazed earthen ware Squaring type with built in foot rest coloured	18	Each	1,780.75	32,054	14-3-b P-80
3	Providing and fixing double seat cover only: Bakelite.	54	Each	617.88	33,366	14-02-a P-80
4	Providing and Fixing glazed earthen ware low down flushing cistern 3 gallons capacity : Coloured	72	Each	2,970.10	213,847	14-10-b P-81
5	Providing and fixing CP waste coupling 1.25"	60	Each	355.80	21,348	14-41-a P-83
6	Providing and fixing waste pipe of PVC 1.25"	60	Each	317.42	19,045	14-43-a P-84
7	Providing and fixing Flushing bend of PVC 1.25"	60	Each	112.57	6,754	14-44-a P-84
8	Providing and fixing glazed earthen ware wash hand basin size (22" x 16") including bracket set, waste pipe and waste coupling etc complete in all respects.					
	Coloured (with pedestal)	24	Each	3,378.80	81,091	14-5-b-02 P-80
	Coloured (without pedestal)	36	Each	2,683.55	96,608	
9	P&F rubber plug with chain 1.25" Dia	60	Each	32.86	1,972	14-42-a P-84
10	Providing and Fixing Plastic soap dish.	40	Each	274.73	10,989	14-20-a 81
11	Providing and Fixing Plastic toilet paper holder.	54	Each	286.92	15,494	14-20-b P-81

SHAHEED BENAZIR BHUTTO UNIVERSITY, SHERINGAL, DIR UPPER

PROJECT/PC-I NAME: DEVELOPMENT OF UNIVERSITY OF DIR, SHERINGAL, DIR UPPER

CONSTRUCTION OF ACADEMIC BLOCK

PRICED BILL OF QUANTITY

Public Health Works

(MRS Items)

ITEM	DESCRIPTION	Quantity	UNIT	UNIT RATE (Rs)	AMOUNT (Rs)	Ref: MRS 2017 Item-Page
(1)	(2)	(3)	(4)	(5)	(6)	(7)
12	Providing and Fixing Plastic towel rail.	40	Each	299.13	11,965	14-20-c P-81
13	Providing and fixing best quality 5mm mirror 22"x16" size Asia, Master.	60	Each	1,463.81	87,829	c-14.17 P-81
14	Providing and fixing CI floor trap i/c grating Asia, Master and concrete chamber all round.					
	b) 4"x3"	125	Each	806.00	100,750	c-14.31-b P-82
15	Providing and fitting 4" gully trap with PCC, including masonry chamber 1'x1' and PVC grating 6"x6".	10	Each	934.50	9,345	c-14.33 p-83
16	Providing and fixing gun metal peet/gate valve (screwed)					
	1" Dia	8	Each	1,331.80	10,654	14-28-a P-82
	2" Dia	6	Each	5,528.60	33,172	14-28-d P-82
17	Providing and laying RCC. pipe, moulded with cement concrete 1:11/2:3, including cost of reinforcement, Testing etc.					
	9" i/d	250	Rft	385.34	96,335	2-.01c P-131
	6" i/d	260	Rft	310.40	80,704	c-23.01c P-132
18	Providing and fitting 'P' trap including C.I grating and concrete chamber:					
	a) 4" dia of cast iron	64	Each	853.50	54,624	c-14.32-a p-83
19	Providing and fixing CP mixing valve for WHB, sink or shower Asia, Master.					c-14.27 p-82
	WHB	60	Each	2,129.13	127,748	
	Sink	6	Each	2,129.13	12,775	
20	Providing and Laying HDPE pipe Din-8074/Din-8075/ISO-4427 including testing & disinfect complete					C-24-30-a-05 P-151
	25 mm	210	Rft	37.77	7,932	
	32 mm	365	Rft	45.09	16,458	
	40 mm	175	Rft	65.52	11,466	
	50 mm	222	Rft	82.60	18,337	
	110 mm	310	Rft	200.14	62,043	
21	Providing and fixing GI pipe including specials 2"dia	100	RFt	266.51	26,651	14-55-a
22	Providing and fixing GI pipe including specials 1.5"dia	200	RFt	221.99	44,398	14-55-b
23	Providing and fixing GI pipe including specials 1"dia	300	RFt	130.03	39,009	14-55-d
24	Providing and fixing GI pipe including specials 3/4"dia	100	RFt	101.92	10,192	14-55-e
25	Providing and fixing GI pipe including specials 1/2"dia	250	RFt	77.92	19,480	14-55-f

SHAHEED BENAZIR BHUTTO UNIVERSITY, SHERINGAL, DIR UPPER**PROJECT/PC-I NAME: DEVELOPMENT OF UNIVERSITY OF DIR, SHERINGAL, DIR UPPER****CONSTRUCTION OF ACADEMIC BLOCK****PRICED BILL OF QUANTITY****Public Health Works****(MRS Items)**

