BILL OF QUANTITIES FOR ELECTRICAL, LIGHTING & DATA NETWORKING WORKS AT STATE BANK OF INDIA, MORSHINGI Branch at MORSHINGI, Distt. BILASPUR (H.P)

S.No.	Item / Specifications	Qnty.	Units	Rate	Amount
		Ψ,			
PART-I :	COMPUTER POINTS & DISTRIBUTION				
1.1	Supply all material, storing, handling, fixing and laying of 3X2.5 Sq. mm.	16	each		
	of PVC insulated PVC sheathed armoured cable of 1100 V (IS 1554, Part				
	1) and fixing of cable on wall with suitable size of clamps /saddles or				
	laid in floor/recess wall including cutting of wall /floor and making				
	good the damages etc for computer points in suitable size of box				
	fabricated with 16 G MS sheet including providing 3 nos 5 amps 3 pin				
	sockets controlled by 1 no 5 A modular type switch, indicator and				
	fuse mounted on 3 mm thick ISI marked hylam sheet and painting of				
	box etc complete as required Note; max. two computer points are to				
	be provided on one circuit.				
1.2	As per item 1 above but with 1 Nos. 15 A 5 pin socket controlled by 1	2	each		
	no 15 A switch and indicator.(ON RAW POWER)				
1.3	As per item 1 above but with 2 Nos. 15 A 5 pin socket controlled by 1	6	each		
	no 15 A switch and indicator.(ON UPS POWER)				
1.4	Wiring for circuit/ submain wiring alongwith earth wire with the				
	following sizes of FRLS PVC insulated copper conductor, single core				
	cable in surface/ recessed medium class PVC conduit as required.				
a)	2 X 6 sq. mm + 1 X 2.5 sq. mm earth wire	30	Mtr		
4.5					
1.5	Wiring for light point/ Ceiling fan point/ exhaust fan point with 1.5				
	sq.mm FRLS PVC insulated copper conductor single core cable in				
	surface / recessed medium class PVC conduit, with modular switch,				
	modular plate, suitable GI box and earthing the point with 1.5 sq.mm				
	FRLS PVC insulated copper conductor single core cable etc. including				
	circuit wiring with 2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire as				
	required.(Ht. upto 4.5mrts from floor)	15			
A B	1 no. light controlled by 1 no. switch 2 no. light controlled by 1 no. switch	15 20	no no		
С	5/6 pin 6 amp plug point with 6 amp switch	8	no.		
D	Primary Wall fan point controlled by 5 AMP socket controlled by 5amp	8	no.		
	switch	O	110.		
1.6	Supply installation testing and commissioning of 3 pin 20/25 A 3 pin	6	each		
	metal clad industrial type plug and socket arrangement with plug top,				
	cap and chain controlled by 1 no 32 A SP MCB.(1.5 TR Acs) Note;				
	Independent circuit for AC point is to be provided starting from				
	distribution system.				
1.7	Supply, installation testing and commissioning of factory fabricated				
	distribution board rust inhibited				
	powder coated sheet fabricated comprising of incoming and outgoing				
	isolator & MCBs neutral link or neutral bus, top and bottom				
	detachable entry earthing bolts interconnection and grouting bolts etc				
	complete as required as per details below				
a)	8-way SPN MCBDB Double Door in recessed wall including cutting of	1	no.	Ι Τ	
	wall and making good the damages comprising 1 no 63 A DP Isolator				
	and 6 Nos. 6/10 A MCBS etc complete as required.				
b)	6-way SPN MCBDB Double Door in recessed wall including cutting of	1	no.		
	wall and making good the damages comprising 1 no 40 A DP Isolator				
	and 4 Nos. 6/10 A MCBS etc complete as required.				
c)	4 way SPDB comprising 1 no 63 A Four Pole TPNMCB (for UPS).	1	no.		
d)	4 way SPDB comprising of 2 nos 63A DP MCB (for UPS).	2	no.		

