



ZOPC/HGLY/GAD/MISC/2025-26/ 40

दिनांक/Date-03/11/2025

To,  
Electrical Contractors, A & B Category,  
(Empanelled by Head Office, 01/09/2022 to 31.08.2025)

Sir,

**Sub: Invitation of sealed tender for Internal Electrical ,A.C. & LAN work of Rishra Branch**

We invite **Sealed Tender** for Internal Electrical, A.C. & LAN work of Rishra Branch whose tender document is enclosed.

Last Date of Submission – 10.11.2025 till 5:00 PM  
Date of opening of tender – 11.11.2025

Regards,

  
Dy Zonal Head  
Hooghly Zone





**BOQ FOR ELECTRICAL & HVAC WORKS AT RISHRA BRANCH & ATM,  
UCO BANK**

| SL. | PARTICULARS     | AMOUNT |
|-----|-----------------|--------|
| II  | ELECTRICAL WORK |        |
| III | HVAC            |        |
|     | TOTAL           |        |
|     | DISC. (IF ANY)  |        |
|     | GRAND TOTAL     |        |

# BOQ FOR ELECTRICAL WORKS AT RISHRA BRANCH & ATM , UCO BANK

| SI No. | Description Of Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Unit | Qnty. | Rate (Rs.) | Amount (Rs.) |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------|------------|--------------|
| 1      | <b>MAIN PANEL BOARD</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |       |            |              |
|        | <p>S/I/T/Commissioning of Main Distribution Panel Board as per given below: - 440 Volts AC, 3 Phase, 50 Hz with 50 KA fault level for 1 second, Floor / Wall mounted, 7 tank cleaning process with duly powder coated with copper bus bar.</p> <p>Incomer : 250 Amps 4 Pole MCCB of 35 KA breaking capacity (with earth fault relay) - 1 nos. , with LED type phase indicating lamp, Digital voltmeter, Ammeter with selector switch with required CT unit, Danger Notice Board indicating sign (DANGER) in English, Hindi.</p> <p>Outgoing : 125 Amps 4P MCB - 1 No.,<br/> 100 Amps 4P MCB - 2 Nos.,<br/> 63 Amps 4P MCB - 3 Nos.,<br/> 40 Amps 4P MCB - 3 Nos.,<br/> 25 Amps 4P MCB - 3 Nos.,<br/> 25 Amps 2P MCB - 3 Nos.,<br/> 125 Amp 4P Changeover switch -1 No.,<br/> 250 Amp TPN Bus bar Chamber-1 No.,<br/> 125 Amp TPN Bus bar Chamber-1 No.,<br/> 20 KVAR Capacitor-1 No.</p> <p>The following protection should be provided in electrical system of VRV Units:-</p> <p>a. Over voltage protection.<br/> b. Protection against neutral Failure.<br/> c. Earthing should be less than 2 Ohm. Protection to Earth Leakage (ELCB) Should be provided.</p> | set  | 1     |            |              |
| 2      | <b>SWITCH NEAR METER</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |       |            |              |
| a      | Providing and fixing 100Amp TPN HRC Type main switch in 16 gauge sheet cubicle box. of L/T DH -200 25KA (near meter ) complete with incoming and outgoing connections.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | set  | 1     |            |              |
| b      | Supply & installation of 2 nos. 32A DP Changeover switch to be fixed and complete with one no.60A rated copper Bus bar for changing supply from one UPS to another with all accessories.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | set  | 1     |            |              |
| 3      | <b>DISTRIBUTION BOARDS</b> (All MCBs to be "C" series)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |       |            |              |
| a      | Providing and fixing 12 way SPN double door <b>DB for UPS SUPPLY</b> with incomer 1 no. 40 Amps DP MCB controlling 10 Nos. 6/10 Amp SPMCB Complete.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Unit | 1.00  |            |              |
| b      | Providing and fixing 12 way SPN double door <b>DB for LIGHT POINTS</b> with incomer 1 no. 25 Amps DP MCB controlling 10 Nos. 6/10 Amp SPMCB Complete.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Unit | 1.00  |            |              |
| c      | Providing and fixing 4 way TPN double door <b>LIGHT DB</b> for LIGHT POINTS with incomer 1 no. 40 Amps 4P <b>MCCB</b> controlling 12 Nos. 16/ 20 Amp SPMCB Complete. (All MCBs to be "C" series)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Unit | 1.00  |            |              |
| d      | Providing and fixing 4 way TPN double door <b>DB for POWER POINTS</b> with incomer 1 no. 40 Amps 10 KA TPN MCB controlling 12 no. 16/20 Amp SPMCB Complete.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Unit | 1.00  |            |              |
| e      | Providing and fixing 4 way TPN double door <b>DB</b> with incomer 1 no. 63 Amps 10 KA TPN MCB controlling 12 no. 16/20 Amp SPMCB Complete.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Unit | 1.00  |            |              |

| SI No. | Description Of Item                                                                                                                                                                                                                                                                                                                                                                                                                                      | Unit  | Qty.   | Rate (Rs.) | Amount (Rs.) |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------|------------|--------------|
| f      | Providing and Fixing of 8 way, <b>TP&amp;N 'MCB type VTPN Distribution Board(double door)</b> flush mounted on wall, sheet metal fabricated, powder coated, having dust-proof and vermin 'proof, gasketed and hinged door with all internals such as DIN rails, neutral-link, interconnected wiring, complete with earthing legs, housing following switch gears. 1 no., 63A, TPN, ELCB(100mA) incomer, 4 Nos 32 A TP MCB & 6 nos, 20A, SP, MCB outgoing | Unit  | 1.00   |            |              |
| 4      | <b>UPS INPUT/ OUTPUT</b>                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |        |            |              |
|        | 63 Amps/40 Amps DP MCB in MS enclosure box                                                                                                                                                                                                                                                                                                                                                                                                               | unit  | 4      |            |              |
| 5      | <b>CABLES</b>                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |        |            |              |
| a      | Providing and placing in position, testing and connecting 1.1 KV grade Cu cable 3.5C x 35 sq. mm. with 2 Nos 10 swg GI ECC by GI bar and saddles on wall/floorpass. Cable to be for <u>Main switch to Main Panel</u> Including all necessary terminals etc. complete.                                                                                                                                                                                    | r. m. | 25.00  |            |              |
| b      | Providing and placing in position, testing and connecting 1.1 KV grade Cu cable 4-C x 16 sq. mm. with 2 Nos 10 swg GI ECC by GI bar and saddles on wall/floorpass. Cable to be for <u>DG to Main Panel</u> Including all necessary terminals etc. complete.                                                                                                                                                                                              | r. m. | 35.00  |            |              |
| c      | Providing and placing in position, testing and connecting 1.1 KV grade Cu cable 4-C x 10 sq. mm. with 2 Nos 10 swg GI ECC by GI bar and saddles on wall/floorpass. Cable Including all necessary terminals etc. complete.                                                                                                                                                                                                                                | r. m. | 15.00  |            |              |
| d      | Providing and placing in position, testing and connecting 1.1 KV grade Cu cable 4-C x 6 sq. mm. with 2 Nos 10 swg GI ECC by GI bar and saddles on wall/floorpass. Cable Including all necessary terminals etc. complete.                                                                                                                                                                                                                                 | r. m. | 50.00  |            |              |
| e      | Providing and laying 2 x 6 sq. mm. & 1 x 1.5 sq. mm. FR PVC coated copper conductors (1.1 KV grade) in pvc rigid pipe/capping-casing on surface of wall duly clamping with necessary fittings and accessories Including all necessary terminals etc. complete.                                                                                                                                                                                           | r. m. | 25.00  |            |              |
| f      | Providing and laying 4 x 6 sq. mm. & 2 x 2.5 sq. mm. FR PVC coated copper conductors (1.1 KV grade) in pvc rigid pipe/capping-casing on surface of wall duly clamping with necessary fittings and accessories Including all necessary terminals etc. complete.                                                                                                                                                                                           | r. m. | 45.00  |            |              |
| g      | Providing and laying 2 x 4 sq. mm. & 1 x 2.5 sq. mm. FR PVC insulated multi stranded copper wire in suitable size pvc rigid pipe/capping-casing on surface of wall duly clamping with necessary fittings and accessories for <u>AC DB To Starters/Outdoor Units &amp; Glow sign board wiring</u> Including all necessary terminals etc. complete.                                                                                                        | r. m. | 165.00 |            |              |
| h      | Providing and laying 2 x 2.5 sq. mm. & 1 x 1.5 sq. mm. FR PVC coated copper conductors (1.1 KV grade) in pvc rigid pipe/capping-casing on surface of wall duly clamping with necessary fittings and accessories from <u>Light DB to Switch Boards &amp; Power DB to Raw Power Point</u> Including all necessary terminals etc. complete.                                                                                                                 | r. m. | 210.00 |            |              |
| i      | Providing and laying 4 x 6 sq. mm. FR PVC coated copper conductors (1.1 KV grade) in pvc rigid pipe/capping-casing on surface of wall duly clamping with necessary fittings and accessories for UPS Including all necessary terminals etc. complete.                                                                                                                                                                                                     | r. m. | 35.00  |            |              |

| Sl No. | Description Of Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Unit  | Qty.   | Rate (Rs.) | Amount (Rs.) |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------|------------|--------------|
| j      | Providing and laying 2 x 2.5 Sq mm. & 1 x 1.5 sq. mm. FR PVC insulated multi stranded copper wire in suitable size pvc rigid pipe/capping-casing on surface of wall duly clamping with necessary fittings and accessories for <u>UPS DB To Computers</u> . Including all necessary terminals etc. complete.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | r. m. | 230.00 |            |              |
| 6      | <b>CABLE TERMINATION</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       |        |            |              |
|        | Supplying, connecting the end terminations with copper cable lugs, Single Compression Brass Cable Glands, Tapping, Crimping etc. complete.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |        |            |              |
| a      | 3.5 core 50 Sq mm Al. Armoured                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | unit  | 2.00   |            |              |
| b      | 4 core 16 Sq mm Al. Armoured                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | unit  | 2.00   |            |              |
| c      | 4 core 10 Sq mm Al. Armoured                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | unit  | 2.00   |            |              |
| d      | 4 core 6 Sq mm Al. Armoured                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | unit  | 2.00   |            |              |
| 7      | <b>EARTHING</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       |        |            |              |
| a      | Earthing installations as per I.E. rules by making earth stations with 600 mm x 600 mm x 3.15 mm. thick copper plate electrode to be installed such that its top edge shall be at a minimum depth. of 3.0 meter below ground level after preparation of ground with charcoal and salt and connecting the MIP with 25 mm x 6 mm G.I. earth lead-in-strip directly in ground by bolting and then brazing to the copper Plate complete with G.I. bolts of suitable length double nuts and washers including supply and fixing of 50 mm dia. partly perforated G.I. pipe with funnel for watering arrangement. 3.0 m. long with 300 x 300 mm, casting plate connection to be fitted with bitumen, the electrode to be driven under G. L. to an av. depth of 3.15 m. The earthing installation should be provided with 300 mm x 300 mm and 300 mm depth inside dimension masonry inspection pit with C.I. hinged cover having locking arrangements, test link of size 150 mm length x 25 mm x 6 mm copper flat connected to copper earth lead-in-strip and restoring the surfaces duly rammed. | unit  | 2.00   |            |              |
| b      | Providing and fixing Pipe Earthing (IS - 3043) 3.0m. deep with 40 mm. dia. GI pipe With perforations filled with alternate layers of Charcoal and salt. The item includes Funnel on top in brick masonry chamber with CI cover for watering purpose complete.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | unit  | 1.00   |            |              |
| c      | Providing and fixing Earth Bus Bar of 25 mm. x 6 mm. x 300 mm. complete with brass nut, bolt, washer & bus insulator.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | unit  | 2.00   |            |              |
| d      | Providing and fixing bare Copper Earth Wire 16 guage in pvc conduit in Floor / walls From pipe earthing to Main Panel Board Complete.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | r. m. | 80.00  |            |              |
| 8      | <b>POINT WIRING</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |        |            |              |
|        | Providing & fixing POINT WIRING for Ceiling and wall lights / fan. The item includes Circuit wiring from DB to the switch board with 2 x 2.5 sq. mm. PVC insulated copper conductor with 1.0 sq. mm. PVC insulated copper conductor for earthing in appropriate size of PVC conduits ISI mark, point wiring to be laid with 2 x 1.5 Sq. mm. PVC insulated copper conductor with all necessary accessories, such as saddles etc. on surface or embedded in wall, chasing the walls and making the surface neat afterwards. The item includes 6 Amp switch with all base plates & cover plates, M.S. box of same make etc. 3 plate ceiling rose to be provided for Exhaust fans complete. Each switch board should have at least 1 no. 5 Amp raw power socket.<br><b>There will be at least 8 light points to be connected through UPS supply within banking hall area.</b>                                                                                                                                                                                                                 |       |        |            |              |

| Sl No. | Description Of Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Unit | Qty.  | Rate (Rs.) | Amount (Rs.) |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------|------------|--------------|
| a      | Providing and fixing point wiring with same specifications as MAIN point wiring above : <u>one point to be controlled by one switch.</u>                                                                                                                                                                                                                                                                                                                                                                   | unit | 40.00 |            |              |
| b      | Providing and fixing point wiring with same specifications as MAIN point wiring above : <u>two points to be controlled by one switch.</u>                                                                                                                                                                                                                                                                                                                                                                  | unit | 20.00 |            |              |
| b      | Providing and fixing power point for WALL / EXHAUST FAN points with 1 x 2 pin 6Amp socket outlet to be provided at the location of fan                                                                                                                                                                                                                                                                                                                                                                     | unit | 22.00 |            |              |
| c      | Providing & fixing Raw Power Point Includes 1 nos. 5 pin 15 AMP socket and 1 no 15 Amp switch etc. complete with 1.1KV grade 2 nos. single core 2.5 sq. mm + 1 no. 1.5 sq mm ( Green colour for Earthing) PVC insulated copper conductor wire (FRLS )through suitable size PVC pipe on wall / ceiling surface with all wiring accessories.                                                                                                                                                                 | unit | 10.00 |            |              |
| d      | Providing & fixing Raw Power Point Includes 2 nos. 5 pin 6 AMP socket and 1 no 6 Amp switch etc. complete with 1.1KV grade 2 nos. single core 2.5 sq. mm + 1 no. 1.5 sq mm ( Green colour for Earthing) PVC insulated copper conductor wire (FRLS )through suitable size PVC pipe on wall / ceiling surface with all wiring accessories.                                                                                                                                                                   | unit | 4.00  |            |              |
| e      | Providing & fixing Computer Plug Points with 3 Nos 5 pin 6 Amp sockets, 1 Nos 16 amp switch & one indicator lamp, complete with all necessary accessories. The switch and indicator to be located above the counter while sockets to be fixed below the counter, with 1.1KV grade 2 nos. single core 2.5 sq. mm + 1 no. 1.5 sq mm ( Green colour for Earthing) PVC insulated copper conductor wire (FRLS )through suitable size PVC pipe on wall / ceiling surface with all wiring accessories.            | unit | 12.00 |            |              |
| f      | Providing and fixing BELL POINTS on wall / partition with 2x1.0 Sq.MM copper conductor with call bell switch (Push Type) including ANCHOR call bell TRESSA Multi Tune Bell complete.                                                                                                                                                                                                                                                                                                                       | unit | 1.00  |            |              |
| g      | Providing and fixing A.C. power point wiring from AC DB with 1.1KV grade 2 nos. single core 4.0 sq. mm + 1 no. 2.5 sq mm ( Green colour for Earthing) PVC insulated copper conductor wire (FRLS )through suitable size PVC pipe on wall / ceiling surface with all wiring accessories. The work includes supply & fixing by chase cutting on wall, North West / Cabtree make Starter 18-25A (MS housed) unit with 25A socket & matching Plug top complete with all interconnections for 1.0/1.5/2 Ton ACs. | unit | 6.00  |            |              |
| h      | Providing and fixing Glow Sign Board point including supply of timer, thro. separate 20 Amp. DP MCB with metal enclosure complete.                                                                                                                                                                                                                                                                                                                                                                         | unit | 1.00  |            |              |
| 9      | <b>ELECTRICAL FIXTURES</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |       |            |              |
|        | Item includes Providing, assembling, fixing, testing & commissioning Following Fixtures including all accessories, lamps & extension chords as maybe necessary complete. All LED / Flurescent fixtures (except down lighters) to be hung from the RCC ceiling by 20 KG grade adjustable GI chain & in NON False ceiling area they are to be hung by appropriate Down Rods.                                                                                                                                 |      |       |            |              |
| a      | Providing and Fixing Recessed mounted diffused optics high performance <b>2' X 2' LED luminaire</b> of HAVELLS or similar with necessary <b>LED</b> lamp. (VENUS NEO Product code : LHEWDRP7PL1W034 with 34w LED 6000K or similar)                                                                                                                                                                                                                                                                         | unit | 20.00 |            |              |
| b      | Providing and Fixing Recessed mounted <b>LED spot light</b> of HAVELLS with necessary <b>LED</b> lamp (15W LED 6000K) or similar. ( Ceiling cutout ø 155 mm.)                                                                                                                                                                                                                                                                                                                                              | unit | 20.00 |            |              |

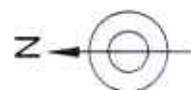
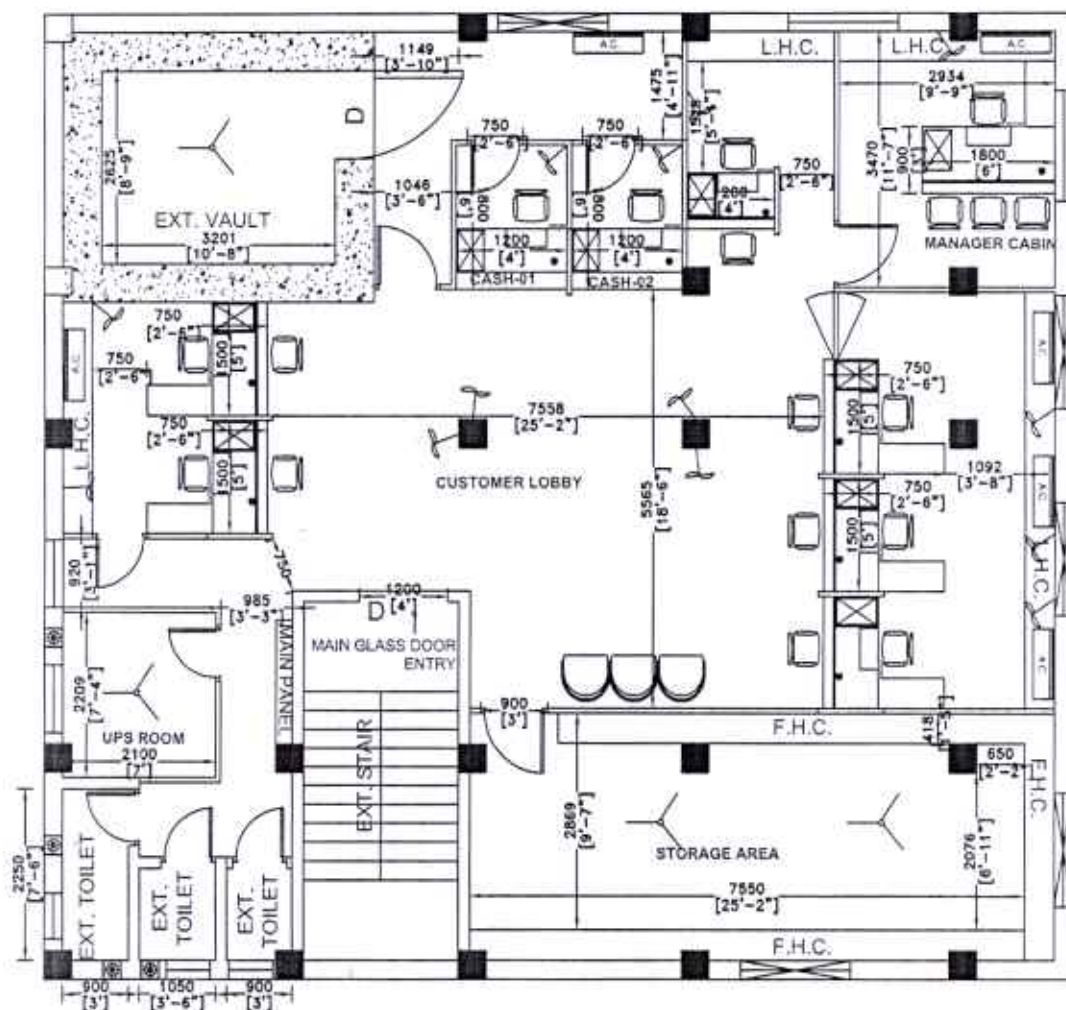
| Sl No. | Description Of Item                                                                                                                                                                              | Unit  | Qty.   | Rate (Rs.) | Amount (Rs.) |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------|------------|--------------|
| c      | Providing and Fixing Surface mounted luminaire suitable for HAVELLS or similar : PHOTON PLUS LED TUBELIGHT : product code : LHLDCLEXENL8X018 or similar with Lamp type 18W LED                   | unit  | 15.00  |            |              |
| d      | Providing and Fixing wall mounted fans 400 mm. sweep                                                                                                                                             | unit  | 13.00  |            |              |
| e      | Providing and Fixing Ceiling fans 1200 mm. sweep                                                                                                                                                 | unit  | 4.00   |            |              |
| f      | Supplying & Fixing of exhaust fan heavy duty industrial type Crompton 225 mm sweep with 1400 RPM.                                                                                                | unit  | 4.00   |            |              |
| 10     | <b>TELEPHONE CABLING</b>                                                                                                                                                                         |       |        |            |              |
| a      | S/I/T/Commissioning of 2 pair 0.51 sq. mm. telephone unarmoured cable in 32mm PVC pipe. (Make - Finolex / Delton / Polycab)                                                                      | r. m. | 70.00  |            |              |
| b      | S/I/T/Commissioning of Telephone point with 1 No. of RJ-11 socket, 1 Module Plate & Modular Box as per instructions of the Architect/Consultant.                                                 | unit  | 3.00   |            |              |
| c      | S/I/T/Commissioning of telephone Junction box 10 pair krone type housed in MS box with Lock & key.                                                                                               | unit  | 1.00   |            |              |
| 11     | <b>DATA CABLING</b>                                                                                                                                                                              |       |        |            |              |
| a      | providing and fixing IOU (information outlet unit) of AT & T make including square face plate MS housing box with RJ-45 socket etc complete                                                      | unit  | 12.00  |            |              |
| b      | Providing and fixing data points with CAT-6 UTP cable from system room to individual points in 20mm PVC conduit fixed on wall, ceiling, partition etc. complete                                  | r. m. | 310.00 |            |              |
| c      | Providing and fixing Mounting (PATCH) cords one per port.                                                                                                                                        |       |        |            |              |
| d      | 1.0 m. long                                                                                                                                                                                      | unit  | 12.00  |            |              |
| e      | 2.0 m. long                                                                                                                                                                                      | unit  | 12.00  |            |              |
| 12     | <b>DISMANTLING</b>                                                                                                                                                                               |       |        |            |              |
|        | Dismantling of electrical items like light fittings, fan, wires, switches, Boards etc along with all allied items like LAN and Telephone wires and all items dismantling as per need of the site | Job.  | 1.00   |            |              |
|        | <b>BUY BACK /Less Salvage Value</b>                                                                                                                                                              | Job.  | 1.00   |            |              |
|        | <b>TOTAL</b>                                                                                                                                                                                     |       |        |            |              |