ITEM	DESCRIPTION	Quantity	UNIT	UNIT RATE (Rs)	AMOUNT (Rs)	Ref: MRS 2017 Item-Page
(1)	(2)	(3)	(4)	(5)	(6)	(7)
26	Providing Of Plumbing tap insulation on Gi pipe complete 2" dia	100	20 RFt	60.59	303	14-72-e

SHAHEED BENAZIR BHUTTO UNIVERSITY, SHERINGAL, DIR UPPER						
PROJECT/PC-I NAME: DEVELOPMENT OF UNIVERSITY OF DIR, SHERINGAL, DIR UPPER						
CONSTRUCTION OF ACADEMIC BLOCK						
PRICED BILL OF QUANTITY						
Public Health Works						
(MRS Items)						
ITEM	DESCRIPTION	Quantity	UNIT	UNIT RATE (Rs)	AMOUNT (Rs)	Ref: MRS 2017 Item-Page
(1)	(2)	(3)	(4)	(5)	(6)	(7)
27	Providing Of Plumbing tap insulation on Gi pipe complete 1.5" dia	200	RFt	2.74	548	14-72-d
28	Providing Of Plumbing tap insulation on Gi pipe complete 1" dia	300	RFt	2.45	734	14-72-c
29	Providing Of Plumbing tap insulation on Gi pipe complete 3/4" dia	100	RFt	2.16	216	14-72-b
30	Providing Of Plumbing tap insulation on Gi pipe complete 1/2" dia	250	RFt	1.87	467	14-72-a
31	Providing and fixing brass ball float valve 1" dia	3	Each	585.83	1,757	14-48-c
32	Providing and fixing 3/4" dia CP Bib Cock Heavy type	54	Each	567.53	30,647	c-14.24(a) p-82
33	Providing and fixing approved best quality cooking range with 3 burners, oven, hot case and roastery	8	Each	22,879.00	183,032	14-61-d
34	Providing and Fixing CP bib cock heavy type 1/2".	18	Each	518.72	9,337	14-24-b P-82
35	Providing and Fixing 1/2" CP tee stop cock	24	Each	543.13	13,035	14-25 P-82
36	Providing and fitting stainless steel sink of Asia/Faisal with drain board, size 18"x48", i/c set of brackets waste pipe and waste coupline complete in all respects as directed & approved by the Engineer Incharge.	6	Each	4,964.80	29,789	14.06-c-P-80
37	Providing and making Manholes complete rectangular size 2'x2'x2' having 9" thick walls, 6" RCC slab and 3/4" dia iron bar steps complete internal and external plaster including external bitumen coating and Mainhole CI Cover 1.5' dia complete in all respects	8	Each	21,572.0	172,576	Mrs Based Analysis Attached
38	Supply and Fixing CI manhole cover with frame etc. complete in all respects as directed by the Engineer in charge.	10	Each	2,574.86	25,749	14-37-c p-83
39	Providing and Fixing fire hydrants BSS quality and weight of 2.5" dia (including cost of jointing material)	2	Each	10,648.25	21,297	24-23
40	Providing and Fixing approved best quality cooking range with 5 burners, oven, hot case & roastery	6	Each	30,321.00	181,926	14-61-e
Total Rs.					2,375,427	
Defray/less 7% withholding tax for tax Exempted Area					166,279.92	
Amount after 7% Defray withholding tax for tax Exempted Area					2,209,147.52	
Add Area Factor 10%					220,914.75	
Net Total					2,430,062.27	

SHAHEED BENAZIR BHUTTO UNIVERSITY, SHERINGAL, DIR UPPER					
PROJECT/PC-I NAME: DEVELOPMENT OF UNIVERSITY OF DIR, SHERINGAL, DIR UPPER					
CONSTRUCTION OF ACADEMIC BLOCK					
PRICED BILL OF QUANTITY					
Public Health works					
Non MRS Items					
ITEM	DESCRIPTION	Quantity	UNIT	UNIT RATE (Rs)	AMOUNT (Rs)
(1)	(2)	(3)	(4)	(5)	(6)
1	Providing and fixing Muslim shower complete in all respect as per drawing , specification, including Double bib Cock and directed by the Engineer Incharge.	72	Each	1800	129,600.00
2	Providing and fixing in position grease trap and chamber for the Kitchen with 300 mm dia cast iron cover , complete in all respect as per drawing , specification and directed by the Engineer Incharge.	2	Each	2,000	4,000.00
3	Providing and fixing 4" dia CI crown top cowl on the top of vent pipe as directed by the Engineer.	6	No.	320	1,920.00
4	Providing and Fixing Carrier/ Ambassador/ Canon Electric Geyser complete in all respect approved by Engineer. (15 gallon capacity)	26	Nos	19,500	507,000.00
5	Providing and fixing angle iron step 1¼"x1¼"x3/16", in Manhole chamber, including carriage and setting the same in work to correct lines and levels, complete in all respects.				
	O.H.W.T	10	Each	250.00	2,500
6	Providing, fixing, cutting, jointing and testing PPRC piping complete in all respects				
	20 mm	1990	Rft	178.00	354,220
7	Providing, fixing, cutting, jointing and testing UPVC piping conforming to ISO 3633:1991 of fittings including uPVC fittings ie Plug Tee ,Plug Elbow ,Shoes, bends,P trap,y elbow etc with solvent cement jointing, rates include cost of clamping to walls and ceiling , hangers, supportsm cutting through walls and providing sleeves through concrete slabs for pipelines and pipe fittings complete in all respects,				
	dia 75 mm	1350	Rft	145.50	196,425
	dia 110 mm	978	Rft	191.22	187,013
	dia 50 mm	350	Rft	89	31,150
		TOTAL Rs			1,413,828
		Defray/less 7% withholding tax for tax Exempted Area			98,967.96
		Net Total			1,314,860.04