e)	4 Way TP MCBDB Double Door in recessed wall including cutting of wall and making good the damages comprising 1 no 100 A 4P Isolator and 6 Nos. 32 A DPMCBS etc complete as required. (AC DB)	1	no.		
f)	4 Way TP MCBDB Double Door in recessed wall including cutting of	1	no.		
	wall and making good the damages comprising 1 no 100 A 4P Isolator				
	and 12 Nos. 6-32 A SPMCBS etc complete as required.(LIGHT /POWER				
	Dbs)				
1.8	Supply installation testing and commissioning of following 3 pin metal				
	clad industrial type plug and socket arrangement with plug top, cap				
	and chain controlled by 1 No MCB				
(-)	· · · · · · · · · · · · · · · · · · ·				
(a)	20 Amps. with 20 Amp. SP MCB.	4	no.		
(b)	30 Amps. with 32 Amp. SP MCB.	3	no.		
1.90	Providing and fixing of suitable size MS box fabricated with 16 G MS	1	job		
	sheet either in recess wall or on surface to accommodate dedicated				
	earth from earth electrode and further distribution of earth to				
	computer points including providing of 5 mm bakelite on base				
	connector strip and painting of box etc as required.				
	Some strip and panting of box etc as required.				
	TOTAL OF PART -I				
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PART-II	: PANELS & CABLES				
2.1	Providing and fixing of 03 no 100 Amps KITKAT with 1 no neutral link	1.00	job		
	on suitable size of Bakelite sheet of thickness not less than 12 mm				
	complete as required				
2.2	Supply & Installation of TPN vertical distribution board with provision	1	Set		
	for 4 pole MCCB as incomer with copper bus bar, earth and neutral bus.				
	With 125Amp 4 Pole 25 K MCCB Incomer and for Outgoing 4 no 63 A				
	TP MCB.				
	TI WEB.				
2.2	Cumply Installation testing 8 commissioning of DVC insulated DVC				
2.3	Supply, Installation, testing & commissioning of PVC insulated PVC				
	sheathed armoured cable of 1100 V (IS 1554 Part 1) and fixing of				
	cable on wall with suitable size of clamps /saddles or laid in				
	floor/recess wall including cutting of wall /floor and making good the				
	damages etc complete as required of following sizes (ISI marked)				
a)	4 x 16 sq. mm aluminium conductors with two Nos. 8 SWG GI wire.	50	mtr.		
 	4X10 sq. mm aluminum conductors with one no 8 SWG GI wire.	50			
b)	·		mtr.		
c)	3X6 sq. mm copper conductor armoured .	40	mtr.		
d)	3X2.5 sq. mm copper conductor armoured for ACS	30	mtr.		
2.4	End termination with brass compression glands including providing of				
	lugs/ferrules and making necessary connection etc complete as				
	required of the following sizes:				
a)	4 x 16 sq. mm aluminum conductors	7	no.		
b)	4X10Sq.mm aluminum conductor	10	no.		
c)	3X6 sq. mm copper conductor	4	no.		
d)	3X2.5 sq. mm copper conductor	12	no.		
2.5	Providing and fixing the following switch on suitable size of MS base				
2.5					
	and angle iron frame of suitable size and strength for installation on				
	wall /floor including grouting of frame & painting etc. complete as				
	required .				
a)	1 no.4 pole 160 Amps capacity change over switch with adaptor box	1	no.		
2.6	Providing and fixing 16 G MS sheet adopter box and also base frame				
	for installation of MCB DBs plug and socket arrangements and to cover				
	cables in system room including painting etc complete as required.				
1				<u> </u>	

	for UPS input/output distribution	1	no.		