## BOQ FOR HVAC WORKS AT RISHRA BRANCH, UCO BANK

| SI No. | Description Of Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Unit | Qty. | Rate (Rs.)   | Amount (Rs.) |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|--------------|--------------|
| 1      | Opening and Refixing including installation Supply, Installation, Testing & Commissioning with refrigerant copper piping with PU insulation also Supply, Installation, Testing & Commissioning of drainage piping with 20mm PVC/HDPE pipe.Wall mounting Bracket for installation of outdoor unit for the existing 4 nos. A/C s. Old Machines from one place of branch. The work to be completed as per approval and direction of the Drawing and BM Instruction. Rates to be quoted including Supply, Installation, Testing & Commissioning of extra refrigerant copper piping with PU insulation & Supply, Installation, Testing & Commissioning of extra drain piping with 20mm PVC/HDPE pipe.                                                                                | 4    | NOS  |              |              |
| 2      | Supply, Installation, testing and commissioning of 1.5 TR cooling capacity type Air Conditioning unit with with 5 STAR Rating, inverter technology, consisting of WALL mounted indoor unit and condenser unit suitable for operation on 230 volts,single phase, 50 Hz AC supply, Refrigerant R-32/410a, cordless remote controller, integrated drain pump, auto air swing louvers extremely quiet in operation etc. Including mounting indoor unit with suitable brackets/ tie rod as per standard practice in the industry as required at site.Rates to be quoted including Supply, Installation, Testing & Commissioning of extra refrigerant copper piping with PU insulation & Supply, Installation, Testing & Commissioning of extra drain piping with 20mm PVC/HDPE pipe. | 2    | NOS  |              |              |
|        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |      |              |              |
|        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |      |              |              |
|        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |      | <b>TOTAL</b> |              |

### APPROVED MAKE OF MATERIALS

|    |                                                                                                    |                                               |
|----|----------------------------------------------------------------------------------------------------|-----------------------------------------------|
| 1  | Switch fuse units (HRC) (32A TPN & above)                                                          | GE power / SIEMENS / L&T / Schneider          |
| 2  | Timer (TSQ 100)                                                                                    | L & T/ HAVELLS/ SIEMENS                       |
| 3  | Voltmeter & Ammeter                                                                                | A. E. / IMP/ HAVELLS/ SIEMENS                 |
| 4  | Voltmeter & Ammeter selector switches                                                              | KAYCEE / L & T/ HAVELLS                       |
| 5  | Phase indicating lamp                                                                              | HAVELLS / SIEMENS / ROSS controls             |
| 6  | Capacitor                                                                                          | CROMPTON/SIEMENS                              |
| 7  | HRC fuses                                                                                          | GE power / SIEMENS / L & T / SCHNEIDER        |
| 8  | Power Cable : XLPE                                                                                 | GLOSTER/FINOLEX /HAVELLS / NICCO              |
| 9  | HRC fuse base & carriers.                                                                          | GE power / SIEMENS / L & T / SCHNEIDER        |
| 10 | 1.1 KV grade PVC insulated armouredaluminium cable (ISI marked)                                    | GLOSTER/FINOLEX /HAVELLS / NICCO              |
| 11 | 1.1KV / 600V grade PVC insulated & sheathed / insulated copper wire & flexible cords (ISI marked). | FINOLEX/ HAVELLS                              |
| 12 | RCCB / ELCB / MCCB                                                                                 | LEGRAND/ SIEMENS / L&T / HAVELLE'S            |
| 13 | Switch fuse with rewirable fuses. (6A & 32A TPN)                                                   | HAVELL'S / STANDARD                           |
| 14 | Isolator                                                                                           | HAVELL'S / STANDARD                           |
| 15 | Changeover switch (on load type)                                                                   | KENBAR / HAVELL'S / ELCON / HPL /CONTROL &    |
| 16 | MCB distribution board                                                                             | LEGRAND/ SIEMENS / HAVELLE'S                  |
| 17 | Distribution fuse board with rewirable fuses                                                       | HAVELL'S / BPC / BOSMA                        |
| 18 | Miniature circuit breaker / MCB type isolator                                                      | LEGRAND / SIEMENS / HAVELLE'S                 |
| 19 | 6/16 Amp modular type switch / flushed type plug socket                                            | ANCHOR (Roma) / CRABTREE / MK                 |
| 20 | 6/16 Amp modular switch / socket, module plate & mounting M.S. / PVC box.                          | ANCHOR (Roma) / CRABTREE / MK                 |
| 21 | 16/25 Amp., 2 module electronic regulator                                                          | CPL (Genius) / ANCHOR (Roma) / CRABTREE       |
| 22 | Ceiling rose                                                                                       | KAY / EPP / ANCHOR / JJ                       |
| 23 | Holder                                                                                             | KAY / EPP / ANCHOR / JJ                       |
| 24 | Alarm bell                                                                                         | KHERAJ / GETCO                                |
| 25 | Black enamelled Steel conduits (conforming to IS in all respects)                                  | BEC / SUPREME / AKG                           |
| 26 | Compression type brass gland                                                                       | DOWELLS / JOHNSON / COMET                     |
| 27 | Cable termination socket                                                                           | DOWELL'S                                      |
| 28 | Light fitting & lamps                                                                              | PHILLIPS / HAVELLS / WIPRO/ CROMPTON          |
| 29 | Ceiling / Wall Mounted Fan                                                                         | CROMPTON / POLAR / KHAITAN / HAVELL'S         |
| 30 | Exhaust fan                                                                                        | CROMPTON / POLAR / KHAITAN / HAVELL'S         |
| 31 | Industrial type socket & top                                                                       | HAVELL'S / CROMPTON / LEGRAND                 |
| 32 | Telephone wire                                                                                     | FINOLEX / RRK/NATIONAL                        |
| 33 | Starters                                                                                           | NORTH SIEMENS / L & T / SCHNEIDER             |
| 34 | All other items not covered above                                                                  | As per sample approved by Employer/Consultant |



| LEGEND:- |                         |
|----------|-------------------------|
| ITEM     | DESCRIPTION             |
|          | 1200 MM CEILING FAN     |
|          | 400 MM WALL MOUNTED FAN |
|          | 225 MM EXHAUST FAN      |
|          | AIR CONDITIONER         |
|          | ELECTRICAL POINT        |

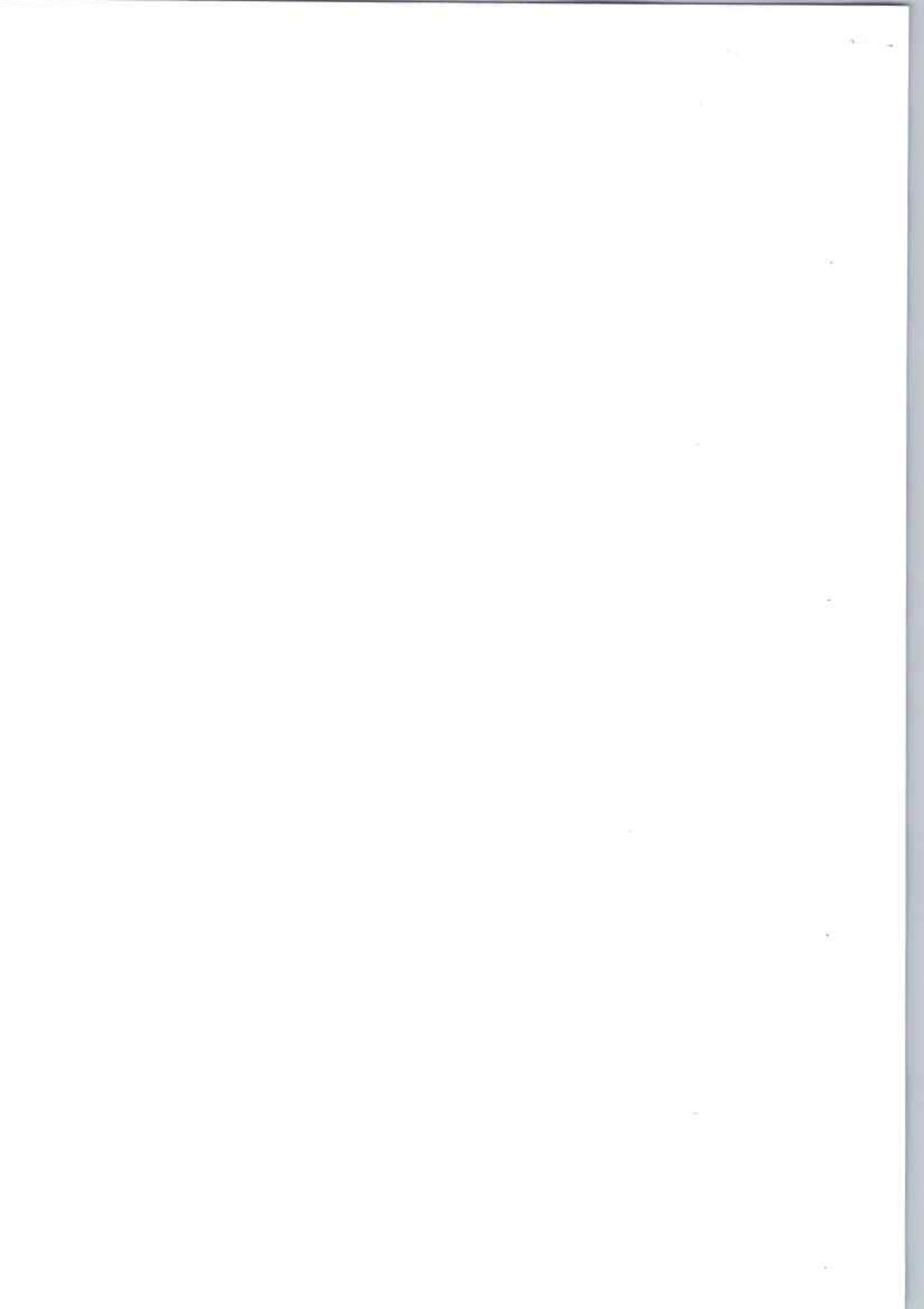
ELECTRIC LAYOUT PLAN FOR  
UCO BANK AT RISHRA BRANCH  
PROPOSED LAYOUT OF FIRST  
FLOOR (AREA-148.51 SQM.  
1598 SQFT.)



AR. UTPAL GANGULY  
B.ARCH, M.C.A., A.I.I.A  
REG. NO- CA/81/06482



CONSULTANT:-  
CONSULTING DEVELOPEMENT SERVICES  
17, KALI BARI LANE, JADAVPUR KOLKATA-700032  
M:- 9831864630/ 9330870022, MAIL:- [cds.ganguly@yahoo.com](mailto:cds.ganguly@yahoo.com)



UCO BANK  
General Administrative Department  
Zonal Office, Hooghly,  
21, New G.T Road.  
P.O-Uttarpara  
Dist.-Hooghly- 712258

TENDER DOCUMENT  
FOR  
ELECTRICAL & HVAC WORKS OF EXISTING RISHRA BRANCH (0621) & ATM

NAME OF THE TENDERER:

ADDRESS OF THE TENDERER:

DATE OF SUBMISSION OF TENDER:

CONSULTANT  
**CONSULTING DEVELOPMENT SERVICES**  
17, KALIBARI LANE, JADAVPUR  
KOLKATA - 700032  
MOBILE: 98316 64630 / 93308 70022  
e-mail: [cds.ganguly@yahoo.com](mailto:cds.ganguly@yahoo.com)

## GENERAL INDEX

### DESCRIPTION

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1. General Index
2. Notice Inviting Tender
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For the Guidance of Tenderers
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6. Model Rules for the Protection of Health and  
Sanitary Arrangements for Workers
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8. Appendix
9. Technical Specification
10. Articles of Agreement
11. Form of Tender
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14. Schedule of Works
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### **NOTICE INVITING TENDER**

Sealed tenders on item rate basis are invited by UCO Bank from **Empanelled** Contractors having Sound Technical and Financial capacity for ELECTRICAL & HVAC works of EXISTING RISHRA BRANCH & ATM

**A) Name of the Work:**

**ELECTRICAL & HVAC WORKS OF EXISTING RISHRA BRANCH & ATM**

**B) Location :**

UCO BANK, RISHRA Branch.

**C) Estimated Cost: Rs. 5,37,450.00 ( Excluding GSTN)**

**D) Time of Completion:**

**3 (THREE) WEEKS** from the fifteenth day after the date of written orders to commence the work or from the date of handing over of the site, whichever is later, (in accordance with the phasing, if any).

**E) Earnest Money Deposit (EMD) :**

The tender shall be accompanied by earnest money deposit of Rs. .... in the form of Crossed Demand bank draft/Pay order issued in favour of 'UCO BANK' payable at Siliguri without which tender will be liable to rejection. Earnest money deposit in respect of the successful tenderer will be retained.

**F) Initial Security Deposit (ISD):**

The successful tenderer to whom the contract is awarded will have to deposit as "initial security deposit" (ISD) a further sum to make up 2% of the value of the accepted tender including the Earnest Money. ISD may be submitted in the form of Demand Draft/Pay Order or Banker's cheque. The initial Security Deposit will have to be made within 14 days from the date of acceptance of tender, failing which the Bank at its discretion may revoke the letter of acceptance and forfeit the Earnest Money deposit furnished along with the tender.

**G) Retention Money:**

To be deducted from Progressive running bills @ 10 % of the gross value of the Running Bill.

**H) Release of Retention Money:**

100% after expiry of the Defect liability period. Retention money will not bear any interest.

**I) Date & Place of Submission of Tender:**

On **10/11/2025** up to 5.00 P.M. at UCO BANK General Administrative Department Zonal Office, Hooghly, 21 New GT Road. P.O-Uttarpara Dist.-Hooghly- 712258

**J) Tender addressed to:**

UCO BANK General Administrative Department Zonal Office, Hooghly, 21 New GT Road. P.O-Uttarpara Dist.-Hooghly- 712258

**K) Opening of Tender:**

On **11/11/2025** at UCO BANK General Administrative Department Zonal Office, Hooghly, 21 New GT Road. P.O-Uttarpara Dist.-Hooghly- 712258

**L) Mode of Submission of Tender:**

*The tender should be submitted at the UCO BANK General Administrative Department Zonal Office, Hooghly, 21 New GT Road. P.O-Uttarpara Dist.-Hooghly- 712258, in two separate sealed covers super scribed Part-I and Part-II containing the documents as under :-*

**Part-I :** *Covering letter, Earnest Money, PAN, GST Registration Certificate.*

**Part-II :** *The Tender Document comprising of General Conditions of Contract, Tender Notice, technical Specifications etc. along with Bill of Quantities duly priced (along with Tender drawing if applicable). Any condition stipulated in Part-II will not be accepted.*

**M) Clarification, if any to be obtained from:**

**CONSULTING DEVELOPMENT SERVICES**

17, Kalibari Lane, Jadavpur

Kolkata - 700032

Mobile : 98316 64630 / 93308 70022

e-mail : [cds.ganquly@yahoo.com](mailto:cds.ganquly@yahoo.com)

*The Bank reserves the right to accept or reject any or all the tenders received and to place order on one or more firms without assigning any reason whatsoever. The notification of award of contract will be made in writing to the successful tenderer by the Bank.*

**UCO BANK**

**GENERAL ADMINISTRATION DEPARTMENT**

**ZONAL OFFICE**

**HOOGHLY**

## GENERAL RULES AND INSTRUCTIONS FOR THE GUIDANCE TO TENDERERS

1. Tenders are hereby invited by UCO BANK General Administrative Department Zonal Office, Hooghly, at 21 New G.T Road. P.O-Uttarpara, Dist.-Hooghly- 712258 for **ELECTRICAL & HVAC works** at existing UCO Bank, RISHRA Branch & ATM Comprising of Civil works. Estimated cost of project is **Rs. 5,37,450.00 (Excluding GSTN)**

2. Contract documents consisting of the plans, complete specifications, the schedule of quantities of the above work to be done, and set of conditions of contract to be complied with by the person whose tenders may be accepted, which will also be found in the form of tenders, can be obtained from bank's website : [www.ucobank.com](http://www.ucobank.com)
3. The site for the work will be made available to the contractor in its present conditions. No space other than the above site can be made available to the contractor for site office, labour camps, storage etc.
4. Sealed tenders on the prescribed form are to be addressed & submitted to "**The Zonal Manager, UCO Bank, Zonal Office, General Administration Department, at Hooghly, West Bengal - 712258** upto 5.00 P.M on **10/11/2025** in two separate sealed covers superscripted with Part-I and Part-II containing the documents as under :-

**Part-I :** Covering letter, Earnest Money, PAN, GST Registration Certificate, bank's account details including IFS Code.

**Part-II :** The Tender Document comprising of General Conditions of Contract, Tender Notice, technical Specifications etc. along with Bill of Quantities, duly priced, ( along with Tender drawings if applicable). Any condition stipulated in Part-II will not be accepted.

The Part-I: will be opened on 11/11/2025 in presence of tenderers. The tenderers shall depute their authorized representative/s to be present at the time of opening of Part-I. Tender without earnest money in proper form will be rejected.

The Part -II : containing the Bill of Quantities, duly priced will be opened after verification of submissions made in Part-I, which might necessitate withdrawal of conditions and its financial impact on the tendered sum, if any.

5. Tenders are to be on the prescribed form which can be obtained from bank's website: [www.ucobank.com](http://www.ucobank.com) till 10/11/2025
6. The time allowed for the carrying out of the work will be **3 weeks** from the fifteenth day after the date of written orders to commence the work.
7. All corrections shall be attested by the initials of the tenderers with the seal of the firm. In case any discrepancy/ difference is found on checking between rates quoted by the contractor in words and figures or in the amount worked out by him, the following procedure shall be followed:
  - a) When there is a difference between the rates in figures and in words, the rate which corresponds to the amounts worked out by the contractor, shall be taken as correct.
  - b) When the amount of any item is not worked out by the contractor or it does not correspond with the rate written either in word, then the rate quoted by the contractors in word shall be taken as correct.
  - c) When the rate quoted by the contractor in figures and in word tallies but the amount is not worked correctly, rate quoted by the contractor shall be taken as correct and not the amount.

- d) Amendments as mentioned above shall be based on the tender marked "original" only.
8. When a contractor signs a tender in an Indian language the tendered amount and the total amount tendered should also be written in the same language. In the case of illiterate contractors the rates or the amount tendered should be attested by a witness.
  9. Earnest money, amounting **Rs. ....** in the crossed Demand Draft/Pay order/ Banker's cheque drawn in favour of "UCO Bank", payable at Hooghly must accompany each tender in Part-I.
  10. The contractor, whose tender is accepted, will be required to furnish by way of security deposit for the due fulfilment of his contract, such sum as detailed in clause No.22A of General conditions of contract. The EMD of the contractor, whose tender is accepted, shall be forfeited in full in the case he does not remit the Initial Security Deposit within the stipulated period or start the work by the stipulated date mentioned in the award letter.
  11. The acceptance of a tender will rest with the UCO Bank RISHRA. The Bank reserves to itself the authority to accept or reject any or all of the tenders received and to place order on one or more firms without the assignment of a reason. All tenders in which any of the prescribed conditions are not fulfilled or are incomplete in any respect are liable to be rejected. The bank reserves the right to accept the tender in full or in part and the tenderer shall have no claim for revision of rates or other conditions if his tender is accepted in parts.
  12. Canvassing in connection with tender is strictly prohibited and the tenders submitted by the contractors who resort to canvassing will be liable to rejection.
  13. All rates shall be quoted on the proper form of the tender alone.
  14. An item rate tender containing percentage below/above will be summarily rejected. However, where a tender voluntarily offers a rebate for payment within a stipulated period in Part-I, this may be considered.
  15. On acceptance of the tender, the name of the accredited representative(s) of the contractor who would be responsible for taking instructions from the Owner/ Architects shall be communicated to the owner.
  16. Special care should be taken to write the rates in figures as well as in words and the amounts in figures only, in such a way that interpolation is not possible. The total amount should be written both in figures and in words. In case of figures, the word "Rs." Should be written before the figure of rupees and word "P" after the decimal figures, e.g. Rs.2.00P.and in case of words, the word "Rupees" should be precede and the word "Paisa" should be written at the end, unless the rate is in whole rupees and followed by the words "only" it should invariably be up to two decimal places. While quoting the rate is in schedule quantities. The word "only" should be written closely following the amount and it should not be written in the next line.
  17. The Bank does not bind it-self to accept the lowest or any tender and reserves to itself the right of accepting the whole or any part of the tender and the tenderer shall be bound to perform the same at the rate quoted.

18. All taxes including CEES ,VAT, Work Contract Tax, or any other tax on material or on finished works in respect of this contract shall be payable by the contractor and the Bank will not entertain any claim whatsoever in this respect at any time. Rates should include all taxes.
19. The contractor shall give a list of his relatives working with the bank along with their designations and addresses.
20. No employee of the Bank is allowed to work as a contractor for a period of two years of his retirement from bank service, without the previous permission of the bank. This contract is liable to be cancelled if either the contractor or any of his employees found at any time to be such a person who had not obtained the permission of the Bank as aforesaid before submission of the tender or engagement in the contractor's service.
21. The tender for works shall remain open for acceptance for a period of 120 days from the date of opening of tenders. If any tenderer withdraws his tender before the said period, then the Bank shall be at liberty to forfeit Earnest money paid along with the tender.
22. The tender for the work shall not be witnessed by a contractor or contractors who himself / themselves has /have tendered for the same work. Failure to observe this condition would render tenders of the contractors tendering as well as witnessing the tender liable to summarily rejection.
23. It will be obligatory on the part of the tenderer to tender and sign the tender documents for all the component parts and that, after the work is awarded, he will have to enter into an agreement for each component with the component authority in the bank.
24. The tenderer, apart from being a component contractor must co-operate himself with agencies of the appropriate class who are eligible to tender for ( i ) Waterproofing work ( ii ) Electrical work (iii ) Tiles flooring work etc.

## **SPECIAL INSTRUCTIONS TO TENDERERS**

### **GENERAL**

The scope of work covers execution and completion of the **ELECTRICAL & HVAC works of existing UCO Bank, RISHRA Branch & ATM** in accordance with drawings and specifications prepared by and under the direction and to the satisfaction of the Consultant/ Employer.

**Contract:** The form of Contract shall be according to the Conditions of Contract. The following clauses shall be considered as an extension and not in limitation of obligation of the Contractor.

**Drawings:** Two copies of all drawings (if applicable), shall be furnished by the Consultant/ Bank, to the Contractor for his own use until the completion of the Contract, and shall be accessible at all reasonable times to the Consultant or their representatives. All-important drawings are to be mounted on boards and placed in racks and indexed.

**Dimensions:** Figured dimensions are in all cases to be accepted in preference to scaled sizes. Large scale details take precedence over small scale drawings. In case of any discrepancy the Contractor shall ask for clarification before proceeding with the work. The Contractor shall include in his rates for all the items listed in this section.

1. **Contractor to inspect site :** The Contractor shall visit and examine the construction site and satisfy himself at his own cost as to the nature of the existing roads or other means of communications, the extent and magnitude of the work and facilities for obtaining materials and shall obtain generally his own information. Any misunderstanding or incorrect information on any of these points or on the grounds of insufficient description, will not be allowed.

2. **Access to site:** The Contractor is to include in his rates for forming access to site, with all Temporary roads gangways required for the works.

3. **Setting out:** The Contractor shall set out the site in accordance with the plans. All grid/centre lines shall be pegged out to the satisfaction of the Consultant. The Contractor shall be responsible for the correctness of the lining out and any inaccuracies are to be rectified at his own expense. He will be responsible for taking levels of work at the site before setting out and recording them without any extra charge.

4. **Treasure grove:** Should any treasure fossils, minerals or work of art of antiquarian interest be found during carrying out the works, the Contractor shall give immediate notice to the Consultant /Bank of any such discovery and shall hand over such finds to the Employer.

5. **Access for inspection:** The Contractor is to provide at his own cost all times during the progress of the works and the maintenance period proper means of access, with ladders, gangways etc. and the necessary attendance to move and adapt as directed for the inspection of measurement of the works by the Consultant or their representatives.

