SCHEDULE OF QUANTITY

ELECTRICAL WORKS - PM PALEM BRANCH, VISAKHAPATNAM

| SL NO. | | | DESCRIPTION OF ITEM / WORK | UNIT | Qty | RATE | AMOUNT | | |
|--------|--------|---|--|--------|-------------|------------------|-----------|--|--|
| PAF | RT - A | : E | LECTRICAL WORKS | | | | | | |
| 1 | Ene | rgy N | Meter Cubicle : | Set | 0 | | | | |
| 2 | Em | erger | icy Off Box (Red Box): | Nos. | 0 | | | | |
| 3 | CAI | BLE L | AYING AND TERMINATIONS : | | | | | | |
| | а | Cab | le: | | | | | | |
| | | Supply & Laying of following 1100V grade armored cable having sector / circular shaped aluminum conductor insulated cores, laid up, PVC tape wrapped inner sheathed, GI strip / wire armored and overall extruded PVC confirming to IS: 7098, laid along with 2 Runs of 8SWG GI Wire on wall or ceiling using GI clamps and spacer route shown at site and further as directed by Bank / Architect. | | | | | | | |
| | - | i | 3.5x 75 sq.mm AYFY Cable (Main incomer) | Mtr. | 50 | | | | |
| | | ii | 3.5x 50 sq.mm AYFY Cable (Main incomer) | Mtr. | 0 | | | | |
| | | iii | 4 x 35 sq.mm AYFY Cable (for DG Set) | Mtr. | 20 | | | | |
| | | iv | 4 x 25 sq.mm AYFY Cable (for AC DB + ATM) | Mtr. | 40 | | | | |
| | | ٧ | 4x16 sq.mm AYFY Cable (for ATM) | Mtr. | 0 | | | | |
| | b | Cab | le end Terminations : | | | | | | |
| | | crim | termination of the following size of cables using flange type cable ping type cable sockets including gland earthing. | | | vy duty tinned a | aluminium | | |
| | - | i | i) 3.5x75 sq.mm AYFY | Nos. | 2 | | | | |
| | | ii | ii) 3.5x50 sq.mm AYFY | Nos. | 0 | | | | |
| | | iii | iii) 4 x 35 sq.mm AYFY | Nos. | 2 | | | | |
| | | İν | iv) 4 x 25 sq.mm AYFY | Nos. | 4 | | | | |
| | | ٧ | v) 4x16 sq.mm AYFY | Nos. | 0 | | | | |
| 4 | COS | | | | | | | | |
| | а | 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 ER or DC supply | Set | 0 | | | | |
| | | ii | indication of EB or DG supply. Supply and installation of 63A, 4P ON LOAD Change Over Switch with suitable metallic enclosure with cable entry box and powder coat painted and with 6 nos. LED indicators & 6 nos. of 2A MCBs for the indication of KSEB or DG Set supply separately (3-Phases each) with neat marking. | Set | 0 | | | | |
| | b | UPS | O/P COS: | | | | | | |
| | | ii | Supply and installation of 2 x 32A, 2P ON LOAD ROTARY / MCCB Type Change Over Switch in suitable metallic enclosure for with 4 nos. LED indicators & neat marking. | Set | 1 | | | | |
| 5 | Mai | n Sw | itch Board : | | | | | | |
| | a | | el Board | | | | | | |
| | | operated totally | enclosed vermin | | | | | | |
| | b | Vari | MCCB ical Distribution Box (VDB):- | | | 1 | I | | |
| | ~ | | · · · · · · · · · · · · · · · · · · · | ACCD ! | Vartical DD | ainting of the | | | |
| | | Supply, Installation, testing and commissioning of Double door 8 Way VTPN MCCB Vertical DB consisting following accessories with complete interconnections. Incomer: 125A,25kA, TP | | | | | | | |
| | | | Out 63A, TP MCB 1 Nos. | • | | | | | |

| | | | goings: | | | | | | |
|---|---|------|--|------------|--------|------------------------|--------------|--|--|
| | | | 32A, TP MCB 4 Nos. | | | | | | |
| | | | 32A, SP MCB 3 Nos. | | | | | | |
| | | | 20A, SP MCB 3 Nos. | | | | | | |
| | | | 125A Copper bus bar for 3 phases | | | | | | |
| | | | * Qty. / Rating of MCBs to be adjusted according to actual | | | | | | |
