

SCHEDULE – A TO BID

SCOPE OF WORK**Upgradation & Modernization of Teaching Spaces (Class/Seminar Rooms)
at IBA Main Campus**

S.NO.	DESCRIPTION OF ITEM	QTY.	UNIT	RATE (Rs.)	AMOUNT (Rs.)
(A) SCHEDULED RATE ITEMS BASED ON CSR (SINDH) 2024					
1	Demolition of existing structure				
(a)	Dismantling cement block masonry Refer Item No. 14 Page no. 19 Chapter No. 2				
(i)	Block masonry (Tabba Seminar room - MTS-7)	140.70	P. Cft	50.70	7,133.49
2	Full Body Matt Porcelain tiles (24" x 24")				
	Providing & Laying Full Body Porcelain Tile in Flooring or Facing of Approved Design Set in Gry Cement Motor 1:2 or of 3/4" Thickinss I/C Washing & Joints With White Cement Slurry Using Colour Pigment for matching complete as per Specification. 24"x24"x5/16" flooring Refer Item No.(ix) Page No. 46 Chapter No. 8 Note: Approved tile brands are White Horse, Benitoz or Shabbir				
(i)	Aman CED Classroom (MCC-11)	530.00	P.Sft	439.57	232,972.10
TOTAL AMOUNT OF SCHEDULED BASED ITEMS (EXCL. PREMIUM/REBATE)			PKR	240,105.59	
PREMIUM/REBATE @ 35%			PKR	84036.95	
(A) TOTAL AMOUNT OF SCHEDULED BASED ITEMS (INCL. PREMIUM/REBATE)			PKR	324,142.55	

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B NON-SCHEDULED RATE ITEMS (BASED ON PREVAILING MARKET RATES)

General Note Applicable For All Relevant BOQ Items (Interior Finishing Works):

1- In the event that the basic price (which is inclusive of all taxes such as GST, Income Tax, etc., but exclusive of cartage) of an item has been given in the Bill of Quantities and the actual cost of sample approved is higher or lower than the price stipulated, the net difference of price (based on finished quantity) shall be added to or deleted from the Contractor's rate at actual + 12%.

Same procedure will be followed in the case if the source of supply is given or type of material is given (e.g. PVC Skirting, etc.) or specific consumption of any material is given (e.g. concrete ratio, etc.), and they are changed.

2- In the event that the installed basic price (which is inclusive of all taxes such as GST, Income Tax, etc.) of an item has been given in the Bill of Quantities and the actual installed cost of sample approved is higher or lower than the price stipulated, the net difference of price (based on finished quantity) shall be added to or deleted from the Contractor's rate at actual + 12%.

Same procedure will be followed in the case if the source of supply is given or type of material is given and they are changed.

3- All Glass to be Clear Float Glass of approved quality (Ghani, Tariq Float Glass).

4- Gypsum board (Elephant or United).

5- MDF board (Lasani or approved equivalent).

6- Laminate board (Al-Nooor Lasani or Patex)

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	7- Paint Work: 3 coats of matt enamel paint finish (Jotun, ICI or Berger) of approved shade.8- Paint on all M.S. Work where shown: anti rust epoxy coating of approved manufacturer.9- Expansion Bolts to be Fischer or approved equivalent.10- Where basic price of marble / granite is given, it is for pre-polished granite with 6 sides chemical treatment (finish as approved) but excluding at edges & without rounding / beveling of edges. The cost of edge finishing, if required and rounding / beveling of edges, if required, is to be included in respective items of BOQ.11- All works to be carried out after class timings (After 5 PM), prior information shall be given before execution of noisy activities (dismantling etc.)12- Detailed work schedule shall be submitted prior to commencement of work. Execution shall be planned 1 block at a time.				
A	Shifting / Dismantling. Dismantling of interior finishes including existing raised floor steps (Aman CED classroom only), wall panelling, electrical fixtures, HVAC diffusers, fire alarm devices and any other item required to be dismantled to complete the scope of work including shifting of door openings to outwards and Dismantling / Removing of existing construction Such as existing frame / shutters, existing fixed tables including tools and equipment's, all necessary precautionary measures, stacking useable materials at designated place, AC / Electrical / Plumbing or any other item which is required to be demolished / removed place for owner's property, carting away surplus, stuff, etc. from site complete in all respect. Note: Contractor should visit the site and take all necessary information before quoting the price and also share shop drawing and get it approved by the client/client representative and will submit in the final bill. client's representative will verify the dismantling with shop drawing before other work is started. All debris is to be shifted by the contractor out of the site area as instructed by the client.				
i)	Adamjee Classroom (MAC-1)	1	JOB	135,000	135,000/-
ii)	Adamjee Seminar room (MAS-2)	1	JOB	265,000	265,000/-
iii)	Aman CED Classroom (MCC-11)	1	JOB	125,000	125,000/-
iv)	Aman CED Seminar room (MCS-3)	1	JOB	165,000	165,000/-
v)	Tabba Classroom (MTC-16)	1	JOB	135,000	135,000/-
vi)	Tabba Seminar room (MTS-7)	1	JOB	215,000	215,000/-

B	Dismantling of Seminar room tables: Dismantling of Seminar room tables of Tabba Seminar room including safe removal and handover to IBA staff including all necessary tools and hardware complete in all respect.				
B.1	Tabba Seminar room (MTS-7)	1	Job	35,000	35,000/-
C	Cutting and repairing of tiles/granite: Cutting and repairing of tiles/granite at specific locations for laying of PVC conduits width and depth depending upon size and number of conduits to be laid including all necessary tools, hardware complete in all respect.				
i)	Adamjee Classroom (MAC-1)	120	SFT	5	600
ii)	Adamjee Seminar room (MAS-2)	160	SFT	5	800
iii)	Aman CED Classroom (MCC-11)	72	SFT	5	360
iv)	Aman CED Seminar room (MCS-3)	180	SFT	5	900
v)	Tabba Classroom (MTC-16)	90	SFT	5	450
vi)	Tabba Seminar room (MTS-7)	107	SFT	5	535
1.	Paint Work:				
1.1	Matt Enamel Paint - Internal Surfaces. Provide and apply Matt Enamel paint (Jotun, ICI or Berger) minimum three coats of approved shade over a coat of primer to internal surfaces (Walls) prepared smooth with carborandum stone, filling the depression with putty including scaffolding, etc. complete in all respect as per specifications and drawings.				
a	MAKE: Jotun:				
i)	Adamjee Classroom (MAC-1)	450	SFT	95	42750
ii)	Adamjee Seminar room (MAS-2)	350	SFT	95	33250
iii)	Aman CED Classroom (MCC-11)	400	SFT	95	38000
iv)	Aman CED Seminar room (MCS-3)	1050	SFT	95	99750
v)	Tabba Classroom (MTC-16)	700	SFT	95	66500
vi)	Tabba Seminar room (MTS-7)	600	SFT	95	57000
b	ICI or Berger.	Rate Only	SFT	85	
2.	Flooring & Skirting:				

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2.1	Porcelain Tile Flooring & Skirting (4" high). Provide and lay full body Porcelain tile of approved sample & design (MAKE: White Horse, Benetoz or Shabbir) for flooring (Size: 600mmx600mm) with 1:4 cement sand mortar base of required thickness so as to achieve a minimum overall finished floor thickness of 30~40mm, setting the tiles with neat cement mortar, grouting the joints with waterproof grout & sealing the joints with approved sealer of Ressichem or approved equivalent as per manufacturer's specifications & instructions, including curing, cleaning, cutting (cut to size, where required), lifting, hacking of existing surface for bonding where necessary, etc., complete in all respect as per specifications and drawings. Basic Price of Tiles shall be Rs. 3200.00 Per SM.				
i)	Aman CED Classroom (MCC-11)	530	SFT	50	26,500
2.2	Carpet Tile Flooring Provide & lay in line and level imported carpet tiles in different areas with approved adhesive and minimum joint, including cutting, lifting, wastage, etc., complete in all respect as per drawing and instruction of the Architect. For payment net installed Carpeted floor area will be measured. Code: Milliken - Playangle Series Basic Price of Installed Carpet Tiles but on supply quantity shall be Rs. 950.00 Per SFT. Wastage factor should be added by contractor in his unit rate.				
i)	Adamjee Seminar room (MAS-2)	1225	SFT	450	551,250
ii)	Aman CED Seminar room (MCS-3)	1475	SFT	450	663,750
l)	Tabba Seminar room (MTS-7)	975	SFT	450	438,750
2.3	PVC Skirting. Provide and install in position 65mm high approved quality & sample heavy duty PVC skirting (Germany or approved equivalent) fixed with approved adhesive, cutting, wastage, etc., complete in all respect. Basic Price shall be Rs. 290.00/ RFT. For payment net running length of skirting will be measured.	Rate Only	RFT	750	
3.	Claddings:				