SHAHEED BENAZIR BHUTTO UNIVERSITY, SHERINGAL, DIR UPPER
PROJECT/PC-NAME: DEVELOPMENT OF UNIVERSITY OF DIR, SHERINGAL, DIR UPPER
CONSTRUCTION OF ACADEMIC BLOCK
PRICED BILL OF QUANTITY
Electrical Works

DESCRIPTION	AMOUNT
1) MRS ITEMS	9,872,215
2) NON MRS ITEMS	7,962,743
TOTAL(1+2)	17,834,958

SHAHEED BENAZIR BHUTTO UNIVERSITY, SHERINGAL, DIR UPPER						
PROJECT/PC-NAME:DEVELOPMENT OF UNIVERSITY OF DIR,SHERINGAL,DIR UPPER						
CONSTRUCTION OF ACADEMIC BLOCK						
PRICED BILL OF QUANTITY						
Electrical Works						
(MRS Items)						
Sr. No.	DESCRIPTION	Qty	UNIT	UNIT RATE (Rs.)	AMOUNT (Rs.)	(MRS) 2017 Item/Page
1)	2)	3)	4)	5)	6)	7)
	General					
	All items of electrical works described under title "Description" unless specifically indicated otherwise, shall be deemed to be read in terms of supply, storing, protecting, making, assembling, installing, applying, laying, fixing, testing, commissioning, clearing etc. of the same inclusive of but not limited to all materials, labour, tools, plants equipments, appliances etc. as required for the completion and maintenance 'of the electrical work as per drawings, specifications, and/or as directed by the Engineer Incharge.					
	a. All wiring to be done in PVC conduits or otherwise specified/appropriate sizes, underground, concealed in walls, columns, ceiling and/or wherever required.					
	b. All back boxes to be of 16 SWG sheet steel concealed in walls, columns or ceiling with provisions for connection of earth wires complete in all respect.					
	c. Install insulated earth conductor of specified size for each lighting and power ckts.					
	d. All fan/light points, switches outlets DB's etc. shall be earthed.					
	e. All light fixtures shall be of approved make.					
IE-1	Supply and erection of PVC pipe for wiring purpose including inspection boxes pull boxes, hooks, bend tees etc. complete recessed in walls					
						c-15, p-92
	a) 3/4" i/d	22386	Rft.	95.31	2,133,610	i-02b-02
	b) 1" i/d	13865	Rft.	88.14	1,222,061	i-02b-03
	b) 1.25" i/d	2926	Rft.	102.52	299,974	i-02b-04
	c) 1.5" i/d	10	Rft.	112.92	1,129	i-02b-05
	d) 2" i/d	20	Rft.	118.28	2,366	i-02b-06
	e) 4" i/d	360	Rft.	166.11	59,800	i-02b-08
IE-2	Supply and erection of single core PVC insulated copper conductor 250/440 volts grade BSS-2004) cable in pre-laid pipes etc.					
						c-15, p-93
	a) 3/0.029"	65880	Rft.	12.03	792,536	i-05(a)
	b) 7/0.029"	19229	Rft.	20.32	390,733	i-05(c)
	c) 7/0.036"	14118	Rft.	30.78	434,552	i-05(d)
	d) 7/0.044"	8915	Rft.	50.24	447,890	i-05(e)
IE-3	Supply and erection of single core PVC insulated + sheathed copper conductor 600/1100 volts grade BSS-2004) cable in pre-laid pipes etc.					
						c-15, p-93
	a) 7/0.064"	7984	Rft.	92.78	740,756	i-07(a)
	b) 19/0.052"	400	Rft.	144.46	57,784	i-07(b)
	c) 19/0.083"	190	Rft.	476.83	90,598	i-07(d)
	d) 37/0.103"	400	Rft.	1,042.42	416,968	i-07(g)
IE-4	Supply and erection of single core PVC insulated copper conductor 250/440 volts grade BSS-2004) cable in pre-laid pipes etc.					
						c-15, p-93
	a) 7/0.029" ECC	39500	Rft.	20.32	802,640	i-05(c)
	b) 7/0.064" ECC	2096	Rft.	102.98	215,846	i-05(f)
	c) 19/0.064" ECC	65	Rft.	179.04	11,638	i-05(g)
IE-5	Supply and erection of best quality AC ceiling fan complete with G.I. rod, canopy blades and regulator.					