6. **Attendance upon all trades :** The general Contractors shall be required to attend on all the tradesmen or sub-contractors appointed by the Employer for water supply and sanitary, electrical installation, lifts, air-conditioning, security, equipment, hardware, telephone and other specialist Contractors. The rates quoted shall be inclusive of all attendance and also allow the other Contractors, appointed by the Employer, use of his scaffolding and retain until such time the relevant sub-contract works are completed.

7. **Water supply:** Water shall be arranged in accordance with Clause 21(a) of general instructions to Contractor. The general Contractor shall allow the use of water for other works on the site done by other Contractors appointed by the Employer and the consumption charges shall be paid by each agency as appointed by the Consultant.

8. **Stores and watchmen:** The Contractor shall provide at his own cost for necessary stores of Adequate dimension for storage and protection of materials. All such stores shall be cleared away and the whole area left in good order on completion of the Contract to the satisfaction of the Consultant. All materials which are stored such as ply, wood, Laminates or any other matter shall be stacked in such a manner as to facilitate rapid and easy checking of quantities of such materials. The Contractor shall nominate a person who would take instruction from the Consultant/employer.

9. **Cost of transporting:** The Contractor shall allow at his cost for all transporting unloading, stacking and storing of supplies of goods and materials for this work on the site and in the places approved from time to time by the Consultant. The Contractor shall allow at his price for transport of all materials controlled or otherwise to the site.

10. **Office accessories and accommodation:** The Contractor shall also provide at his own expense office furniture with drawing accessories for the official use of the controller and at all times maintain in good working order necessary instruments at site to enable the Consultant/employer to check the lines and levels of the work.

11. **Materials workmanship & samples:** Materials shall be of approved quality and the best of their kind available and shall generally conform to relevant I.S. specifications. The Contractor shall order all the materials required for the execution of work as early as necessary and ensure that such materials are on site well ahead of requirement for use in the work. The work involved calls for high standard of workmanship combined with speed and to the entire satisfaction of the Consultant. Before ordering materials, the Contractor shall get the samples approved from the Consultant well in advance.

12. **Rates for non-tender items:** Rates of items not included in schedule of specification shall be settled as per current PWD schedule of rates if not available then to be settled as per variation clause of the condition of contract.

**Rates to include:** The rates quoted shall be for all heights and depths and for finished works, in any shape. The Contractor shall ascertain from other Contractors as directed by the Architects all particulars relating to their work with regard to the order of its execution and the position in which chases, holes and similar items will be required, before the work is taken in hand as no claims for extra will be allowed for cutting away work already executed in consequence of any neglect by the Contractors to ascertain these particulars beforehand.

13. **Testing of work and material:** The Contractors shall, if required by the Consultant/ employer, arrange to test materials and/or portions of the work at his own cost in order to prove their soundness and efficiency. If after any such test the work or portion of work is found in the opinion of the Consultant to be defective or unsound, the Contractor shall pull down and redo the same at his own cost, defective materials and the debris shall immediately be removed from the site.

14. **Foreman and Tradesmen:** All tradesmen shall be experienced men properly equipped with suitable tools for carrying out all the work of carpentry and joinery and other special trades in a first class manner and where the Consultant deem necessary, the Contractor shall provide any such tools, special or ordinary which are considered necessary for carrying out the work in a proper manner. All such tradesmen shall work under an experienced and properly trained Forman, who shall be capable of reading and understanding all drawings pertaining to this work.

15. **Work programme weekly progress report:** The Contractor shall prepare and submit to Consultant/employer for approval, a bar chart showing the programme of construction of various items, fitted within the period stipulated for completion, along with submission of the tender. The Contractor shall also furnish necessary particulars to the Consultant for compiling weekly progress reports in the form furnished by the Consultant/employer.

16. **Clearing of site:** The Contractor shall after completion of the work clear the site of all debris and left over material at his own expense to the entire satisfaction of the Consultant and municipal or other public authorities.

17. **Photographs:** The Contractor shall at his own expense supply to the Consultant with duplicate copies of large coloured photographs not less than 25 x 20 cm. (10" x 8") of the works taken from two approved portions of each building, at beginning of the work, at completion of work and at every important stage of construction without fail.

18. **Preparation of Premises for occupation and use on completion:** The whole of the work shall be thoroughly inspected by the Contractors and all deficiencies and defects put right. On completion of such inspection, the Contractor shall inform the Consultant in writing that he has finished the work and it is ready for the inspection of Consultant/employer.

19. **Vouchers:** The Contractors shall furnish the Architect with vouchers on request to prove that the materials are as specified and to indicate the rates at which the materials are purchased in order to without the rate analysis of tender and non-tender items which he may be called upon to carry out thereafter.

20. **Protection :** The Contractor shall properly cover up and protect all work throughout the duration of work and until completion, particularly masonry, mouldings, steps, or special floor finishes, staircases and balustrades, doors and window frames, plaster, angles, lighting and sanitary fittings, glass, paint work and all finishing at his cost till the same is handed over to the owner.

## **SAFETY CODE**

### **Scaffolds**

- i) Suitable scaffolds shall be provided for workmen for all works that cannot safely be done from the ground, or from solid construction except in the case of short duration work which can be done safely from ladders. When a ladder is used, it shall be rigid construction made either of good quality wood or steel. The steps shall have a minimum width of 450 mm and a maximum rise of 300 mm. suitable hand holds of good quality wood or steel shall be provided and the ladder shall be given an inclination not steeper than  $\frac{1}{4}$  to 1 (1/4 horizontal and 1 vertical).
- ii) Scaffolding or staging more than 4 m above the ground floor, swung or suspended from an overhead support or erected with stationary support shall have a guard rail properly bolted, braced or otherwise secured, at least 1 m above the floor or platform of such scaffolding or staging and extending along the entire length of the outside and ends thereof with only such openings as may be necessary for the delivery of materials. Such scaffolding or staging shall be so fastened as to prevent it from swaying from the building or structure
- iii) Working platforms, gangways and stairways shall be so constructed that they do not sag unduly or unequally and if the height of the platform, gangway or stairway is more than 4 m above ground level or floor level. Suitably fenced as described in (ii) above.
- iv) Every opening in the floor of a building or in a working platform shall be provided with suitable means to prevent the fall of persons or materials by providing suitable fencing or railing whose minimum height shall be 1 m.
- v) Safe means of access shall be provided to all working places. Every ladder shall be securely fixed. No portable single ladder shall be over 9 m in length while the width between side rails in rung ladder shall in no case, be less than 290 mm for ladder upto and including 3 m in length. For longer ladders this width shall be increased at least 20 mm for each additional metre of length.
- vi) A sketch of the ladders and scaffolds proposed to be used shall be prepared and approval of the Engineer obtained prior to construction.

### **OTHER SAFETY MEASURES**

- vii) All Personnel of the contractor working within the plant site shall be provided with safety helmets. All welders shall wear welding goggles while doing welding work and all metal workers shall be provided with safety gloves. Persons employed on metal cutting and grinding shall wear safety glasses.
- viii) Adequate precaution shall be taken to prevent danger from electrical equipment. No materials on any of the sites of work shall be so stacked or placed as to cause danger or inconvenience to any person or the public.

### **Excavation & Trenching**

- ix) All trenches, 1.25 m or more in depth shall at all times be supplied with at least one ladder for each 30 m in length or fraction thereof. The ladder shall be executed from bottoms of the trench to at least 1 m above the surface of the ground. Sides of trenches which are 1.5 m or more in depth shall be stepped back to give suitable slope or securely held by timber bracing so as to avoid the danger of sides collapsing. The excavated materials shall not be placed within 1.5 m of the edges of the trench or half of the depth bottom. Under no circumstances undermining or undercutting shall be done.

- x) The contractor shall take all measures on the site of the work to protect the public from accidents and shall be bound to bear the expenses of defence of every suit, action or other proceeding at law that may be brought by any persons for injury sustained owing to neglect of the above precautions and to pay any such persons or which may with the consent of the contractor, be paid to compromise any claim by any such person.

#### **Demolition**

- xi) Before any demolition work is commenced and also during the process of the work:
  - a) All roads open areas adjacent to the work site shall either be closed or suitably protected.
  - b) No electric cable or apparatus which is liable to be a source of danger over a cable or apparatus used by the operator shall remain electrically charged.
  - c) All practical steps shall be taken to prevent danger to persons employed from the risk of fire or explosion or flooding. No floors roof or other part of the building shall be so overloaded with debris or materials as to render it unsafe.

#### **Personal Safety Equipments**

- xii) All necessary personal safety equipment as considered adequate by the Engineer should be kept available for the use of the person employed on the site and maintain in a condition suitable for immediate use and the contractor should take adequate steps to ensure proper use of equipment by those concerned:
  - a) Workers employed on mixing asphaltic materials, cement and lime mortars shall be provided with protective footwear and protective goggles.
  - b) Those engaged in white washing and mixing or stacking of cement bags or any materials which are injurious to the eyes shall be provided with protective goggles.
  - c) Those engaged in welding works shall be provided with welder's protective eyesight lids.
  - d) Stone breakers shall be provided with protective goggles and protective clothing and seated at sufficiently safe intervals.
  - d) When workers are employed in sewers and manholes, which are in use, the contractor shall ensure that them an hole covers are ventilated at least for an hour before the workers are allowed to get in to manholes and the manholes so opened shall be cordoned off with suitable railing and provided with warning signals or boards to prevent accident to the public.
  - e) The contractor shall not employed with products containing lead in any lead painting the following precautions should be taken:
    - 1) No paint containing lead or lead products shall be used except in the form of paste or readymade paint.
    - 2) Suitable face make should be supplied for use by the workers when paint is applied in the form of spray or a surface having lead paint dry rubbed and scraped.
    - 3) Overalls shall facilities shall be provided to enable the working painters to wash during the cessation of work.
- xiii) When the work is done near any public place where there is risk of drowning all necessary equipment's should be provided and kept ready for use and all necessary steps taken for prompt rescue of any person in dander and adequate provision should be made for prompt first aid treatment of all injuries likely to be sustained during the course of the work.

### **Hoisting Machines**

- xiv) Use of hoisting machines and tackle including their attachments anchorage and supports shall conform to the following standards or conditions:
1. a) These shall be of good mechanical constructions sound material and adequate strength and free from patent defect and shall be kept in good repair and in good working order.
  - 1.b) Every rope used in hoisting or lowering materials or as means of suspension shall be of durable quality and adequate strength and free from patent defects.
  2. Every crane driver or hosting appliance operator shall be properly qualified and no person under the age of 21 years shall be in charge of any hoisting machine including any scaffolding which or give signals.
  3. In case of every hoisting machine and of every chain ring hook, shackle shovel and pulley block used in hoisting or as means of suspension the safe working load shall be ascertained by adequate means. Every hoisting machine and all gear referred to above shall be plainly marked with the safe working load. In case of a hoisting machine having a variable safe working load, each safe working load and the conditions under which it is applicable shall be clearly indicated. No part of any machine or any gear referred to above in this paragraph shall be loaded beyond the safe working load except for the purpose of testing.
  4. In case of departmental machines, the safe working load shall be notified by the Engineer. As regards contractor's machines, the contractor shall notify the safe working load of the machine to the Engineer whenever he brings any machinery to site of work and get it verified by the Engineer concerned.
- xv) Motors, gearing, transmission, electric wiring and other dangerous parts of hoisting appliances should be provided with efficient safeguards, hoisting appliances should provided with such means as will reduce to the minimum of the risk of any part of a suspended load becoming accidentally displaced. When workers are employed on electrical installations which are already energized, insulating mats, wearing apparel, such as gloves, sleeves and boots as may be necessary, should be provided. The workers should not wear any rings, watches and carry keys or other materials which are good conductors of electricity.
- xvi) All scaffolds, ladders and other safety devices mentioned or described herein shall be maintained in safe condition and no scaffold, ladder or equipment shall be altered or removed while it is in use. Adequate washing facilities should be provided at or near places of work.
- xvii) These safety provisions should be brought to the notice of all concerned by display on a notice board at a prominent place at work spot. The person responsible for compliance of the safety code shall be named therein by the contractor.
- xviii) To ensure effective enforcement of the rules and regulations relating to safety precaution the arrangements made by the contractor shall be open to inspection by the Labour Officer, Engineers of the Department or their representatives.
- xix) Notwithstanding the above clause from (i) to (xviii), there is nothing in these to exempt the contractor from the operations of any other Act or Rule in force in the Republic of India.

## **MODEL RULES FOR THE PROTECTION OF HEALTH AND SANITARY AGREEMENTS FOR WORKERS**

### **1. Application**

These rules shall apply to the **ELECTRICAL & HVAC works of existing UCO Bank, RISHRA Branch & ATM**

### **2. Definition**

- a) 'Work place' means a place at which at an average 50 workers are employed in connection with construction work.
- b) 'Large Work Place' means a place at which an average 500 or more workers are employed in connection with construction work.

### **3. First Aid**

- a) At every work place, there shall be maintained in readily accessible place first aid appliance including an adequate supply of sterilized dressings and sterilized cotton wool. The appliance shall be kept in good order and in large work place they shall be placed under the charge of a responsible person who shall be readily available during working hours.
- b) At large work place where hospital facilities are not available within easy distance of the work, first aid posts shall be established and be run by a trained compounder.
- c) Where large work places are remote from regular hospitals, an in-door ward shall be provided with one bed for every 250 employees.
- d) Where large work places are situated in cities, towns in their suburbs and no beds are considered necessary owing to the proximity of city or town hospitals, suitable transport shall be provided to facilitate removal of urgent cases to the hospitals. At other work places, some conveyance facilities, such as a caucuses shall be kept readily available to take injured person or persons suddenly taken ill to the nearest hospital.

### **4. Drinking Water**

- a) In every work place, there shall be provided and maintained at suitable places easily accessible to labour sufficient supply of cold water fit for drinking.
- b) Where drinking water is obtained from an intermittent public water supply, each work place shall be provided with storage where such drinking water shall be stored.
- c) Every water supply of storage shall be at a distance of not less than 15 m from any latrine, drain or other source of pollution. Where water has to be drawn from an existing well which is within the proximity of latrine, drain or any other source of pollution, the well shall be properly chlorinated before water is drawn from it for drinking. All such wells shall be dust and waterproof.
- d) A reliable pump shall be fitted to each covered well, the trap door shall be kept locked and opened only for cleaning or inspection which shall be done at least once a month.

### **5. Washing & Bathing Places**

- a) Adequate washing and bathing places shall be provided, separately for men and women.
- b) Such place shall be kept in clean and drained condition.

## 6. Scale of accommodation in latrines & urinals

The shall be provided within the precincts of every work place latrines and urinals in an accessible place, and the accommodation, separately for each of them shall not be less than the following scale:

|                                                                    | No. of Seats |
|--------------------------------------------------------------------|--------------|
| a) Where the number of persons does not exceed 50                  | 2            |
| b) Where the number of persons exceeds 50, but dose not exceed 100 | 3            |
| c) For every additional 100                                        | 3 per 100    |

In particular cases, the Engineer shall have the powers to vary the scale where necessary.

## 7. Latrines & Urinals for Women

If women are employed, separate latrines and urinals screened from those for men and marked in the vernacular in conspicuous letters 'For Women only' shall be provided on the scale laid in Rule 6. Those for men shall be similar marked 'For Women only'. A poster showing the figure of a man or a woman shall also be exhibited at the entrance of latrines for the urinals and latrines.

## 8. Latrines & Urinals

All latrines shall be provided with septic tanks or leach pits in case of small units. All the latrine shall be kept in good sanitary condition.

## 9. Construction of Latrine

The inside walls shall be constructed of masonry or some suitable heat resisting non-absorbent materials and shall be cement washed inside and outside at least once a year. The dates of cement washing shall be noted in a register maintained for this purpose and kept available for inspection. Latrines will not be of a standard lower than bore-hole system and should have thatched roofs.

## 10. Disposal of excreta

Unless otherwise arranged for by the local sanitary authority, arrangements for proper disposal of excreta shall be made by septic tank or leach pit duly approved by the Engineer and in conformity with the requirements of local public health authorities.

## 11. Provision of shelter during rest

At every work place there shall be provided free of cost, two suitable sheds, one for meals and the other for rest separately for men and women for the use of labour. The height of the shelter shall not be less than 3.5 m for the floor level, to the rest part of the roof. The sheds should be roofed with at least thatch and mud flooring will be provided with wall around not less than 750 mm. sheds should be kept clean and the space should be on the basis of at least 0.50 square metre per head.

## 12. Canteen

A cooked food canteen on a moderate scale shall be provided for the benefit of workers whenever it is considered expedient.

## GENERAL CONDITION OF CONTRACT

Except where provided for in the description of the individual items in the schedule of quantities and in the specifications and conditions laid down hereinafter and in the Drawings, the work shall be carried out as per standard specifications and under the direction of Owner /Architects.

### **1. INTERPRETATION**

In construing these conditions, the specifications, the schedule of quantities, tender and agreement, the following word shall have the meaning herein assigned to them except where the subject to context otherwise requires:

- i) Owner/Employer: The term Owner/Employer shall denote UCO Bank, or any of its employees representative authorized on their behalf.
- ii) Architect/Consultant: The term Architect/ Consultant shall mean **Consulting Development Services** at 17, Kalibari Lane, Jadavpur, Kolkata-700032, or in the event of his/their ceasing to be the Architects for the purpose of this contract such other person/s the owner shall nominate for the purpose.
- iii) Contractor: The term contractor shall mean the individual or company whether incorporated or not, undertaking the **ELECTRICAL & HVAC works of existing UCO Bank, RISHRA Branch & ATM** and shall include legal representative of such firm or company as may be and permitted assign of such individual of firm or company and successors.
- iv) Site: The site shall mean the site where the works are to be executed as shown within boundary in red border on the site plan including any building and erections thereon allotted by the owner for the contractor's use.
- v) Site Engineer/PMC: The site Engineer/PMC shall be appointed by the owner. The owner may also determine the number of site Engineer and the supporting staff at site office to assist them and also whether the site Engineer shall be temporary or permanent. Wherever PMC is engaged, site Engineer, if any, will work in close condition with PMC.
- vi) Drawings: The work is to be carried out in accordance with drawings, specifications, the schedule of quantities and any further Drawings which may be given by the employer during execution of the work. A set of drawings is provided with the tender to give the general idea about the total construction. All drawings relating work given to the contractor together with a copy of schedule of quantities are to be kept at site and the Owner/Architects shall be given access to such drawings or schedule of quantities whenever necessary.

In case any detailed drawings are necessary contractor shall prepare such detailed drawings and / or dimensional sketches therefore and have it confirmed by the Owner/Architects prior to taking up such work.

The contractor shall ask in writing for all clarifications on matters occurring anywhere in drawings, specification and schedule of quantities or to additional instructions at least 10 days ahead from the time it is required for implementation so that the owner may be able to give decision thereon

- vii) The "work" shall mean the work or works to be executed or done under this contract.
- viii) "Act of Insolvency" shall mean any act as such as defined by the presidency Towns Insolvency Act or in provincial Insolvency Act or any amending statutes.
- ix) "The schedule of Quantities" shall mean the schedule of quantities as specified and forming part of this contract.

- x) "Priced schedule of Quantities" shall mean the schedule of quantities duly priced with the accepted quoted rates of the contractor.
- xi) "Notice in writing" or "written notice" shall mean a notice written, typed or in printed characters sent (unless delivered personally or otherwise proved to have been received) by registered office address and shall be deemed to have been received when in the ordinary course of post it would have been delivered.

## 2. SCOPE

The work consists of **ELECTRICAL & HVAC works of existing UCO Bank, RISHRA Branch & ATM** in accordance with the "drawings" and "schedule of quantities". The civil works are within the scope of this tender. It includes furnishing all material, labour, tools and equipment and management necessary for the incidental to the construction and completion of the work. All work, during its progress and upon completion, shall conform to the lines, elevations and grades as shown on the drawings furnished by the owner/architects. Should any detail essential for efficient completion of the work be omitted from the drawings and specifications it shall be the responsibility of the contractor to inform the Owner/Architects and to furnish and install such detail with work the same will be acceptable and ready for use.

Owner/Architects may in their absolute discretion issue further drawings and/or written instructions, details, directions and explanations, which are, hereafter collectively referred to as "the owner/architects instructions in regard to:

- a) The variation or modification of the design quality or quantity of works or the addition or omission or substitution of any work.
- b) Any discrepancy in the drawings or between the schedule of quantities and/or specification.
- c) The removal from the site of any defective material brought thereon by the contractor and the substitution of any other material thereof.
- d) The demolition removal and /or re-execution of any work executed by the contractor/s.
- e) The dismissal from the work of any person employed thereupon.
- f) The opening up for inspection of any work covered up.
- g) The rectification and making good of any defects under clauses hereinafter mentioned and those arising during the maintenance period (retention period).

The contractor shall forthwith comply with and duly execute any work comprised in such Owner's/Architects instructions, provided always that verbal instructions, directions and explanations given to the contractor's or his representative upon the work by the owner /Architects shall involving variation be confirmed in writing to the contractor's within seven days. No works for which rates are not specifically mentioned in the priced schedule of quantities shall be taken up without written permission of the Owner / Architects. Rates of items not mentioned in the priced schedule of quantities shall be fixed by the owner in construction with the Architects as provided in clause "variation".

Regarding all factory made products for which ISI marked products available, only products bearing ISI marking shall be used in the work. Other products should be supplied as per the brand name mentioned in the Technical Specifications.

## 3. DETAILED DRAWINGS AND INSTRUCTIONS

The Owner through its Architects shall furnish with reasonable promptness additional instructions by means of drawings or otherwise necessary for the proper execution of the work. All such drawings and instructions shall be consistent with the Contract Documents, true developments thereof, and reasonably inferable there from.

The work shall be executed in conformity therewith and the contractor shall not work without proper drawings and instructions. Immediately after receipt of the work order of the contract the contractor shall prepare a progress schedule and submit the same to the Owner through the Architects for approval which shall indicate the dates for the starting and completion of the various stages of constructions.

#### **4. COPIES FURNISHED**

The contractor on the signing hereof shall be furnished by the Owner through its Architect free of charge with a copy of the priced schedule of quantities/rates, two copies of each of the said drawings and one copy of specifications and two copies of all further drawings issued during the progress of the work. Any further copies of such drawings required by the contractor shall be supplied on payment of the charges thereof by the contractor.

#### **5. OWNERSHIP OF DRAWING**

All drawings, specification and copies thereof furnished by the Owner through its Architects are the Property of the owner. They are not to be used on other work, and with the exception of the signed Contract set, are to be returned to the Owner on request at the completion of the work.

#### **6. ROYALTIES & PATENTS**

The contractor shall pay all royalties and license fees. He shall defend all suits or claims for infringement of any patent rights and shall save the owner harmless from loss on account thereof.

#### **7. INSPECTION OF WORK**

The proposed work covered under this tender during its progress can also be inspected by the chief Technical Examiner/Technical Examiner or by an officer of the vigilance cell of the authority on behalf of the Owner/Architects.

#### **8. SUPERINTENDENCE SUPERVISION**

The contractor shall give all necessary personal superintendence during the execution of the work and this obligation and liability will continue until expiration of the 'Maintenance period' (Retention period). The contractor shall also during the whole time of work when in progress employ a competent representative who shall be constantly in attendance at the site while his means are at work. Any directions, explanations, instructions or notices given by the Owner or the Architects to such representative shall be deemed to have been given and duly served on the contractor.

#### **9. FAILURE BY CONTRACTORS TO COMPLY WITH OWNER'S/ ARCHITECT'S INSTRUCTIONS**

If the contractor after receipt of written notice from the owner and/or the Architects requiring compliance within ten days fails to comply with such further drawings and/ or Owner's/Architect's instructions, the owner through the Architect or other person, may employ other person to execute any such work whatsoever that may be necessary to give effect thereto and pay all cost incurred in connection therewith and same shall be recoverable from the contractor by the Owner on the certificate of the Architect as a debt or shall have right to deduct same from any money due or to become due to the contractor.