3.1	PVC Fluted Panel Cladding. Provide and install in position PVC Fluted Panel Cladding, consisting of solignum treated partial wood internal framing of approved sections tie with walls, PVC Fluted Panels of approved sample fixed with approved adhesive on 12mm thick MDF Board backing fixed on wooden frame, including all hardwares, wastage, lifting, cutting, fixing etc., complete as per drawing & instruction of the Architect. Basic Price of fluted panels shall be Rs. 700.00 Per SFT.				
i)	Adamjee Classroom (MAC-1)	210	SFT	1050	220,500/-
ii)	Adamjee Seminar room (MAS-2)	210	SFT	1050	220,500/-
iii)	Aman CED Classroom (MCC-11)	120	SFT	1050	126,000/-
iv)	Aman CED Seminar room (MCS-3)	125	SFT	1050	131,250/-
v)	Tabba Classroom (MTC-16)	115	SFT	1050	120,750/-
vi)	Tabba Seminar room (MTS-7)	75	SFT	1050	78,750/-
3.2	Green Chalk Board Cladding / Sliding Panels. Provide and install in position Green Green Chalk Board Cladding, consisting of solignum treated partial wood frame of approved sections tie with walls, 12mm thick Green Chalk Board of approved sample with PVC lipping on edges fixed on wooden frame, including all hardwares, wastage, cutting, sliding mechanism of approved sample for sliding panels, lifting, etc., complete in all respect & instruction of the Architect. For payment net cladding area will be measured.				
i)	Adamjee Classroom (MAC-1)	230	SFT	950	218,500
ii)	Adamjee Seminar room (MAS-2)	230	SFT	950	218,500
iii)	Aman CED Classroom (MCC-11)	130	SFT	950	123,500
iv)	Aman CED Seminar room (MCS-3)	135	SFT	950	128,250
v)	Tabba Classroom (MTC-16)	125	SFT	950	118,750
vi)	Tabba Seminar room (MTS-7)	190	SFT	2,500	475,000
3.3	Glass Writing Surface. Provide and install in position Glass Writing Surface, consisting of 8mm thick Glass of approved sample fixed in between of 2" x 2½" x Ceiling Height (3 Nos.) Solid Oak Wood Stud Post with approved Polish Finish , including all hardwares, wastage, cutting, lifting, etc., complete in all respect & instruction of the Architect. For payment net glass area will be measured.				
i)	Adamjee Classroom (MAC-1)	50	SFT	945	47,250
ii)	Adamjee Seminar room (MAS-2)	72	SFT	945	68,040

iii)	Aman CED Classroom (MCC-11)	50	SFT	945	47,250
iv)	Aman CED Seminar room (MCS-3)	72	SFT	945	68,040
v)	Tabba Classroom (MTC-16)	72	SFT	945	68,040
vi)	Tabba Seminar room (MTS-7)	72	SFT	945	68,040
3.4	Acoustic Upholstered Panels Cladding. Provide and install in position Acoustic Upholstered cladding, consisting of Acoustic Upholstered Panels of approved sample (Project Fabric or approved equivalent) wrapped with approved adhesive on Foam Padding (Molty Foam or approved equivalent), 10mm thick soft board of approved sample fixed on 12mm thick commercial ply (Fire retardant paint inside) backing with epoxy filling & fiber tape on sheet joints, including all hardwares, wastage, glues, lifting, scaffolding etc., complete as per drawing & instruction of the Architect. For payment net Acoustic Upholstered Panels area will be measured.				
i)	Adamjee Classroom (MAC-1)	220	SFT	1150	253,000
ii)	Adamjee Seminar room (MAS-2)	440	SFT	1150	506,000
iii)	Aman CED Classroom (MCC-11)	120	SFT	1150	138,000
iv)	Aman CED Seminar room (MCS-3)	Rate Only	SFT	1850	
v)	Tabba Classroom (MTC-16)	130	SFT	1150	149,500
vi)	Tabba Seminar room (MTS-7)	240	SFT	1150	276,000
4.	Suspended Ceiling Work:				
4.1	Gypsum Board Ceiling Paint Finish. Provide and install in position Gypsum Board Ceiling, consisting of G.I. Sheet (24 SWG) internal framing tie with slab, solignum treated partial wood reinforcement of approved sections with 12mm x 16 SWG G.I. Hangers and 12mm x 12mm aluminum edgings as shown, 12mm thick Gypsum Board Sheet fixed on frame with approved Paint Finish , cutting of opening for light fixtures / diffusers with making of light pelmet, niches, ledge, fiber tape on joints, metal tape on edges, including 6mm dia threaded bar hangers, primer coat filling if required and all other hardwares, shadow gap, aluminum trim, wastage, scaffolding, making access panel (where required), etc., complete in all respect. For payment exposed sheet surface area will be measured.				
i)	Adamjee Seminar room (MAS-2)	1000	SFT	1250	1,250,000
ii)	Aman CED Seminar room (MCS-3)	1200	SFT	1250	1,500,000
iii)	Tabba Seminar room (MTS-7)	800	SFT	1250	1,000,000

4.2	PVC Fluted Panel Ceiling. Provide and install in position PVC Fluted Panel Ceiling, consisting of solignum treated partial wood internal framing of approved sections tie with slab, PVC Fluted Panels of approved sample fixed with approved adhesive on 12mm thick MDF Board backing fixed on wooden frame, including all hardwares, wastage, lifting, cutting, scaffolding, fixing etc., complete as per drawing & instruction of the Architect. Basic Price of fluted panels shall be Rs. 700.00 Per SFT.				
i)	Adamjee Seminar room (MAS-2)	225	SFT	1250	281,250
ii)	Aman CED Seminar room (MCS-3)	275	SFT	1250	343,750
iii)	Tabba Seminar room (MTS-7)	175	SFT	1250	218,750
5.	Miscellaneous Work:				
5.1	Laminated MDF Board Open Shelving. Provide and install in position 6'-0" x 2'-0" deep Laminated MDF Board Open Shelving, consisting of solignum treated partial wood internal framing of approved sections (as shown), 20mm thick Laminated MDF Board for shelves with Solid Oak wood polish finish lipping on edges, including all hardwares, edge making, S.S. Pegs, wastage, cutting, lifting, etc., complete in all respect & instruction of the Architect.				
i)	Aman CED Classroom (MCC-11)	3	NOS	25000	75000
ii)	Tabba Classroom (MTC-16)	3	NOS	25000	75000
5.2	Laminated MDF Board Open Shelving. Provide and install in position 5'-2" x 2'-0" deep Laminated MDF Board Open Shelving, consisting of solignum treated partial wood internal framing of approved sections (as shown), 20mm thick Laminated MDF Board for shelves with Solid Oak wood polish finish lipping on edges, including all hardwares, edge making, S.S. Pegs, wastage, cutting, lifting, etc., complete in all respect & instruction of the Architect.				
i)	Aman CED Classroom (MCC-11)	3	NOS	45000	135000
5.3	Laminated MDF Board D.B. Cabinet. Provide and install in position 2'-0" x 1'-6" deep x 8'-0" high Laminated MDF Board Cabinet, consisting of solignum treated partial wood internal framing of approved sections (as shown), 12mm & 18mm thick Laminated MDF Board for structure, shutter & shelves with Solid Oak wood polish finish lipping on edges, including all hardwares, edge making, S.S. Handle, hinges, lockset, S.S. Pegs, wastage, cutting, lifting, etc., complete in all respect & instruction of the Architect.				

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i)	Adamjee Classroom (MAC-1)	2	NOS	6000	12000
ii)	Adamjee Seminar room (MAS-2)	2	NOS	6000	12000
(B) TOTAL AMOUNT OF NON-SCHEDULED BASED ITEMS (CIVIL WORKS)			PKR	11,868,305	

(I) TOTAL AMOUNT OF SCHEDULED + NON-SCHEDULED BASED ITEMS (CIVIL WORKS) {A+B}	PKR	12,192,447.54
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**(II) BILL OF QUANTITIES FOR ELECTRICAL WORKS
(AMAN CED BLOCK - CLASSROOM & SEMINAR ROOM)**

S.No	DESCRIPTION	Qty	UNIT	RATE (Rs.)	AMOUNT (Rs.)
	SECTION - A WIRING / WIRING ACCESSORIES				
	Supply, installation, testing & commissioning of following items including specified wires, conduits, junction boxes, heavy duty porcelain / tool less imported connectors, all other relevant material, tools, labor & accessories required for completion of work as per description & drawings, complete in all respects. The Average quantity of each 'No.' shall be taken from drawings. Flexible Conduits, PVC Adaptors Should be provided. Flexible cables: - o Single core, PVC insulated, non-sheathed cables BS 6004 - o Sheathed flexible cords for wiring of luminaries (heat resistant) BS 6141 Cable color code (phase wise) shall be as follows: - o 3 phase Phases (red, yellow, blue) Neutral (black) Earth (green) - o 1 phase Phases (red) Neutral (black) Earth (green) - o Control Wiring Orange or red				
1	Circuit wiring from DB to switch board/dimmer including any wiring from switch board to switch board with 2x2.5 Sq.mm + ECC 1x2.5 Sqmm, 1-core PVC wires in 25mm dia of pvc conduit. (Avg Length: 12m)	4	No.	8500	34000
2	Wiring for light point from switch board / Dimmer board to first light point with 1.5 Sq.mm common neutral of 2.5 Sq.mm and common ECC 2.5 Sq.mm + wires in 25mm dia exposed PVC conduit as shown on drawings. (Avg Length: 8m)	12	No.	4500	54000
a	Same as above item but wiring from light point to point. (Avg Length: 6m)	40	No.	2500	100,000