SHAHEED BENAZIR BHUTTO UNIVERSITY, SHERINGAL, DIR UPPER						
PROJECT/PC-NAME:DEVELOPMENT OF UNIVERSITY OF DIR,SHERINGAL,DIR UPPER						
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PRICED BILL OF QUANTITY						
Electrical Works						
(MRS Items)						
						c-15,p-101
	a) 56" sweep	366	Each	3,926.86	1,437,231	i-68-c
IE-6	Supply and erection of best quality complete with shutter and regulator Exhaust Fan.					
						c-15,p-101
	a) 12" sweep	24	Each	2,419.25	58,062	i-69-a
	b) 18" sweep	6	Each	3,476.58	20,859	i-69-c
IE-7	Supply and fixing bracket fan pak made complete					
						c-15,p-102
	a) 18" sweep	4	Each	3,307.00	13,228	i-78
				Total Rs.	9,650,259	
				Defray/less 7% withholding tax for tax Exempted Area	675,518	
				Amount after 7% Defray withholding tax for tax Exempted Area	8,974,741	
				Add Area Factor 10%	897,474	
				Net Total	9,872,215	

SHAHEED BENAZIR BHUTTO UNIVERSITY, SHERINGAL, DIR UPPER					
PROJECT/PC-NAME:DEVELOPMENT OF UNIVERSITY OF DIR,SHERINGAL,DIR UPPER					
CONSTRUCTION OF ACADEMIC BLOCK					
PRICED BILL OF QUANTITY					
ELECTRICAL WORKS					
(Non MRS Items)					
Sr. No.	DESCRIPTION	Qty	UNIT	UNIT RATE (Rs.)	AMOUNT (Rs.)
(1)	(2)	(3)	(4)	(5)	(6)
	General				
	All items of Electrical works described under title "Description" unless specifically indicated other wise, shall be deemed to be read in terms of supply, storing, protecting, making,				
	assembling, installing, applying, laying, fixing, testing commissioning, clearing etc. of the same inclusive of but not limited to all materials, labour, tools, plants equipments, appliances etc. as required for the completion and maintenance of the Electrical work				
	as per drawings specifications, and/or as directed by the Engineer Incharge.				
IE-01	LIGHT FITTINGS AND FIXTURES				
	Supply, installation, fixing, wiring, connection, testing and commission of flauorescent fittings and fixtures, ceiling mounted or ceiling suspended or installed in the false ceiling or wall mounted, pole mounted, weather proof,				
	adjustable or non-adjustable, complete with chokes, spring loaded rotary holders starter, power factor correction capcitors, antiradio interference starters, ballast with brackets and down rod, industrial shade, brass				
	lamp holder proper gasketting necessary fixing accessories internal wiring, connection, earthing terminal etc. These are to be installed as and where shown on drawings or as required as per site conditions. Complete in all respects.				
	The approved manufactures- M/S Philips/Sunlights as approved by the engineer.				
1.1	LED LIGHTS				
	i) LED tube rod with 1X18 watts (4ft)	258	Nos.	1,875.00	483,750.00
	ii) LED tube rod with 2X18 watts (4ft)	249	Nos.	3,690.00	918,810.00
	iii) LED mirror light 1X9watts 2ft	36	Nos.	1,450.00	52,200.00
	iv) LED down lighter with 1X7watts powder paint metal sheet,housing anodized aluminium reflect.	549	Nos.	1,250.00	686,250.00
	v) LED Wall type light 1X7 watts	8	Nos.	1,250.00	10,000.00
	vi) LED Weather proof bulkhead light with 1X9 watts IP 54 housing.	19	Nos.	3,750.00	71,250.00
1.2	FANS BOXS.				
	Supply and erection of pvc fan box 6" dia Heavy duty including covering sheet underneath placed of the time of costing of slab.	366	Nos.	240.00	87,840.00
IE-02	SWITCHES & SOCKET OUTLETS				
	Supply, installation,of gang switch plates complete with back boxes (plastic make) switch socket outlets etc. complete in all respect. Approved manufactures M/S Bush Hilife (Pakistan) Switch Kids, Aqua Switches, Orange Electric as approved by the engineer.				
2.1	Switches 10Amp. Recessed Type.	1082	Each	68	73,576.00
2.2	2 Pin socket.	270	Each	57	15,390.00
2.3	Socket out let combind with one pole switch complete.				
	i) 3-PIN 10A universal type.	545	Nos.	538	293,210.00
	ii) 3-PIN 20A Porcelaine base	288	Nos.	698	201,024.00
2.4	Back boxes with Gang Plate.				
	i) 1-3 gang 1 way switch/plate	860	Each	237	203,820.00
	ii) 4 gang 1 way switch/plate	165	Each	258	42,570.00
	iii) 6 gang 1 way switch/plate	148	Each	294	43,512.00
2.5	Fan dimmer Complete.	366	Each	279	102,114.00
IE-03	CABLES				
	Supply, erection of single core PVC/PVC insulated 660/1000 volt non armoured copper conductor cable in pre-laid pipe etc.				
	a) 1 core 95mm ² ECC	200	Rft.	495	99,000.00
IE-04	Main Panel Board				

