ESTIMATE OF PROPOSED ELECTRICAL WORK AT INDIAN BANK BHINMAL BRANCH, JALORE DIST.

	DIST.				
PA	RT B : ELECTRICAL WORK:-				
	General Notes:-				
a)	Rates to include all scaffolding, carriage of materials to and from the site in lead of				
α,	beyond 5 kms, and working in a running branch premises.				
b)	Wire Routing provided through the walls / floor / roof etc., rates to include cutting of wall				
	and refinishing the same finely complete.				
c)	Points include complete length of wiring, conduiting and accessories upto designated				
,	places as per the design and drawings.				
d)	Electrical contractor shall have to make the layout for cutting of lights etc. at site.				
e)	All newly done electrical wiring/ DB/points/ earthing etc. will be used as per instructions				
٠,	of architect/ engineer.				
1.	LIGHT & FAN POINTS:-				
	P & F light points, fan points, call bell points, sockets etc. with 2 X 1.5 sq. mm. PVC				
	insulated 1100 V grade FRLS, copper conductor wires and 1.0 sq. mm copper earth				
	wire in concealed / surface using ISI mark medium guage MS pipes of 25 mm dia				
	1.50mm thick conduits accessories such as bends, tees saddles, draw boxes, mounting				
	boxes, innerplates, cover plates, ceiling rose etc. (where ever required) and plug etc.				
	The circuit wiring starting from DB to point control box / switch box using 2 X 2.5 sq. mm				
	and 1.5 sq. mm earthing PVC insulated wiring color code to be provided. Identification				
	ferrules at both end to be provided. (Flexible conduit / elbow NOT allowed). The conduits				
	to be fixed in ceiling with proper clamps / wall / floor and felling the chase with cement				
	mortar and finish the same in original form / wooden partition / above false ceiling with				
	proper clamps (Wherever required as per standard specifications)				
					<u> </u>
	SWITCH & SOCKET - NORTH WEST (PC Plus)/ MK (Wrap around)/Anchor				
	(Wood)/Havells (Crabtree)/ABB(Classic Luminia)/legrand				
	Steel Conduit:- AKG/BEC/JINDAL/STEEL KRAFT				
	Notes:-				
	All wires shall be FRLS only (Polycab/RR/Finolex/KEI)				
	All material shall be approved make as mentioned in the tender.				
	Color codes must be maintained				
	No flexible conduit & elbows will be allowed.				
	Each circuit shall have independent earth wire.				
	Each point must be seperataly earthed.				
	Circuit wiring is to be included in point wiring rates.				
	One S.B. can have max. 10-12 switch including 6 Amp. Socket				
	Boxes fixed in the wooden/ plywood partitions may be PVC				
(a)	One point controlled by one 6 Amp. Modular switch & switch board at SB level	Nos.	20		
(b)	Two points controlled by one 6 Amp. Modular switch & switch board at SB level	Nos.	10		
	Wall fan/ Exhaust fan point controlled by one 6 Amp. Modular switch & switch board at		40		
(c)	SB level and 6 Amp. 3 pin socket at designed place.	Nos.	10		
(d)	6 Amp. Socket with switch & light indicator at switch board places.	Nos.	10		
	Call bell point with anchor make Ding Dong Bell	Nos.	1		
	One ceiling fan point controlled by one 6 Amp. Modular switch & switch board at SB				
(f)	level with 5 step electronic regulator, extension rods up to 1 meter	Nos.	2		
	Emergency Light point (On UPS) (Including separate phase, neutral, earth) and to be in			<u> </u>	
(g)	separate switch boards.	Nos.	5		
	populate contain bouldo.				
2	POWER POINTS :-				
	Same as item no. 1, including providing & fixing 16 Amp. 6 pin sockets with 16 amps				
	switch with wiring by using 2x4 sq. mm PVC insulated copper conductor wire with				
	independent 2.5 sq. mm earth wire from D. B. to first 1st socket and 1st socket to 2nd				
	socket with 2.5 sq. mm and 1.5 sq. mm earth wire including providing and Fixing				
	complete in all respects.				