	TOTAL OF PART -II				
	: EARTHING	_			
3.1 (a)	Supply and fix copper plate earth station with 600X600X3mm copper	1	set		
	plate including all accessories such as watering pipe and funnel and				
	providing masonry enclosure at top with cover plate i.e excavation of				
	pit, supplying and filling of salt charcoal, refilling of pit etc complete as				
	required as per IS 3043-1987. The voltage between neutral and earth				
	must be below 1 V.	_			
(b)	Supply and fix GI plate earth station with 600X600X6mm GI plate	2	set		
	including all accessories such as watering pipe and funnel and providing				
	masonry enclosure at top with cover plate i.e excavation of pit,				
	supplying and filling of salt charcoal, refilling of pit etc complete as				
22()	required as per IS 3043-1987.	_			
3.2 (a)	Supply fixing and termination of 20X3 mm copper strip with earth	3	mtr.		
	station below ground level etc as required.				
(b)	Supply fixing and termination of 32x6 mm G.I. strip with earth station	6	mtr.		
2.2.(-)	below ground level etc as required.	25			
3.3 (a)	Providing and fixing of 8 SWG copper earth wire in the recess for loop	25	mtr.		
/h\	earthing etc. as required.	20	po tr		
(b)	Providing and fixing of 8 SWG GI earth wire in the recess for loop	20	mtr.		
2.4.2\	earthing etc. as required. Supply and laying following dia 3.38 mm(Confirming to ASTM D1785				
3.4 d)	Standard) in thickness heavy duty PVC pipe under floor or in recessed				
	walls for AC drains. including bends Tees Etc. making good the				
	damages etc. wherever required				
	25mm	45	mtr.		
b)	Supply and laying following dia 2 mm in thickness PVC pipe under	43	mu.		
5,	floor or in recessed walls from earth electrode to UPS room for				
	computer dedicated earthing including bends Tees Etc. making good				
	the damages etc. wherever required				
	25 mm diameter	40	mtr.		
	TOTAL OF PART -III				
PART-IV	: AC PROVISIONING (COPPER PIPE, WIRING ETC)				
4.1	Supply, Installation, testing & commissioning of refrigeration pipe				
	including cutting of wall & fixing with suitable saddles or clamps,				
	providing suitable sizes of sleeves for passing refrigerant pipe from				
	indoor to outdoor unit including making neccessary arrangement etc.				
	complete as required.				
a)	Hi Wall Split AC (1.0 & 1.5TR), copper pipe size (1/2" & 1/4")	50	mtr.		
4.2	Supply & laying of 3 core 2.5sq.mm. FRLS copper flexible cable for HWS	110	mtr		
	AC, Make - FINOLEX / POLYCAB / HAVELLS / PYEMEN / ECKO				
	TOTAL OF PART - IV				
	: TELEPHONE , CCTV & SMOKE DETECTOR WIRING	-			
5.1	Wiring for telephone points with 0.6 mm dia 2 pair insulated annealed	5	no.		
	tinned electrolatic copper conductor in 2 mm thick 25 mm dia ISI				
	marked PVC conduit complete with accessories such as bends, junction				
	boxes etc. with suitable size of G.I. box modular plate and cover in				
	front on surface or in recess including providing and fixing modular				
	type telephone socket outlet and making necessary connections etc.				
E 2	complete as reqd.	1	20		
5.2	Supply installation and testing of Tag Block 20 pair for telephone connections	1	no.		
5.3	Supply and fixing 20 Pair Telephone Cable	30	mtr		
J.J	TOTAL OF PART - V	30	11101		
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PART-VI	I : NETWORKING			
6.1	Wiring for computer net working starting from mounting rack with UTP	14	No	
0.1	Cat 6 cable in 2 mm thick 25 mm dia ISI marked PVC conduit pipe with	14	140	
	accessories such as bends, junction boxes including providing and fixing			
	I/O plates and SMB complete with all networking accessories etc			
	· · · · · · · · · · · · · · · · · · ·			
<u> </u>	complete as required	1.00		
6.2	Removal & Re-installation of existing Switch as per approved layout	1.00	no.	
6.3	supply, installation, testing and commissioning of 16-port Patch Panel	1.00	no.	