SHAHEED BENAZIR BHUTTO UNIVERSITY, SHERINGAL, DIR UPPER				
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PRICED BILL OF QUANTITY				
ELECTRICAL WORKS				
(Non MRS Items)				
	Fabrication, supply, erection and testing of Main Panel Board to be installed on ground floor, comprising of cubicles, frame made of sheet steel 14 SWG and doors of 16 SWG, with flexible earthing strips, degreased and de-rusted, zinc phosphated, finished with electro-static powder coating of 15 micron thickness in approved color, panel housing to comply with IP-44 protection, indoor floor mounting, in free standing design, with flush door, lockable handle, catchers, all auxiliaries, internal wiring, designation labels on MCCBS, earthing bar, numbering leads on the control wires, panel suitable for system Voltage 415 V, 50 Hz, 3 Phase and neutral, bus bars of 99.8% purity electrolytic copper, including cost of cable terminal blocks, cable termination lugs, brass cable glands for incoming & outgoing cables, wiring from breakers, indication lamps, instruments and control all accessories complete in all respects.			
	All incoming and outgoing breakers shall be accessible by opening the front door having additional M.S. sheet cover. Gaskets shall also be provided where necessary. All MCCBs shall be suitable to operate without any de-rating at 45 ⁰ ambient temperature and shall be of one make only and not a mixture of more than one make. Circuit's layout shall conform to the single line diagrams.Make Legrand (France) / ABB (UK) M.G(France).			
	Incoming			
	1-1000 Amps triple pole MCCB Adj, overload and short circuit protection, RC: not less 50 kA			
	4-Nos Copper Bus Bars of capacity 1mm ² =1.5 A electrolytic copper 99.9% purity, bus bars should be electro-tinned throughout the length.			
	3-Air cooled ring type CTs 1000/5 Amps having suitable output and accuracy.			
	1-Digital type Ammeter scaled 1000/5 Amps square shaped suitable for operation with CTs with Phase Selector switch.			
	1-Digital type Voltmeter scaled 0-600 Volts of square shaped with Voltmeter selector switch of 4 positions.			
	1-Earthing bar with necessary punched holes, nuts, bolts and washers, etc.			
	2-Earthing terminals, all earth leads to have green base with yellow stripe.			
	Required sets of cable terminal blocks and cable terminal lugs suitable for outgoing cables complete with brass cable glands on bottom of panel.			
	Outgoing			
	2-250 Amps triple pole MCCB Adj, overload and short circuit protection, RC: not less 36 kA			
	Sub Incoming			
	1-200 Amps triple pole MCCB Adj, overload and short circuit protection, RC: not less 36 kA			
	Sub Outgoing			
	4-60,2-30 (Elev.) Amps with neutral link MCCB TP having overload and short circuit protection, RC: not less than 25 KA			
	1 Spaces in SMPB to accommodate MCCBs in future of rating 50/40/30 Amps.	1	Each.	654,005.00
				654,005.00