(2)	Power point (Direct) with 2x 4.0 sq mm copper conductor wires.	Noc	6	1	1
(a)	ower point (Direct) with ZA 4.0 sq min copper conductor wires.	Nos.	6	1	-
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3.	A. C. POINTS :- C&S/Havells/Legrand/HPL/ABB			-	
	A.C. point wiring with 2 X 4.00 sq. mm insulated copper conductor wire (FRLS) & 1 X 2.5				
, ,	sq. mm copper conductor wire for earthing from AC DB to AC point in 16 swg GI conduit	 			
(a)	AC point including supplying and fixing of module A.C. Box with 3 Pin metal clad pin top	Nos.	6.00		
	and 25/32 Amp. SP MCB "C" series. (Wiring must be from DB to stablizer to MCB				
	near indoor unit to Indoor Unit.)			1	1
4.	DISTRIBUTION BOARDS :-				
	P & F sheet metal distribution boards of approved make double door type and making				
	necessary connections etc complete with all MCBs of C series 10 KA. (LEGRAND/				
	SCHNEIDER/ SIEMENS/C&S/HPL)				
	All MCB'S must be 'C' series, 10 KA				
	T P N 4 WAY DB :- (For Lighting)				
	Having Incomer : 40 Amp. 4-P MCB				<u> </u>

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а	OUT GOING : 10 Amp. SP MCB - 12 NOS	Nos.	1.00		
	T P N 4 WAY DB :- (For Power/ AC)				
	Having Incomer : 63 Amp. 4-P MCB				
b	OUT GOING: 16 Amp. SP MCB - 12 NOS	Nos.	1.00		
	T P N 4 WAY DB :- (For A.C.)				
	INCOMER: 100 Amp. 4 P, Heavy Duty MCB				
С	S P N 10 WAY DB :-				
	SP MCB 6 Amp = 8 Nos. DP MCB 63/40 Amp = 1 NOS.	Nos.	1.00		
	or mob orang oracs. Br mob objecting i rece.	1100.	1.00		
<u> </u>	LIQUE & FAN FIVEURES .		-	+	
5.	LIGHT & FAN FIXTURES :-			-	
	P & F light fixture & accessories as per the following details and making connections,				
	assembling, fixing, testing & installation with 3 years warranty. Following Fixtures				
	including all accessories & extension chords as maybe necessary complete. All CFL /				
	Flurescent fixtures (except down lighters) to be hung from the RCC ceiling by sitable				
	chain / rods) all to fixture rates to include 3 years warranty. Including all removing,				
	shifting, repairing, fixing, welding, cutting, instalation, testing, commissioning work of				
	existing or proposed items for the following work. Including making good, proper finish of				
	walls, floor and roof with masonary, R.C.C., plaster, pop, puty, primer, paint, etc.				
	complete in all respects. Including color temp. for light fixtures must be 6500k. Dealer				
	authorisation certificate with invoice detail required. Technical specification minimum				
1	100 lumens per watt, Pf>.90, THD<20%				
(a)	Philips RC 380B LED Full glow 24" X 24" (6500K)/BAJAJ/OSRAM/HAVELLS	Nos.	24.00		
` /	Philips Green LEDi 15 Watt DN 194 B (6500K) /BAJAJ/OSRAM/HAVELLS/HPL			 	
` '		Nos.	12.00	-	
(c)	Philips LED Tube lights 18 W/ 22 W (6500K) /BAJAJ/OSRAM/HAVELLS/HPL	Nos.	10.00		
	metalic Wall fan 400 mm - Crompton High flow of capacitor start, three speed wall				
(al)	mounting/cabin fan of following sweep with the help of anchor bolts including making	Nas			
(d)	connection testing etc. as required. Each wall fan should be connected through	Nos.	8.00		
1	independent switch and socket of 6Amp.(Crompton/ Almonard/ Usha/ Havells)				
	Exhaust fan 300 mm - Crompton/ Almonard of Heavy duty capacitor start 1400 RPM		 		
	single phase ISI marked Exhaust fan, IS:2312 marked including making opening if				
(e)	required, making connections testing etc. as required.(Crompton/ Almonard/ Usha/	Nos.	2.00		
(£)	Havells)	Nee	2.00		
(1)	P&F of ceiling Fan Metal body 4800 mm Sweep (Crompton/ USHA/ Bajaj)	Nos.	2.00	-	
<u>_</u>	CARLES WIRES .		 	 	-
б.	CABLES WIRES :-		-	-	
	P & L heavy duty armored cable on saddles wherever exposed and with aluminium lugs,				
	cable termination with gland, aluminium lugs properly crimped, etc. complete. Including				
	reusing of the existing cables wherever required as per direction of Bank Engineer/		1	1	1