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3	Wiring for Group Control light fixtures From DB to first light point with 2x2.5 Sq.mm + ECC 1x2.5 Sq.mm in 25mm dia exposed PVC conduit as shown on drawings. (Avg Length: 10m)	1	No.	3500	3500
a	Same as above item but from light point to point . (Avg Length: 3m)	2	No.	1500	3000
4	Emergency Circuit wiring from DB to switch board/dimmer including any wiring from switch board to switch board with 2x2.5 Sq.mm + ECC 1x2.5 Sqmm, 1-core PVC wires in 25mm dia of pvc conduit. (Avg Length: 12m)	1	No.	16500	16,500
5	Emergency Wiring for light point from switch board / Dimmer board to first light point with 1.5 Sq.mm common neutral of 2.5 Sq.mm and common ECC 2.5 Sq.mm + wires in 25mm dia exposed PVC conduit as shown on drawings. (Avg Length: 8m)	1	No.	4500	4500
a	Same as above item but wiring from light point to point . (Avg Length: 6m)	1	No.	2500	2500
6	Emergency Wiring for Group Control light fixtures From DB to first light point with 2x2.5 Sq.mm + ECC 1x2.5 Sq.mm in 25mm dia exposed PVC conduit as shown on drawings. (Avg Length: 10m)	1	No.	13,500	13500
a	Same as above item but from light point to point . (Avg Length: 3m)	2	No.	6500	6500
7	Wiring of 13A/15A Switch Socket units (RAW Power) from DB to first outlet with following size of wires in 25mm dia PVC conduit. (Avg Length: m)				
a	2x4 Sq.mm + ECC 1x4 Sq.mm (Avg Length: 10m)	2	No.	22500	45000
b	Same as above item, but wiring from outlet to outlet . (Avg Length: 5m)	9	No.	8500	76500
8	Wiring of 13A Switch Socket units (UPS Power) from DB to first outlet with following size of wires in 25mm dia PVC conduit.				
a	2x4 Sq.mm + ECC 1x4 Sq.mm (Avg Length: 12m)	1	No.	22500	22,500
b	Same as above item, but wiring from outlet to outlet . (Avg Length: 10m)	3	No.	8500	25,500
9	Wiring of Communication Rack 16A 3-PIN Industrial Socket from UDB to outlet with following size of wires in 32mm dia PVC conduit via Cable Tray.				
a	2Cx4 Sq.mm + ECC 1x4 Sq.mm (Avg Length: 8m)	1	No.	2500	2500

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10	Wiring of UPS 32A 3-PIN Industrial Socket from DB to Industrial Socket & Socket to DB following size of wires in 32mm dia PVC conduit via Cable Tray.				
a	3cx6 Sq.mm (Avg Length: 8m)	Rate only	No.	45,000	
Total Amount (Rs.) Sec - A (CARRIED FORWARD TO SUMMARY)			PKR	416,500/-	

	SECTION - B CABLE CONTAINMENT				
1	Supply & installation of following sizes PVC/UPVC Conduits including all accessories such as bends, sockets, j-boxes, flexible conduits, metal saddles e.t.c for Main / Sub Main Power, Telephone & Data Cables, concealed / surface on wall as per design drawings. Provide MS Pull boxes where ever required.				
a	25 mm dia PVC Conduit for CCTV, Data and other services.	30	Rm.	230	6900
b	32 mm dia PVC Conduit	25	Rm.	245	6125
c	38 mm dia PVC Conduit	1	Rm.	2000	2000
d	50 mm dia PVC Conduit	15	Rm.	265	3,975
e	38 mm dia UPVC Conduit (Class-D) (For main Cable)	15	Rm.	265	3975
f	20 mm dia Imported PVC flexible Conduit (Univolt etc.)	25	Rm.	160	4000
g	32 mm dia Imported PVC flexible Conduit (Univolt etc.)	30	Rm.	160	4800
2	Supply and installation of M.S Floor Boxes(DAWIS) of 18 SWG sheet. Complete in all respects as per details and drawings.				
a	225mm x 225mm x 62.5mm (Floor Box With Out Faceplate) must be suitable for 13A simplex, 13A duplex Switch Socket, 1No. RJ-45 duplex face plate for Data/Voice.	1	No.	12500	12500
3	Supply and installation of Technology Box of 18 SWG sheet. Complete in all respects as per details and drawings.				

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a	550mm x 225mm x 62.5mm (With Out Faceplate) must be suitable for 13A simplex, 13A duplex Switch Socket, 1No. RJ-45 duplex face plate for Data/Voice.	1	No.	8500	8500
4	Supply and Installation of M.S Pull Box of 16 SWG sheet with S.S. Top Cover of 16 SWG sheet for carrying heavy weights. Complete in all respects as per details and drawings.				
a	200mm x 200mm x 62mm Pull Box	1	No.	12500	12500
Total Amount (Rs.) Sec - B (CARRIED FORWARD TO SUMMARY)			PKR	65,275/-	

	SECTION - C SWITCHES & SOCKETS				
	Supply and Installation of following 10 Amps, one-way gang type switches or 10/13/15/20 Amps socket outlets make including 16 SWG sheet steel back boxes recessed / surface on wall or as per design drawings. (Series Pieno or equivalent)				
1	10A, 220V One Gang Switch Unit Make: Schneider/Clipsal (Vivace/Piano Series)	Rate only	No.	3500	
2	10A, 220V Two Gang Switch Unit Make: Schneider/Clipsal (Vivace/Piano Series)	3	No.	2200	6600
3	10A, 220V Three Gang Switch Unit Make: Schneider/Clipsal (Vivace/Piano Series)	1	No.	2300	2300
4	10A, 220V Four Gang Switch Unit Make: Schneider/Clipsal (Vivace/Piano Series)	1	No.	2650	2650
5	13A, International Switch Socket unit Make: Schneider/Clipsal	10	No.	2500	25000
6	13A, International Switch Socket unit Counter Height Make: Schneider/Clipsal	4	No.	3500	14000
7	13A, Duplex Switch Socket Flat Pin Make: Schneider/Clipsal	2	No.	4500	9000
8	15A, International Switch Socket Normal Height Make: Schneider/Clipsal	Rate only	No.	6500	
9	20A Round Pin Switch Socket Unit Make: Schneider/Clipsal	Rate only	No.	7500	

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10	16A 3-Pin Industrial Socket For Communication Rack Make: Schneider/Clipsal	1	No.	3200	3200
11	32A 3-Pin Industrial Socket For UPS Make: Schneider/Clipsal	Rate only	No.	15000	
Total Amount (Rs.) Sec - C (CARRIED FORWARD TO SUMMARY)			PKR	62,750/-	

	SECTION - D MAIN CABLES				
	Supply, Installation, testing and commissioning of following sizes of Main / Sub main Cables in already installed cable tray, conduit etc. Including all accessories, lugs, glands etc. complete in all respect as shown on drawing.				
1	From Main Supply/Nearest Supply To Breaker Box 4C-6 Sqmm Cu/PVC/PVC + ECC 1 x 6 Sqmm Cu/PVC Note: Cable length is tentative. Actual will be measured on Site.	20	Rm.	1650	33,000
	NOTE: Contractor is advised to confirm the cable size, running lengths and termination as per site conditions before commencement of work.				
Total Amount (Rs.) Sec - D (CARRIED FORWARD TO SUMMARY)			PKR	33,000	
	SECTION - E DISTRIBUTION BOARDS				
	Supply, Installation, testing & commissioning of following Distribution Boards as shown on drawing made with 14 SWG sheet steel housing including all installation accessories such as Rawal bolt etc. Complete in all respects. Supply of all the accessories required for the installation are included.				
1	BREAKER BOX (AMAN CED BLOCK)	1	No.	35,000	35000
Total Amount (Rs.) Sec - E (CARRIED FORWARD TO SUMMARY)			PKR	35000	

	SECTION - F LIGHTING FIXTURES				
	Supply & Installation of the following lighting fixture complete with ballast, starter p.f.i capacitor and specified lamps. Supply of all the accessories required for the installation of Light Fixtures are included. Note: 2"x2" Channle to be included. PFI=0.9 CRI>80% TO 90%				
1	CEILING MOUNTED MIN 20W LED CYLINDRICAL LIGHT WITH COLOR TEMP 4000K/5000K CRI 90% OR AS PER ARCHITECT	30	No.	4500	135,000/-
2	LED LINEAR LIGHT 4FT MIN 35W WITH COLOR TEMP 4000K/5000K & CRI 80% OR AS PER ARCHITECT.	11	No.	8500	93,500/-
3	MAINTAINED TYPE 10W EMERGENCY LIGHT WITH 2-HR BATTERY BACKUP	3	No.	7500	22500/-
4	CEILING MOUNTED MIN MIN 20W LED SMD LIGHT WITH COLOR TEMP 4000K/5000K CRI 90% OR AS PER ARCHITECT	6	No.	3850	23100/-
5	CEILING MOUNTED MIN 40W LED PANEL LIGHT 2FT x 2FT WITH COLOR TEMP 4000K/5000K CRI 90% OR AS PER ARCHITECT	6	No.	10,500	63,000/-
Total Amount (Rs.) Sec - F (CARRIED FORWARD TO SUMMARY)			PKR	337,100	