| 6 Distribution Boxes :- | | | | | | | | | |
| | a | | B/RPDB:- | | | | | | |
| | - | i | Supply, Installation, testing and commissioning of Double door do | ust and v | ermin | proof 6 way ETF | PN MCB DB | | |
| | consisting of the following (with complete interconnections) | | | | | | | | |
| | | | Incomer: 43A,4P 30mA 1 Nos. | Set | 0 | | | | |
| | | | ELCB + MCB | Set | U | | | | |
| | b | | DB / RPDB :- | | | | | | |
| | | i | Supply, Installation, testing and commissioning of Double door do | ust and v | ermin | proof 8 way VTF | PN MCB DB | | |
| | | | consisting of the following (with complete interconnections) 63A, 4P 30mA | İ İ | İ |] | | | |
| | | | Incomer: ELCB + MCB 1 Nos. | Set | 0 | | | | |
| | | ii | Supply, Installation, testing and commissioning of Double door do | ust and v | ermin | proof 4 way VTI | PN MCB DB | | |
| | | | consisting of the following (with complete interconnections) | | | | | | |
| | | | Incomer: 63A, 4P 30mA 1 Nos. | Set | 0 | | | | |
| | | iii | ELCB + MCB | | | (4) | | | |
| | | "" | Supply, Installation, testing and commissioning of Double door do consisting of the following (with complete interconnections) | ust and v | ermin | proof 4 way VII | N MCR DR | | |
| | | | 63A, 4P 30mA | Ì | Ì | 1 1 | | | |
| | | | Incomer: ELCB + MCB 1 Nos. | Set | 0 | | | | |
| | С | UPS | S INPUT Side :- | | | | | | |
| | | i | Supply, Installation, testing and commissioning of Double door dust and vermin proof 4 way VTPN MCB DB | | | | | | |
| | | | consisting of the following (with complete interconnections) for i/p | to UPS | & ACs | etc. | | | |
| | | | Incomer : 63A, 4P 30mA 1 Nos. | Set | 0 | | | | |
| | | ii | Supply and Installation of Single Door 4Way with 1x32A 4P | | _ | | | | |
| | | | MCB suitable metallic enclosure (for 3-Ph UPS) | Nos. | 0 | | | | |
| | | iii | Supply & fixing of Single Door 2 way DB with 32 A DP MCB | Nos. | 4 | | | | |
| | | | in suitable mettallic box (for 1-Ph UPS) | 1105. | 4 | | | | |
| | d | _ | Output Side : - | | | | | | |
| i Supply, Installation, testing and commissioning of Double door dust and vermin proof 12 was | | | | | | | PN MCB DB | | |
| | consisting of the following (with complete interconnections. Incomer: 40A 2P MCB 1 Nos. set 0 | | | | | | | | |
| | | ii | | set | | proof 0 way CDI | I MCD DD | | |
| | | " | Supply, Installation, testing and commissioning of Double door do consisting of the following (with complete interconnections. | ust alla V | CHIIII | proor o way SPI | A MICD DD | | |
| | | | Incomer: 40A 2P MCB 1 Nos. | set | 2 | | | | |
| 7 | Oth | er M | CB / Isolator DBs : | | _ | <u> </u> | | | |
| | а | | ay (4P ELCB + MCBs): - | | | | | | |
| | | i | Supply and Installation of Single Door 8 Way SPN MCB DB wit | h 30mA, | 32A 4 | P MCB + 4P EL | .CB suitable | | |
| | | | metallic enclosure | 0.1 | _ | T | | | |
| | | | for ATM incomer (in e-lobby room) | Set | 0 | | | | |
| | | | for local control of the 3 phase ACs in Banking Hall | | | | | | |
| | b | 4 w | ay (DP ELCB + MCBs): - Supply and Installation of Single Door 4 Way SPN MCB DB | | | | | | |
| | | ı | with 30mA 32A DP ELCB (incomer) + 2x20A SP MCB | Set | 0 | | | | |
| | | | suitable metallic enclosure | OGL | U | | | | |
| | b | 4 wa | ay:- | | | 1 | | | |
| | | i | Supply and Installation of Single Door 4Way with 1x32A 4P | Maa | 2 | | | | |
| | | | MCB suitable metallic enclosure | Nos. | 2 | | | | |