#### **10. TENDERER SHALL VISIT THE SITE**

Intending tenderer shall visit the site and make himself thoroughly acquainted with the local site condition, nature and requirements of the works, facilities of transport condition, effective labour and materials, access and storage for materials and removal of rubbish. The tenderer shall provide in their tender for cost of carriage, freight and other charges as also for any special difficulties and including police restriction for transport etc. for proper execution of work as indicated in the drawings. The successful tenderer will not be entitled on to any claim of compensation for difficulties faced or losses incurred on account of any site condition which existed before the commencement of the work or which in the opinion of the Owner/Architects might be deemed to have reasonably been inferred to be so existing before commencement of work.

## 11. TENDERS

The entire set of tender paper issued to the tenderer should be submitted fully priced and also signed on the last page together with initials on every page. Initial/signature will indicate the acceptance of the tender papers by the tenderer.

The schedule of quantities shall be filled in as follows:

- i) The 'rate' column to be legibly filled in ink in both English figures and English words.
- ii) Amount column to be filled in for each item and the amount for each sub head as detailed in the "Schedule of Quantities".
- iii) All corrections are to be initialled.
- iv) The "Rate column" for alternative items shall be filled up.
- v) The "Amount" column for alternative items of which the quantities are not mentioned shall not be filled up.
- vi) In case of any errors/omissions in the quote rates, the rates given in the tender marked "original" shall be taken as correct rates.
- vii) When there is difference between the rates in figures and in words the rate which correspond to the amounts worked out by the contractor shall be taken as correct.

No modifications, writing or corrections can be made in the tender papers by the tenderer, but may at his option offer his comments or modifications in a separate sheet of paper attached to the original tender papers. The Owner reserves the right to reject the lowest or any tender and also to discharge any or all the tenders for each section or to split up and distribute any item of work to any specialist firm or firms, without assigning any reason. The tenderers should note that the tender is strictly on the item rate basis and their attention is drawn to the fact that the rates for each and every item should be correct, workable and self-supporting. If called upon by the Owner /Architects detailed analysis of any or shall the rates shall be submitted. Owner/Architects shall not be bound to recognize the contractor's analysis. The work will be paid for as "measured work" on the basis of actual work done. All items of work described in the schedule of quantities are to be deemed and paid as complete works in all respect and details including preparatory and finishing work involved, directly, related to personally detectable from the drawings, specifications and schedule of quantities and no further extra charges will be allowed in this connection. In the case of lump-sum charges in the tender in respect of any item of works, the payment of such items of work will be made for the actual work done on the basis of lump-sum charges as will be assessed to be payable by the Owner/Architects. The owner has power to add to omit from any work as shown in drawings or described in specifications or included in schedule of quantities and intimate the same in writing but no addition, omission or variation shall be made by the contractor without authorization from the Owner. No variation shall vitiate the contract.

The tenderer shall note that his tender shall remain open for consideration for a period of 120 days from the date of opening of the tender.

## 12. SHCHEDULE FOR COMMENCEMENT OF WORK

The contractor shall submit a time and progress chart in a form approved by the owner through its Architects within fifteen days from the date of issue of work order or the date on which the contractor is instructed to take possession of the site, whichever is later.

During the period of Construction, the contractors shall maintain proportionate progress on the basis of the Programme Chart submitted by the Contractor immediately before the commencement of the work and agreed by the Employer/Consultants. This Programme chart shall clearly indicate the completion of project. The contractors shall also include planning for procurement of scarce material well in advance and reflect the same in the Programme chart so that there is no delay in the completion of the project. The Programme Chart shall have to be updated at regular intervals and modified programme shall be submitted to the Architects/Owner for approval.

### **13. CO-OPERATION**

The contractor will be required to consult and co-operation with other contractors whose work may be affected by the work under this contract.

### **14. TREASURE TROVE ETC.**

Any treasure trove, coin or object antique which may be found on the site shall be the property of the Owner and shall be handed over to the Owner.

### **15. PERMITS AND LICENSES**

Permits and licenses for release of materials which are under Government control will be arranged by the contractor. The owner will render necessary assistance, sign any forms or applications that may be necessary.

### **16. GOVERNMENT AND LOCAL RULES**

The contractor shall conform to the provisions of all local Bye-laws and Acts relating to the work and to the Regulations etc. of the Government and Local Authorities and of any company with whose system the structure is proposed to be connected. The contractor shall give all notices required by said Act, Rules, Regulations and Bye-laws etc. and pay all fees payable to such authority/authorities for execution of the work involved. The cost, if any, shall be deemed to have been include in his quoted rates, taking into account all liabilities for licences, fees for footpath encroachment and restorations etc. and shall indemnify the owner against such liabilities and shall defend all actions arising from such claims o liabilities.

### **17. TAXES AND DUTIES**

The tenderers must include in their tender prices quoted for all duties royalties, cess and sales tax or any other taxes or local charges if applicable. The rates shall also include prevailing sales tax on work contract as per State Government norms. No extra claim on this account will in any case be entertained.

### **18. POSSESSION PRIOR TO COMPLETION**

The owner shall have the right to take possession of or use any completed or partially completed part of the work. Such possession or use shall not be an acceptance of any work not completed in accordance with the contract Agreement.

### **19. EXCEPTED MATTERS**

If the dispute or differences pertain to the undernoted matters the decision in writing of the officer designated in and signing the contract documents shall be final, conclusive and binding on the parties.

- i) Instructions.
- ii) Transactions with Local Authorities.
- iii) Proof of quality of materials.
- iv) Assigning or under relating of the contract.
- v) Certificate as to the causes of delay on the part of the contractor and justifying extension of time.
- vi) Rectifying of defects pointed out during the Defects Liability period.
- vii) Notice to the contractor to the effect that he is not proceeding with due diligence.
- viii) Certificate that the contractor has abandoned the contract.
- ix) Notice of determination of the contract by the Employer.

### **20. QUANTITY OF WORK TO BE EXCECUTED**

The quantities shown in the schedule of quantities are intended to cover the entire new structure indicated in the drawings but the owner reserves the right to execute only a part or the whole or

any excess thereof without assigning any reason therefore. Variation in the value is however not expected to be more than +\_ 25%.

## **21. OTHER PERSON ENGAGED BY THE OWNER**

The owner reserves the right to execute any part of the work included in this contract by other Agency or person and contractor shall allow all reasonable facilities and use of his scaffolding for the execution of such work. The main contractor shall extend all co-operation in this regard.

## **22. A. EARNEST MONEY AND SECURITY DEPOSIT**

The tenderer will have to deposit an amount of ..... in the form of Demand Draft/Pay Order /Banker's Cheque drawn in favour of UCO Bank at the time of submission of tender as an Earnest Money. The owner is not liable to pay any interest on the Earnest Money. The Earnest Money of the unsuccessful tenderers will be refunded without any interest soon after the decision to award the work is taken or after the expiry of the validity period of the tender.

The successful tenderer to whom the contract is awarded will have to deposit as "initial security deposit" (ISD) a further sum to make up 2% of the value of the accepted tender including the Earnest Money. ISD may be submitted in the form of Demand Draft/Pay Order. The Initial Security Deposit will have to be made within 14 days from the date of acceptance of tender, failing which the owner at his discretion may revoke the letter of acceptance and forfeit the Earnest Money deposit furnished along with the tender.

Apart from the initial security deposit made as above, retention money shall be deducted from progressive running bills @ 8% of the gross value of each running bill until the security deposit, i.e. the initial security deposit plus the retention money equals:

- a) 10% on the first Rupees one lakh of the cost of work;
- b) 7.5% on the next Rupees one lakh of the cost of work;
- c) 5% on the balance executed value of work.

Once the Contractor has completed the total work, the Contractor should remove his materials, equipments, labour force, temporary sheds, stores etc. from the site, and then only, virtual completion certificate shall be issued by the Architect/Owner. 100% of the retention amount shall be refunded 14 (fourteen) days after the end of defects liability period provided he has satisfactorily carried out all the work and attended to all defects in accordance with the conditions of the contract. However, the retention money will not be refunded to the contractor even after completion of defect liability period, in case observation of Chief Technical Examiner of C.V.C. is not cleared. No interest is payable on retention money. Further if some dues to the owner from the contractor(s) have still to be recovered the owner reserves the right to withhold payment of so much of the retention money as in his opinion represents the cost of the same.

## **22. B. PERFORMANCE SECURITY**

Within 30 days of receipt of the letter of award the successful tenderer shall furnish to UCO Bank performance security for an amount of 5% (five percent) of the contract price in the shape of Demand Draft or pay order or Bank Guarantee from a Nationalised or Foreign Bank acceptable to the employer. Failure of the successful tenderer to furnish the performance security shall constitute sufficient grounds for the annulment of the award and forfeiture of Initial Security Deposit. In this event the employer may make the award to other tenderer according to the position prevailing at the appropriate time. Failure to complete work as per agreement performance security would be forfeited and no claim in this regard will be entertained by Bank.

## **23. CONTRACTOR TO PROVIDE EVERYTHING NECESSARY**

The contractor shall provide everything necessary for the proper execution of the work according to the intent and meaning of the drawings, schedule of quantities and specifications taken together

whether the same may or may not be particularly shown or described therein provided that the same can reasonably be inferred there from and if the contractor finds any discrepancies therein he shall immediately and in writing, refer the same to the Owner/Architects whose decision shall be final and binding. The contractor shall provide himself for ground and fresh water for carrying out of the work at his own cost. The owner shall on no account be responsible for the expenses incurred by the contractor for hired ground or fresh water obtained from elsewhere.

The rates quoted against individual items will be inclusive of everything necessary to complete the said items of work within the contemplation of the contract, and beyond the unit price no extra payment will be allowed for incidental or contingent work, labour and/or materials inclusive of all taxes and duties whatsoever except for specific items, if any, stipulated in the tender documents.

The contractor shall supply, fix and maintain at his own cost, for the execution of any work, all tools tackles, machineries and equipment's and all the necessary centring scaffolding, staging, planking, timbering, strutting, showing, pumping, fencing, boarding, watching and lighting by night as well as by day required not only for the proper execution and protection of the said work but also for the protection of the public and safety of any adjacent roads, streets, walls, house, buildings, strutting, shoring etc. as occasion shall be required or when ordered so to do and shall fully reinstate and make good all matters and things disturbed during the execution of works to the satisfaction of the Owner/Architects.

The contractor shall also provide such temporary road on the site as may be necessary for the proper performance of the contract and for his own convenience but not otherwise. Upon completion, such roads shall be broken up and levelled where so required by the drawings unless the owner shall otherwise direct.

The contractor shall at all times give access to workers employed by the owner or any men employed on the building and to provide such parties with proper sufficient and if required, special scaffolding, hoists and ladders and provide them with water and lighting and leave or make any holes, grooves etc. in any work, where directed by the owner as may be required to enable such workmen to lay or fix pipes, electrical wiring, special fittings etc. the quoted rates of the tenderers shall accordingly include all these above mentioned contingent works.

#### **24. TIME OF COMPLETION EXTENSION OF TIME & PROGRESS CHART**

24.1 Time of completion: The entire work is to be completed in all respects within the stipulated period. The work shall deemed to be commenced within fourteen days from the date of acceptance letter or date of handing over of site, whichever is earlier. Time is the essence of the contract and shall be strictly observed by the contractor. The work shall not be considered as complete until the Owner/Architects have certified in writing that this has been completed and the Defects Liability Period shall commence from the date of such certificate.

24.2 Extension of Time: If in the opinion of the Owner/Architects the works be delayed (a) by reason of any exceptionally inclement weather, or (b) by reason of instructions from the owner in consequence of proceedings taken or threatened by or disputes, with adjoining or neighboring owners or (c) by the works, or delay of other contractors or tradesmen engaged or nominated by the owner and not referred to in the specification or (d) by reason of authorized extra and additions or (e) by reason of any combination of workmen or strikes or lock-out affecting any of the building or trades or (f) from other causes which the owner may consider are beyond the control of the contractor, the owner at the completion of the time allowed for the contract shall make fair and reasonable extension of time for completion in the respect therefore. In the event of the owner failing to give possession of the site upon the day specified above the time of completion shall be extended suitably.

In case of such strikes or lockouts, as are referred to above, the contractor shall, immediately give the owner, written notice thereof. Nevertheless, the contractor shall use his best endeavours to prevent delay and shall do all that may be reasonably required, to the satisfaction of the owner to proceed with the works and on his doing so that it will be ground of consideration by the owner for an extension of time as above provided. The decision of the owner and to the period to be allowed

• for an extension of time for completion hereunder (which decision shall be final and binding on the contractor) shall be promulgated at the conclusion of such strike or lock-out and the owner shall then, in the event of an extension being granted, determine and declare the final completion date. The provision in clause 61 with respect to payment of liquidated damages shall, in such case, be read and construed as if the extended date fixed by the owner were substituted for and the damage shall be deducted accordingly.

24.3 Progress of work: During the period of construction the contractor shall maintain proportionate progress on the basis of a programme chart submitted by the contractor immediately before commencement of work and agreed to by the Owner/Architects. Contractor should also include planning for procurement of scarce material well in advance and reflect the same in the programme chart so that there is no delay in completion of the project.

## **25. TOOLS, STORAGE OF MATERIALS, PROTECTIVE WORKS AND SITE OFFICE REQUIREMENTS**

• The contractor shall provide, fix up and maintain in an approved position proper office accommodation for the contractor's representative and staff which offices shall be open at all reasonable hours to receive instruction notices or communications and clear away on completion of the work and make good all work disturbed.

All drawings maintained on the site are to be carefully mounted on boards of appropriate size and Covered with a coat of approved varnish. They are to be protected from ravages of termites, ants, and other insects.

The contractor shall provide at his own cost all artificial light required for the work and to enable other contractor and sub-contractors to complete the work within the specified time.

The contractor shall provide a suitable temporary hut for the watchmen and clear away the same when no longer required and to provide all necessary attendance, lights etc required.

The contractor shall arrange for temporary latrines for the use of workers and filed staff and keep the same in a clean and sanitary condition to the satisfaction of the public health authorities and shall cause such latrines and soil to be cleared away whenever necessary and shall make good all the works disturbed by this convenience.

• Every precaution shall be taken by the contractor to prevent the breeding of mosquitoes on the work during the construction, and all receptacles, cistern, water tanks etc. used for the storage of water must be suitably protected against breeding of mosquitoes. The contractor shall indemnify the owner against any breach of rules in respect of anti-malarial measures.

The contractor shall not fix or place any placards or advertisement of any description or permit the Same to be fixed or placed or upon any boarding gantry, building structure other than those approved by the owner.

Protective Measures: The contractor from time to time of being placed in possession of the site must make suitable arrangements for watching, lighting and protecting the work, the site and surrounding property by day, by night, on Sundays and other holidays.

Contractor shall indemnify the owner against any possible damage to the building, roads, or members of the public in course of execution of the work.

• The contractor shall provide necessary temporary enclosures, gates, entrances etc. for the protection of the work and materials and for altering and adopting the same as may be required and removing on completion of the works and making good all works disturbed.

**Storage of Materials:** The contractor shall provide and maintain proper sheds for the proper storage and adequate protection of materials etc. and other work that may be executed on the site including the tools and materials of nominated sub-contractors and remove same on completion.

**Tools:** Theodolite, levels, prismatic compass, chain, steel and metallic tapes and all other surveying instruments found necessary on the works shall be provided by the contractor for the due performance of this contract as instructed by the site Engineer.

All measuring tapes shall be of steel and suitable scaffolding and ladders that may be required for safely taking measurement and shall be supplied by the contractor.

The mistries and the supervisors on the works shall carry with them always a one metre or two metre steel tape, a measuring tape of 30 metres, a spirit level, a plumb bob and a square and shall check the work to see that the work is being done according to the drawing and specifications. The site engineer will use any or all measuring instruments or tools belonging to the contractors as he chooses for checking the works executed or being executed on the contract.

The contractor should over in his rates for making provisions for all reasonable facilities for the use of his scaffolding, tools and plant etc. by nominated sub-contractors for their work.

## **26. NOTICE AND PATENTS OF APPROPRIATE AUTHORITY AND OWNER**

The contractor shall conform to the provisions of any Acts of the Legislature relating to the work, and to the Regulations and Bye-laws of any authorities, and/or any water, lighting and other companies, and/or authorities with whose system the structures were proposed to have connection and shall before making any variation from the drawings or specification that may be associated to so conform, give the Owner/Architects written notices specifying the variations proposed to be made and the reason for making them and apply for instruction thereon. The Owner/Architects on receipt of such intimation, shall give a decision within a reasonable time.

The contractor/s shall arrange to give all notices required for by the said Acts, Regulations or Bye-laws to be given to any authority and to pay to such authority or to any public officer all fees that may be properly chargeable in respect of the work and lodge the receipts with the owner.

The contractor shall indemnify the owner against all claims in respect of patent rights, royalties, damages to buildings, roads or members of public in course of execution of work and shall defend allocations arising from such claims and shall keep the Owner saved harmless and indemnified all respects from such actions, costs and expenses.

## **27. CLEARING SITE AND SETTING OUT WORKS**

The site shown on the plan shall be cleared of all obstructions, loose stone, and materials rubbish of all kinds. All holes or hollows whether originally existing or produced by removal of loose stone or materials shall be carefully filled up with earth well rammed and leveled off as directed at his own cost.

The contractor shall set out the works and shall be responsible for the true and perfect setting out of the work and for the correctness of the positions, levels, dimensions and alignment of all parts thereof. If at any time, any error shall appear during the progress of any part of the work irrespective of the fact that the layout had been approved by the Owner /Architects, the contractor shall at his own expenses rectify such error, if called upon to the satisfaction of the owner. The contractor shall further set out the works to the alternative positions at the site until one is finally approved and the rates quoted in his tender should include for this and no extra on this account will be entertained.

## **28. CONTRACTOR IMMEDIATELY TO REMOVE ALL OFFENSIVE MATTERS**

All soil, filth or other matters of any offensive nature taken out of any trench, sewer, drain, cesspool or other place shall not be deposited on the surface but shall be at once carted away by the contractor to place provided by him. The contractor shall keep the foundations and work free

from water and shall provide and maintain at his own expenses electrically or other power driven pumps and other plants to the satisfaction of the owner for the purpose, until the building is handed over to the owner. The contractor shall arrange for the disposal of the water so accumulated to the satisfaction of the owner and local authority and no claims will be entertained afterwards if he does not include in his rates for the purpose.

## **29. ACCESS**

Any authorized representative of the owner shall at all reasonable times have free access to the work and/or to the workshops, factories or other places where materials are being prepared or constructed for the work and also to any place where the materials are lying or from where they are being obtained, and the contractor shall give every facility to the owner or their representative necessary for inspection and examination and the owner no person shall be allowed at any time without the written permission of the owner.

## **30. MATERIALS, WORKMANSHIP, SAMPLES, TESTING OF MATERIALS**

All the works specified and provided for in the specifications or which may be required to be done in order to perform and complete any part thereof shall be executed in the best and most workman like manner with materials of the best and approved quality of the respective kinds in accordance with the particulars contained in and implied by the specifications and as represented by the drawings or according to such other additional particulars, and instructions as may from time to time be given by the Owner /Architects during the execution of the work, and to his entire satisfactions.

If required by the owner/Architects the contractor shall have to carry out tests on materials and workmanship in approved materials testing laboratories or as prescribed by the Owner/Architects at his own cost to prove that the materials etc., under test conform to the relevant I.S.I. standards or as specified in the specifications. The necessary charges for preparation of mould (in case of concrete cube) transporting, testing etc., shall have to be borne by the contractor. No extra payment on this account should in any case be entertained.

All the materials (except where otherwise described) stores and equipment required for the full performance of the work under the contract must be provided through normal channels and must include charge for import duties, sales tax, octroi and other charges and must be the best of their kind available and the contractor/s must be entirely responsible for the proper add efficient carrying out of the work. The work must be done in the best working manner. Samples of all material to be used must be submitted written approval from Owner/Architects must be obtained prior to placement of order.

During the inclement weather the contractor shall suspend concreting and plastering for such time as the Owner/Architects may direct and shall protect from injury all work when in course of execution. Any damage (during constructions) to any part of the work for any reason due to rain, storm, or neglect of contractor shall be rectified by the contractor in an approved manner at no extra cost.

Should the work be suspended by reason of rain, strike, lock-outs or any other cause, the contractor shall take all precautions necessary for the protection of work and at his own expenses shall make good any damage arising from any of these causes.

The contractor shall cover up and protect from damage, from any cause, all new work and supply all temporary/doors, protection to windows, and any other requisite protection for the execution of the work whether by himself or special tradesmen or nominated sub-contractor and any damage caused must be made good by the contractor at his own expenses.

## **31. REMOVAL OF IMPROPER WORK**

The owner shall during the progress of the work have power to order in writing from time to time the removal from the work within such reasonable time or time as may be specified in the order of any materials which in the opinion of the owner architects are not in accordance with specification or instructions, the substitution or proper re-execution of any work executed with materials or workmanships not in accordance with the drawings and specifications or instructions. In case the contractor refuses to comply with the order the owner shall have the power to employ and pay

other agencies to carry out the work and all expenses consequent thereon or incidental thereto as certified by the Owner/Architects shall be borne by the contractor or may be deducted from any money due to or that may become due to the contractor. No certificate which may be given by the Architects shall relieve the contractor from his liability in respect of unsound work or bad materials.

### **32. SITE ENGINEER/PMC**

The term "Site Engineer/PMC" shall mean the person /agency appointed and paid by the owner to superintend the work. The contractor shall afford the Site Engineer/PMC every facility and assistance for examining the works and materials and for checking and measuring work and materials. The Site Engineer/PMC shall have no power to revoke, alter, enlarge or relax any requirements of the contractor or to sanction any day work, except in so far as such authority may be specially conferred by a written order of the owner.

The Site Engineer /PMC shall have power to give notice to the contractor or his foreman, of non-approval of any work or materials and such work shall be suspended or the use of such materials shall be discounted until the decision of the owner is obtained. The work will from time to time be examined by the Architects, Engineer from the premises department of the owner and the site engineer. But such examination shall not in any way exonerate the contractor from the obligation to remedy any defects which may be found to exist at any stage of the work or after the same is complete. Subject to the limitations of this clause the contractor shall take instructions only from the Architects /Owner.

### **33. OFFICE ACCOMMODATION FOR THE SITE ENGINEER R/PMC**

The contractor shall provide, erect, and maintain at his cost a separate simple watertight office accommodation for the Site Engineer/PMC. This accommodation shall be well lighted and ventilated and provided with windows, door with a lock. The Site Engineer's /PMC's office shall be a minimum of 150sq.ft and the contractor shall provide a desk, chairs, drawers for keeping drawings, a cupboard having proper lock, telephone connection, electric fan and a tack board for displaying drawings electricity charges for light fan etc. and telephone bills will be borne by the contractor. The accommodation shall be demolished when directed.

### **34. CONTRACTOR'S EMPLOYEES**

The contractor shall employ technically qualified and competent supervisors for the work who shall be available (by turn) throughout the working hours to receive and comply with instructions of the Owner /Architects. The contractor shall engage at least one experienced Engineer as Site In-charge for execution of the work. The contractor shall employ in connection with the work persons having the appropriate skill or ability to perform their job efficiently.

The contractor shall employ local labourers on the work as far as possible.

No labourer below the age of sixteen years and who is not an Indian National shall be employed on the work.

Any labourer supplied by the contractor to be engaged on the work on day-work basis either wholly or partly under the direct order or control of the owner or his representative shall be deemed to be a person employed by contractor. The contractor shall comply with the provision of all labour legislation including the requirements of:

- a) The payment of wages act
- b) Owner's liability act
- c) Workmen's compensation act
- d) Contract labour (regulation & abolition) act, 1970 and Central Rules 1971.
- e) Apprentices act 1961.
- f) Any other Act or enactment relating thereto and rules framed thereunder from time to time.