	SECTION - G CONVENTIONAL FIRE ALARM CONTROL SYSTEM				
	Supply Installation, testing and commissioning of following items for Conventional Fire Alarm System comprising of following equipments including all accessories required for the completion of the system in all respects. (Note: 2Nos. Dry contact required for tripping mechanism)				
1	(Existing FACP Considered) Fire Alarm Control Panel of 1-Zone expendable upto 4-Zone having maximum 10 devices per zone. The FACP shall be self powered with built in 12V batteries for 24 Hrs backup with charging unit. It can be programmed using Windows based software for peripheral devices like display unit, printers etc. Complete in all respect. Integration Module is also required.	Rate only	No.	225,000	
2	Conventional Multi detector with base along with full functioning switching programming capabilities ,system as per specification & recommended of drawing / manufacturer with allied components with T&P etc imported approved make/model or as approved by the	2	No.	14500	29,000

	engineer in-charge as required. The detector shall have built in short circuit isolators on both inputs. (Existing)				
3	Manual brake glass call point unit along with housing and full functioning switching programming capabilities, system as per specification & recommended of drawing / manufacturer with allied components with T&P etc imported approved make/model or as approved by the engineer in-charge as required. 3 call point units are kept as spare/ to cater for additional requirement.	2	No.	13500	27,000
4	Loop sounder with flashing light integrated base type of approved make complete as required. Sounders required to be activated only in the respective loop/ zone where fire is detected.	2	No.	5000	10000
5	Programming, testing and commissioning of the complete system as per client's requirements permissible for the FACP with training sessions of maintenance personnel's.	1	Job	18500	18500
6	Supply, Installation & wiring for FACP Power from DB to FACP with 2C 2.5 Sq.mm flexible cable in 25mm dia uPVC Conduit. Complete in all respect. (Existing FACP Considered)	Rate Only	Rm.	1250	
7	END OF LINE RESISTOR	2	No.	14500	29000
8	Supply, Installation & wiring for whole Fire Alarm System using 2C, 1.5 Sq.mm Fire Resistant Shielded Cable (Fire Rating for 2 hours) in 25mm dia uPVC conduit from fire alarm control panel to all sensors & devices including all installation accessories complete in all respect.	45	Rm.	750	33,750
	Note: 1) The Bidder shall provide the complete Technical Literature for the system offered. 2) Contractor is advised to confirm the cable running lengths and termination as per site conditions before commencement of work. 3) Installation work shall be under supervision of qualified engineer be a member of NFPA.				
Total Amount (Rs.) Sec - G (CARRIED FORWARD TO SUMMARY)			PKR	147,250/-	

	SECTION - H DATA & VOICE COMMUNICATION				
	Supply, Installation, testing and commissioning of following items for voice and data communication system including all material, labor, tools, accessories etc. Complete in all respects. Quantities for cables shown in BOQ are estimated and taken from drawings.				

	Contractor is advised to take measurement at site before commencement of works. Different colors of voice and data cables shall be used. (Selected Series for Face plates is Corning or equivalent)				
1	Duplex Face plate with 1 No.RJ-45 I/O for Voice 1 No.RJ-45 I/O for Data(CAT-6) white / off white finish, complete with shuttered click-ins, labels and all accessories including 16 SWG sheet steel back box. Complete in all respects.	4	No	4500	18,000
2	Simplex Face plate with 1 No.RJ-45 I/O (Wifi) white / off white finish, complete with shuttered click-ins, labels and all accessories including 16 SWG sheet steel back box. Complete in all respects.	8	Nos	3500	28,000
3	CAT-6 UTP Cables for Data, Voice & Wifi communication system from Com Rack to each workstation in already laid PVC Conduit as per drawings including termination and tagging at both ends . Complete in all respects. (305Rm./Coil) (Corning or equivalent)	1600	Rm.	35	56,000
4	6 Core, Multi Mode OM3 Fiber Optic Cable From Data Switch to Server including termination as per standard specifications, all termination accessories up to entire satisfaction of IT Engineer, in appropriate size of already installed PVC conduit / cable tray including testing.	Rate Only	Rm.	2500	
5	Communication Rack 5U (Floor Standing/Wall Mounted) . Rack shall be equipped with power distribution units (PDUs).	Rate Only	No.	50,000	
6	Following CAT-6, Patch Panels equipped with RJ-45 Tool Less I/Os for Voice and Data communication system with rear cable organizer including all labeling and all mounting accessories. Complete in all respects.				
a	08-port CAT-6 patch panel for Voice	Rate Only	No.	35000	
7	Following CAT-6, Patch Panels equipped with RJ-45 Tool Less I/Os for Voice and Data communication system with rear cable organizer including all labeling and all mounting accessories. Complete in all respects.				
a	24-port CAT-6 patch panel (LOADED) for Data	1	No.	28500	28,500
8	CAT-6 factory certified Patch Cords of specified color having RJ-45 connectors at both ends for Voice Communication .				
a	1 meter long.	Rate Only	No.	3500	
9	CAT-6 factory certified Patch Cords of specified color having RJ-45 connectors at both ends for Data Communication .				

a	3 meter long.	3	No	3500	10,500
b	1 meter long.	16	No.	1500	24,000
10	Front Cable Organizer for voice & data patch panels / wiring blocks with complete labeling and dressing for incoming cable management.	1	No	6500	6500
11	Wifi Router or AS Per Client Requirement	Rate Only	No	25000	
12	Premium High Speed HDMI:				
a	Up to 8K resolution with high dynamic range (HDR) at up to 60Hz refresh rate (Minimum 15Meter Length With Both Ends Punched with Port.	3	No	12500	37500
13	Testing and commissioning of all above items, termination and connectivity at both ends, including submission of detailed test report from the Principals.	1	Job	5000	5000
14	Allow for any other item or labour required for completion of system not covered in BOQ or specifications / drawings in accordance with the same standards and brands shown and approved by consultant. All such items shall be covered in this item but complete description, item rates, quantity required and brands shall be mentioned separately and to be attached with the BOQ.	1	Job	25000	25000
	Note: Contractor is advised to confirm the cable running lengths and termination as per site conditions before commencement of work. Active I.T System will be under the scope of the client.				
Total Amount (Rs.) Sec - H (CARRIED FORWARD TO SUMMARY)			PKR	239,000/-	

	SECTION - I AS BUILT DRAWINGS				
1	Preparation of as-built drawings of all electrical and allied works after final approval from the consultant/client. Note: Submission of as-build drawings 2 sets after work completion of each floor and 3 sets & soft copy of complete electrical works after final commissioning of project. Approval of final bills are subject to completion of as built drawings.	2	NO.	15000	30,000/-

Total Amount (Rs.) Sec - I (CARRIED FORWARD TO SUMMARY)	PKR	30,000/-
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	SECTION - J DISMENTALLING/REINSTALLATION WORKS				
1	Dismantling of existing work which include existing light, general wiring, switches, data points and sockets. Complete in all respect to complete the entire system.	1	Job	5000	5000/-
Total Amount (Rs.) Sec - J (CARRIED FORWARD TO SUMMARY)			PKR	5000/-	

	SECTION - K ACCESS PANELS				
1	Providing and installing 2'-0" x 2'-0" locakable type access panel made of powder-coated MS / aluminum frame with gypsum board infill (or as per ceiling type), complete with concealed hinges, locking arrangement, and all necessary hardware, fixed in false ceiling/wall as required, including cutting, frame support, finishing, and making good to match the surrounding surface	6	No.	3500	21000/-
Total Amount (Rs.) Sec - K (CARRIED FORWARD TO SUMMARY)			PKR	21,000/-	

(II) TOTAL AMOUNT OF ELECTRICAL WORKS (AMAN CED CLASSROOM AND SEMINAR ROOM) A+B+C+D+E+F+G+H+I+J+K	PKR	1,391,875/-
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(III) BILL OF QUANTITIES FOR TABBA BLOCK CLASSROOM AND SEMINAR ROOM				
DESCRIPTION	Qty	UNIT	RATE (Rs.)	AMOUNT (Rs.)
SECTION - A1 WIRING / WIRING ACCESSORIES				