6.4	Supply and installation, testing and commissioning of mounted rack 12" hight made of powder coated MS sheet	1.00	no.	
6.5	Supply Fixing and commissioning of Patch cable cat 6 of complete with 2 nos of connectors etc complete as required.(factory			
	manufactured)			
	(a) 1 meter long	14	No	
	(b) 2 meter long	10	No	
6.6	Supply and laying of CAT 6 cable in PVC conduit of suitable size with connectors as required., complete in all respects.	30.00	mtr	
	TOTAL OF PART - VI			
PART-VI	II : SITC OF FANS & FIXTURES			
	SITC of 2'-0" x2'-0" Celing grid 33-36 watt LED panel fixtures with	7	no.	1
''-	essential driver in false ceiling including making necessary	•	""	
	arrangement for mounting the fixtures and connection with 2 x 1.5			
	sq.mm insulated copper cable from adjacent point in PVC flexible pipe			
	etc Complete as regd. Make Philips cat. RC 380 B- LED-30-6500PSE OD			
	WH or equivalent of Wipro / Bajaj / Crompton. Note: No			
	, , , , , , , , , , , , , , , , , , ,			
	additional payment will be made for providing frame for light fixing			
7.2	in Gypsum ceiling.	20		
7.2	SITC of 15 watt recess mounted LED down light with assembly	30	no.	
	complete with including making necessary connections etc. Complete			
	as reqd. (M/s Crompton Cat No. Or equivalent of Philips/Wipro/ Bajaj)			
7.3	Supply of 450 mmm sweep metal body wall fan complete as reqd.	6	no.	
	Model turbo 180, USHA Make or equivalent of Crompton/Havells/Bajaj			
	(M/s Crompton Hi-Flo or equivalent of Khaitan / Bajaj			
7.4	SITC of Exhaust Fan 12inch dia, m etal body of CROMPTON / BAJAJ	2		
7.4	/KHAITAN	2	no.	
7.5	Supply Installation, testing & commissioning of LED STRIP light with	15	mtr	
	driver and Accessories complete as required (MS CROMPTON or			
	equivalent of WIPRO , PHILLIPS, BAJAJ etc.			
7.6	SITC of 18 /20 watt of T5 LED fixtures directly on ceiling / wall including	3	no.	
	making necessary connections with 2x1.5 sq.mm insulated copper			
	cable conductor wire etc. complete as reqd Make Phillips cat no. DN -			
	192 - 1000 or equivalent of Wipro / Bajaj.			
7.7	SITC of 30 watt Street light /Flood light for lighting the front side of the	2	no.	
	branch(M/s Crompton Cat No. LSTS-30-CDL or equivalent of			
	Philips/Wipro .			
	TOTAL OF PART -VII			
PART-VI	III : CREDIT OF OLD MATERIAL			
8.1	Existing old wiring including old tube lights, Switches, computer point	1	Lumpsum	1
"	Sockets, MCB DBs Cables and wires (work also includes removal from	_		
	the premises).			
	No LED Light Fittings & fans are part of Credit Item (all lights to be re-			
	used in Branch)			
	The work includes removing of complete old wiring as directed,			<u> </u>
	ensuring there is no hindrance to branch working and removing the old			
	stuff to contractors own dump.			
	stan to contractors own dump.			I

	No electrical/data/telephone point shall be removed prior to Branch Head approval. NO CCTV/Smoke Detectoes/fire alarms to be removed		
NOTE:	Dismentaaling of existing connections, temporary re-arragements of UPS points / Data Points / Light Points / Tel Points for smooth working of branch during renovation works will have to be done by the executing agency.		
	TOTAL OF PART -VIII		
	SUMMARY		
	TOTAL OF PART I-VI(A)		
	TOTAL OF PART - VII (B)		
	TOTAL OF PART - VIII (C)		
	TOTAL (A+B-C)		