The contractor shall keep the owner saved harmless and indemnified against claims if any of the workmen and all costs and expenses as may be incurred by the owner in connection with any claims that may be made by any workmen.

The contractor shall comply at his own cost with the order of requirement of any Health Officer of the state or any local authority or of the owner regarding the maintenance of proper environmental sanitation of the area where the contractor's labourers are housed or accommodated for the prevention of small pox, cholera, plague, typhoid, malaria and other contagious diseases. The contractor shall provide, maintain and keep in good sanitary condition adequate sanitary accommodation and provide facilities for pure drinking water at all time for the use of men engaged on the works and shall remove and clear away the same on completion of the works. Adequate precautions shall be taken by the contractor to prevent nuisance of any kind on the works or the lands adjoining the same.

The contractor shall arrange to provide first-aid treatment to the labourers engaged on the works. He shall within 24 hours of the occurrence of any accident at or about the site or in connection with execution of the authority where such report is required by law.

### **35. DISMISSAL OF WORKMEN**

The contractor shall on the request of the owner immediately dismiss from works any person employed thereon by who may in the opinion of the owner be unsuitable or incompetent or who may misconduct himself. Such discharges shall not be the basis of any claim for compensation or damages against the owner of any of their officer or employee.

### **36. ASSIGNMENT**

The whole of the works included in the contract shall be executed by the contractor and the contractor shall not directly or indirectly transfer, assign or underlet the contract or any part, share or interest therein nor, shall take a new partner, without written consent of the owner and no subletting shall relieve the contractor from the full and entire responsibility of the contract or from active superintendence of the work during their progress.

All specialists, Merchants, Tradesmen and others executing any work or supply and fixing any goods for which prime cost prices or provisional sums are included in the schedule of quantities /rates and/or specifications who may be nominated or selected by the owner are hereby declared to be sub-contractors employed by the contractor and are herein referred to as nominated sub-contractors.

No nominated sub-contractors shall be employed on or in connection with the works against whom the owner shall make reasonable objection or save where the owner and contractor shall otherwise agree who will not enter into a contract provided.

- a) That the nominated sub-contractor shall indemnify the contractor against the same obligations in respect of the sub contract as the contractor is under in respect of this contract.
- b) That the nominated sub-contractor shall indemnify the contractor against claims in respect of any negligence by the sub-contractor, his servants or agents or any misuse by him or them of any scaffolding or other plants the property of the contractor or under any workmen's compensation act in force.
- c) Payment shall be made to the nominated sub-contractor by the contractor within fourteen days of his receipt of the Architect's certificate provided that before any certificate is issued the contractor shall upon request furnish to the Architects proof that all nominated sub-contractor's accounts include in previous certification have been duly discharged, in default where of the owner may pay the same upon a certificate of the Architect and deduct the amount thereof from any sums due to the contractor. The exercise of this power shall not create privacy of contract between the owner and the sub-contractor.

### **37. DAMAGE TO PERSONS AND PROPERTY INSURANCE ETC**

The contractor shall be responsible for all injury to the work or workmen to persons, animals or things and for all damages to the structural and/or decorative part of property which may arise from the operations or neglect of himself or any sub-contractor or of any of his or a sub-

contractor's employees, whether such injury or damage arise from carelessness, accident or any other cause whatsoever in any way connected with the carrying out of this contract. The clause shall be held to include inter-alia, any damages buildings whether immediately adjacent or otherwise, and any damage to roads, streets, foot paths or ways as well as damages caused to the buildings and the works forming the subject to this contract by rain, wind or other inclemency of the weather. The contractor shall indemnify the owner and hold harmless in respect of all and any expenses arising from any such injury or damages to persons or property as aforesaid and also in respect of any claim made in respect of injury or damage under any acts of compensation or damages consequent upon such claim.

The contractor shall reinstate all damage of every sort mentioned in this clause, so as to deliver the whole of the contract works complete and perfect in every respect and so as make good or otherwise satisfy all claims for damages to the property or third parties.

The contractor shall effect the insurance necessary and indemnify the owner entirely from all responsibility in this respect. The insurance must be placed with a company approved by the owner and must be effected jointly in the name of the contractor and the owner (the name of the latter being placed first in the policy i.e. UCO Bank A/c \_\_\_\_\_ Contractor's Name and the policy lodged with the latter. The scope of insurance is to include damage or loss to the contract itself till this is made over in a complete state. Insurance is compulsory and must be effected for the every initial stage. The contractor shall also be responsible for anything which may be or defective carrying out of this contract i.e. the Contractor's All Risk Insurance shall have extension for covering cross liability arising, if any, during execution of work relating to Air Conditioning, Electrification, and Erection of Life etc.

The bank/owner shall be at liberty and is hereby empowered to deduct the amount of any damages, compensations, costs, charges and expenses arising or accruing from or in respect of any such claim or damages from any sums due or to become due to the contractor.

### **38. INSURANCE**

Unless otherwise instructed the contractor shall insure the work and keep them insured until the virtual completion of the contract against loss or damage by fire and/or earthquake, flood. The insurance must be placed with a company approved by the owner, in the joint names of the owner and the contractor for such amount and for any further sum if called to do so by the owner, the premium of sum being allowed to the contractor as an authorized extra.

The contractor shall deposit the policy and receipt for premiums paid with the owner within 21 (twenty one) days from the date of issue of work order unless otherwise instructed. In default of the contractor insuring as provided above, the owner on his behalf may so insure and may deduct the premiums paid from any money due, or which may become due to the contractor. The contractor shall as soon as the claim under the policy is settled or the work reinstated by the Insurance Company should they elect to do so, proceed with due diligence with the completion of the works in the same manner as through the fire has not occurred and in all respects under the conditions of the contract. The contractor in case of rebinding or reinstatement after fire shall be entitled to extension of time for completion as the owner may deem fit.

### **39. ACCOUNTS RECEIPTS & VOUCHERS**

The contractor shall, upon the request of the Owner furnish them with all the invoices, accounts, receipts and other vouchers that they may require in connection with the work under this contract. If the contractor shall use materials less than what he is required under the contract, the value of the difference in the quantity of the materials he was required to use and that he actually used shall be deducted from his dues. The decision of the Owner shall be final and binding on the contractor as to the amount of materials the contractor is required to use for any work under this contract.

#### **40. MEASUREMENT OF WORKS**

40.1 The measurements shall be generally recorded by the Site Engineer or by an employee or an agency of the Bank, specially authorized for the purpose, e.g. a project Management Consultant.

40.2 The Site Engineer (or his representative) or PMC wherever PMC is deployed separately for supervision shall take joint measurements (i.e. accompanied by the contractor's authorized representative) of the work as it progress and record them directly in the Measurement Books.

40.3 It shall be ensured that the method of measurement is in accordance with the contract. The precision in measurements shall be as laid down in IS-1200. Any points of disagreement with the contractor pertaining to measurements shall be promptly referred to the decision of the Competent Authority.

40.4 Extra/deviated items, as claimed by the contractor, shall not be recorded in Measurement Book until they are approved by the Competent Authority.

40.5 In case some allegedly extra/deviated item is carried out by the contractor while complying with approved drawings and specifications and the same is to be covered up, the Site Engineer or Project Management Consultant shall check the item and its specification and record its measurements but simultaneously enter up the proviso that their admittance is subject to the approval by the Competent Authority. Both the measurements and the proviso shall be got signed by the contractor.

40.6 The measurement book shall not be handed over to the contractor at any time. The contractor or his representative may be permitted by the Site Engineer or Project Management Consultant to see it in his presence and /or make a (concurrent) copy of his own. The contractor shall, however, be warned that his copy shall be regarded as an unofficial copy of the Bank's Measurement Book. This is the only authorized document in the matter.

40.7 The measurement shall be signed at the end of each session of measurement of the day's work, as the case may be, by both the parties (i.e. Measurer/Site Engineer and the contractor).

#### **41. CONCEALED WORK**

The contractor shall give due notice to the Employer wherever any work is to be buried in the earth concrete or in the bodies of walls or otherwise, becoming inaccessible later on, in order that the work may be inspected and correct dimensions taken before such burial, in default whereof the same shall, at the opinion of the Employer's either opened up for measurement at the contractor's expenses or no payment may be made for such materials, should any dispute or difference arise after the execution of any work as to measurements etc. or other matters which cannot be conveniently tested or checked, the notes of the employer shall be accepted as correct and binding on the contractor.

#### **42. PAYMENTS**

All bills shall be prepared by the contractor in the form prescribed by the Owner/Architects after the measurements are endorsed as mentioned in Clause No.40 (Measurement of works). Normally one interim bill shall be prepared each month subject to minimum value for interim certificate as stated in these documents. The bills in proper form must be duly accompanied by detailed measurements in support of the quantities of work done and must show deduction for all previous payments, retention money, etc.

The Architects shall issue a certificate after due scrutiny of the contractor's bill stating the amount due to the contractor from the owner. The owner will have the discretion to amend the certificate of Architects if considered necessary and the contractor shall be entitled to payment thereof, within the period of honouring certificates named in the documents.

The amount stated in an interim certificate shall be the total value of work properly executed and approx. 75% of assessed value of not perishable material brought to site for permanent incorporation into the work upto the date of the bill less the amount to be retained by the owner as retention money vide Clause 22.A of the conditions and less instalments previously paid under these conditions provided that they are of a durable/non-fragile nature and that an Indemnify Bond is drawn up with the contractor under which the Bank secures a line on the materials and safe guarded against losses due to contractor postponing the execution of the work or to the shortage or misuse of materials and against the expenses entailed, if any, for their proper watch with safe custody. Recoveries of advance so made should not be postponed until whole of the work entrusted to the contractor is completed. This should be made from his bills for works done as the materials are used. The necessary deductions being made wherever the item of work in which they are used and billed for.

The owner will deduct retention money as described in Clause 22.A of these conditions. The refund of retention money will be made as specified in the said clause.

If the owner has supplied any materials or goods to the contractor, the cost of any such materials or goods will be progressively deducted from the amount due to the contractor in accordance with the quantities consumed in the work.

All the interim payments shall be regarded payments by the way of advance against the final payment only and no as payments for work actually done and completed and shall not preclude the requiring of bad, unsound, and imperfect or unskilled work to be removed and taken away and reconstructed, or re-erected or be considered as an admission of the due performance of the contract, or any part thereof in any respect or the accruing of any claim, nor shall, it conclude determine or affect in anyway the power of the owner under these conditions or any of them as to the final settlement and adjustment of the accounts or otherwise or in any other way very or affect the contract. The final bill shall be submitted by the contractor within one month of the date fixed for completion of the work or of the date of certificate of completion furnished by the Site Engineer/PMC and payment shall be made within four months from the date of receipt of the final bill by the Architects.

#### **43. FINAL PAYMENT**

The final bill shall be accompanied by a certificate of completion from the Owner/Architects. Payments of final bill shall be made after deduction of Retention Money as specified in Clause 22A of these conditions, which sum shall be refunded after the completion of the Defects Liability period after receiving the Owner's/Architect's certificate that the contractor has rectified all defects to the satisfaction of the Owner/Architects. The acceptance of payment of the final bill by the contractor would indicate that he will have no further claim in respect of the work executed.

#### **44. VARIATION/DEVIATION**

The contractor may when authorized and shall, when directed in writing by the employer and or omit, or vary the works shown in the drawings or described in the specifications include in the priced schedule of quantities. The contractor on his own accord shall make no addition, omission or variation without such authorization or direction. A verbal authorization or direction by the Employer shall when confirmed correctly by the contractor in writing within 8 days shall be deemed to have been given in writing.

The contractor shall send to the Architect/Employer once in every month a statement giving particulars, as full and detailed as possible, of all claims for any additional payment to which the contractor may consider himself entitled and of all extra or additional work ordered by the Employer which he has executed during the preceding month.

No final interim claim for payment for any such work or expenses will be considered which has not been included in such a statement provided always that the architect shall be entitled after taking employer's sanction to authorize payment to be made for any such work or expense, notwithstanding the contractor's failure to comply with this condition, if the contractor has, at the earliest practicable opportunity, notified the architects in writing that he intends to make a claim for such work.

The rates for additional, altered, substituted work shall be arrived at in accordance with the following rules:

i) The net rates of prices in the contract schedule shall determine the valuation of (the rates for) the extra work (items) where such extra work is of similar character and is executed under similar conditions as the work priced therein.

ii) If the rates for the extra, altered or substituted (deviated) work are not provided for (available) in the contract schedule, they shall to the extent possible be derived out of rate given in that schedule for similar or near similar items. For the purpose of such deviation, where necessary and when so directed, the contractor shall furnish detailed analysis for the said similar or near similar items in the contract schedule. For such portions of the analysis, for the extra, altered or substituted (deviated) work for which prices cannot be abstracted from the corresponding analysis of rates for the said similar or near similar items in the contract schedule, market rates substantiated by purchase bills/vouchers dependable printed price schedules of building materials of different types shall be adopted, using factors and constants for quantum's of material, labour T&P and sundries from standard analysis of rates adopted by the National Building Organisation, Ministry of Works & Housing, Govt. of India in preparation of All India Standard Schedule of Rates 1977 and adding 15% over towards profits and overheads. When called upon to do so the contractor shall submit the required purchase bill/vouchers.

iii) In respect of a contract which incorporates more than one schedule the rate applicable in case (i) above if not provided for in the schedule pertaining to the work in which the addition, alternation or substitution (deviation) occurs shall be taken as the lowest applicable rate in other schedule. Similarly in case (ii) above if similar or near similar items cannot be found in the schedule pertaining to the work in which the addition, alteration or the other schedule shall be adopted.

iv) In the case of additional, altered or substituted (deviated) work for which rates cannot be reasonably be derived as at (ii) and (iii) above, the rates shall be worked out adopting market prices, substantiated by purchase bill/vouchers, T&P and sundries from standard analysis of rates adopted by the National Building Organisation, Ministry of Works & Housing, Govt. of India in preparation of All India Standard Schedule Rates, 1977 and addition 15% towards profit and overheads. When called upon to do so the contractor shall submit his purchase bills/vouchers to the architects and employer.

v) The tender rates will hold good for any increase and decrease in the tender quantities up to a variation of 25% except in the case of item below plinth level where the variation will be up to 100%. For variation beyond and above limit the rates for the respective items for quantity beyond the limits mentioned above may be worked out on market rates.

vi) The question as to what particular items, being similar or near similar to the additional, altered or substituted (deviated) work in the contract schedule are to be adopted for deviation of rates for the additional, altered for substituted (deviation) work and whether the said rates cannot be derived from similar or near similar items in the contract schedule will be decided by the Employer.

vii) In case (ii) to (iv) the contractor is required to submit his analysis of rates adopting the principles enunciated and the architect, after scrutinizing the analysis and other person furnished will allow such rates as he considers reasonable after obtaining Employer's sanction.

viii) Where extra work is of such a nature that it cannot be properly measured or valued the contractor shall be allowed day work priced at the net rates stated then in accordance with the minimum local day work rates and wage for the district notified by the concerned authority provided that in either case if required by the architects, vouchers, muster rolls and other documents, required for proper verification of the labour employed and the materials deployed on the said work and the costs thereof be delivered to the architect or his representative on or before the end of the week following that in which the work has been executed.

The question as to whether extra work is of such nature that it cannot be properly measured or valued will be decided by the architects. The margin to be allowed on actual costs to the contractor towards profit and overhead shall be 15%.

#### **45. SUBSTITUTION**

Should the contractor desire to substitute any materials and workmanship, he/they must obtain the approval of the Owner/Architects in writing for any such substitution well in advance. Materials designated in this specifications indefinitely by such term as "Equal" or "other approved" etc. specific approval of the Owner/Architects has been obtained in writing.

#### **46. PREPARATION OF BUILDING WORKS FOR OCCUPATION AND USE ON COMPLETION**

The whole of the work will be thoroughly inspected by the contractor and deficiencies and defects put right. On completion of such inspection the contractor shall inform the Employer that he has completed the work and it is ready for inspection. On completion the contractor shall clean all windows and doors including the cleaning and oiling if necessary, of all hardware, inside and outside, all floors, staircases, and every part of the building. He will leave the entire building neat and clean and ready for immediate occupation and to the satisfaction of the owner.

#### **47. CLEARING SITE ON COMPLETION**

On completion of the works the contractor shall clear away and remove from the site all constructional plant, surplus materials, rubbish and temporary works of every kind and leave the whole of the site and the works clean and in a workmanlike condition to the satisfaction of the Owner/Architects.

#### **48. DEFECTS AFTER COMPLETION**

The contractor shall make good at his own cost and to the satisfaction of the Employer all defects, shrinkage, settlements or other faults which may appear within 12 months after completion of the work. In default the owner may employ and pay other persons to amend and make good such damages, losses and expenses consequent thereon or incidental thereto shall be made good and borne by the contractor and such damages, loss and expenses shall be recoverable from him by the owner or may be deducted by the owner, in lieu of such amending and making good by the contractor, deduct from any money due to the contractor a sum equivalent to the cost of amending such work and in event of the amount retained being insufficient, recover that balance from the contractor from the amount retained under Clause No. 22 together with any expenses the owner may have incurred in connection therewith.

#### **49. ESCALATION**

The rate quoted shall be firm throughout the tenure of the contract (including extension of time, if any, granted) and will not be subject to any fluctuation due to increase in cost of materials, labour, sale tax, etc. unless specifically provided in these documents.

#### **50. IDLE LABOUR**

Whatever the reason may be, no claim for India labour, additional establishment cost of hire and labour charges of tools and plants would be entertained under any circumstances.

## **51. SUSPENSION**

If the contractor except on account of any legal restraint upon the Owner preventing the continuance of the work or in the opinion of the Owner shall neglect or fail to proceed with due diligence in the performance of his part of the contract or if he shall more than once make default, the Owner shall have the power to give notice in writing to the contractor requiring the work be proceeded within a reasonable manner and with reasonable dispatch, such notice purport to be a notice under this clause.

After such notice shall have been given the contractor shall not be at liberty to remove from the site of the works or from any ground contiguous thereto any plant or materials to subsist from date of such notice being given until the notice shall have been complied with. If the contractor fail to start the work within 7 (seven) days after such notice has been given to proceed with the work as therein prescribed, the owner may proceed as provided in Clause 52(Termination of Contract by owner).

## **52. TERMINATION OF CONTRACT BY EMPLOYER/BANK**

If the contractor being a company go into liquidation whether voluntary or compulsory or being an individual shall be adjusted insolvent or shall make an assignment or a composition for the benefit of the greater part, in number of amount of his creditors or shall enter into a Deed or agreement with his creditors, or if the official Assignee in insolvency, or the Receiver of the contractor in insolvency, shall repudiate the contract, or if a Receiver of the contractor's firm appointed by the court shall be unable within fourteen days after notice to him requiring him to do so, to show to the reasonable satisfaction of the Employer that he is able to carry out and fulfil the contract, and if so required by the employer to give reasonable security therefore, or if the contractor shall suffer execution to be issued, or shall suffer any payment under this contract to be attached by or on behalf of and of the creditors of the contractor, or shall assign, charge or encumber this contract or any payments due or which may become due to the contractor, there under, or shall neglect or fail to observe and perform all or any of the acts matters of things by this contract, to be observed and performed by the contractor within three clear days after the notice shall have been given to the contractor in manner hereinafter mentioned enquiring the contractor to observe or perform the same or shall use improper materials or workmanship in carrying on the works, or shall in the opinion of the Owner not exercise such diligence and make such due progress as would enable the work to be completed within due time agreed upon and shall fail to proceed to the satisfaction of the Owner after three clear days' notice requiring the contractor so to do shall have been given to the contractor as hereinafter mentioned , shall abandon the contract, then and in any of the side cases, the owner may notwithstanding previous waiver determine the contract by a notice in writing to the effect as hereinafter mentioned, but without thereby affecting the powers of the owner of the obligations and liabilities of the contractor the whole of which shall continue in force as fully as if the contract, had not been so determined and as if the works subsequently executed had been executed by or on behalf of the contractor (without thereby creating any trust in favour of the contractor) further the owner or his agent, or servants, may enter upon and take dissensions of the work and all plants, tools, scaffoldings, sheds, machinery, steam and other power, utensils and materials lying upon premises or adjoining lands or roads and sell the same as his own property or may employ the same by means of his own servants and workmen in carrying on and completing the works, and the contractor shall not in any way interrupt or do any act, matter or things to prevent or hinder such other contractors or other persons or person employed from completing and finishing or using the materials and plants for the works when the works shall be completed, or as soon thereafter as conveniently may be, the owner shall give notice in writing to the contractor to remove his surplus materials and plants and should the contractor fail to do so within a period of 14 days after receipt by him the owner may sell the same by public Auction and shall give credit to the contractor for the amount so realized. Any expenses or losses incurred by the owner in getting the works carried out by other contractors shall be adjusted against the amount payable to the contractor by way of selling his tools and plants or due on account of work carried out by the contractor prior to engaging other contractors or against the security deposit.

### **53. WATER SUPPLY**

The rates quoted by the contractor shall include all expenditure for providing water for the full contract period required for the works, including that for the work people and all staff on the site. He shall make his own arrangement for the supply of good quality water suitable for us in the work and the work people. He shall obtain municipal connection, and all charges for connection and consumption shall be borne by him. If municipal water is not available, or making, he shall make other arrangements like sinking tube wells, or making bore-wells, or transport from outside by tanker, or any other suitable means entirely at his cost, and no separate payment for the same will be made.

### **54. POWER**

The contractor shall at his own cost arrange for necessary power for construction and lighting for the entire period of contract. The owner, as well as the Architects shall give all the recommendations necessary to obtain power and water connections from the concerned authorities, but the responsibility for obtaining the same shall rest with the contractor.

If any other contractor, appointed by the owner, is required to use water and power, he shall be allowed to use the same and make temporary connections from the supply arranged by the main contractor at rates and terms that may be mutually agreed upon by both, failing which, at rates, term and conditions that may be decided by the Architect.

### **55. LAND FOR CONTRACTOR'S ESTABLISHMENT**

For the purpose of contraction of contractor's store yard, go downs, site office, etc. the contractor may utilize with the permission of the Architect, portion of the land belonging to the owner if available at such location as would not interfere with the execution of the works. The contractor shall for this purpose submit to the Architect for his approval a plan or plans of the proposed layouts for the site facilities. The Architects reserves the right to alter and modify the contractor's proposal as he may deem fit.

### **56. METHOD OF MEASUREMENT**

Unless otherwise mentioned elsewhere in the tender measurement will be on the net quantities or work produced in accordance with up to date rules laid down by the Indian Standard Institution. In the event of any dispute with regard to the measurement of the work executed, the decision of the Architects /Owner shall be final and binding on the contractor.

### **57. ACTION WHERE NO SPECIFICATION**

In the case of any class of work for which there is no such specification in Technical Specification, such work shall be carried out in accordance with the I.S. Specification and in the event of there being no I.S. Specification, then in such case the work shall be carried out in all respects in accordance with the Instruction and requirements of the Architects/Owner.

### **58. CONTRACTOR NOT TO DEPOSIT MATERIALS IN A MANNER THAT MAY BE INCONVENIENT TO THE PUBLIC**

The contractor(s) shall not deposit materials on any site which will seriously inconvenience the public. The Architects may require the contractor to remove any materials, which are considered by him to be a danger or inconvenience to the public or cause them to be removed at the contractor's cost.

### **59. LIQUIDATED DAMAGES**

Should the work be not completed to the satisfaction of the Owner /Architects within the stipulated period, the contractor shall be bound to pay to the owner a sum calculated as given below by way

of liquidated damages and not as penalty during which the work remains uncommenced or unfinished after the expiry of the completion date.