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PRICED BILL OF QUANTITY					
ELECTRICAL WORKS					
(Non MRS Items)					
IE-05	SUB MAIN PANEL BOARD FIRST FLOOR				
	Fabrication, supply, erection and testing of Sub Main Panel Board to be installed on ground floor, comprising of cubicles, frame made of sheet steel 14 SWG and doors of 16 SWG, with flexible earthing strips, degreased and de-rusted, zinc phosphated, finished with electro-static powder coating of 15 micron thickness in approved color, panel housing to comply with IP-44 protection, indoor floor mounting, in free standing design, with flush door, lockable handle, catchers, all auxiliaries, internal wiring, designation labels on MCCBS, earthing bar, numbering leads on the control wires, panel suitable for system Voltage 415 V, 50 Hz, 3 Phase and neutral, bus bars of 99.8% purity electrolytic copper, including cost of cable terminal blocks, cable termination lugs, brass cable glands for incoming & outgoing cables, wiring from breakers, indication lamps, instruments and control all accessories complete in all respects.				
	All incoming and outgoing breakers shall be accessible by opening the front door having additional M.S. sheet cover. Gaskets shall also be provided where necessary. All MCCBs shall be suitable to operate without any de-rating at 45 ⁰ ambient temperature and shall be of one make only and not a mixture of more than one make. Circuit's layout shall conform to the single line diagrams.Make Legrand (France) / ABB (UK) M.G(Franc).				
5.1	SUB MAIN PANEL BOARD FIRST FLOOR				
	Incoming				
	1-250 Amps triple pole MCCB Adj, overload and short circuit protection, RC: not less 36 kA				
	4-Nos Copper Bus Bars of capacity 1mm ² =1.5 A electrolytic copper 99.9% purity, bus bars should be electro-tinned throughout the length.				
	3-Air cooled ring type CTs 300/5 Amps having suitable output and accuracy.				
	1-Digital type Ammeter scaled 0-250/5 Amps square shaped suitable for operation with CTs with Phase Selector switch.				
	1-Digital type Voltmeter scaled 0-600 Volts of square shaped with Voltmeter selector switch of 4 positions.				
	1-Earthing bar with necessary punched holes, nuts, bolts and washers, etc.				
	2-Earthing terminals, all earth leads to have green base with yellow stripe.				
	Required sets of cable terminal blocks and cable terminal lugs suitable for outgoing cables complete with brass cable glands on bottom of panel.				
	Outgoing				
	5-60 Amps with neutral link MCCB TP having overload and short circuit protection, RC: not less than 25 KA				
	1 Spaces in SMPB to accommodate MCCBs in future of rating 50/40/30 Amps.	1	Each.	244,057.00	244,057.00
5.2	SUB MAIN PANEL BOARD SECOND FLOOR				
	Incoming				
	1-250 Amps triple pole MCCB Adj, overload and short circuit protection, RC: not less 36 kA				
	4-Nos Copper Bus Bars of capacity 1mm ² =1.5 A electrolytic copper 99.9% purity, bus bars should be electro-tinned throughout the length.				
	3-Air cooled ring type CTs 300/5 Amps having suitable output and accuracy.				
	1-Digital type Ammeter scaled 0-250/5 Amps square shaped suitable for operation with CTs with Phase Selector switch.				
	1-Digital type Voltmeter scaled 0-600 Volts of square shaped with Voltmeter selector switch of 4 positions.				
	1-Earthing bar with necessary punched holes, nuts, bolts and washers, etc.				
	2-Earthing terminals, all earth leads to have green base with yellow stripe.				

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	Required sets of cable terminal blocks and cable terminal lugs suitable for outgoing cables complete with brass cable glands on bottom of panel.				
	Outgoing				
	6-60,1-40 Amps with neutral link MCCB TP having overload and short circuit protection, RC: not less than 25 KA				
	1 Spaces in SMPB to accommodate MCCBs in future of rating 50/40/30 Amps.	1	Each.	244,057.00	244,057.00
IE-06	DISTRIBUTION BOARDS				
	Supply, installation, connection of wires/cables, testing and commissioning of 500 volts, 50 Hz, Three-Phase and neutral distribution boards (DBs) concealed type, wall mounted to be installed as and where shown on drawings,made of M.S. sheet 16 SWG with hinged door, handle, catcher, earthing bar, neutral strip, internal wiring from MCCBs terminating on cable terminal blocks. One coat of antirust and anti-corrosive paint with further two coats of enamelled paint of approved colour, all necessary materials equipped with Analogue Square Shaped Voltmeter scaled with 0-500 volts and with indication light complete in all respects and manufactured by any one of the approved manufacturers:conforming to single line diagram. D.B shall be equipped with the following components as shown on drawings complete in all respect or as approved by the Engineer Incharge. MCCB /MCB Make- Legrand (France) /ABB (UK).				
	i) DB-G1 (9 Ways Three-Phase) Typical LDB-G2,G3,G4, ,F1,F2 ,F3,F4,S1,S2,S5&S6				
	INCOMING				
	1-60A TP MCCB Rc=10kA				
	OUTGOING				
	10-10A SP MCB Rc=6kA				
	15-16A SP MCB Rc=6kA				
	2-10/16 SPARE SP MCB Rc=6kA	12	Job	52,877.00	634,524.00
	ii) DB-Computer S1 (4 Ways Three-Phase)				
	INCOMING				
	1-40A TP MCCB Rc=10kA				
	OUTGOING				
	9-10A SP MCB Rc=6kA				
	3-10 SPARE SP MCB Rc=6kA	1	Job	41,140.00	41,140.00
	ii) DB-Computer F1 (6 Ways Three-Phase) Typical DB-S2&S3				
	INCOMING				
	1-60A TP MCCB Rc=10kA				
	OUTGOING				
	15-10A SP MCB Rc=6kA				
	3-10 SPARE SP MCB Rc=6kA	3	Job	43,560.00	130,680.00
IE-07	EARTHING SYSTEM (PLATES TYPE)				
	Supply, installation ,testing & commissioning of earthing system including cost of the excavation and refilling of the earth upto 3 meter depth size of 1200x1200mm, One tinned copper plate of size 610x610x3mm, two copper conductor 70mm square to be drawn upto earth connecting points in G:I pipe 50mm dia, all G.I pipe accessories, charcoal and lime mixture to be packed 300mm all around the vertical installed plate, lugs, thimbles,brass nuts and bolts, construction of inspection pit with C.I cover size 450mm, all necessary materials etc required to complete in all the respects as per detail drawing specification and instruction of the Engineer.	2	Job	35,000.00	70,000.00
7.1	EARTH CONNECTING POINT (ECP)				
	Supply and installation of tinned earth connecting points consisting of copper plate 12" long x 6" wide x 1/2" thick to be installed and where shown o drawings, complete with fixing arrangement, brass nut bolts, wasehrs, lugs 1/2' dia holes to facilitate connections of incoming copper conductors and outgoing CPC.	2	Nos	2,500.00	5,000.00