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7.	Architect, vendor is bound to execute the items. All existing and proposed cables to be lay out in existing cable tray. Complete in all respects as per direction of Bank/ Architect. XLPE Cable (Polycab/ Finolex/ RR/KEI) 3.50 core X 35 sq. mm Al. armoured cable with 2 X 8 SWG G.I. wire in PVC conduit for earthing including cables termination with gland, Al. lugs properly crimped of required size. 4.0 core X 10 sq. mm al Armoured cable for UPS to UPS DB including cables termination with gland, Al. lugs properly crimped of required size. (UPS OUTPUT TO UPS DB) & (UPS INPUT TO UPS DB) 4.0 core X 16 sq. mm al Armoured cable for UPS to UPS DB including cables termination with gland, Al. lugs properly crimped of required size. (UPS OUTPUT TO UPS DB) & (UPS INPUT TO UPS DB) 4.0 core X 16 sq. mm al Armoured cable for UPS to UPS DB including cables termination with gland, Al. lugs properly crimped of required size. (UPS OUTPUT TO UPS DB) & (UPS INPUT TO UPS DB) 4.0 core X 16 sq. mm al Armoured cable for UPS to UPS DB including cables termination with gland, Al. lugs properly crimped of required size. (UPS OUTPUT TO UPS DB) & (UPS INPUT TO UPS DB) 4.0 core X 16 sq. mm al Armoured cable for UPS to UPS DB including cables termination with gland, Al. lugs properly crimped of required size. (UPS OUTPUT TO UPS DB) & (UPS INPUT TO UPS DB) 4.0 core X 16 sq. mm al Armoured cable for UPS to UPS DB including cables termination with gland, Al. lugs properly crimped of required size. (UPS OUTPUT TO UPS DB) & (UPS INPUT TO UPS DB) & (UPS INPUT TO UPS DB) including cables termination with gland, Al. lugs properly crimped of required size. (UPS OUTPUT TO UPS DB) & (UPS INPUT TO UPS DB) & (UPS INPUT TO UPS DB) including to core X 16 sq. mm insulated copper wire along with 1 X 1.5 sq. mm properly crimped of required size. (UPS OUTPUT TO UPS DB) including to core X 16 sq. mm insulated copper wire along with 1 X 1.5 sq. mm properly crimped of required size. (UPS OUTPUT TO UPS DB) including to core X 16 sq. mm insulated copper wire a	Rmts.	40.00 50.00		
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7.	Architect, vendor is bound to execute the items. All existing and proposed cables to be lay out in existing cable tray. Complete in all respects as per direction of Bank/ Architect. XLPE Cable (Polycab/ Finolex/ RR/KEI) 3.50 core X 35 sq. mm Al. armoured cable with 2 X 8 SWG G.l. wire in PVC conduit for earthing including cables termination with gland, Al. lugs properly crimped of required size. 4.0 core X 10 sq. mm al Armoured cable for UPS to UPS DB including cables termination with gland, Al. lugs properly crimped of required size. (UPS OUTPUT TO UPS DB) & (UPS INPUT TO UPS DB) 4.0 core X 16 sq. mm al Armoured cable for UPS to UPS DB including cables termination with gland, Al. lugs properly crimped of required size. (UPS OUTPUT TO UPS DB) & (UPS INPUT TO UPS DB) 4.0 core X 16 sq. mm al Armoured cable for UPS to UPS DB including cables termination with gland, Al. lugs properly crimped of required size. (UPS OUTPUT TO UPS DB) 4.0 core X 16 sq. mm al Armoured cable for UPS to UPS DB including cables termination with gland, Al. lugs properly crimped of required size. (UPS OUTPUT TO UPS DB) 4.0 core X 16 sq. mm al Armoured cable for UPS to UPS DB including cables termination with gland, Al. lugs properly crimped of required size. (UPS OUTPUT TO UPS DB) & (UPS INPUT TO UPS DB) 4.0 core X 16 sq. mm al Armoured cable for UPS to UPS DB including cables termination with gland, Al. lugs properly crimped of required size. (UPS OUTPUT TO UPS DB) including cables termination with gland, Al. lugs properly crimped of required size. (UPS OUTPUT TO UPS DB) 4.0 core X 16 sq. mm al Armoured cable for UPS to UPS DB including cables termination with gland, Al. lugs properly crimped of required size. (UPS OUTPUT TO UPS DB) 4.0 core X 16 sq. mm al Armoured cable for UPS DB including cables termination with gland, Al. lugs properly crimped of required size. (UPS OUTPUT TO UPS DB) 4.0 core X 16 sq. mm al Armoured cable for UPS to UPS DB including cables termination with gland, Al. lugs properly crimped of required size. (Rmts.	40.00 50.00		