| | | | for local control of the 3 phase ACs in Banking Hall | | | | | | |
| | С | 2 wa | ay : - | | | | | | |

| | | i Supply & fixing of Single Door 2 way DB with 32 A DP MCB in suitable mettallic box | Nos. | 0 | | | | | |
|---|-----|---|----------|----|--|--|--|--|--|
| 8 | | Plug & Sockets : | | | | | | | |
| | Sup | Supply and fixing of following Modular type switches/ plugs / sockets mounted on suitable box. | | | | | | | |
| _ | а | 3 pin socket - 25 A Modular type socket & Top for fixing 1-Ph Ad / Stabilizers. | Nos. | 0 | | | | | |
| | b | 3 pin socket / Connector Box - 25A Modular type socket with suitable metallic/PVC enclosure controlled by a separately located 25A Modular type DP Switch for 1-Ph air conditioners | | 3 | | | | | |
| | C | 3 Pin UPS Sockets - 3 no. x 5A & 1 no. x 5/15 A with seperately controlled 15 A indicator switch (for counters only). | Nos. | 0 | | | | | |
| | d | 3 Pin UPS Sockets - 1 no. x 5A & 1 no. x 5/15 A with seperately controlled 15 A indicator switch (for officer Tables, where Raw power is provided). | Nos. | 5 | | | | | |
| | е | 3 Pin EB Socket - 2 no. x 5A controlled by 2 no. x 5 A switches. | Nos. | 0 | | | | | |
| | f | 3 Pin Sockets - 1 no. x 5/15A controlled by 1 no. x 15 A switch with indicator in different locations. | Nos. | 3 | | | | | |
| | g | 3 Pin Sockets - 1 no. x 5/15A. | Nos. | 0 | | | | | |
| - | h | 3 Pin Sockets - 1 no. x 5A controlled by 1 no. of 5 A Switch in separate locations. | Nos. | 8 | | | | | |
| • | i | 3 Pin Sockets - 1 no. x 5A controlled by 1 no. x 5 A switch (to act to common switch board) | ld Nos. | 5 | | | | | |
| 9 | a | nts, Fixtures & Fans etc.: Supply and Installation of recessed type LED Square (2x2) Light fitting with suitable frame if any (>=2900 Lu, <=39W, >=6000K, Ex.:Model-RC140B). | Nos. | 7 | | | | | |
| | b | Supply and Installation of recessed type LED Round Light fitting with suitable frame if any (>=1300 Lu, <=15W, >=6000K, Ex : Model-DN153) | Nos. | 0 | | | | | |
| | С | Supply and installation of 4Ft LED Tube Light fitting (>=1600 Lu, >=18W, >=6000K, ex. : Model:BN012C) | Nos. | 11 | | | | | |
| - | d | Supply and installation of 2Ft LED Tube Light fitting (>=400 Lu, <=6W, >=6000K, ex. : Model :) | | 3 | | | | | |
| - | е | Supply and installation of BULK HEAD LIGHT fitting (>=600 Lu, <=10W, >=6000K, ex. : Model:Philips WT202W) | | 6 | | | | | |
| | f | (Toilets) Crompton Greaves (Necessary wall cutting & finishing to be done by Contractor) | | 1 | | | | | |
| | g | Supply and installation of 12" size medium duty exhaust fan. (UPS Room) Crompton Greaves (Necessary wall cutting & finishing to be done by Contractor) | | 1 | | | | | |
| | h | i Supply amd installation of 1200 mm sweep ceiling fan . (Crompton Greaves High Speed) | Nos. | 3 | | | | | |
| | | ii Supply and Installation of step type modular electron regulator (Only in dining Room | n). NOS. | 5 | | | | | |
| | | Supply and providing fan hook on ceiling Supply and providing fan rod with painting (up to 1m length require | - if Nos | 7 | | | | | |
| } | i | Supply and Installation of 400 mm sweep wall fan. (Crompton Greaves / Usha) | Nos. | 0 | | | | | |
| Ī | j | Supply & installation of wireless calling bell (Battery operated) | Nos. | 1 | | | | | |
| | k | 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 | | | | | |
