

BOQ FOR ELECTRICAL AND LAN CABLING WORKS FOR CANARA BANK AT RAJAHMUNDRY-2
BRANCH AND ATM

SL NO.	DESCRIPTION OF ITEM / WORK	UNIT	QTY	RATE	AMOUNT
PART - A : ELECTRICAL WORKS					
1 CABLE LAYING AND TERMINATIONS :					
a	Cable :				
	Supply & Laying of following 1100V grade armored cable having sector / circular shaped aluminum conductor XLPE insulated cores, laid up, PVC tape wrapped inner sheathed, GI strip / wire armored and overall extruded PVC sheathed conforming to IS: 7098, laid along with 2 Runs of 8SWG GI Wire on wall or ceiling using GI clamps and spacers as per route shown at site and further as directed by Bank / Architect.				
vi	3.5x 50 sq.mm AYFY Cable	Mtr.	65		
viii	4 x 25 sq.mm AYFY Cable	Mtr.	90		
ix	4x16 sq.mm AYFY Cable	Mtr.	65		
b	Cable end Terminations :				
	End termination of the following size of cables using flange type cable glands and heavy duty tinned aluminium crimping type cable sockets including gland earthing.				
vi	3.5x 50 sq.mm AYFY Cable	Nos.	1		
ix	4x16 sq.mm AYFY Cable	Nos.	1		
2 COS :					
a	Main COS (Manual) :				
i	Supply and installation of 125A, 4P ON LOAD Change Over Switch with suitable metallic enclosure made out of 16 SWG CRCA sheet with cable entry box and powder coat painted and with 6 nos. LED indicators & 6 nos. of 2A MCBs for the indication of EB or DG supply.	Set	1		
b	Panel Board				
	Supply, installation, Testing and commissioning of main LT panel, floor mounted front operated totally enclosed vermin proof , indoor non-drawout-cubicle type power panel fabricated out of 2mm thk CRCA sheet having gasketed hinged cover on each cubicle fully powder coated after 7 Tank treatment, incorporating horizontal and vertical sleeved copper Dual busbars (one for Common EB / DG	Set	1		
	Incomer : EB :160A, 25kA, TP MCCB 1 Nos. DG :125A, 25kA, TP MCCB 1 Nos.				
	COS : 125A, 4P, 25kA (for EB/DG) 1 No.				
	Out goings : 125A, 4P MCCB, 25kA 0 Nos.				
	(for EL) 63A, 4P MCB 1 Nos.				
	(for Duct Acs) 40A, 4P MCB + 30 mA ELCB 2 Nos.				
	40A, 4P MCB 3 Nos.				
	(for Conf Acs) 32AA, 4P MCB + 30 mA ELCB 0 Nos.				
	32A, 4P MCB 3 Nos.				
	40A, DP MCB 3 Nos.				
	32A, DP MCB 2 Nos.				
	40A, DP MCB 0 Nos.				
5 ETPN Distribution Boxes :-					
a	Lighting: (Phase wise ELCB)				
i	Supply, Installation, testing and commissioning of Double door dust and vermin proof 8 way ETPN MCB DB consisting of the following (with	Set	1		
	Incomer : 32 / 40 63 A 4P MCB 1 Nos.				
	Out goings : 6 x 6/10/20 A (B Series) MCB + 1x30 mA DP ELCB in each phase. 3 Sets				
	* Rating of MCBs to be adjusted according to site requirement.				
b	Raw Power: (Common ELCB)				