	Supply, installation, testing & commissioning of following items including specified wires, conduits, junction boxes, heavy duty porcelain / tool less imported connectors, all other relevant material, tools, labor & accessories required for completion of work as per description & drawings, complete in all respects. The Average quantity of each 'No.' shall be taken from drawings. Flexible Conduits, PVC Adaptors Should be provided. Flexible cables: o Single core, PVC insulated, non-sheathed cables BS 6004 o Sheathed flexible cords for wiring of luminaries (heat resistant) BS 6141 Cable color code (phase wise) shall be as follows: o 3 phase Phases (red, yellow, blue) Neutral (black) Earth (green) o 1 phase Phases (red) Neutral (black) Earth (green) o Control Wiring Orange or red				
1	Circuit wiring from DB to switch board/dimmer including any wiring from switch board to switch board with 2x2.5 Sq.mm + ECC 1x2.5 Sqmm, 1-core PVC wires in 25mm dia of pvc conduit. (Avg Length: 12m)	4	No.	8500	34000
2	Wiring for light point from switch board / Dimmer board to first light point with 1.5 Sq.mm common neutral of 1.5 Sq.mm and common ECC 1.5 Sq.mm + wires in 25mm dia exposed PVC conduit as shown on drawings. (Avg Length: 8m)	16	No.	4500	72000
a	Same as above item but wiring from light point to point . (Avg Length: 6m)	25	No.	2500	62500
3	Wiring for Group Control light fixtures From DB to first light point with 2x2.5 Sq.mm + ECC 1x2.5 Sq.mm in 25mm dia exposed PVC conduit as shown on drawings. (Avg Length: 10m)	1	No.	3500	3500
a	Same as above item but from light point to point . (Avg Length: 3m)	2	No.	1500	3000
4	Emergency Circuit wiring from DB to switch board/dimmer including any wiring from switch board to switch board with 2x2.5 Sq.mm + ECC 1x2.5 Sqmm, 1-core PVC wires in 25mm dia of pvc conduit. (Avg Length: 12m)	1	No.	16500	16500
5	Emergency Wiring for light point from switch board / Dimmer board to first light point with 1.5 Sq.mm common neutral of 2.5 Sq.mm and common ECC 2.5 Sq.mm + wires in 25mm dia exposed PVC conduit as shown on drawings. (Avg Length: 8m)	1	No.	4500	4500
a	Same as above item but wiring from light point to point . (Avg Length: 6m)	1	No.	2500	2500

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6	Emergency Wiring for Group Control light fixtures From DB to first light point with 2x2.5 Sq.mm + ECC 1x2.5 Sq.mm in 25mm dia exposed PVC conduit as shown on drawings. (Avg Length: 10m)	1	No.	13500	13500
a	Same as above item but from light point to point . (Avg Length: 3m)	2	No.	6500	13000
7	Wiring of 13A/15A Switch Socket units (RAW Power) from DB to first outlet with following size of wires in 25mm dia PVC conduit. (Avg Length: m)				
a	2x4 Sq.mm + ECC 1x4 Sq.mm (Avg Length: 10m)	2	No.	22500	45000
b	Same as above item, but wiring from outlet to outlet . (Avg Length: 5m)	12	No.	8500	102000
8	Wiring of 13A Switch Socket units (UPS Power) from DB to first outlet with following size of wires in 25mm dia PVC conduit.				
a	2x4 Sq.mm + ECC 1x4 Sq.mm (Avg Length: 12m)	2	No.	22500	45000
b	Same as above item, but wiring from outlet to outlet . (Avg Length: 10m)	4	No.	8500	34000
9	Wiring of Communication Rack 16A 3-PIN Industrial Socket from UDB to outlet with following size of wires in 32mm dia PVC conduit via Cable Tray.				
a	2Cx4 Sq.mm + ECC 1x4 Sq.mm (Avg Length: 8m)	1	No.	22500	22500
10	Wiring of UPS 32A 3-PIN Industrial Socket from DB to Industrial Socket & Socket to DB following size of wires in 32mm dia PVC conduit via Cable Tray.				
a	3cx6 Sq.mm (Avg Length: 8m)	Rate Only	No.	30,000	
Total Amount (Rs.) Sec – A1 (CARRIED FORWARD TO SUMMARY)			PKR	473,500/-	

SECTION – B1					
CABLE CONTAINMENT					
1	Supply & Installation of following sizes PVC/UPVC Conduits including all accessories such as bends, sockets, j-boxes, flexible conduits, metal saddles e.t.c for Main / Sub Main Power, Telephone & Data Cables, concealed / surface on wall as per design drawings. Provide MS Pull boxes where ever required.				

a	25 mm dia PVC Conduit for CCTV, Data and other services.	30	Rm.	230	6900
b	32 mm dia PVC Conduit	20	Rm.	245	4900
c	38 mm dia PVC Conduit	1	Rm.	2000	2000
d	50 mm dia PVC Conduit	15	Rm.	265	3975
e	38 mm dia UPVC Conduit (Class-D) (For main Cable)	15	Rm.	265	3975
f	20 mm dia Imported PVC flexible Conduit (Univolt etc.)	25	Rm.	160	4000
g	32 mm dia Imported PVC flexible Conduit (Univolt etc.)	20	Rm.	160	3200
2	Supply and installation of M.S Floor Boxes(DAWIS) of 18 SWG sheet. Complete in all respects as per details and drawings.				
a	225mm x 225mm x 62.5mm (Floor Box With Out Faceplate) must be suitable for 13A simplex, 13A duplex Switch Socket, 1No. RJ-45 duplex face plate for Data/Voice.	1	No.	12500	12500
3	Supply and installation of Technology Box of 18 SWG sheet. Complete in all respects as per details and drawings.				
a	550mm x 225mm x 62.5mm (With Out Faceplate) must be suitable for 2no. 13A simplex, 13A duplex Switch Socket, 1No. RJ-45 duplex face plate for Data/Voice.	1	No	8500	8500
4	Supply and installation of M.S Pull Box of 16 SWG sheet with S.S. Top Cover of 16 SWG sheet for carrying heavy weights. Complete in all respects as per details and drawings.				
a	200mm x 200mm x 62mm Pull Box	1	No.	12500	12500
Total Amount (Rs.) Sec – B1 (CARRIED FORWARD TO SUMMARY)			PKR	62450/-	

SECTION – C1				
SWITCHES & SOCKETS				

	Supply and Installation of following 10 Amps, one-way gang type switches or 10/13/15/20 Amps socket outlets make including 16 SWG sheet steel back boxes recessed / surface on wall or as per design drawings. (Series Pieno or equivalent)				
1	10A, 220V One Gang Switch Unit Make: Schneider/Clipsal (Vivace/Piano Series)	Rate Only	No.	3500	
2	10A, 220V Two Gang Switch Unit Make: Schneider/Clipsal (Vivace/Piano Series)	Rate Only	No.	3800	
3	10A, 220V Three Gang Switch Unit Make: Schneider/Clipsal (Vivace/Piano Series)	4	No.	2100	8400
4	10A, 220V Four Gang Switch Unit Make: Schneider/Clipsal (Vivace/Piano Series)	1	No.	3200	3200
5	13A, International Switch Socket unit Make: Schneider/Clipsal	11	No.	1850	20350
6	13A, International Switch Socket unit Counter Height Make: Schneider/Clipsal	6	No.	2250	13500
7	13A, Duplex Switch Socket Flat Pin Make: Schneider/Clipsal	2	No.	2500	5000
8	16A 3-Pin Industrial Socket For Communication Rack Make: Schneider/Clipsal	1	No.	2100	2100
Total Amount (Rs.) Sec - C1 (CARRIED FORWARD TO SUMMARY)			PKR	52550/-	

SECTION - D1					
MAIN CABLES					
	Supply, Installation, testing and commissioning of following sizes of Main / Sub main Cables in already installed cable tray, conduit etc. Including all accessories, lugs, glands etc. complete in all respect as shown on drawing.				
1	From Main Supply/Nearest Supply To Breaker Box 4C-6 Sqmm Cu/PVC/PVC + ECC 1 x 6 Sqmm Cu/PVC Note: Cable length is tentative. Actual will be measured on Site.	20	Rm.	1650	33,000/-
	NOTE: Contractor is advised to confirm the cable size, running lengths and termination as per site conditions before commencement of work.				