(a) 8. (a)	Architect, vendor is bound to execute the items. All existing and proposed cables to be lay out in existing cable tray. Complete in all respects as per direction of Bank/ Architect. XLPE Cable (Polycab/ Finolex/ RR/KEI) 3.50 core X 35 sq. mm Al. armoured cable with 2 X 8 SWG G.I. wire in PVC conduit for earthing including cables termination with gland, Al. lugs properly crimped of required size. 4.0 core X 10 sq. mm al Armoured cable for UPS to UPS DB including cables termination with gland, Al. lugs properly crimped of required size. (UPS OUTPUT TO UPS DB) & (UPS INPUT TO UPS DB) 4.0 core X 16 sq. mm al Armoured cable for UPS to UPS DB including cables termination with gland, Al. lugs properly crimped of required size. (UPS OUTPUT TO UPS DB) & (UPS INPUT TO UPS DB) 4.0 core X 16 sq. mm al Armoured cable for UPS to UPS DB including cables termination with gland, Al. lugs properly crimped of required size. (UPS OUTPUT TO UPS DB) & (UPS INPUT TO UPS DB) 4.0 core X 16 sq. mm al Armoured cable for UPS to UPS DB including cables termination with gland, Al. lugs properly crimped of required size. (UPS OUTPUT TO UPS DB) & (UPS INPUT TO UPS DB) 4.0 core X 16 sq. mm al Armoured cable for UPS to UPS DB including cables termination with gland, Al. lugs properly crimped of required size. (UPS OUTPUT TO UPS DB) & (UPS INPUT TO UPS DB) 4.0 core X 16 sq. mm al Armoured cable for UPS to UPS DB including cables termination with gland, Al. lugs properly crimped of required size. (UPS OUTPUT TO UPS DB) & (UPS OUTPUT TO UPS DB) & (UPS OUTPUT TO UPS DB) & (UPS OUTPUT TO UPS DB) 5.2 P & F ups points in 2 mm thick PVC conduit with 2 X 2.5 sq. mm insulated copper wire along with 1 X 1.5 sq. mm PVC insulated wire for earthing including bends, nipples, junction, M.S. switch boxes each to have 3 nos. 6 A 5 pin modular socket 1 X 6 A indicator controlled by 1 X 16 A modular type switch completing finish incl. making necessary connection & start of equipment as per details. Complete in all respects as per direction of Engineer/ Ar	Rmts. Rmts. Nos.	20.00		
(a) 8. (a)	Architect, vendor is bound to execute the items. All existing and proposed cables to be lay out in existing cable tray. Complete in all respects as per direction of Bank/ Architect. XLPE Cable (Polycab/ Finolex/ RR/KEI) 3.50 core X 35 sq. mm Al. armoured cable with 2 X 8 SWG G.I. wire in PVC conduit for earthing including cables termination with gland, Al. lugs properly crimped of required size. 4.0 core X 10 sq. mm al Armoured cable for UPS to UPS DB including cables termination with gland, Al. lugs properly crimped of required size. (UPS OUTPUT TO UPS DB) & (UPS INPUT TO UPS DB) 4.0 core X 16 sq. mm al Armoured cable for UPS to UPS DB including cables termination with gland, Al. lugs properly crimped of required size. (UPS OUTPUT TO UPS DB) & (UPS INPUT TO UPS DB) 4.0 core X 16 sq. mm al Armoured cable for UPS to UPS DB including cables termination with gland, Al. lugs properly crimped of required size. (UPS OUTPUT TO UPS DB) & (UPS INPUT TO UPS DB) 4.0 core X 16 sq. mm al Armoured cable for uPS to UPS DB including cables termination with gland, Al. lugs properly crimped of required size. (UPS OUTPUT TO UPS DB) 4.0 core X 16 sq. mm al Armoured cable for uPS to UPS DB including cables termination with gland, Al. lugs properly crimped of required size. (UPS