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	ii Supply, Installation, testing and commissioning of Double door dust and vermin proof 4 way ETPN MCB DB consisting of the following (with complete interconnections) Incomer : 63A, 4P 30mA ELCB + MCB 1 Nos. Out goings : 32A SP MCB 6 Nos. 20A SP MCB 12 Nos. * Rating of MCBs to be adjusted according to site requirement.	Set	1		
	c ATM : (without ELCB)				
	i Supply, Installation, testing and commissioning of Double door dust and vermin proof 4 way ETPN MCB DB consisting of the following (with complete interconnections) Incomer : 32 / 40 / 63A, 4P MCB 1 Nos. Out goings : 32A SP MCB 6 Nos. 20A SP MCB 6 Nos. * Rating of MCBs to be adjusted according to site requirement.	Set	1		
	d UPS Output Distribution :-				
	i Supply, Installation, testing and commissioning of Double door dust and vermin proof 12 way SPN MCB DB consisting of the following (with complete interconnections) Incomer : 40A 2P MCB 1 Nos. Out goings : 10A SP MCB 10 Nos.	set	1		
	ii Supply, Installation, testing and commissioning of Double door dust and vermin proof 8 way SPN MCB DB consisting of the following (with complete interconnections) Incomer : 40A 2P MCB 1 Nos. Out goings : 10A SP MCB 6 Nos.	set	1		
	6 Other MCB / Isolator DBs :				
	h 2P MCB :				
	i Supply & fixing of 32/40/63 A DP MCB in suitable metallic box (UPS IN OUT)	Nos.	6		
	7 Plug & Sockets :				
	Supply and fixing of following Modular type switches/ plugs / sockets mounted on				
	b UPS Socket Board (Type-1) : 3 Pin Socket 3 x 5A & 1 x 5/15 A with separately controlled 15 A indicator switch in suitable metallic / PVC enclosure.(for BM Cabin for CC Camera System + SWO Counters + Server Room)	Nos.	12		
	c UPS Socket Board (Type-2) : 3 Pin, 1 x 5A & 1 x 5/15 A with separately controlled 15 A indicator switch in suitable metallic / PVC enclosure. (for officers' Tables, Other than SWO counters)	Nos.	2		
	d RP Socket Board : 3 Pin, 3 x 5A Sockets controlled by 3 no. x 5 A switches in suitable metallic / PVC enclosure.	Nos.	12		
	e 3 Pin, 1 no. x 5/15A Socket + separately controlled 32A DP indicator Switch in suitable metallic/PVC enclosure (for 1-Ph Cabin Acs.)	Nos.	1		
	j 3 Pin, 1 x 5A Socket + 1 x 5 A switch (On Board) to add to switch boards.	Nos.	11		
	k 3 Pin Plug Top - 1x5A + sufficient length of (5 mtr max) 3x2.5 sq.mm PVC wire (3 mtr in PVC conduit)	Nos.	2		
	8 Lights, Fixtures & Fans etc. :				
	a Supply and Installation of recessed type LED Square (2x2) Light fitting with suitable frame if any (>=2900 Lu, <=39W, >=6500K, Ex.:Model-RC140B).	Nos.	25		

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	b Supply and Installation of recessed type LED Round Light fitting with suitable frame if any (≥ 1300 Lu, 10 to 15W, ≥ 6500 K, Ex : Model-DN153)	Nos.	15		
	d Supply and installation of 4Ft LED Tube Light fitting (≥ 1600 Lu, 15 to 18W, ≥ 6500 K, ex. : Model:BN012C)	Nos.	20		
	e Supply and installation of 2Ft LED Tube Light fitting (≥ 600 Lu, 6 to 8W, ≥ 6500 K, ex. : Model :)	Nos.	3		
	f Supply and installation of BULK HEAD LIGHT fitting (≥ 600 Lu, ≤ 10 W,	Nos.	6		
	g Supply and installation of POLE LIGHT with 40W Outdoor type LED Fitting &	Nos.	0		
	i Supply and installation of 9" size medium duty exhaust fan . (Toilets) Crompton Greaves (Necessary wall cutting & finishing to be done by Contractor)	Nos.	2		
	j Supply and installation of 12" size Heavy duty exhaust fan . (UPS Room) Crompton Greaves (Necessary wall cutting & finishing to be done by Contractor)	Nos.	1		
	k i Supply and installation of 1200 mm sweep ceiling fan . (Crompton Greaves High Speed)	Nos.	4		
	k ii Supply and Installation of step type modular electronic regulator (Only in dining Room) .	Nos.	4		
	k iii Supply and providing fan hook on ceiling.	Nos.	4		
	l Wall Fan : Supply and Installation of 400 mm sweep wall fan with combination. (Crompton Greaves / Usha / Havells)	Nos.	14		
	n Supply & installation of wireless calling bell (Battery operated)	Nos.	1		
	o Phase Indicator Box containing 3 nos. indicators with 5A control switches & connected to RYB phases of KSEB to be fixed in banking hall area which is visible for all the staff.	Nos.	1		
9 Point Wiring for Light, Fan, Plug & Sockets etc. :					
	a Light Point :				
	i Supply all materials and wiring through wall floor etc, concealed as per colour code with 3x1.5 sq mm P V C insulated multi stranded copper wire in 2mm thk PVC pipe.	Nos.	55		
	ii Loop to the above with 3X1.0 sq.mm PVC wire	Nos.	18		
	b Wall Fan Point :				
	i Supply all materials and wiring through wall floor etc, concealed as per colour code with 3x1.0 sq mm P V C insulated multi stranded copper wire in 2mm thk PVC pipe, with suitable 2 / 3 pin, 5 A Socket & switch.	Nos.	11		
	c UPS / Raw power (including Switch Board) Point :				
	i Supply all materials and wiring through wall floor etc, concealed as per colour code with 3x2.5 sq mm P V C insulated multi stranded copper wire in 2mm thk PVC pipe..	Nos.	16		
	ii Loop to the above with 3X2.5 sq.mm PVC wire	Nos.	7		
	d AC Point (1-Ph) :				
	i Supply all materials and wiring through wall floor etc, concealed as per colour code with 3x4 sq mm P V C insulated stranded copper wire in 2mm thk PVC pipe. Note : If it Require Supply to Out Door Michine	Nos.	9		