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IE-08	TELECOMMUNICATION SYSTEM				
8.1	Telephone Points on wall				
	Wiring for each telephone point on wall with 2 pair telephone cable manufactured by any one or the following manufacturers Pakistan/Newage cables, from TDB to telephone point in and including cost of 25mm dia, PVC conduit heavy duty make Popular, Beta, Dadex, recessed in slabs, floors,walls, columns or on slab above false ceiling or as required as per site conditions, including M.S back box made of 16 SWG and RJ-11 socket outlet.	75	Points	1,750	131,250.00
8.2	PVC Conduit				
	Supply, installation of PVC conduit heavy duty make Popular, Polo,Dadex and buried under ground or as required as per site conditions including cost of all PVC conduit accessories, steel pull wires,all necessary accessories and material complete in all respect.				
	i) 40mm dia PVC conduit.	650	Rft	58.20	37,830.00
8.3	Telephone Cable				
	Supply, installation,connection of followings pair ,telephone cable to be pulled up from MDF to TDB,s to be pulled in prelaid PVC conduit, including cost of identification tags, all necessary material / accessories complete in all respect. Actual length of cables to be installed shall be practically measured at site by the Contractor, duly authenticated by the employers Electrical Engineer before placing the order with hte manufacturer, however, approximate length of cables are shown herewith. Payments shall be made as per actual length installed.				
	i) 20 pair telephone cable from MDF to various TJB's.	1250	Rft	65	81,250.00
8.4	Telephone Distribution Boards				
	Supply, at site, fabrication, installation and commissioning of Telephone Distribution Boards vermin and dust proof made of mild steel 16 SWG with door, handle, anti rust paint and 2 coats of enameled paint, locking arrangement all fixing accessories of following pairs telephone terminal strips with indicating and marking arrangement including cost of all necessary material to connect incoming and outgoing telephone cables, complete in all respects.				
	i) 20 pair TDB's	1	Nos	4,788	4,788.00
8.5	Telephone Junction Box(TJB)				
	Supply, installation of telephone junction box 16 SWG to be concealed in wall with 2 coats of anti rust paint, earthing terminal, krone strips and complete in all respects.				
	i) Telephone Junction Box 100mm x 175mm	3	Nos	2,500.00	7,500.00
IE-9	ADDRESSABLE FIRE ALARM SYSTEM				
9.1	ADDRESSABLE FIRE ALARM CONTROL PANEL (FACP)				
	Supply, installation, testing and commissioning of addressable Fire Alarm Control Panel consisting of 2 Loop complete with battery and charger and all other necessary materials, required to complete in all respects, as per specification and approved by the Engineer.Make:Menvier (U.K), Bentel (Italy), Honey Well (U.K)/Hochiki (UK).	1	Each	182,800	182,800.00
9.2	ADDRESSABLE SMOKE DETECTOR				
	Supply, installation, testing and commissioning of addressable Smoke Detector make as specified to be installed on R.C.C slab/false ceiling, all necessary accessories complete in all respects as per specification and approved by the Engineer. Make: Menvier (U.K), Bentel, Honey well (U.K)/Hochiki (UK).	170	Each	4,825	820,250.00
9.3	ADDRESSABLE HEAT DETECTOR				
	Supply, installation, testing and commissioning of addressable Heat Detector make as specified to be installed on R.C.C slab/false ceiling, all necessary accessories complete in all respects as per specification and approved by the Engineer. Make: Menvier (U.K), Bentel, Honey well (U.K)/Hochiki (UK).	6	Each	4,825	28,950.00
9.4	ADDRESSABLE MANUAL CALL POINT				