- |    |                                                                                                      |                                                                                                                                                                                    |
|----|------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| a) | For contracts having stipulated:<br>Time for completion 3 WEEKS<br>and less accepted contracted sum, | 1. 0% of the estimated amount shown in the tender<br>per week of delay subject to ceiling of 10% of the<br>accrual of which entitles<br>the Employer/Bank to rescind the Contract. |
|----|------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### 60. ACTION WHEN WHOLE OF SECURITY DEPOSIT IS FORFEITD

In any case in which under any clause or clauses of this contract, the contractor shall have rendered himself liable to pay liquidated damages amounting to the whole of his security deposit (whether paid in one sum or deducted by instalments) the Owner / Architects shall have power to adopt any of the following courses as they may deem best suited to the interest of the Owner:

- a) To rescind the contract (of which rescission notice in writing to the contractor under hand of the Owner /Architects shall be conclusive evidence, and in which case the security deposit of the contractor shall stand forfeited and be absolutely at the disposal of the Owner.
- b) To employ labour paid by the Owner and to supply materials to carry out the work, or any part of the work, debiting the contractor with the cost of the labour and price of material (of the amount of which cost and price of a certificate of the Architects /Owner shall be final and conclusive against the contractor) and crediting him with the value of work done , in all respects in the same manner and at the same rates as if it had been carried out by the contractor under the terms of this contract the certificate of Architects / Owner as to the value of the work done, shall be final and conclusive against the contractor.
- c) To measure up the work of the contractor, and to take such part thereof as shall be unexecuted, out of his hands, and to give it to another contractor to complete in which case any expenses which may be incurred in excess of the sum which would have been paid to the original contractor and may be deducted from any money due to him by the Owner under the contract or otherwise or from his security deposit or the proceeds of sale thereof, or a sufficient par thereof. In the event of any of above courses being adopted by the Owner /Architects the contractor shall have no claim to compensation for any loss sustained by him by reason of his having purchased or procured any materials or entered into any engagements, or make any advances on account of, or with a view to the execution of the work or the performance of the contract, shall be rescind under the provision aforesaid, the contractor shall not be entitled to recover or be paid any sum or any work thereto for actually performed under this contract, unless, and until the owner/Architects will have certified in writing the performance of such work and the value payable in respect thereof, and he shall only be entitled to be paid the value so certified.

#### 61. GUARANTEE FOR THE SPECIALISED WORKS

Wherever provision for submission of a guarantee has been advised, the same shall be submitted from the specialized agency along with a counter guarantee by the main contractor engaged for the work. The guarantee shall be furnished on a non-judicial stamp paper of appropriate value. If the contractor is required to submit guarantee/guarantees for any item/items for a period of more than 12 months, the guarantee/guarantees in case of those items shall remain valid even after expiry of the defect liability period for 12 months as stipulated in the contract.

#### 62. INCOME TAX/SALES TAX ON WORK CONTACT

Statutory deduction of Income Tax/Sales Tax on works contract shall be made from all interim and final payments as per extend statute.

### **63. AGREEMENT**

The successful contractor will be required to enter into an agreement in accordance with the Draft Agreement from enclosed & the schedule of conditions within 15 days from the date of the contractor is advised by the Owner /Architect that his tender has been accepted and he shall pay for all stamps & legal expenses incidental thereto. However, the written acceptance by the Owner of a tender will constitute a binding contract between the Owner bands the person so tendering whether such formal agreement is or is not subsequently executed.

### **64. TECHNICAL EXAMINATION**

The proposed work covered under this tender during its progress is subject to inspection by the chief Technical Examiner/Technical Examiner Central Vigilance Commission, Govt. of India or by the an Officer of the Vigilance Cell of the Authority, on behalf of the Engineer-in charge/ Bank's Architects. The contractor will be required to extend all assistance and facilities for such inspections.

### **65. NO COMPENSATION FOR ALTERATION IN, OR RESTRICTION OF WORK TO BE CARRIED OUT**

If at any time after the commencement of the work, the Owner / Architects Shall for any reason whatsoever not require the whole work thereof as specified in the tender to be carried out the Architects/Owner shall give notice in writing of the fact to the contractor who shall have no claim to payment or compensation whatsoever on account of any profit or advantage with which he might have derived from the execution of the work in full, but which he did not derived in consequence of the full amount of the work not having been carried out; neither shall he have any claim for compensation by reason of any alterations having been made in the original specification, drawing, designs and instructions which shall involve any curtailment of the work as originally contemplated.

### **66. ARBITRATION**

All disputes or difference of any kind whatsoever (except for excepted matters vide clause no.19) which shall at any time arise between the parties hereto touching or concerning the works or the executions or maintenance thereof of this contract or the rights touching or concerning the works or the execution of maintenance thereof of this contract or the construction remaining operation or effect thereof or the rights or liabilities of the parties or arising out of or in relation thereto whether during or after determination foreclosure or branch of the contract (other than those in respect of which the decision of any person is by the contract expressed to be final and binding ) shall after written notice by either party to the contract to the other of them and to the Employer hereinafter mentioned be referred for adjudication to a sole Arbitrator to be appointed as hereinafter provided.

For the purpose of appointing the sole Arbitrator referred to above, the Employer will send within thirty day of receipt of the notice to the contractor a panel of three names of persons who shall be presently unconnected with the organisation for which the work is executed.

The contractor shall on receipt of the names as aforesaid, select any one of the person's name to be appointed as a sole Arbitrator and communicate is name to the Employer within thirty days of receipt of the names. The Employer shall thereupon without any delay appoint the said person as the sole Arbitration. If the contractor fail to communicate such selection as provided above within the period specified, the Competent Authority shall make the selection and appoint the selected person as the sole Arbitrator.

If the Employer fail to send to the contractor the panel of three names as aforesaid within the period specified, the contractor shall send to the Employer a panel of three names of persons who shall all be unconnected with either party. The Employer shall on receipt to the named as aforesaid with select any one of the persons names and appoint him as the sole

Arbitrator. If the Employer fails to select the person and appoint him as the sole Arbitrator within 30 days of receipt of the panel and inform the contractor shall be entitled to appoint one of the person from the panel as the sole Arbitrator and communicate his name to the Employer.

If the Arbitrator so appointed is unable or unwilling to act or resigns his appointment or vacates his office due to any reason whatsoever another sole Arbitrator shall be appointed as afore said. The work under the contract shall however, continue during the arbitration proceeding and no payment due to payable to the contractor shall be withheld on account of such proceeding.

The Arbitrator shall be deemed to have entered on the reference on the date he issued notice to both the parties fix in the date of the first hearing.

The Arbitrator may from time to time, with the consent of the parties, enlarge the time for making and publishing the award.

The Arbitrator shall give a separate award in respect of each dispute or deference referred to him. The Arbitrator shall decide each dispute in accordance with the terms of the contract and give a reasoned award. The venue of arbitration shall be such place as may be fixed by the Arbitrator in his sole discretion.

The fees, if any, of the Arbitrator shall, if required to be paid before the award is made and published, be paid half and half by each of the parties. The cost of the reference and of the award including the fees, if any, of the Arbitrator who may direct to and by whom and in what manner, such costs or any part thereof shall be paid and may fix or settle and amount of costs to be so paid.

The award of the Arbitrator shall be final and binding on the both parties.

Subject to aforesaid the provisions of the Arbitrator Act, 1992 or any statutory modification or reenactment thereof and the rules made there under and for the time being in force, shall apply to the arbitration proceeding under this clause.

The Employer and the contractor hereby also agree that arbitration under clause shall be a condition precedent to any right to action under the contract with regard to the matters hereby expressly agreed to be so referred to arbitration.

## **67. WORKING HOURS**

- a) Site Office working hours shall normally be fixed as may be prevailing in the locality.
- b) Normally no construction work of important structural nature shall be carried out on Sundays, Holidays and during nights. In exceptional circumstances, however, the work may be carried out with prior approval of the Site Engineer who shall depute supervising staff to be present on the occasion.

## **68. SECURITY ARRANGEMENTS**

- a) Proper arrangements shall be made to keep all records under lock and key.
- b) The contractors should provide for adequate fences, watch and ward and security of basic materials such as cement and steel etc.
- c) Movement of material, stores and plant, especially of those in which the Bank has got a financial interest or those which influence progress of work, shall be strictly controlled. Checks shall be exercised at gate (entrance and exit shall be preferably through one gate only).

- d) When the work is completed and handed over to the user. The responsibility of proper security arrangements shall rest with the users.

**69. DECLARATION**

I/we have inspected the site of work and have made me/us fully acquainted with the local conditions in and around the sites of works. I/we hereby declare that I/we have gone through the conditions laid down in the Notice Inviting Tender, General Conditions of Contract, Technical Specifications and understood the same and on the basis of the same I /we quoted our rates in the schedule of quantities attached with the tender documents.

I /we shall also uniformly maintain such progress with the work, as may be directed by the Owner/Architects to ensure completion of same within the target date as mentioned in the tender document.

\_\_\_\_\_  
Signature of Tenderer  
Witness: Address: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Date: \_\_\_\_\_

## **APPENDIX**

### **ELECTRICAL & HVACWORKS OF EXISTING RISHRA BRANCH & ATM**

|                                                        |                                                                                                                                                         |
|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name of work                                           | : <b>ELECTRICAL &amp; HVAC<br/>WORKS OF EXISTING RISHRA BRANCH &amp; ATM.</b>                                                                           |
| Location                                               | : <b>RISHRA, WEST BENGAL.</b>                                                                                                                           |
| Scope of work                                          | : As above and as further detailed in the General Conditions of Contract.                                                                               |
| Defect Liability Period (Clause No.48)                 | : 12 (Twelve Months)                                                                                                                                    |
| Date of Commencement (clause no.12)                    | : 15 days from the date of issue of work order or the date on which the contractor is instructed to take Possession of the site, whichever is later.    |
| Date/Time of Completion                                | : 3 (THREE) weeks                                                                                                                                       |
| Liquidated Damages (clause no. 59)                     | : 1.0% of the estimated amount shown in the tender per week of delay subject to a ceiling 10% of the accepted contracted sum.                           |
| Value of works for interim certificate (clause no. 42) | : Rs.2.50 lacs.                                                                                                                                         |
| Earnest Money (clause no. 22.A)                        | : Rs. 0000.00 by Demand/Pay Order/Banker's Cheque.                                                                                                      |
| Security Deposit (clause no. 22.A)                     | : 8% of the executed value of the work                                                                                                                  |
| Initial Security Deposit (clause no.22.A)              | : 2% (Two percent) of the value of the tender                                                                                                           |
| Performance Security (clause no. 22.B)                 | : 5% of the contract Value in the form of Demand Draft/pay Order/Bank Guarantee.                                                                        |
| Release of Security Deposit                            | : 100% after 14 (fourteen) days on expiry of defects liability period as per details given in Clause No.22A.                                            |
| Period of Honoring Certificate                         | : 1) One month for R.A bills.( Clause No.42)<br>2) The final payment will be made to the contractor as per clause 43 of General Conditions of Contract. |

## TECHNICAL SPECIFICATIONS

### A. GENERAL BUILDING WORKS & WORKMANSHIP

#### CIVIL WORKS

#### 1.0 GENERAL NOTE

All materials and workmanship used for the work shall generally conform to the relevant specifications and Codes of Practice as prescribed by the Bureau of Indian Standards. Furthermore, the Contractor shall execute various items of works in the manner as described hereinafter. In the event of any confusion or dispute arising out of the specifications, Codes of Practice and whatever is mentioned hereinafter, the decision of the Consultant shall be binding on both the Employer and the Contractor.

However, these specifications shall be read along with the corresponding descriptions of an item of work as given in the Bill of Quantities.

The specification of any item which has not have been included in the following pages shall conform to the relevant IS Specifications.

#### 2.0 VITRIFIED TILE FLOORING, DADO / SKIRTING / FACIA:

##### 2.1. MATERIALS:

Vitrified Tiles: The tiles shall be of approved make or equivalent and shall generally conform to the approved standards. They shall be flat and true to shape, free from cracks, crazing spots, chipped edges and corners. Unless otherwise specified, the nominal sizes of tiles shall be as under: The tiles shall be square or rectangular of nominal sizes such as: 600 x 600 mm; 900 x 900 mm or as per tender schedule / drawings or as directed by the Engineer-in-Charge. Thickness shall be as per recommendations of the approved manufacturers. Technical specifications of the tiles shall be generally conforming to the following standards:

#### TECHNICAL SPECIFICATIONS FOR VITRIFIED TILES NO PROPERTY EXPECTED STANDARDS

| <u>NO</u> | <u>PROPERTY</u>                        | <u>EXPECTED STANDARDS</u> |
|-----------|----------------------------------------|---------------------------|
| 1         | Deviation in length                    | (+/-) 0.6%                |
| 2         | Straightness of sides                  | (+/-) 0.5%                |
| 3         | Rectangularity                         | (+/-) 0.6%                |
| 4         | Surface flatness                       | (+/-) 0.5%                |
| 5         | Water absorption                       | < 0.50%                   |
| 6         | Mohs. hardness                         | > 6                       |
| 7         | Flexural strength                      | > 27 N / mm <sup>2</sup>  |
| 8         | Abrasion resistance                    | < 204 mm <sup>2</sup>     |
| 9         | Skid resistance (friction coefficient) | > 0.4                     |
| 10        | Glossiness                             | Min. 85% reflection       |

The tiles shall conform to the relevant standards in all respects. Samples of tiles shall be got approved from the Engineer-in-charge before bulk procurement for incorporation in the work.

## **2.2. PREPARATION OF SURFACE FOR FLOORING:**

Following procedure shall be followed:

- Sub grade concrete or RCC slab or side brick wall / or plastered surfaces on which tiles are to be laid shall be cleaned, wetted and mopped as specified for terrazzo tile flooring.
- Mortar and bedding: Cement mortar for bedding shall be prepared of mix 1:4 or as specified in the schedule of items, to a consistent paste and shall conform to the specification for materials, preparations etc. as specified under cement mortar. The amount of water added while preparing mortar shall be the minimum necessary to give sufficient plasticity for laying. Care shall be taken in preparation of the mortar to ensure that there are no hard lumps that would interfere with even bedding of the tiles. Before spreading the mortar bed the base shall be cleaned off all dirt, scum or laitance and loose materials and well wetted without forming any pools of water on the surface. The mortar of specified proportion and thickness shall then be evenly and smoothly spread over the base by use of screed battens to proper level or slope.
- Once the mix is prepared, no further water be added and the same shall be used within one hour of adding water. Apply on an average 20 mm thick bedding of mortar over an area of 1 sqm. at a time over surface of the area for laying tiles, in proper level and allowed to harden sufficiently to offer a fairly good cushion for the tiles to set..

## **2.3. LAYING OF TILES FOR FLOORING:**

The tiling work shall be done as per the pattern shown in the drawing or as directed by the Engineer-in-Charge. As a general practice laying of tiles shall be commenced from the centre of the area and advanced towards the walls. Cut tiles, if any, shall be laid along wall with necessary border pattern as shown / directed by the Engineer-in-Charge.

Tiling work shall be completed by pressing tiles firmly into place along the wall / floor. A white cement slurry to the back of the tile to be applied to ensure proper and full bedding. The tiles shall be laid on the bedding mortar when it is still plastic but has become sufficiently stiff to offer a fairly firm cushion for the tiles. Tiles, which are fixed on the flooring adjoining the wall, shall be so arranged that the surface on the round edge tiles shall correspond to the skirting or dado. Press gently the tile with wooden mallet for even adherence at the back of the tile. Do not use an iron hammer or some heavy material to press the tile. The edges of the tiles shall be smeared with neat white cement slurry and fixed in this grout one after the other, each tile being well pressed and gently tapped with a wooden mallet till it is properly bedded and in level with the adjoining tiles. There shall be no hollows in bed or joints. The joints shall be kept as close as possible and in straight line. Unless otherwise specified, joint-less tiling shall be done butting the tiles with each other. If joint is specified, the same shall not exceed 1.00 mm. in width. The joint shall be grouted with white / matching color cement slurry. After fixing the tiles, finally in an even plane or slope, the flooring shall be covered with wet sand and allowed undisturbed for 14 days.

## **2.4. FIXING TILES FOR DADO & SKIRTING / FACIA:**

The fixing of tiles on wall surfaces shall be done only after completing fixing of the tiles on the floor. Following procedure shall be followed:

- The back of tiles shall be cleaned off and covered with layer of approved adhesive like BAL -NDURA or equivalent with proper troweling as per manufacturers recommendations.
- The edges of the tiles shall be smeared with the adhesive and fixed on the wall one after the other, each tile being well pressed and gently tapped with a wooden mallet till it is properly fixed in level with the adjoining tiles. There shall be no hollows on the back or in joints. Unless otherwise specified, joint-less tiling shall be done butting the tiles with each other. If joint is specified, the same shall not exceed 1.00mm. in width. The joint shall be grouted with approved adhesive. The joints shall be kept in straight line or as per the approved pattern.
- While fixing tiles in dado / skirting work, care shall be taken to break the joints vertically. The top line shall be touched up neatly with the rest of the plaster above. If doors, windows or other openings are located within the dado area, the corners, sills, jambs etc. shall be provided with true right angles

without any specials. The contractor will not be entitled to any extra claims on this account for cutting of tiles if required.

- The fixing shall be done from bottom of wall to upward without any hollows in the bed of joints. Each tile shall be as close as possible to one adjoining. All tiles faces shall be in one vertical plane.

## **2.5. GROUTING OF JOINTS IN FLOOR / SKIRTING / DADO:**

The joints, if specified, shall be cleaned off and all dust and loose particles removed. Joints shall then be filled with approved adhesive like BAL-ENDURA or equivalent grouts. After finishing the grouting process, after 15 minute, wipe off excess grout with a damp sponge and polish the tiles with a soft & dry cloth for a clean surface. The Finished work shall not sound hollow when tapped with a wooden mallet.

## **2.6. CLEANING:**

As directed by the Engineer-in-Charge, the tiles shall be cleaned by mild acid (However, Hydrofluoric acid and its derivatives should not be used). After the tiles have been laid in a room or the days fixing work is completed, the surplus cement grout / adhesive that may have come out of the joints shall be cleaned off before it sets. The dado / skirting shall be thoroughly cleaned. In the case of flooring, once the floor has set, the floor shall be carefully washed clean and dried. When drying, the floor shall be covered with oil free dry sawdust. It shall be removed only after completion of the construction work and just before the floor is used.

## **2.7. MODE OF MEASUREMENT AND RATE:**

Dado / flooring / skirting shall be measured in sq.M correct to two places of decimal. Length and breadth shall be measured correct to 1 cm. between the exposed surfaces of skirting or dado. No deductions shall be made nor extra paid for any opening of area upto 0.1 sqm. The rate shall include all the cost of labour and materials involved.

# **INTERIOR FURNISHING WORKS**

## **1.0 SCOPE**

The technical specifications for the interior work under scope of this contract shall be in accordance with CPWD specification in vogue. If not covered therein with relevant (with latest amendments) and shall be read in conjunction with other documents forming the contract: viz., form of Tender Notice, Article of Agreement, General Bill of Quantities and Drawings.

## **2.0 GENERAL:**

### **2.1: WORK TO BE PROVIDED FOR:**

The work to be provided for the Contractor unless otherwise specified, shall include but not be limited to the following:

- 1) Furnish all labor, materials, supervision, services, supports, scaffolds, approaches, construction equipments, tools, plants etc. as required for proper execution of the job as per drawings and specifications.
- 2) Provide all incidental items not shown or specified in particular, but reasonable or necessary for successful completion of the work in accordance with the drawings, specifications and bill of quantities.
- 3) To extend facilities to the Engineer-in-charge to inspect work and assist them in obtaining samples, if they so desire.
- 4) To make good at his own cost and to the satisfaction of the Owner, all defects, arising in the opinion of the Architect/Owner from work or materials, not in accordance with the specification

or the instructions of the Architect/Owner, this may appear within twelve months after completion of the work.

- 5) To execute the work according to the drawings or revisions there of schedule of Quantities/specifications / instructions issued by the Architect/Owner and no works should be done without proper drawings/specifications, written instructions given by the Owner/Architects.
- 6) Furnish samples of all materials including any tests thereon as directed by the Engineer-in-charge of the Owner/Architects.

2.2 COORDINATION:

The Contractor shall be responsible for proper coordination with sub-contractors or other contractors employed by the Owner. The completed work after fitting of all fixtures (Even of other Contractors) if necessary, shall be at the custody of the contractor who will be responsible for handing over to the Owner.

2.3 APPROVED MANUFACTURER:

Whenever materials or workmanship as per Manufacturer's specification has been specified, it will be the responsibility of the Contractor to submit authenticated documents from the Manufacturer for obtaining the approval of the Engineer-in-charge.

2.4 VARIATION:

The work described in schedule shall prevail if it is at variance with the work described in specification.

3.0 GENERAL NOTES AND ADDITIONAL SPECIFICATIONS:

- 1) All the rates quoted will be including all necessary lead and lifts.
- 2) All exposed faces of wooden members are inclusive of polishing of approved finish.
- 3) All partitions, doors, cupboards, wardrobes are inclusive of necessary from monger as specified or as instructed at site and after approval of samples.
- 4) Lipping for the edges of the block board with respective veneering or otherwise as directed.
- 5) All the furniture is subject to minor changes and improvement as per site instructions.
- 6) Quotations should include all the concealed locks, knobs, hinges of standard approved quality. Aluminium runners, sliding bearing etc., wherever required will not be paid separately unless otherwise stated.
- 7) All the doors, book cases, cupboards should be provided with locking arrangements.
- 8) Samples of all fittings and fixtures shall be got approved before use.
- 9) All plywood-veneered surfaces should be matching type throughout and to the fullest satisfaction of the Owner/Architect.
- 10) All plywood, Block board, particleboard, pre-laminated board shall be of approved manufacturers and shall be strictly B.W. R. type bonded with phenol formaldehyde synthetic resin. As specified by Architect/Consultant.
- 11) All furniture pieces should be stable with necessary horizontal and vertical supports and is subject to continuous improvement. No extra charges will be paid for any changes until the sample is approved finally.
- 12) In case of teak wood planks, battens or frame members exposed surfaces should match with general colour of teak wood veneered surfaces. All timber surfaces unless otherwise specified in the Schedule of quantities are to be finished in natural colour with N.C.L acquire in mat finish.

#### 4.0 TIMBER :

Timber shall be of good quality and well-seasoned. It shall have uniform colour, reasonably straight grains, and shall be free from dead knots, cracks, shakes and sapwood. The moisture content shall be within the limits prescribed in maximum moisture contents.

4.1 TEAK WOOD (*Tectonagrandis*), Salwood (*Schrearbusta*), Pia-sal (*Pterospermum muresuplum*) shall be of outstanding merit in retention of shape and durability. First Class teak wood such as Balarsha, malabar and dandeli: Individual hard and sound knot shall not be more than 123mm in diameter and the aggregate area of all the knots shall not exceed one-half percent of the area of the piece. It shall be close grained.

4.2 BADAM/CHAMP/KASI (BIJA) WOOD (*Bridalia Retgusa*)

First Class:

No individual hard and sound knot shall be more than 25mm in diameter and the aggregate area of the live knots shall not exceed one percent of the area of the piece, should be properly treated with wood preservative and kiln seasoned and shall be used under head "Secondary Hard Wood"

#### 5.0 PLY WOOD

The veneers for all grades shall be either rotary cut or sliced. The veneers shall be sufficiently smooth to permit even spread of glue. The thickness of all veneers shall be uniform, within a tolerance of (+) (-) 5% corresponding veneers on either side of the centre one shall be of the same thickness and species. The requirement of thickness of face and core veneers shall be as follows:

- a) In 3-ply boards upto 5mm thick, the combined thickness of the face veneers shall not exceed twice the thickness of centre one.
- b) In a multiply boards, the thickness of any veneer shall not be more than thrice the thickness of any other veneer.
- c) The sum of the thickness of the veneer in one direction shall approximate to the sum of the thickness of the veneers at right angles to them and shall not be greater than 1.5 times this sum except for three ply as specified in (a)

The thickness of plywood boards shall be specified as under:

Board thickness Board thickness Pre-Laminated Board.