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10	Circuit / Sub circuit Wiring :				
a	Supply and wiring wall / floor etc. / recessed / surface as per colour code with the following size PVC Insulated copper wire along with given earth wire for phase neutral and earth conductor with standard colour coding, through ISI marked rigid PVC conduit.				
iii	4 x 2.5 sq.mm PVC Copper wire in 2 mm thk, 20 mm dia conduit (for Board Light + Security Light)	Mtr.	118		
v	3 x 4 sq.mm PVC Copper wire in 2 mm thk, 20 mm dia conduit (for UPS Incoming & Outgoing wirng)	Mtr.	55		
vi	5 x 4 sq.mm PVC Copper wire in 2 mm thk, 20 mm dia conduit	Mtr.	142		
vii	3 x 6 sq.mm PVC Copper wire in 2 mm thk, 20 mm dia conduit. UPS DB	Mtr.	115		
viii	4 core - 4 sq.mm PVC Copper Cable in 2mm thk, 20mm dia PVC conduit.	Mtr.	47		
a	Providing Plate earth Pits as per IS 3043 with 600x600x3.0 mm GI/CI earth plate, 20 mm GI pipe, filled with sufficient charcoal & others along with construction of inspection chamber & other necessary works.	Nos.	1		
b	Same as above but COPPER PLATE EARTHING AS PER STANDARD SPECIFICATIONS.	Nos.	3		
c	Supply and laying of the following size of bare copper conductor along with cables, for interconnections between panels, DBs, COS, DG Set & Earth Pits etc.				
i	1 X 8 SWG GI Wire for Earthing.	Mtr.	85		
ii	1 X 10 SWG bare copper conductor	Mtr.	85		
d	20mm PVC conduit	Mtr.	100		
e	Supply & Installation of 25x3 mm tinned Copper Earth Bench of 30 cm long for termination of main earth conductors and other interconnections. (1 no. each for every earth pit + other necessary areas if required. All should be accommodated in Electrical	Nos.	1		
12	Others :				
a	Marking of Panels, DBs, its switch and fuse ratings, cable size, location etc (Neat identification from top to extreme load end of both light and power distribution including KSEB / UPS plug sockets and generator switch boards) using white / black paint a	Lot	1		
b	Supply and providing of (i) 3mm thick electrical grade rubber mat in Electrical / UPS Room	Nos.	1		
c	Shock treatment chart.	Nos.	1		
TOTAL AMOUNT (A) :					
PART - B TELEPHONE					
1	Telephone Point : Providing Telephone Point with RJ11 Type modular socket with 2 pair telephone cable in 20mm PVC conduit from the CRONE Box to the individual points. Number of cables in one conduit limited to 5.	Nos.	5		
2	Supply and lying of 5 Pair telephone cable in 20mm PVC conduit from outside CRONE to inside CRONE Box.	Mtr.	20		
TOTAL AMOUNT (B) :					
PART - C : LAN CABLING WORKS					

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SL NO.	DESCRIPTION OF ITEM / WORK	UNIT	QTY	RATE	AMOUNT
1	Supply and Laying of 4Pair CAT-6E LAN Cable with suitable PVC Conduite and Junction boxes with etc.	Nos.	26		
2	Supply and fixing of CAT-6E Dual Information out letsSystemax/Amps/ D Link	Nos.	16		
3	Supply of Patch Cards 3' (Factory Crimping)	Nos.	26		
4	Supply of Patch Cards 7' (Factory Crimping)	Nos.	26		
5	Supply and fixing of 24 port Jack panel (Systemax/ amp)	Nos.	2		
6	Supply and fixing of 12U Rack encloser with accries likeSelf Power manager, Cable Manager, Hard Ware etc.	Nos.	1		
7	Supply and fixing of 24 ports d-link switch.	Nos.	1		
TOTAL AMOUNT (C) :					
PART - D : OTHER WORKS / ITEMS					
1	Master control setup for entrance 100 amp MCCB with enclosure with Wiring, Complete with all respects	Nos.	1		
2	Ac Metal Box with Enclosure 32A 2P MCB	Nos.	9		
3	Inverter Points 1.5 sqmm x 3	Nos.	15		
TOTAL AMOUNT (C) :					
TOTAL :					
Discount					
GRAND TOTAL					
GST 18% Extra					

Sign & Seal of the Contractor : -

Name & Address of the contractor : -

Internal