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Total Amount (Rs.) Sec – D1 (CARRIED FORWARD TO SUMMARY)	PKR	33,000/-
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SECTION – E1 DISTRIBUTION BOARDS					
	Supply, Installation, testing & commissioning of following Distribution Boards as shown on drawing made with 14 SWG sheet steel housing including all installation accessories such as Rawal bolt etc. Complete in all respects. Supply of all the accessories required for the installation are included.				
1	BREAKER BOX (TABBA BLOCK)	1	No.	25000	25000
Total Amount (Rs.) Sec – E1 (CARRIED FORWARD TO SUMMARY)			PKR	25000/-	

SECTION – F1 LIGHTING FIXTURES					
	Supply & Installation of the following lighting fixture complete with ballast, starter p.f.i capacitor and specified lamps. Supply of all the accessories required for the installation of Light Fixtures are included. Note: 2"x2" Channle to be included. PFI=0.9 CRI>80% TO 90%				
1	CEILING MOUNTED MIN 20W LED CYLINDRICAL LIGHT WITH COLOR TEMP 4000K/5000K CRI 90% OR AS PER ARCHITECT	24	No.	4500	108,000
2	LED LINEAR LIGHT 4FT MIN 35W WITH COLOR TEMP 4000K/5000K & CRI 80% OR AS PER ARCHITECT.	9	No.	8500	76500
3	MAINTAINED TYPE MIN 10W EMERGENCY LIGHT WITH 2-HR BATTERY BACKUP	3	No.	5500	16500
4	LED PANEL LIGHT 2FTx2FT MIN 40W WITH COLOR TEMP 4000K/5000K & CRI 90% OR AS PER ARCHITECT	8	No.	10500	84000

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Total Amount (Rs.) Sec – F1 (CARRIED FORWARD TO SUMMARY)	PKR	285,000/-
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SECTION – G1					
CONVENTIONAL FIRE ALARM CONTROL SYSTEM					
	Supply Installation, testing and commissioning of following items for Conventional Fire Alarm System comprising of following equipments including all accessories required for the completion of the system in all respects. (Note: 2Nos. Dry contact required for tripping mechanism)				
1	(Existing FACP Considered) Fire Alarm Control Panel of 1-Zone expendable upto 4-Zone having maximum 10 devices per zone. The FACP shall be self powered with built in 12V batteries for 24 Hrs backup with charging unit. It can be programmed using Windows based software for peripheral devices like display unit, printers etc. Complete in all respect. Integration Module is also required.	Rate Only	No.	225000	
2	Conventional Multi detector with base along with full functioning switching programming capabilities, system as per specification & recommended of drawing / manufacturer with allied components with T&P etc imported approved make/model or as approved by the engineer in-charge as required. The detector shall have built in short circuit isolators on both inputs. (Existing)	2	No.	14500	29000
3	Manual brake glass call point unit along with housing and full functioning switching programming capabilities, system as per specification & recommended of drawing / manufacturer with allied components with T&P etc imported approved make/model or as approved by the engineer in-charge as required. 3 call point units are kept as spare/ to cater for additional requirement.	2	No.	22500	45000
4	Loop sounder with flashing light integrated base type of approved make complete as required. Sounders required to be activated only in the respective loop/ zone where fire is detected.	2	No.	16500	33000
5	Programming, testing and commissioning of the complete system as per client's requirements permissible for the FACP with training sessions of maintenance personnel's.	1	Job	5000	5000
6	Supply, Installation & wiring for FACP Power from DB to FACP with 2C 2.5 Sq.mm flexible cable in 25mm dia uPVC Conduit. Complete in all respect. (Existing FACP Considered)	Rate Only	Rm.	1250	

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7	END OF LINE RESISTOR	Rate Only	No.	14500	
8	Supply, Installation & wiring for whole Fire Alarm System using 2C, 1.5 Sq.mm Fire Resistant Shielded Cable (Fire Rating for 2 hours) in 25mm dia uPVC conduit from fire alarm control panel to all sensors & devices including all installation accessories complete in all respect.	35	Rm.	750	26250
	Note: 1) The Bidder shall provide the complete Technical Literature for the system offered. 2) Contractor is advised to confirm the cable running lengths and termination as per site conditions before commencement of work. 3) Installation work shall be under supervision of qualified engineer be a member of NFPA.				
Total Amount (Rs.) Sec – G1 (CARRIED FORWARD TO SUMMARY)			PKR	138,250	

SECTION – H1					
DATA & VOICE COMMUNICATION					
	Supply, installation, testing and commissioning of following items for voice and data communication system including all material, labor, tools, accessories etc. Complete in all respects. Quantities for cables shown in BOQ are estimated and taken from drawings. Contractor is advised to take measurement at site before commencement of works. Different colors of voice and data cables shall be used. (Selected Series for Face plates is Corning or equivalent)				
1	Duplex Face plate with 1 No.RJ-45 I/O for Voice 1 No.RJ-45 I/O for Data(CAT-6) white / off white finish, complete with shuttered click-ins, labels and all accessories including 16 SWG sheet steel back box. Complete in all respects.	4	No.	4500	18000
2	Simplex Face plate with 1 No.RJ-45 I/O (Wifi) white / off white finish, complete with shuttered click-ins, labels and all accessories including 16 SWG sheet steel back box. Complete in all respects.	8	No.	3500	28000
3	CAT-6 UTP Cables for Data, Voice & Wifi communication system from Com Rack to each workstation in already laid PVC Conduit as per drawings including termination and tagging at both ends . Complete in all respects. (305Rm./Coil) (Corning or equivalent)	1440	Rm.	45	64800
4	6 Core, Multi Mode OM3 Fiber Optic Cable From Data Switch to Server including termination as per standard specifications, all termination accessories up to entire	Rate Only	Rm.	625	

	satisfaction of IT Engineer, in appropriate size of already installed PVC conduit / cable tray including testing.				
5	Communication Rack 5U (Floor Standing/Wall Mounted). Rack shall be equipped with power distribution units (PDUs).	Rate Only	No.	50,000	
6	Following CAT-6, Patch Panels equipped with RJ-45 Tool Less I/Os for Voice and Data communication system with rear cable organizer including all labeling and all mounting accessories. Complete in all respects.				
a	8-port CAT-6 patch panel for Voice	Rate Only	No.	35,000	
7	Following CAT-6, Patch Panels equipped with RJ-45 Tool Less I/Os for Voice and Data communication system with rear cable organizer including all labeling and all mounting accessories. Complete in all respects.				
A	24-port CAT-6 patch panel (LOADED) for Data	1	No.	35000	35000
8	CAT-6 factory certified Patch Cords of specified color having RJ-45 connectors at both ends for Voice Communication.				
A	1 meter long.	Rate Only	No.	4500	
9	CAT-6 factory certified Patch Cords of specified color having RJ-45 connectors at both ends for Data Communication.				
a	3 meter long.	3	No.	2500	7500
b	1 meter long.	16	No.	1500	24000
10	Front Cable Organizer for voice & data patch panels / wiring blocks with complete labeling and dressing for incoming cable management.	1	No.	8500	8500
11	Premium High Speed HDMI:				
a	Up to 8K resolution with high dynamic range (HDR) at up to 60Hz refresh rate (Minimum 15Meter Length With Both Ends Punched with Port.	3	No.	12500	37500
12	Testing and commissioning of all above items, termination and connectivity at both ends, including submission of detailed test report from the Principals.	1	Job	15000	15000

13	Allow for any other item or labour required for completion of system not covered in BOQ or specifications / drawings in accordance with the same standards and brands shown and approved by consultant. All such items shall be covered in this item but complete description, item rates, quantity required and brands shall be mentioned separately and to be attached with the BOQ.	1	Job	25000	25000
	Note: Contractor is advised to confirm the cable running lengths and termination as per site conditions before commencement of work. Active I.T System will be under the scope of the client.				
Total Amount (Rs.) Sec – H1 (CARRIED FORWARD TO SUMMARY)			PKR	263,300/-	

SECTION – I1 AS BUILT DRAWINGS					
1	Preparation of as-built drawings of all electrical and allied works after final approval from the consultant/client. Note: Submission of as-build drawings 2 sets after work completion of each floor and 3 sets & soft copy of complete electrical works after final commissioning of project. Approval of final bills are subject to completion of as built drawings.	2	No.	5000	10,000
Total Amount (Rs.) Sec – I1 (CARRIED FORWARD TO SUMMARY)			PKR	10,000	

SECTION – J1 DISMENTALLING/REINSTALLATION WORKS					
1	Dismantling of existing work which include existing light, general wiring, switch, Data points and sockets. Complete in all respect to complete the entire system.	1	Job	5000	5000
Total Amount (Rs.) Sec – J1 (CARRIED FORWARD TO SUMMARY)			PKR	5000/-	

SECTION – K1 ACCESS PANELS					
1	Providing and installing 2'-0" × 2'-0" locakable type access panel made of powder-coated MS / aluminum frame with gypsum board infill (or as per ceiling type), complete with concealed hinges, locking arrangement,	6	Nos.	3500	21000

and all necessary hardware, fixed in false ceiling/wall as required, including cutting, frame support, finishing, and making good to match the surrounding surface				
Total Amount (Rs.) Sec – K1 (CARRIED FORWARD TO SUMMARY)		PKR	21,000/-	

TOTAL AMOUNT OF ELECTRICAL WORKS (TABBA CLASSROOM AND SEMINAR ROOM) A1+B1+C1+D1+E1+F1+G1+H1+I1+J1+K1	PKR	1,369,050/-
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(IV) SUMMARY OF COST FOR ADAMJEE BLOCK CLASSROOM & SEMINAR ROOM