7 ply 12 mm 9mm 12m 9mm: Both Exterior

15m 15mm 15 mm: &

16mm 16mm 16mm: Interior grade

11 Ply 19mm

22mm

25mm

- d) Plywood shall be as specified quality with decorative surface veneer. Unless specifically permitted otherwise, the adhesive used in plywood shall be PHENOL - FORMALDEHYDE resin of B.W.P. grade conforming to IS: 848.

#### 6.0 LAMINATED PLASTIC SHEETS:

All laminated plastic sheets shall be unless specified and shall be "Merino / Greenlam/ Sunmica.", or approved equivalent. The colour, pattern, finish and texture shall be approved by the Architect/Owner.

#### 7.0 BWR PLY.

BWR plywood shall be as per IS: 710.

#### 8.0 FLUSH DOORS:

Flush doors shall be hollow or solid core with commercial or decorative faces and hard wood edges. The core for solid core doors shall be of block board or wood particleboard. The Contractor shall give a guarantee that the adhesive used is Phenol -Formaldehyde of B.W.R. grade.

The thickness shall be as specified in the "Schedule of Items."  
Moisture Content.

#### MAXIMUM MOISTURE CONTENT FOR WOOD WORK.

Thinner than 50 mm 10% Average moisture content.

Thicker than 50mm 12% Average moisture content.

#### 9.0 WORKMANSHIP OF WOOD WORK

##### 9.1 GENERAL:

The work shall be done by skilled carpenters as per details shown on drawing or instructed by the Architect. Framing timber and other work shall be close fitting with proper wood joinery accurately set to required lines or levels and rigidly secured in place. Special care shall be taken to match the grain of timber or plywood, which shall be subsequently polished. Screws or nails will not be permitted to the edge of plywood or chipboard sheets. All exposed plywood edges shall be finished with teak wood lipping unless otherwise shown on drawings.

##### 9.2 FINISH:

All carpentry work after finishing shall be sand papered smooth. A primer coat shall be given after inspection by the Architect to all surfaces other than those which shall be subsequently polished or covered with laminated plastic sheets.

##### 9.3 SURFACE TREATMENT:

When shown on drawing or called for in schedule, decorative or laminated sheets shall be bounded under pressure to the surface to be finished. The adhesive used shall be of approved brand and brought to site in sealed container. The rate of application and the length of time for which the pressure is to be applied shall be as per the Manufacturer's instructions. The edges of sheets shall be protected by teak lipping or beveled as shown on drawings.

#### 10.0. PAINTING WORKS

##### 10.1 PRIMING COAT OF WOOD, IRON OR PLASTERED SURFACE:

Preparation of surface.

##### i) Wood Surface:

1) The wood work to be painted shall be dry and free from moisture.

2) The surface shall be thoroughly cleaned. All unevenness shall be rubbed down smooth with sand paper and shall be well ducted. Knots if any shall be covered with preparation of red lead made by grinding red lead in water and mixing with strong glue sized and used hot. Appropriate filler materials with same shade as paint shall be used where specified.

3) The surface treated for knotting shall be dry before painting is applied. After the priming coat is applied, the holes and indentations on the surface shall be stopped with glazier putty or wood putty. The primer shall be prepared on site or shall be of approved brand and manufacturer as specified in the item. Paint shall be anti-corrosive Bitumastic paint, Aluminium paint or other types of paint as specified in the description of the item stopping shall not be done before the priming coat is applied as the wood will absorb the oil in the stopping and the latter is therefore liable to crack.

ii) Iron and steel surface.

1) All rust and scales shall be removed by scrapping or by brushing or by brushing with steel wire brushes. Hard skin or oxide formed on the surface of wrought iron during rolling which become loose by rusting, shall be removed.

2) All dust and dirt shall be thoroughly wiped away from the surface. If the surface is wet, it shall be dried before priming coat is undertaken.

10.2 Application:

The primer shall be applied with brushes, worked well into the surface and spread even and smooth. The painting shall be done by crossing and laying off as described in cement paint above.

#### **11.0- PAINTING WITH READY MIXED PAINT/SYNTHETIC ENAMEL PAINT:**

11.1 Preparation of Surface:

i) Wood Work

The surface shall be cleaned and all unevenness removed as specified in wooden surface, knots if visible, shall be covered with a preparation of red lead. Holes and indentations on the surface shall be filled in with glazier putty or wood putty and rubbed smooth before painting is done. The surface should be thoroughly dry before painting.

ii) Iron and Steel Work:

The priming coat shall have dried up completely before painting is started. Rust and scaling shall be carefully removed by scrapping or by brushing with steel wire brushes. All dust and dirt shall be carefully and thoroughly wiped away.

11.2. Application:

The specification described in cement paint shall hold good as far as applicable. The number of coats to be applied will be as stipulated in the item. The painted surface shall present a uniform appearance and glossy/mat finish as described in schedule of Quantities free from streaks, blisters etc.

11.3. Painting on old surface:

The surface, which has been painted earlier, shall be considered to be old surface.

11.4. Preparation of surface:

i) Wood work:

If the old paint is sound and firm and its removal is considered unnecessary the surface shall be rubbed down with pumice stone after it has been cleaned of all smoke and grease by washing with lime and finishing with water and drying. All dust and loose paint shall be completely removed. The surface shall then be washed with soap and water.

If the old painted surface is blistered or flaccid badly, old paint shall be completely removed with the applications of a paint remover following the specification of the Manufacturer. The paint remover shall be of a brand and manufacturer approved by the Architects/Consultant. It shall be free from alkaline matter and non-caustic so that it can be handled by workmen without injury. It shall be of non-flammable quality as far as possible and such removal shall be paid for separately. Holes and cracks if any shall be stopped with glazier putty or wood putty. Further the painting itself shall be treated as on new surface and paid for, accordingly.

ii) Iron and Steel work:

If the old paint is sound and firm and its removal is considered unnecessary, it shall be rubbed with wire brushes and any loosened paint taken off. All dust shall be thoroughly wiped away. This surface shall then be wiped finally with mineral turpentine to remove grease and perspiration of hand marks etc. and then allowed to dry.

If the old painted surface is in bad condition and blistered and flaked, the old paint shall be completely removed and the surface prepared as described in above. Such removal shall be paid for separately. The painting including the priming coat shall be treated as one new work and paid for accordingly.

**12. FRENCH SPIRIT POLISHING:**

Pure shellac varying from pale orange to lemon yellow colour, free from resin or dirt shall be dissolved in methylated spirit at the rate of 140gm. of shellac to 1 litre of spirit. Suitable pigment shall be added to get the required shade.

12.1 Polishing new surface:

Preparation of surface - The surface shall be cleaned. All unevenness shall be rubbed down smooth with sand paper and well dusted. Knots if visible shall be covered with a preparation of red lead and glue sized and used hot holes and indentations on the surface shall be stopped with glazier putty. The surface shall be then be given a coat of wood filler made by mint whiting (Ground chalk in methylated spirit at the rate of 1.5 kg of whiting per litre of spirit.) The surface shall again be rubbed down perfectly smooth with glass paper and wiped clean.

12.2 Application:

The number of coats of polish to be applied shall be as decided by the Architect to get the desired finish. A pad of woollen cloth covered by fine cloth shall be used to apply the polish. The pad shall be moisture with the polish and rubbed hard on the wood, in a series of over lapping circles applying the moisture sparingly but uniformly over the entire area to give an even level surface. A trace of linseed oil on the face of the pad facilitates this operation. The surface shall be allowed to dry and the remaining coats applied in the same way. To finish off, the pad shall be covered with a fresh piece of clean fine cotton cloth slightly dampened with methylated spirit and rubbed lightly and quickly with circular motions. The finished surface shall have a uniform texture.

## **ELECTRICAL & LAN WORK**

- 1.1 All installations shall comply with the requirements of the Indian Electricity Rules, 1956, as amended from time to time and as per relevant clauses of National Electrical Code, 1983.
- 1.2 All materials to be arranged by the Contractor for use in the work must be got approved from the Architect/Consultants well in advance before these are actualized on the work.
- 1.3 Bad workmanship is liable to be rejected in to.
- 1.4 The contractor/his supervisor will be bound to sign the site order book and to carry out the instructions given therein.
- 1.5 All repairs and patch work shall be neatly carried out to match with the original finish and to the entire satisfaction of the Owner/Architect. Any damage to the building due to execution of work shall have to be made good immediately by the contractor at his own cost.
- 1.6 The Contractor shall make his own arrangements for storing the materials and watch and ward at his own cost, even for the installation till the date of completion and handing over the site.
- 1.7 The Contractor shall make his own arrangement at his own cost for all general and electrical tools and plants required for the work.
- 1.8 All debris due to the electrical works shall be removed and site shall be cleared by the Contractor as soon as the work is completed.
- 1.9 Wiring conduit routes shall be marked at site first and got approved from the Architect/Consultant before the commencement of the actual work.
- 1.10 The work shall ordinarily be carried out according to the drawings supplied with the schedule of work at the time of award of work, subject to any change made by the Architect/Consultant.
- 1.11 All the materials to be used are not covered by any one of the above specifications, it should be got approved from the Architect as in conditions No.2 above.
- 1.12 Unless otherwise mentioned in the schedule of work, the contractor shall use the materials in the work according to the LIST OF RECOMMENDED MANUFACTURERS" enclosed with the CONTRACT DOCUMENT.
- 1.13 In case the particular make of materials mentioned under conditions 11 & 12 above are not available at the time of execution of the work, the alternative make of materials has to be approved from the Architect/Consultant before its use.
- 1.14 Thimbles are to be provided wherever required without any extra charges of cables terminations of size 16 sq.mm. Above.
- 1.15 The adopter boxes are to be made up not less than 16 SWG thick M.S. sheets.
- 1.16 Where unless specified, the G.I. boxes should be 600mm deep (Inside)

1.17 The brass batten holder/angle holders should be of as per ISI specifications and ISI approved.

1.18 The work shall comprise of entire labour including supervision and all materials necessary to make a complete installation and such test as commissioning may be required to give as satisfactory working installation to the satisfaction of the company.

1.19 The tenderer shall visit the site before quoting the rates and shall submit the tender complete in all details whether such details have been mentioned in the schedule of work or in specifications.

1.20 The Contractor shall not be entitled to any compensation for any loss suffered by him on account of delays in commencing or executing the work, whatever the cause for such delays may be.

1.21 The Contractor shall add to the amount of their tender sales taxes, excise duty, octroy or any other charges or fees liable by the local or central authorities as it shall be assumed that the contractor's rates cover all such taxes and no claim on this account shall be entertained.

1.22 No import license is available for any equipment.

1.23 All necessary safety features required as per various statutory authorities for the entire installation of work shall be taken into consideration by the Contractor and work to be carried out accordingly.

### **CONCEALED CONDUIT LYING**

#### **1. Type and size of Conduit:**

All conduit pipe shall be screwed type, solid drawn or welded and with black stove enamelled surface or galvanized and of thickness conforming to IS: 9537 Part II of 1981 (or latest revision) in all respects. The conduits are to be free from burrs and internal roughness. No conduits less than 20mm in dia. shall be used, unless specified.

#### **2. Accessories:**

Only screwed type of accessories are to be used.

#### **3. Conduit Joints:**

The conduit shall be properly earthed. In long distance straight runs of conduit at reasonable intervals on running threads with couplers and jam nuts. Threads on conduit pipes in all cases shall be between 13mm to 27mm long sufficient to accommodate pipes to full threaded portion of couplers or accessories. Cut end of conduit pipes shall have no sharp edges or any burrs left to avoid damage to insulation of conductor while pulling them through such pipes.

#### **4. Protection against dampness and rust:**

In order to minimize condensation and sweating inside the tube, all outlets of pipes system shall be properly drained and ventilated, but in such a manner as to prevent entry to insects inside the conduit.

To protect against rust the outer surface of the conduit and accessories shall be painted and the bare thread portion is to be pointed with anti-corrosive preservative.

#### **5. Bends in Conduits:**

All necessary bends in the system including diversion shall be done by bending the pipes, or by inserting suitable inspection type bends, elbows or similar fittings, or by fixing cast iron inspection boxes whichever is most suitable.

6. Maximum capacity of conduits for drawing in of PVC insulated cables shall be as follows:

650/1100V PVC in 20mm dia. in 25mm dia. copper wire conduit

-----  
1.5 Sq.mm 4 Nos. 10 Nos.

2.5 Sq.mm 4 Nos. 10 Nos.

4.0 Sq.mm 3 Nos. 8 Nos.

6.0 Sq.mm 2 Nos. 6 Nos.

10 Sq.mm -- 4 Nos.

16 Sq.mm -- 2 Nos.

7. Fish Wire:

18 S.W.G. G.I. wire shall be used and it shall protrude the conduit ends by 9 inches.

8. Conduit laying in floor/roof slabs before casting:

PVC/Polythene/G.I. conduit shall be laid straight as far as practicable and properly placed including binding with the steel reinforcement rods with 22 SWG G.I. wire so that proper positions of conduits are maintained.

While laying the conduits for concealed wiring in the ceiling or in the beams and columns and before casting, the contractor shall ensure that both ends of the conduit are plugged by means of deadened socket or otherwise so that any foreign matter cannot enter the conduit and choke them.

All precaution must be taken while laying the conduits on the slabs, R.C. walls, columns etc. and the contractor shall rectify at his own cost if any defects are found during process of drawing cables through the concealed preload conduits. Each PVC/Polythene conduit shall be provided with protruding length of not less than 9 inches on free end of the conduits.

There shall be no intermediate joints in one straight run of conduit.

All ceiling outlets shall be terminated in a round C.I./G.I. circular box/deep box to suit standardise ceiling rose or/and rectangular C.I./M.S. junction box or fan hook box as the case may be.

It will be mandatory for the contractor to get the layouts approved by the Bank's

Engineer/Architect when the conduits are laid and bound to steel reinforcement rods, before he can release the work for casting of floor/roof.

9. Connector Boxes, Draw-in-Boxes, Junction Boxes:

These shall be manufactured from 16 SWG M.S. sheet and have M.S. cover. Minimum size for connector boxes is 6" X 4" and for Draw-in-Boxes 4" X 4".

10. Fan Hook Boxes:

These shall be 125mm X 125mm X 75mm deep, constructed from 16 SWG M.S. sheet, and provided with one 12mm dia. M.S. rod 300mm long.

## **ELECTRICAL WIRING**

### **1. GENERAL REQUIREMENTS**

The installation shall generally be carried out in conforming with the requirements of the Indian Electricity Act, 1910 as amended up to date and the Indian Electricity Rules, 1956 framed thereunder, the relevant regulations of the Electric Supply Authority concerned, and also with the specifications laid down in the Indian Standard I.S. 732 - 1963 Code of Practice (revised) for Electrical Wiring Installations (system voltage not exceeding 650 volts) and I.S. 2309 - 1969 Code of Practice for the protection of Buildings and Allied Structure against Lightning and IS 3043 - Indian code of Practice for Earthing. The wiring shall also be according to the specifications of P.W.D. of the Local Government.

### **2. MATERIALS**

All materials, fittings, appliances, used in electrical installations, shall conform to Indian Standard Specifications wherever these exist. A list of approved materials is attached after words. Materials not included in the list shall be got approved by the Architects/Owner prior to actual use.

### **3. MAIN SWITCH GEAR**

Iron clad switch fuse and isolator units should conform to B.S. 861 (I.S. 2510-1954). The quick made and break mechanism shall be self-interlocked with the cover. In "Off" position there must be two breaks per pole. Main switch gear shall be properly earthed with two numbers conductors if M.V. and one number of L.V.

### **4. BURSAR CHAMBER (B.B.C.)**

This shall be totally enclosed, metal clad type fabricated from rust proofed 16 SWG sheet steel on angle iron frame and provided with sheet steel or cast iron cover and undrilled detachable end plates, suitable for mounting on wall or angle iron floor stand and painted with high quality enamel paint. G.I. bolts and nuts shall be used for assembly with suitable packing materials to ensure dust proof finish. Meters shall be provided on suitable sheet steel boxes. Switch shall be provided with cable and boxes as required.

The depth of B.B.C. shall be 150mm (minimum). Minimum clearance of phase bars to earth shall be 25mm and between bus bars shall be minimum 32mm.

H.C. (High conductivity) copper bus bars properly tinned are to be rated at 1000 Amps. Per Sq. in. and Aluminium bus bars (wrought aluminium alloy strip) conforming to relevant I.S. specification at 800 Amps per sq. in.

Neutral Bus bars are to be rated to carry 60% of phase current. These shall be carried on glazed porcelain supports of proper dielectric and mechanical strength and shall be appropriately colour coded for identification of Phase.

Entering shall be done for identification of switches as directed. The contractor shall submit fully dimensioned drawing of the board with the physical position of the switches and other components to the Architects for their approval before the same is fabricated. There shall be two numbers of Earth Terminals. Suitable Danger Board shall be provided.

## **5. INTERCONNECTION B.B.C. & SWITCH FUSE, METERS**

For ratings above 150 Amps these shall consist of insulated copper strips to adequate section. For rating below 150 Amps PVC copper cable tails of appropriate size, terminating in tinned copper sockets may be used. The above are to be enclosed either in sheet metal trunking or conduits so that no part is exposed.

## **6. DISTRIBUTION BOARDS**

These totally enclosed metal clad type Distribution Boards with hinged lids shall be in accordance with I.S. 2147-1952 and 2675-1966 and B.S. 214 and shall be welded construction and fabricated from rust proofed sheet steel and finished with anticorrosive stove enamel paint and have provision for fixing on wall and have earthing terminals.

Power Distribution Boards (400 volts TPN) shall be constructed from 16 SWG sheet steel and Branch Distribution Boards (230 volts SPN from 18 SWG sheet steel).

The minimum ratings of phase and neutral bus bars shall be 67% of the total rating of fuse ways.

Above 32 Amps Neutral Bus bars may be half the size of the Phase Bus bars.

The fuses shall be mounted on glazed porcelain supports of proper dielectric and mechanical strength. TPN units should have phase separation barriers between fuse banks.

Cables shall be connected to a terminal by crimped lugs.

Where two or more B.D.B.'s feeding low voltage circuits are fed from different phases of a medium voltage supply, these B.D.B.'s shall be installed at least two metres apart.

All three phase power distribution boards shall be properly earthed with two number 10 S.W. Galvanized iron wires and provided with suitable Danger Boards. All SPN B.D.B.'s shall be properly earthed with one number 10 SWG galvanised iron wire each.

## **7. CABLES AND CONDUCTORS**

All cables shall conform to relevant Indian Standard. Conductors of all cables except for flexible cables shall be of aluminium, unless specified otherwise.

## **8. TESTING OF INSTALLATION**

Before a completed installation or an addition to an existing installation is put into service, the following tests shall be carried out by the contractor in presence of the Engineer in charge.

### **a) Polarity of Switches**

It must be ensured by test that all single pole switches have been fitted on the live side of the circuits they control.

### **b) Insulation test:**

i) By applying a 500 volt megger between earth and the whole system of conductors or any section thereof, with all fuses in place and all switches closed, all lamps in position or both poles of installation otherwise electrically connected together: The result in megohm shall not be less than 50 divided by the number of points on the circuit, and should not be less than 1megohm.

ii) Between all conductors connected to one phase and all such conductors connected to the neutral or to the other phase conductors of the supply after removing all metallic connections between the two poles of the installation and switching on all switches. The insulation resistance shall be as in (i) above.

### **c) Earth continuity Test**

The earth continuity conductor including metal conduits, and metal sheaths of cables in all cases shall be tested for electrical continuity. Electrical resistance of the above along with the earthing

leas cut excluding any resistance of earth leakage circuit breaker, measured from the connection with the earth electrode to any point in the earth continuity conductor in the completed installation shall not exceed one ohm.

d) Earth Resistance Test

To ensure effectiveness of installation earth, the value of earth resistance shall within 5 ohm for installation capacity upto 5 KW and one ohm for installation of higher capacity.

9. The completed work will be taken over only if the results obtained in above tests are within the limits mentioned above and in accordance with I.E. Rules.

On completion of the installation work, a certificate shall be furnished by the contractor countersigned by the certified supervisor under whose direct supervision the installation was carried out. This certificate shall be in a prescribed form as required by the local Electric Supply Authority.

## 10. SPECIAL SPECIFICATIONS

a) Before fixing all switches, fittings etc. should be produced before Engineer in Charge and get approved.

b) All metal switch boards and switch/regulator boxes to be used in work shall be painted with two coats of anti-rust primer (red oxide paint) prior to erection. After erection they shall be again painted with two coats of enamel paint of approved quality.

c) Before execution of any portion of conduit work for wiring neat proper layout should be made out by the contractor and got approved from the Engineer in charge. For this purpose contractor is advised to get acquainted with the layout drawings of the Consultant/Architect.

d) While laying the conduits for concealed wiring in the ceiling or in the beams and column sand before casting the contractor must ensure that all the inlets and both ends of the conduits are plugged by means of dead end socket so that no foreign matter can enter the conduits and choke them.

e) Damage to any fitting during erection and before handing over the installation by contractor shall be set right or replaced by the contractor at his own cost.

f) Caution Board of proper size wherever required, shall be provided, as per I.E.E. regulations for which no extra payment will be admissible.

g) Any repairs done to wall etc. should match with the surrounding surface otherwise same will be got done through Building Contractor at the cost of the Electrical Contractor.

h) Earthing Installation shall be done in the presence of Engineer in charge or his representative.

i) The installation should not be energized without adequate earthing.

j) The I.C. switches and Distribution Fuse Boards shall be provided with neat lettering in block letters with paint for identification of the I.C. switches and for the points connected to each fuse way of the D.B's for which no extra payment will be admissible.

k) Completion Drawings

The Contractor shall be required to submit along with Final bill, the under noted controlled by them).drawings on tracing papers, along with three copies of Ammonia print each.

1. Plan (as per structural drawing) of each floor (not less than 1:100 metric scale) showing:

i) Locations of Main Switch Board, Distribution boards (with the circuit numbers controlled by them).

ii) The runs of mains and submains.

iii) Location of lights, fans, wall sockets, other power consuming devices together with type of fittings and fixtures including circuit numbers.

iv) Position of lightning conductors and route of running conductor.

v) Position of Earthing Stations for light and power and Lightning Conductor installation.

and giving the following information on the plans :-

a) Name of work with job no. Accepted Tender No.

b) Date of completion.

c) Name of the Place.

d) Name and Signature of the Contractor.

e) Scale of Drawings.

2. Schematic lines layout diagram of each floor showing (i) Layout and connections of Main and Sub-board, B.D.B. having descriptions of the size, capacity, type and their numbers, the system and the source of supply. (ii) Location, Size, Type, length of main and sub main cables (iii) Loading of each B.D.B. indication of phases, Departmental mark in each B.D.B. and switchgear.

The drawings shall be very neatly drawn and submitted properly without folding them.

3. Cable route should be marked on site plan with measurements from permanent Structures.

## **CABLE INSTALLATIONS**

### **1. General**

All HV Cables (upto 33 KV earthed system) shall be either paper insulated SL type or XLPE insulated aluminium conductor cable conforming to I.S. 692 and I.S. 7098 respectively.

All Medium Voltage and Low Voltage PVC insulated and armoured/unarmoured cables shall conform to IS 1554 Part-I-1964 and of 1,100 volt grade.

Old and used cables must not be used for installation. Only one make of cable shall be used. All cables brought to site must be tested and got approved by the Engineer-in-charge before these can be laid. The cables shall be dispatched to site on wooden drums with ends sealed. Exact lengths shall be determined by the Contractor after measurement at site.

The underground installation of cables shall be generally conforming to I.S. 1255-1967, Code of practice for installation and maintenance of underground cables (upto including 33 KV).