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	Supply, installations testing and commissioning of addressable Manual Call point complete with back box to be installed recessed in walls, columns or as required with end of line diode where required make as specified to be installed as shown on drawing including cost of all necessary materials required to complete in all respect as per specification and approved by the Engineer. Make:Menvier (U.K), Bentel, Honey well (U.K)	15	Each	6,140	92,100.00
9.5	ADDRESSABLE FIRE ALARM SOUNDER				
	Supply, installations testing and commissioning of addressable Fire Alarm Electronic Sounder to be installed recessed make as specified including cost of all necessary accessories required to complete in all respects as per specification and approved by the Engineer. Make:Menvier (U.K), Bentel, Honey well (U.K)	15	Each	9,506	142,590.00
9.6	PVC WIRES				
	Supply, installation ,testing and commissioning of 2-core Shielded Retardant wires from FACP to smoke/heat detectors and manual to be pulled in prelaid PVC conduit including cost of all necessary materials required to complete in all respects as per specification and approved by the Engineer.				
	a) 2-Core Shielded Retardant wire 1.5 mm2	4095	Rft	42	171,990.00
	b) 3/4" dia pipe	4030	Rft	95.31	384,099.30
IE-10	LIGHTNING PROTECTION SYSTEM				
	Supply, installation and testing connecting, and commissioning of all material including Bond & Clamps etc with metal work in the vicinity of the LPS , to avoid the danger of side flashing and services of the complete lightning protection system as specified here in the earthing resistance of lightning protection system at any point in the system should not exceed ten (10) ohms. sub-distribution board having overload and short circuit protection of suitable rupturing capacity with metering , phase indication lamps , earthing , nuts, bolts, washers, cableglands, terminals fitted with required size of boards as per drawings and specification, having pabble gray colour according to IEC standared with enadiozing process approved by engineer complete in all respects.				
10.1	AIR TERMINALS				
	Supply, installation on Roof terminals consisting of 25 mm dia copper rod 1000mm long ,150mm dia round copper ball with threded 5 spikes, base assembly , clamps, nut & bolts, all necessay materials, complete in all respects as per drawings, specifications and approved by the Engineer.	1	Each	9,500.00	9,500.00
10.2	COPPER STRIP ON ROOF				
	Supply, installation of copper strip to be installed on the roof and parapit consisting of copper strip of size 25 x 3mm, including cost of bends, corners, saddles all fixing accessories complete in all respects as per drawings, specifications and approved by the Engineer.	675	Rft	375.00	253,125.00
10.3	DOWN CONDUCTOR (D.C)				
	Supply, installation, connections of 1x70mm2 stranded copper conductor as down conductor to be installed in vertical position and fixed on the external walls or columns as shown on drawing including cost of making test joints,bends, corners, saddles all foxing accessories complete in all respects.Copper strips connected with the roof conductors shall be brought down to earth electrode complete in all respect as per drawings, specifications and approved by the Engineer.	320	Rft	350.00	112,000.00
10.4	EARTH CONNECTING POINT (ECP)				
	Supply and installation of tinned earth connecting points consisting of copper plate 12" long x 2" wide x 1/2" thick to be installed and where shown o drawings, complete with fixing arrangement, brass nut bolts, wasehrs, lugs 1/2' dia holes to facilitate connections of incoming copper conductors and outgoing CPC.	4	Nos	2,500.00	10,000.00
10.5	EARTH ELECTRODE				

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	Supply, installation , connections of G.I earth electrodes 5/8" dia 10' long , driven vertically in ground , all necessary materials / accessories complete in all respect as per drawings, specifications i.e lightning protection system (LPS) earth resistance measured at one point should not exceed 10 Ohms.	4	Job	11,250.00	45,000.00
IE-11	WATER COOLER				
11.1	supply and fixing in position of Electric Water cooler SP 220/440 V .cooling capacity 30 to 40 liter per hour complete and all respect and as per the direction of the Engineer.	8	Job	41,261.00	330,088.00
11.2	Providing and laying LT Cable 4 core 35 mm ² Copper conductor complete in all respect (excluding excavation)	250	Rft	592.00	148,000.00
11.3	Providing and laying LT Cable 4 core 50 mm ² Copper conductor complete in all respect (excluding excavation)	200	Rft	806.00	161,200.00
				TOTAL	8,562,089.30
				Defray/less 7% withholding tax for tax Exempted Area	599,346.25
				Net Total	7,962,743.05