DESCRIPTION		Qty	UNIT	RATE (Rs.)	AMOUNT (Rs.)
SECTION – A2					
WIRING / WIRING ACCESSORIES					
Supply, installation, testing & commissioning of following items including specified wires, conduits, junction boxes, heavy duty porcelain / tool less imported connectors, all other relevant material, tools, labor & accessories required for completion of work as per description & drawings, complete in all respects. The Average quantity of each 'No.' shall be taken from drawings. Flexible Conduits, PVC Adaptors Should be provided. Flexible cables: o Single core, PVC insulated, non-sheathed cables BS 6004 o Sheathed flexible cords for wiring of luminaries (heat resistant) BS 6141 Cable color code (phase wise) shall be as follows: o 3 phase Phases (red, yellow, blue) Neutral (black) Earth (green) o 1 phase Phases (red) Neutral (black) Earth (green) o Control Wiring Orange or red					
1	Circuit wiring from DB to switch board/dimmer including any wiring from switch board to switch board with 2x2.5 Sq.mm + ECC 1x2.5 Sqmm, 1-core PVC wires in 25mm dia of pvc conduit. (Avg Length: 12m)	4	No.	8500	34000
2	Wiring for light point from switch board / Dimmer board to first light point with 1.5 Sq.mm common neutral of 2.5 Sq.mm and common ECC 2.5 Sq.mm + wires in 25mm dia	12	No.	4500	54000

	exposed PVC conduit as shown on drawings. (Avg Length: 6m)				
a	Same as above item but wiring from light point to point . (Avg Length: 5m)	60	No.	2500	150,000
3	Wiring for Group Control light fixtures From DB to first light point with 2x2.5 Sq.mm + ECC 1x2.5 Sq.mm in 25mm dia exposed PVC conduit as shown on drawings. (Avg Length: 10m)	1	No.	3500	3500
a	Same as above item but from light point to point . (Avg Length: 3m)	2	No.	1500	1500
4	Emergency Circuit wiring from DB to switch board/dimmer including any wiring from switch board to switch board with 2x2.5 Sq.mm + ECC 1x2.5 Sqmm, 1-core PVC wires in 25mm dia of pvc conduit. (Avg Length: 12m)	1	No.	16500	16500
5	Emergency Wiring for light point from switch board / Dimmer board to first light point with 1.5 Sq.mm common neutral of 2.5 Sq.mm and common ECC 2.5 Sq.mm + wires in 25mm dia exposed PVC conduit as shown on drawings. (Avg Length: 8m)	1	No.	4500	4500
a	Same as above item but wiring from light point to point . (Avg Length: 6m)	1	No.	2500	2500
6	Emergency Wiring for Group Control light fixtures From DB to first light point with 2x2.5 Sq.mm + ECC 1x2.5 Sq.mm in 25mm dia exposed PVC conduit as shown on drawings. (Avg Length: 10m)	Rate Only	No.	25000	
a	Same as above item but from light point to point . (Avg Length: 3m)	Rate Only	No.	5000	
7	Wiring of 13A/15A Switch Socket units (RAW Power) from DB to first outlet with following size of wires in 25mm dia PVC conduit. (Avg Length: m)				
a	2x4 Sq.mm + ECC 1x4 Sq.mm (Avg Length: 10m)	2	No.	22500	45000
b	Same as above item, but wiring from outlet to outlet . (Avg Length: 5m)	9	No.	8500	76500
8	Wiring of 13A Switch Socket units (UPS Power) from DB to first outlet with following size of wires in 25mm dia PVC conduit.				
a	2x4 Sq.mm + ECC 1x4 Sq.mm (Avg Length: 12m)	1	No.	22500	22500

b	Same as above item, but wiring from outlet to outlet . (Avg Length: 10m)	1	No.	8500	8500
9	Wiring of Communication Rack 16A 3-PIN Industrial Socket from UDB to outlet with following size of wires in 32mm dia PVC conduit via Cable Tray.				
a	2Cx4 Sq.mm + ECC 1x4 Sq.mm (Avg Length: 8m)	1	No.	22500	22500
10	Wiring of UPS 32A 3-PIN Industrial Socket from DB to Industrial Socket & Socket to DB following size of wires in 32mm dia PVC conduit via Cable Tray.				
a	3cx6 Sq.mm (Avg Length: 8m)	Rate Only	No.	45000	
Total Amount (Rs.) Sec – A2 (CARRIED FORWARD TO SUMMARY)			PKR	443,000/-	

SECTION – B2					
WIRING / WIRING ACCESSORIES					
1	Supply & installation of following sizes PVC/UPVC Conduits including all accessories such as bends, sockets, j-boxes, flexible conduits, metal saddles e.t.c for Main / Sub Main Power, Telephone & Data Cables, concealed / surface on wall as per design drawings. Provide MS Pull boxes where ever required.				
a	25 mm dia PVC Conduit for CCTV, Data and other services.	30	Rm.	230	6900
b	32 mm dia PVC Conduit	25	Rm.	245	6125
c	38 mm dia PVC Conduit	1	Rm.	2000	2000
d	50 mm dia PVC Conduit	15	Rm.	265	3975
e	38 mm dia UPVC Conduit (Class-D) (For main Cable)	15	Rm.	265	3975
f	20 mm dia Imported PVC flexible Conduit (Univolt etc.)	25	Rm.	160	4000
g	32 mm dia Imported PVC flexible Conduit (Univolt etc.)	30	Rm.	160	4800

2	Supply and installation of M.S Floor Boxes(DAWIS) of 18 SWG sheet. Complete in all respects as per details and drawings.				
a	225mm x 225mm x 62.5mm (Floor Box With Out Faceplate) must be suitable for 13A simplex, 13A duplex Switch Socket, 1No. RJ-45 duplex face plate for Data/Voice.	1	No.	12500	12500
3	Supply and installation of Technology Box of 18 SWG sheet. Complete in all respects as per details and drawings.				
a	550mm x 225mm x 62.5mm (With Out Faceplate) must be suitable for 13A simplex, 13A duplex Switch Socket, 1No. RJ-45 duplex face plate for Data/Voice.	1	No.	8500	8500
4	Supply and installation of M.S Pull Box of 16 SWG sheet with S.S. Top Cover of 16 SWG sheet for carrying heavy weights. Complete in all respects as per details and drawings.				
a	200mm x 200mm x 62mm Pull Box	1	No.	12500	12500
Total Amount (Rs.) Sec – B2 (CARRIED FORWARD TO SUMMARY)			PKR	65,275/-	

SECTION – C2 SWITCHES & SOCKETS					
	Supply and installation of following 10 Amps, one-way gang type switches or 10/13/15/20 Amps socket outlets make including 16 SWG sheet steel back boxes recessed / surface on wall or as per design drawings. (Series Pieno or equivalent)				
1	10A, 220V One Gang Switch Unit Make: Schneider/Clipsal (Vivace/Piano Series)	Rate Only	No.	3500	
2	10A, 220V Two Gang Switch Unit Make: Schneider/Clipsal (Vivace/Piano Series)	1	No.	2250	2250
3	10A, 220V Three Gang Switch Unit Make: Schneider/Clipsal (Vivace/Piano Series)	2	No.	2500	5000
4	10A, 220V Four Gang Switch Unit Make: Schneider/Clipsal (Vivace/Piano Series)	Rate Only	No.	4500	
5	13A, International Switch Socket unit Make: Schneider/Clipsal	6	No.	2500	15000

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6	13A, International Switch Socket unit Counter Height Make: Schneider/Clipsal	4	No.	2800	11200
7	13A, Duplex Switch Socket Flat Pin Make: Schneider/Clipsal	2	No.	3500	7000
8	16A 3-Pin Industrial Socket For Communication Rack Make: Schneider/Clipsal	1	No.	3850	3850
Total Amount (Rs.) Sec - C2 (CARRIED FORWARD TO SUMMARY)			PKR	44,300/-	

SECTION - D2 MAIN CABLES					
	Supply, installation, testing and commissioning of following sizes of Main / Sub main Cables in already installed cable tray, conduit etc. Including all accessories, lugs, glands etc. complete in all respect as shown on drawing.				
1	From Main Supply/Nearest Supply To Breaker Box 4C-6 Sqmm Cu/PVC/PVC + ECC 1 x 6 Sqmm Cu/PVC Note: Cable length is tentative. Actual will be measured on Site.	20	Rm.	1650	33,000
	NOTE: Contractor is advised to confirm the cable size, running lengths and termination as per site conditions before commencement of work.				
Total Amount (Rs.) Sec - D2 (CARRIED FORWARD TO SUMMARY)			PKR	33,000	

SECTION - E2 DISTRIBUTION BOARDS					
	Supply, installation, testing & commissioning of following Distribution Boards as shown on drawing made with 14 SWG sheet steel housing including all installation accessories such as Rawal bolt etc. Complete in all respects. Supply of all the accessories required for the installation are included.				
1	BREAKER BOX (Adamjee BLOCK)	1	No.	15000	15000