| 0 | Poi | nt Wiring for Light, Fan, Plug & Sockets etc. : | 0 | | | | | | |
| ſ | а | Light Point | | | | | | | |

| [[| | li | Supply all materials and wiring through wall floor etc, | | ĺ | | | |
|-----|---|----------------|---|------------------|----------|--------------------------|--|--|
| | | • | concealed as per colour code with 3x1.5 sq mm P V C | Nos. | 55 | | | |
| | | | insulated stranded copper wire. | | | | | |
| | | ii | Loop to the above with 3X1.0 sq.mm PVC wire | Nos. | 10 | | | |
| | 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 | Nos. | 15 | | | |
| | | | insulated stranded copper wire, with suitable 2 / 3 pin, 5 A Socket & switch. | | | | | |
| | С | UPS | 5 / Raw power Point | <u> </u> | | <u> </u> | | |
| | i Supply all materials and wiring through wall floor etc, | | | | | | | |
| | | | concealed as per colour code with 3x2.5 sq mm P V C | Nos. | 11 | | | |
| | | | insulated stranded copper wire. | | | | | |
| | | ii | Loop to the above with 3X1.5 sq.mm PVC wire | Nos. | 10 | | | |
| | d | | 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 | Nos. | 3 | | | |
| | | | stranded copper wire. | 1105. | 3 | | | |
| 11 | Circ | cuit / | Sub circuit Wiring : | | | | | |
| | а | | oply and wiring wall / floor etc. / recessed / surface as per colour co | de with t | he foll | owing size PVC Insulated | | |
| | | | per wire along with given earth wire for phase neutral and earth | | | | | |
| | | ISI | marked rigid PVC conduit. | | | | | |
| | | i | 2 x 1.0 sq.mm PVC Copper wire in 20 mm dia conduit for | Mtr. | 0 | | | |
| | | | emergency Stop Box Connection etc. | IVIU. | U | | | |
| | | ii | 3 x 1.5 sq.mm PVC Copper wire in 20 mm dia conduit. | Mtr. | 0 | | | |
| | | iii | 3 x 2.5 sq.mm PVC Copper wire in 20 mm dia conduit. | Mtr. | 0 | | | |
| | | iν | 5 x 2.5 sq.mm PVC Copper wire in 20 mm dia conduit - for 3- | Mtr. | 80 | | | |
| | | | Ph circuits like 3-Ph AC / UPS etc. | | | | | |
| | | ٧ | 3 x 4 sq.mm PVC Copper wire in 20 mm dia conduit - for Sign Boards etc. | Mtr. | 30 | | | |
| | | vi | 3 core - 4 sq.mm PVC Copper Cable - for UPS O/P to DB in | | | | | |
| | | | Elect Room. | Mtr. | 10 | | | |
| | | vii | 3 x 6 sq.mm PVC Copper wire in 20 mm dia conduit - for UPS | Mtr. | 10 | | | |
| 40 | | | Input circuit. | | | | | |
| 12 | | _ | J & Earth Conductors: | | 0 | | | |
| | а | | viding Plate earth Pits as per IS 3043 with 600x600x3.0 mm CI earth plate, 20 mm GI pipe, filled with sufficient charcoal & | | | | | |
| | | | ers along with construction of inspection chamber & other | Nos. | 2 | | | |
| | | | essary works. | | | | | |
| | p | | ne as above but COPPER PLATE EARTHING AS PER | Nos. | 2 | | | |
| | | | ANDARD SPECIFICATIONS. | 1105. | | | | |
| | C | | ply and laying of the following size of bare copper conductor | | | | | |
| | | | ng with cables, for interconnections between panels, DBs, COS, Set & Earth Pits etc. | | | | | |
| | | i | 1 X 8 SWG GI Wire for Earthing. | Mtr. | 50 | | | |
| | | ii | 1 X 10 SWG bare copper conductor | Mtr. | 150 | | | |
| | | ii | Green sleeved 1 X 10 SWG copper conductor | Mtr. | 10 | | | |
| | d | 20 | Omm PVC conduit (to be used for the conductors which expose to | Mtr. | 20 | | | |
| | | | weather) | iviti. | 20 | | | |
| | е | | ply & Installation of 25x3 mm tinned Copper Earth Bench of 30 | | | | | |