OUTPUT TO UPS DB) 4.0 core X 16 sq. mm al Armoured cable for uPS to UPS DB including cables termination with gland, Al. lugs properly crimped of required size. (UPS OUTPUT TO UPS DB) & (UPS INPUT TO UPS DB) 4.0 core X 16 sq. mm al Armoured cable for uPS to UPS DB including cables termination with gland, Al. lugs properly crimped of required size. (UPS OUTPUT TO UPS DB) & (UPS DB) & (UPS INPUT TO UPS DB) 5.0 core X 10 sq. mm al Armoured cable for uPS to UPS DB including cables termination with gland, Al. lugs properly crimped of required size. (UPS OUTPUT TO UPS DB) 5.0 core X 10 sq. mm al Armoured cable for uPS to UPS DB including cables termination with gland, Al. lugs properly crimped of required size. (UPS OUTPUT TO UPS DB) 5.0 core X 16 sq. m	Rmts.	40.00 50.00		
(a) (b)	Architect, vendor is bound to execute the items. All existing and proposed cables to be lay out in existing cable tray. Complete in all respects as per direction of Bank/ Architect. XLPE Cable (Polycab/ Finolex/ RR/KEI) 3.50 core X 35 sq. mm Al. armoured cable with 2 X 8 SWG G.I. wire in PVC conduit for earthing including cables termination with gland, Al. lugs properly crimped of required size. 4.0 core X 10 sq. mm al Armoured cable for UPS to UPS DB including cables termination with gland, Al. lugs properly crimped of required size. (UPS OUTPUT TO UPS DB) & (UPS INPUT TO UPS DB) 4.0 core X 16 sq. mm al Armoured cable for UPS to UPS DB including cables termination with gland, Al. lugs properly crimped of required size. (UPS OUTPUT TO UPS DB) & (UPS INPUT TO UPS DB) 4.0 core X 16 sq. mm al Armoured cable for UPS to UPS DB including cables termination with gland, Al. lugs properly crimped of required size. (UPS OUTPUT TO UPS DB) & (UPS INPUT TO UPS DB) 4.0 core X 16 sq. mm al Armoured cable for UPS to UPS DB including cables termination with gland, Al. lugs properly crimped of required size. (UPS OUTPUT TO UPS DB) & (UPS INPUT TO UPS DB) 4.0 core X 16 sq. mm al Armoured cable for UPS to UPS DB including cables termination with gland, Al. lugs properly crimped of required size. (UPS OUTPUT TO UPS DB) & (UPS INPUT TO UPS DB) 4.0 core X 16 sq. mm al Armoured cable for UPS to UPS DB including cables termination with gland, Al. lugs properly crimped of required size. (UPS OUTPUT TO UPS DB) & (UPS INPUT TO UPS DB) & (UPS INPUT TO UPS DB) 5.2 page of UPS INPUT TO UPS DB 5.2 page of UPS INPUT TO UPS DB including season properly crimped of required size. (UPS OUTPUT TO UPS DB) & (UPS INPUT TO UPS DB) & (UPS INPUT TO UPS DB) & (UPS INPUT TO UPS DB) including cables termination with gland, Al. lugs properly crimped of required size. (UPS OUTPUT TO UPS DB) including cables termination with gland, Al. lugs properly crimped of required size. (UPS OUTPUT TO UPS DB) including cables termination with gland, Al. lugs pr	Rmts. Rmts. Nos.	20.00		

	Designing manufacturing, installing, testing and commissioning of cubical type MAIN				
	PANEL CPRI approved made from 16 SWG CRCA sheet steel, "type base M.S. channel				
	for grouting on floor complete with MCCB, MCBs, meters, C.T., etc. complete in all				
	respect, insulated bus bar with near shrinkable PVC sleeve in suitable bus bar chamber,				
	wiring, name plates, danger plates, earth bus etc. & comprising of compartments with	Nos.	1.00		
	hinged doors and rubber gasket, bus bar chabmer with bolted door and rubber gasket				
	etc. the panel being of dust & vermin proof construction and to be painted with primer				
	and smoke gray paint (minimum two coats) to look attractive. The panel should be				
	comprising with the following: (Degree of Protection IP-54)				
	INCOMER: -				
	ALL MCCB SHOULD HAVE 25 KA SHORT CIRCUIT CURRENT CAPACITY (C-				
	CLASS) (Legrand/ HPL/ C&S/siemens/ABB/ Schneider)				
(i)	150 Amp 4 - P, MCCB (3 Phase) 1 Nos.				