Total Amount (Rs.) Sec – E2 (CARRIED FORWARD TO SUMMARY)			PKR	15000	
SECTION – F2					
LIGHTING FIXTURES					
	Supply & Installation of the following lighting fixture complete with ballast, starter p.f.i capacitor, mounting accessories as specified lamps & as per site requirement. Supply of all the accessories required for the installation of Light Fixtures are included. Note: 2"x2" Channle to be included. PFI=0.9 CRI>80% TO 90%				
1	CEILING MOUNTED MIN 30W LED CYLINDRICAL LIGHT WITH COLOR TEMP 4000K/5000K CRI 90% OR AS PER ARCHITECT	24	No.	5200	124,800
2	LED LINEAR LIGHT 4FT MIN 35W WITH COLOR TEMP 4000K/5000K & CRI 80% OR AS PER ARCHITECT.	10	No.	10500	105,000
3	MAINTAINED TYPE MIN 10W EMERGENCY LIGHT WITH 2-HR BATTERY BACKUP	3	No.	5500	16500
4	1x4 SURFACE MOUNTED LED PANEL LIGHT MIN 40W WITH COLOR TEMP 4000K/5000K & CRI 90% OR AS PER ARCHITECT.	21	No.	10,500	220,500
Total Amount (Rs.) Sec – F2 (CARRIED FORWARD TO SUMMARY)			PKR	466,800	

SECTION – G2					
CONVENTIONAL FIRE ALARM CONTROL SYSTEM					
	Supply Installation, testing and commissioning of following items for Conventional Fire Alarm System comprising of following equipments including all accessories required for the completion of the system in all respects. (Note: 2Nos. Dry contact required for tripping mechanism)				
1	(Existing FACP Considered) Fire Alarm Control Panel of 1-Zone expendable upto 4-Zone having maximum 10 devices per zone. The FACP shall be self powered with built in 12V batteries for 24 Hrs backup with charging unit. It can be programmed using Windows based software for peripheral devices like display unit, printers etc. Complete in all respect. Integration Module is also required.	Rate Only	No.	225000	

2	Conventional Multi detector with base along with full functioning switching programming capabilities, system as per specification & recommended of drawing / manufacturer with allied components with T&P etc imported approved make/model or as approved by the engineer in-charge as required. The detector shall have built in short circuit isolators on both inputs. (Existing system)	2	No.	14500	29,000
3	Manual brake glass call point unit along with housing and full functioning switching programming capabilities, system as per specification & recommended of drawing / manufacturer with allied components with T&P etc imported approved make/model or as approved by the engineer in-charge as required. 3 call point units are kept as spare/ to cater for additional requirement.	1	No	22500	22500
4	Loop sounder with flashing light integrated base type of approved make complete as required. Sounders required to be activated only in the respective loop/ zone where fire is detected.	1	No.	16500	16500
5	Programming, testing and commissioning of the complete system as per client's requirements permissible for the FACP with training sessions of maintenance personnel's.	1	Job	25000	25000
6	Supply, Installation & wiring for FACP Power from DB to FACP with 2C 2.5 Sq.mm flexible cable in 25mm dia uPVC Conduit. Complete in all respect. (Existing FACP Considered)	Rate Only	Rm.	350	
7	END OF LINE RESISTOR	Rate Only	No.	20,000	
8	Supply, Installation & wiring for whole Fire Alarm System using 2C, 1.5 Sq.mm Fire Resistant Shielded Cable (Fire Rating for 2 hours) in 25mm dia uPVC conduit from fire alarm control panel to all sensors & devices including all installation accessories complete in all respect.	25	Rm.	750	18750
	Note: 1) The Bidder shall provide the complete Technical Literature for the system offered. 2) Contractor is advised to confirm the cable running lengths and termination as per site conditions before commencement of work. 3) Installation work shall be under supervision of qualified engineer be a member of NFPA.				
Total Amount (Rs.) Sec - G2 (CARRIED FORWARD TO SUMMARY)			PKR	111,750/-	

SECTION - H2

DATA & VOICE COMMUNICATION

	Supply, installation, testing and commissioning of following items for voice and data communication system including all material, labor, tools, accessories etc. Complete in all respects. Quantities for cables shown in BOQ are estimated and taken from drawings. Contractor is advised to take measurement at site before commencement of works. Different colors of voice and data cables shall be used. (Selected Series for Face plates is Clipsal Vivace or equivalent)				
1	Duplex Face plate with 1 No.RJ-45 I/O for Voice 1 No.RJ-45 I/O for Data(CAT-6) white / off white finish, complete with shuttered click-ins, labels and all accessories including 16 SWG sheet steel back box. Complete in all respects.	4	No.	4500	18000
2	Simplex Face plate with 1 No.RJ-45 I/O (Wifi) white / off white finish, complete with shuttered click-ins, labels and all accessories including 16 SWG sheet steel back box. Complete in all respects.	5	No.	3500	17500
3	CAT-6 UTP Cables for Data, Voice & Wifi communication system from Com Rack to each workstation in already laid PVC Conduit as per drawings including termination and tagging at both ends. Complete in all respects. (302Rm./Coil) (Corning or Equivalent)	1440	Rm.	45	64800
4	6 Core, Multi Mode OM3 Fiber Optic Cable From Data Switch to Server including termination as per standard specifications, all termination accessories up to entire satisfaction of IT Engineer, in appropriate size of already installed PVC conduit / cable tray including testing.	Rate Only	Rm.	2500	
5	Communication Rack 5U (Floor Standing/Wall Mounted). Rack shall be equipped with power distribution units (PDUs).	Rate Only	No.	50000	
6	Following CAT-6, Patch Panels equipped with RJ-45 Tool Less I/Os for Voice and Data communication system with rear cable organizer including all labeling and all mounting accessories. Complete in all respects.				
a	8-port CAT-6 patch panel for Voice	Rate Only	No.	35000	
7	Following CAT-6, Patch Panels equipped with RJ-45 Tool Less I/Os for Voice and Data communication system with rear cable organizer including all labeling and all mounting accessories. Complete in all respects. As per Client				
a	24-port CAT-6 patch panel (LOADED) for Data	1	No.	35000	35000
8	CAT-6 factory certified Patch Cords of specified color having RJ-45 connectors at both ends for Voice Communication.				

a	1 meter long.	Rate Only	No.	3500	
10	CAT-6 factory certified Patch Cords of specified color having RJ-45 connectors at both ends for Data Communication .				
a	3 meter long.	2	No.	3500	7000
b	1 meter long.	16	No.	1500	24000
11	Front Cable Organizer for voice & data patch panels / wiring blocks with complete labeling and dressing for incoming cable management.	1	No.	8500	8500
12	Premium High Speed HDMI:				
a	Up to 8K resolution with high dynamic range (HDR) at up to 60Hz refresh rate (Minimum 15Meter Length With Both Ends Punched with Port.	3	No.	14500	43500
13	Testing and commissioning of all above items, termination and connectivity at both ends, including submission of detailed test report from the Principals.	1	Job	5000	5000
14	Allow for any other item or labour required for completion of system not covered in BOQ or specifications / drawings in accordance with the same standards and brands shown and approved by consultant. All such items shall be covered in this item but complete description, item rates, quantity required and brands shall be mentioned separately and to be attached with the BOQ.	1	Job	15000	15000
	Note: Contractor is advised to confirm the cable running lengths and termination as per site conditions before commencement of work. Active I.T System will be under the scope of the client.				
Total Amount (Rs.) Sec – H2 (CARRIED FORWARD TO SUMMARY)			PKR	238,300/-	

SECTION – I2					
AS BUILT DRAWINGS					
1	Preparation of as-built drawings of all electrical and allied works after final approval from the consultant/client. Note: Submission of as-build drawings 2 sets after work completion of each floor and 3 sets & soft copy of complete electrical works after final commissioning of	2	No.	5000	10,000

	project. Approval of final bills are subject to completion of as built drawings.				
Total Amount (Rs.) Sec – I2 (CARRIED FORWARD TO SUMMARY)			PKR	10,000/-	
SECTION – J2 ACCESS PANELS					
1	Dismantling of existing work which include existing light, general wiring, switches, Data points and sockets. Complete in all respect to complete the entire system.	1	Job	5000/-	5000/-
Total Amount (Rs.) Sec – J2 (CARRIED FORWARD TO SUMMARY)			PKR	5000	
SECTION – K2 DISMENTALLING/REINSTALLATION WORKS					
1	Providing and installing 2'-0" × 2'-0" locakable type access panel made of powder-coated MS / aluminum frame with gypsum board infill (or as per ceiling type), complete with concealed hinges, locking arrangement, and all necessary hardware, fixed in false ceiling/wall as required, including cutting, frame support, finishing, and making good to match the surrounding surface	6	Nos.	4500/-	27,000/-
Total Amount (Rs.) Sec – K2 (CARRIED FORWARD TO SUMMARY)			PKR	27000/-	
(IV) TOTAL AMOUNT OF ELECTRICAL WORKS (ADAMJEE CLASSROOM AND SEMINAR ROOMS) A2+B2+C2+D2+E2+F2+G2+H2+I2+J2+K2			PKR	1,459,425/-	

TOTAL AMOUNT OF I+II+III+IV	PKR	16,412,797.55
ADD 8% SRB	PKR	1,313,023.80
GRAND TOTAL AMOUNT WITH TAX I+II+III+IV	PKR	17,725,821.35

Rebate @ 1.35%.

PKR = (239,298.59)

Total after Rebate

PKR = 17,486,522.76

Grand Total Amount in Words:

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Proprietor

Rupees: Seventeen Million, four hundred

eighty-six thousand, five hundred twenty-two & 76/100

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