| | | | long for termination of main earth conductors and other rconnections. (1 no. each for every earth pit + other necessary | Nos. | 3 | | | |
| | | | as if required. All should be accommodated in Electrical | | | | | |
| 13 | Tim | iers | , | <u> </u> | | <u> </u> | | |
| | а | L&T | Make Timer - 5A - with setting of ON from 6.00 PM to 6.00 AM | Nos. | 1 | | | |
| | | | Security Lights / Front Shutter Light) with suitable contactor. | 1100. | <u> </u> | | | |
| | b | | Make Timer - 15A - with setting of ON from 6.00 PM to 6.00 AM | Nos. | 1 | | | |
| 14 | Oth | (tor | Server Acs) with suitable contactor. | | | | | |
| 1* | Ott | G13 . | | | 1 | | | |

| 1 | ا ہے | Marking of Danala DDa ita quitab and five nations cable air- | 1 | ſ | l I |
|----------|--------|---|----------|-----|-----|
| | а | 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 | Charges for preparation of single line diagram of the whole electrical installation using AutoCAD, lamination and displaying it inside the UPS room. | Lot | 1 | |
| | С | Removal of existing old wiring / electrical installations etc. and providing temporary arrangement for working of the branch during the works. | Lot | 0 | |
| • | d | Supply and providing of (i)6mm thick electrical grade rubber mat in Electrical / UPS Room | Nos. | 1 | |
| • | е | Shock treatment chart | Nos. | 1 | |
| • | f | Rubber gloves | Nos. | 1 | |
| | | TOTAL AMOUN | NT (A) : | | |
| PAR | RT - B | | | | |
| 1 | | ply and wiring using following telephone cable in 20mm PVC conduit fro | | | |
| | a | ONE Box to the individual points. Number of cables in one conduit limite Supply and wiring using following 2 Pair telephone cable in 20mm | ed to 5. | | |
| | | PVC conduit. | Mtr. | 250 | |
| | b | Supply and wiring using following 5 Pair telephone cable in 20mm PVC conduit from outside CRONE to inside CRONE Box. | Mtr. | 20 | |
| 2 | | ply and fixing of RJ 11 type modular telephone socket on suitable C / metal boxes. | | | |
| | a | Telephone socket - single modular type | Nos. | 5 | |
| | b | Telephone socket - double (modular type) | Nos. | 1 | |
| 3 | | ply & installation of KRONE telephone junction box of 20 pair inector in 50 pair Box. | Nos. | 1 | |
| | | TOTAL AMOUN | NT (B) : | | |
| PAR | RT - C | : RE-ARRANGEMENT OF EXISTING MATERIAL (already removed) | : | | |
| 1 | | aning & Re-installation & commissioning of following items with all necesting & interconnections : | ssary | | |
| | a | 4 way VTPN DB | Nos. | 2 | |
| | b | 6 way ETPN DB | Nos. | 1 | |
| - | C | 32 A DP MCBs & mettalic enclosure | Nos. | 3 | |
| | d | Main COS - 100 A | Nos. | 1 | |
| | е | UPS Socket boards (4x6A 3 pin) with seperately controlled 6A switch | Nos. | 10 | |
| • | f | Raw Power Socket boards (2x6A 3 pin) with seperately controlled 6A switch | Nos. | 9 | |
| • | g | RJ11 - Telephone sockets | Nos. | 5 | |
| | h | Square (2x2) LED Fittings with proper support from ceiling | Nos. | 7 | |
| | i | 18 W down lights | Nos. | 18 | |
| | j | Exhaust Fans - 9 " in toilets with proper cutting of wall and finishing with cement plastering | Nos. | 2 | |
| | k | Wall mounted Fans | Nos. | 12 | |
| | I | Ceiling Fans & their regulators | Nos. | 6 | |
| | m | Other miscellaneous works | Lot | 1 | |
| | | TOTAL AMOUN | NT (C) : | | |
| | | GRAND TOTAL (D = A+ | B+C): | | |
| <u> </u> | | | L | | |

| GRAND TOTAL IN WORDS :_ | | |
|-------------------------|------|------|
| | | |
| | | |
| | | |