	100 Amp 4 - P, ON LOAD change over switch				
(111)	250 Amp. Capacity aluminum bus bar for ATM & system room heat shrinkable proper				
	insulation with heat shrinkable proper insulation with color coded. Analog ammeter and				
	voltmeter with selector switches three number indicating lamp R-Y-B Phase indicators				
	with 2 amp. back up HRC fuses & Energy Meter with KWH and PF indication (Back up				
1	Fuse protection)			1	
	OUT GOING : -			1	
	ALL MCCB SHOULD HAVE 25 KA SHORT CIRCUIT CURRENT CAPACITY				
	DOUBLE BUS BAR PANEL				
	DG SUPPLY ONLY FOR LIGHT, POWER, UPS, ATM ONLY				
	A.C. SHOULD NOT OPERATE ON DG SUPPLY				
	All MCCB must have 25 KA S.C. current capacity				
	All outgoing feeder should have separate door and compartment.				
	Each outgoing feeder shall be with indicator.				
(i)	100 Amp 4 - P, MCCB (3 Phase) 1 Nos. (A.C.)				
	63 Amp 4 - P, MCCB (3 Phase) 3 Nos.				
(11)					
····	(Power, light. A.T.M., UPS)				
	16 Amp DP, MCB (1 on each Phase) 1 Nos.				
(ii)	63 Amp 4 - P, MCB (3 Phase) 2 Nos.				
	(Power, light. A.T.M., UPS)				
	S, L, T, I, C Telephone point with cat 6 cable telephone cable from main supply to				
	various counters, tables, walls, partitions, etc.with colour coading identification on both				
	ends. Including 0.6 mm dia annealed with tinned screen protected CU conductor PCC				
	ends. Including 0.0 min dia annealed with timed screen protected CO conductor FCC				
10	sheathed 2 pair telephone cable in PVC conduit 2.00 mm thk. conduit as required.	Nos.	6.00		
	Including S & F modular type plate with telephone outlet box and RJ-11 sockets with				
	housed in zinc passivated box/ PVC box with suitable connector strip in reseced wall/				
	partition as required. S & F modular type telephone outlet 1 pair coaded outlet.				
1				1	
11	Computer networking points with 4 pair, 24 AWG UTP Cat 6 Cable as per latest				
1	ammendments of TIA /EIA 568 B.2-1 Specifications in PVC Conduits including making			1	
1	connections to Information outlets and Patch Panels with ferruling at both ends for			1	
1	ÿ			1	
()	identifica			-	
(a)	Computer networking points with 4 pair, 24 AWG UTP Cat 6 Cable as per latest			1	
1	ammendments of TIA /EIA 568 B.2-1 Specifications in PVC Conduits including making			1	
	connections to Information outlets and Patch Panels with ferruling at both ends for			1	
1	identification with necessary tools for punching, stripping, crimpping and testing		00.00	1	
1	required. Cost including Faceplate for Flush Mount Information Outlets Single Aperture	Nos.	20.00	1	
1	with screw hole covers & Icon Tree Size 86mmX86mm including pvc/ ms box. (Cat 6			1	
1				1	
1	cable: Molex/ Avaya/Penduit/AMP) (Face plate i/o : Molex/ Avaya/Penduit/AMP)			1	
<u> </u>				ļ	
	1 m patch coad	Nos.	10.00		
С	2 m patch code	Nos.	10.00		
d	P,F,T,I,C, Etc. of Data/ server rack of 9U Rack with all required accessories complete in	NI.	4.00		
	all respect.	Nos.	1.00	1	
е	24 port patch panel for rack with all accessories	Nos.	1.00		
۳	2-4 port patient parter for rack with all accessories	1100.	1.00	Total (D)	
			l	Total (B)	