### **2. Laying of Cables**

#### **a) Direct in Ground**

Trenches shall be 750mm deep (minimum) for LT Cables and 1.2 M (4'-0") deep minimum for HTC cables from ground level and trenching work shall including all pumping and bailing out water.

These trenches shall be wide enough to accommodate all the cables with brick separations as per the requirements specified in the relevant I.S.

When more than one multicore cable is to be laid in the same trench, a minimum horizontal interracial spacing between cables will be as per relevant I.S.

After excavation of the trench of proper size, the bottom of the trench shall be dressed and levelled and filled with a 75mm layer of fine sand. The cable shall then be laid with bricks on both sides of the cable continuously. After having the space within the bricks, filled and packed upto a level of 75mm (3") above top of cable with fine sand, the top layer of bricks shall be placed side by side in

continuous series as protective cover. Total No. of bricks required being 16 per metre run. The remainder of the trench shall be filled with riddled soil, well rammed and watered to a level of 75mm (3") above surrounding ground level. The ground level surface of the whole trench route shall be restored properly after completion of cable laying.

b) Inside Building

Cables shall be laid on walls/ceilings/structure, unless specified otherwise, with M.S. brackets and suitable clamps or over claw type aluminium cleats fixed on M.S. brackets, spaced not more than 450mm apart. G.I. Bolts of suitable sizes are to be grouted on the wall properly for fixing the brackets.

c) Minimum bending radius permissible is 12D for MV Cables and 20D for HV cables. At joints and terminations, the individual's core of multicore cables should never be bent so that the radius is less than 15 times the diameters over the insulation.

No Cable jointing is allowed between two terminal points.

3. Cable Jointing

All cable joints shall be carried out by experienced and licensed jointers under strict supervision. Electro plated brass cable glands, aluminium/ tinned copper cable sockets and approved jointing materials must be used. The price for cable jointing and finishing the ends of the cable shall include all materials and shall also provide for tools and plants for the work. The cable accessories and other associated materials shall conform to Indian Standard Specification where applicable. Proper earthing of cable glands and armoured shall be included in the job.

4. Testing of Cables

All cables shall be tested for insulation resistance with megger - 5,000V constant pressure megger insulation tester for HT Cables and 1,000 V constant pressure megger for MV cables, before installation.

After installation and end termination, the cables shall be again subjected to the above test.

Insulation value for HT Cables shall not be less than 100 megohms and for MV Cables 1.0 megohm.

After laying and jointing, the HV Cables shall be subjected to high voltage pressure test before commissioning the test voltage being as specified in I.S. 1255-1967 or latest.

5. Testing of Installation

Before the completed installation is put into service or handed over to Owner, the installation is to be subjected to the above tests to the satisfaction of the Engineer-in-charge. The completed work will be taken over only if the results are acceptable to the Architects/Owner.

6. Product specifications (AC):

- a. Air Conditioner, which is offered by the tenderer, shall carry a five star rating or shall be of inverter type & only of a reputed Brand.
- b. The product on offer shall carry a minimum warranty period of one year.
- c. The compressor of the air conditioners should carry a minimum warranty of five year.
- d. Product on offer shall carry a free replacement guarantee period of a minimum 30 days in case the supplied product is found to be carrying a manufacturing defect or is a malfunctioning unit.
- e. There should be an authorized service centre of the offer product in West Bengal

## EARTHING INSTALLATION

The installation shall generally conform to IS 3043 - Indian Standard Code of Practice for Earthing, as amended upto date.

### 1. Earthing Electrode

The earthing electrode shall be galvanized steel pipe of Class B medium quality - 40mm dia. bore and 3.04 M (10') long. A hole shall be provided at 100mm (4") from the top end to receive a 13mm (1/2") dia galvanized bolt and the bottom end shall be chisel cut for easy penetration into soil.

A suitable trench shall be excavated about 0.45 M (1'-6") deep and the pipe electrode driven to an average depth of 3.35 M (11'-0") below ground level. The top end of the electrode shall be at an average depth of 0.30 M (1') below the ground surface.

Alternate layers of Charcoal or Salt and Coke to be provided for Electrode as per I.S. Code of Practice unless specified otherwise.

One No. 6 SWG G.I. wire (unless otherwise specified) shall be connected securely on the properly cleaned surface at the top end of pipe electrode by means of a 100 mm (4") long X 13mm (1/2") dia G.I. bolt nut and double washers. The earth lead conductor shall be protected mechanically by means of a continuous length of G.I. pipe (Class A) having 13mm (1/2") inside diameter upto a height of 0.60 M (2') above ground and the same shall be completely filled with bitumen compound and topped upto overflowing.

### 2. Masonry Inspection pit

The inspection pit for the earth station shall be approx. 0.56 M X 0.56 M (1'-10" X 1'-10") out side dimensions and approx. 0.45 M (1'-6") deep when completed, having 5" thick cement brick work with 1st class bricks in cement mortar (6:1) both inside and outside plastered 19mm (3/4") thick and neatly cemented 1.60mm (1/16") thick, both inside, outside and top. The opening on top shall be provided with a C.I. ring with lockable cover fixed flush with ground surface.

All the excavations shall be duly back filled, dressed and rammed.

### 3. Locations for Earth Electrodes

Electrodes shall be buried at least 2 M (6'-6") away from the building pole or object to be earthed. However, earthing electrodes for L.C. installations should be as close to the down conductors as possible.

Electrodes when installed in parallel, shall not be placed less than 2 M (6'-6") apart and preferably placed at distances greater than twice their lengths.

### 4. Earth Bus bar

#### a) Galvanized M.S. Flat

The busbar shall be of suitable size and length, as specified in the Schedule of Items, heavily galvanised and having adequate number of drilled and tapped holes 30mm apart, complete with G.I. bolts, nuts, washers for securely connecting the earth leads and earth continuity conductors.

The busbar shall be fixed on wall, having clearance of 6mm from wall with spacing insulators with at least the numbers 13mm (1/2") G.I. rag bolts spaced about 0.46 M (1'-6") apart.

#### b) Copper Flats

To be used, as specified, in the Schedule of Items, where earthing requirements are more stringent. Brass bolts, nuts washers shall be used for connections.

### 5. Value of Earth Resistance

In case of installations where the load does not exceed 5 K.W. the resistance to earth shall on no account exceed 5 K.W. the resistance shall not exceed 1 ohm.

For sub-station, the value is 1 ohm.

For L.C. installations, the value is 1 ohm.

## **L.C. INSTALLATION**

Specifications:

The installation shall conform to I.S.: 2309-1969 as amended up to date.

### **1. Conductor for L.C. System**

It shall be well galvanised No. 7/8 SWG G.I. stranded wire galvanising conforming to B.S.728/1961) unless specified otherwise. The conductor shall be well annealed and flexible. There shall be no joints in any conductor between terminal ends.

### **2. Air Terminals**

Air Terminal shall be single prong type constructed of 15mm N.B. (Class-B) medium quality G.I. pipe 30 cm long with a screwed G.I. solid conical cap 100mm long (overall) on top and shall have a screwed galvanized M.S. flange 75mm dia. X 6mm thick at bottom end and shall be grouted on the parapet, roof, etc. with rag bolts in cement mortar unless specified otherwise.

### **3. Conductors on Parapet**

The conductors shall be coursed along ridges, parapets, edges of the flat roof, over flat roof where necessary in such a way as to joint each air terminals to the rest. The conductors shall be fixed securely with proper saddles spaced not more than 2 ft. (0.6 M) apart.

### **4. Vertical down Conductors**

The conductors, direct from test point shall be connected to parapet conductors or air terminals and shall be coursed through shortest possible routes without abrupt turns or kinks. While passing through cornices, these shall pass through G.I. pipe (Class-B) having adequate bore.

These conductors shall be fixed securely with proper saddles spaced not more than 2' ft. (0.6 M) apart.

### **5. Protection Against Damage and corrosion**

No upturns are permitted and any bend necessary shall have a permissible radius. The end of G.I. pipe protections on wall shall be properly sealed with bitumen compound to prevent corrosion.

### **6. Metallic Objects near conductors**

The conductors shall be so laid as to maintain a separation distance exceeding 2 Metres (6'-6") between (a) any electric conductor running in parallel, (b) metallic objects, viz. iron girders, water tanks, and iron stair case, water/gas pipes inside or by the side of the building.

All the external metallic objects viz. water tanks, gutters, rain water down pipes, water mains, etc. shall be bonded to the nearest conductor by means of a short tail.

### **7. Joints & Bonds**

All joints between conductors shall be made after cleaning and tinning the ends of conduct or sto be joined, binding them together for about 100mm (4") with No. 14 SWG G.I. wire and then welding.

Joint between Air Terminals and conductors shall be made with proper lugs duly fixed to conductors and bolts, nuts washers etc.

Bonding shall be as short as possible. All joints & Bends are to be mechanically and electrically sound.

#### 8. Earth Stations:

Similar to Installation earths as specified elsewhere. Minimum number of earth station is two.

#### 9. Installation Tests:

After completion of works the ohmic resistance of L.C. installation complete with air terminals (without earth connection) shall be measured from the highest point and this shall be a fraction of one ohm.

The resistance to earth of individual earth stations shall be tested by earth testing megger and must not exceed 1.0 ohms.

The above tests shall be made in the presence of the representative of the Engineer-in-charge/Architects and the results recorded. A certificate of the same to be submitted duly certified by a licensed electrical engineer.

#### 10. Completion Drawings:

This shall be submitted along with the final bill

### SCHEDULE OF QUANTITIES

#### PREAMBLE

1. The quoted rates shall include clearing site from all shrubs, vegetation, bushes, and trees before commencement of work even if not otherwise specified. Trees with a girth of above 4500mm measured 300mm above G.L. shall be cut with prior approval from the Owner/Consultant.

2. The quoted rates shall be deemed inclusive of costs of all labour, materials, tools, plants, equipment, scaffolding, curing cost, all lead & lifts, all taxes including service tax, duties, octroi even if these are not otherwise mentioned in items.

3. Products with I.S.I. stamping, if available shall be used with prior approval of the Consultant/Employer reserves the right to select any particular brand between different I.S.I. stamped products of the same category.

4. The quoted rates shall include for keeping pockets, holes, chases, etc., in concrete/masonry for running of Conduit etc.

#### NOTES TO SCHEDULE OF ITEMS

1. Tenderers shall include in their rates quoted charges for preliminary and general items required for the execution of work such as tools and plants, workman's shed, temporary offices, cleaning site, scaffolding upto required height etc. The description of each item shall unless otherwise stated be held to include conveyance, labour, and finishing to required shape and size, setting, fitting and fixing in position, straight cutting and waste, return of packings, overheads, profits and other unless otherwise stated, be held to include the consequent waste.

2. The rates quoted by the Contractor should cover for work at any height for all the items of work under this contract. List of all materials will not form a criterion for any extra payment, unless otherwise stated in the particular item.

In the event of arithmetical error/errors being discovered in the Contractor's tender the rate mentioned in works in the tender copy marked 'Original' will only be taken as confide.

3. Contractor should note that the tender is strictly on item rate basis and their attention is drawn to the fact that their rates for each and every item should be correct, workable and self-supporting. If called upon by the Architect/Employer detailed analysis of any or all rates shall be bound to recognize Contractor's Analysis.

4. Contractor should note that their rates should be inclusive of all attendance on their subcontractors & also for making good any holes and chases left by the Sub-Contractor before the builder's work is completed.
5. The Contractor shall be responsible for procuring all required materials sufficiently in advance and see that the work is never hindered for want of materials or due to any other reason or restriction.
6. The Contractor shall have to carry out all connected work within the boundary of proposed work and inside the building if ordered to do so by the Architect/Employer at the rates quoted in the Schedule of Items.
7. The Contractor is to study architectural and electrical drawings before commencing any work. In case of discrepancy the Contractor must report to the Architect/Employer immediately and shall get the same rectified before proceeding on.
8. The rate quoted for installation work shall include the necessary requirements of Indian Electricity Act and Rules in force at the time of carrying out work.
9. All materials which shall be used in the work must be from the list of the approved materials as mentioned in the specifications. Samples of materials proposed to be used shall be submitted for approval and nothing shall be used which are not approved.
10. General spirit of the technical specification and method of measurement shall be as laid down in the latest edition of I.S. Code of Practice. Rates quoted for all items shall include for the cost of supplying labour and materials fixing and/or erection complete with all the appliances necessary for the proper execution and carrying out of the work to the truest sense of drawing and specification though this may not be mentioned in particular item of in the Schedule of Items.

## ARTICLES OF AGREEMENT

(ON NON-JUDICIAL STAMP PAPER OF Rs.100.00)

ARTICLES OF AGREEMENT made this ..... day of .....2025 between the UCO Bank, a body corporate constituted and having its Head office under the Banking companies (Acquisition and Transfer of Undertaking) Act 1970 and having its Zonal Office at **Hooghly, 21, New GT Road, Uttarpara, Dist. Hooghly, West Bengal - 712258** (hereinafter called "the EMPLOYER") which expression should include its successor/s and assignee/of the one part and M/s \_\_\_\_\_

\_\_\_\_\_ having its office at \_\_\_\_\_  
(hereinafter called the "CONTRACTOR") of the other part, which expression should include its successor/s and assignee/s.

WHEREAS the Employer is desirous of executing **ELECTRICAL & HVAC work of existing RISHRA Branch & ATM**, and has caused drawings and specifications describing the work to be prepared by **CONSULTING DEVELOPMENT SERVICES** (hereinafter called the "CONSULTANT").

AND WHEREAS the said DRAWINGS numbered as mentioned in the tender document hereinafter mentioned and to be issued from time to time, the specifications and the schedule of Items and quantities have been signed by and on behalf of the parties hereto.

AND WHEREAS the contractor has agreed to execute upon and subject to the conditions set forth herein and schedule of items and quantities, General conditions of contract, special conditions of contract including all other conditions as mentioned in the tender document, specifications and all correspondence exchanged by or between the parties from the submission of tender till the award of work, both letters inclusive, (all of which are collectively hereinafter referred to as "the said conditions") The work shown upon the said drawing and/or, described in the said specification and included in the schedule of items and quantities at the respective rates therein set forth amounting to the sum of Rs. .... (Rupees \_\_\_\_\_ only) as therein arrived at or such other sum as shall become payable there under (hereinafter referred to as "THE SAID CONTRACT AMOUNT").

NOW IT IS HEREBY AGREED AS FOLLOW:

1. In condition of the said contract amount to be paid at the times and in the manner set forth in the said conditions, the contractor shall upon and subject to the said conditions execute and complete the work shown upon the said drawings and described in the said specification and the schedule of items and quantities.
2. The Employer shall pay the Contractor the said Contract amount, or such other sum as shall become payable, at the times and in the manner specified in the said conditions.
3. The consultant in the said conditions shall mean the said **CONSULTING DEVELOPMENT SERVICES** or in the event of their ceasing to be the consultant for the person or purpose of this contract for whatever reason, such other person or persons as shall be nominated for that purpose by the Employer, provided always that no person subsequently appointed to be consultant under this contract shall be entitled to disregard or overrule any previous decision or approval or direction given or expressed in writing by the consultant for the time being.
4. The said condition and Appendices thereto shall be read and considered as forming part of this Agreement, and the parties hereto shall respectively abide by, submit themselves to the said conditions and Perform the agreement on their part respectively in the said conditions contained.
5. The plans, agreement documents mentioned herein shall form the basis of this contract.
6. This contract is neither a fixed lump sum contract, nor a piece work contract but is a contract to carry out the work in respect for **ELECTRICAL & HVAC and LAN works of RISHRA BRANCH and ATM** as per the scope described and to be paid for according to actual measured quantities at the rates contained in the schedule of rates and probable quantities or as provide in the said conditions.

7. The Employer reserves to itself the right of altering the drawings and nature of the work by adding to or omitting any items of work or having portions of the same carried out without prejudice to this contract.
8. Time shall be considered as the essence of this contract and the contractor hereby agrees to commence the work on the day of handing over of the site or within fourteen days from the date of issue of formal work order whichever is later as provided for in the said conditions and to complete the entire work within 2 weeks subject nevertheless to the provisions for extension of time.
9. All payments by the Employer under this contract will be made at Siliguri.
10. Any dispute arising under this Agreement shall be referred to arbitration in accordance with the stipulations laid down in the general conditions of contract.
11. That the several parts of this contract have been read by the contractor and fully understood by the contractor.

In witness whereof the Employer and the contractor have set their respective hands to these present through their duly authorized official and the said two duplicate hereof to be executed on its behalf of the day and year first herein above written.

Signed on behalf of the UCO Bank  
By duly authorized representative

In the presence of:

1. Signature \_\_\_\_\_

Name \_\_\_\_\_

Address \_\_\_\_\_

2. Signature \_\_\_\_\_

Name \_\_\_\_\_

Address \_\_\_\_\_

Signed of official stamp of contractor  
or its authorized representative

In the presence of:

1. Signature \_\_\_\_\_

Name \_\_\_\_\_

Address \_\_\_\_\_

2. Signature \_\_\_\_\_

Name \_\_\_\_\_

Address \_\_\_\_\_

**FORM OF TENDER**

To  
The Chief Manager  
UCO BANK General Administrative Department  
Zonal Office, Hooghly, 21 New GT Road.  
P.O-Uttarpara Dist.-Hooghly- 712258

Dear Sir,

Re: ELECTRICAL & HVAC WORKS OF EXISTING RISHRA BRANCH & ATM of UCO BANK under Zonal Office, Hooghly, 21 New GT Road. P.O-Uttarpara Dist.-Hooghly- 712258

1. I/We refer to the tender notice issued by UCO Bank, Zonal Office, General Administration Department, at Zonal Office, Hooghly, 21 New GT Road. P.O-Uttarpara Dist.-Hooghly- 712258 in connection with the above work.
2. I/We do hereby offer to perform, provide, execute, complete and maintain the works in conformity with the drawings condition of contract, specifications, bill of quantities for the sum of Rs. .... at the respective rates quoted in the bill of quantities.
3. I/we have satisfied myself / ourselves as to the site conditions, examined the drawings and all aspects of the tender conditions, subject to above, I/we do hereby agree, should this tender be accepted in whole or in part, to:
  - a) Abide by and full-fill all the terms and provisions of the said conditions annexed hereto;
  - b) Complete the works within 3 Weeks, as per the work programme enclosed with the tender in two or three shifts if considered necessary by the Owner /Architects at no extra cost to the owner.
4. I / we have deposited the earnest money of Rs. .... in the form of Demand Draft / Pay Order payable at Siliguri in Favour of "UCO Bank" which, I/we note, will not bear any interest and is liable for forfeiture solely at Bank's Discretion if:
  - i) Our offer is withdrawn within the validity period of acceptance.  
Or
  - ii) The Contract is not executed within 15 days from the date of receipt of the letter of acceptance.  
Or
  - iii) The work is not commenced within 14 days after issue of work order.
  - iv) If the initial Security Deposit (ISD) is not deposited within 14 days from the date of receipt of work order.
5. I/we understand that you are not bound to accept the lowest or any tender you receive.
6. Name of the partners /Directors of our firm:
  - i)
  - ii)
  - iii)
  - iv)

7) Our bankers and their addresses are:

- (i)
- (ii)

Yours faith fully

Signature .....

Name of partner/ Director of the firm authorized to sign

Name: .....

Or

Name of person having power of Attorney to sign the  
Contract (Certified true copy of power of attorney attached)

Designation: .....

Signature and address of  
Witnesses

a) Signature .....

Name.....

Address.....

b) Signature.....

Name.....

Address.....

**PROFORMA FOR APPLICATION FOR EXTENSION OF TIME PERIOD**

1. Name of contractor :
2. Name of the work as given in the Agreement:
3. Agreement No :
4. Estimated Tender Amount :
5. Date of Commencement of work as per Agreement:
6. Period allowed for completion of work as per Agreement:
7. Date of completion stipulated in Agreement:
8. Period for which extension of time has been given previously:
  - a) 1<sup>st</sup> extension vide Architect's / Banker's letter:

|     |       |       |      |
|-----|-------|-------|------|
| No. | Dated | Month | Days |
|-----|-------|-------|------|
  - b) 2<sup>nd</sup> extension vide Architect's / Banker's letter:

|     |       |       |      |
|-----|-------|-------|------|
| No. | Dated | Month | Days |
|-----|-------|-------|------|
- Total extension previously given
9. Reasons for which extensions have been :  
Previously given (copies of the previous applications  
Should be attached)
10. Period for which extension is applied for :
11. Hindrances on account of which extension is :  
Applied for with dates on which hindrances  
Occurred and the period for which these are  
Likely to last.
  - a) Serial No.
  - b) Nature of hindrance
  - c) Date of occurrence
  - d) Period for which it is likely to last
  - e) Period for which extension required for this  
Particular hindrance
  - f) Overlapping period if any, with reference to  
Item(e) above
  - g) Net extension applied for
  - h) Remarks, if any

- 12) Extension of time required for extra work;
- 13) Details of extra work and the amount involved
- 14) Total extension of time required for 11 & 12.

Submitted to the Architect/Bank.....

Date:.....

.....  
Signature of the Contractor

**FINAL/RUNNING A/C BILL**

1. NAME OF WORK :
2. NAME OF THE EMPLOYER:
3. NAME OF CONTRACTOR :
4. ACCEPTED CONTRACT AMOUNT :
5. DATE OF COMMENCEMENT :
6. STIPULATED DATE OF COMPLETION :
7. ACTUAL DATE OF COMPLETION :
8. EXTENSIONS IF ANY :
9. INSURANCE VALID UPTO :  
A) WORKMEN COMPENSATION ACT :  
B) CONTRACTOR'S ALL RISK COMPHRENSIVE  
INSURANCE POLICY ETC.
10. LABOUR LICENCE NO. AND DATE AND VALID UPTO :
11. SERIAL NO. OF THE BILL :
12. NO. & DATE OF PREVIOUS BILL :
13. REF. TO AGREEMENT NO. :0
14. EARNEST MONEY DEPOSIT :
15. TOTAL RETENTION MONEY EXCLUDING E.M. UPTO THIS BILL :
16. PERIOD OF EXECUTION OF WORK FOR  
WHICH THIS BILL HAS NOT BEEN PREPARED : FROM TO  
(DATE TO BE MENTIONED)

NOTE: 1) IF PART RATE IS ALLOWED FOR ANY TIME,  
IT SHOULD BE INDICATED WITH REASONS  
FOR ALLOWING SUCH A RATE .....

2) IF ADHOC PAYMENT IS MADE NET  
IT SHOULD BE MENTIONED SPECIFICALLY.

VALUE SINCE  
PREVIOUS BILL  
(A)

UCO Bank hereinafter referred to as “The Principal”.

And

..... Hereinafter referred to as “The Bidder/Contractor”.

### **Preamble**

The Principal intends to award, under laid down organizational procedures, contract/s for.....The Principal values full compliance with all relevant laws of the land, rules, regulations, economic use of resources and of fairness/transparency in its relation with its Bidder (s) and / or contractor (s).

In order to achieve these goals, the Principal will appoint an independent External Monitor (IEM), who will monitor the tender process and the execution of the contract for compliance with the principles mentioned above.

### **Section 1 – Commitments of the Principal.**

1.The Principal commits itself to take all measures necessary to prevent corruption and to observe the following principles:-

a. No employee of the Principal, personally or through family members, will in connection with the tender for, or the execution of a contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.

b. The Principal will during the tender process treat all Bidder(s) with equity and reason. The principal will in particular, before and during the tender process, provide to all Bidders (s) the same

Information and will not provide to any Bidders (s) confidential/additional information through which the Bidder(s) could obtain an advantage in relation to the process or the contract execution.

c. The Principal will exclude from the process all known prejudiced persons.

2. If the Principal obtains information on the conduct of any of its employees which is criminal offence under the IPC/PC Act, or if there be a substantive suspicion in this regard, the Principal will

Inform the Chief Vigilance Office and in addition can initiate disciplinary actions.

### **Sections 2 – Commitments of the Bidder (s)/Contractor(s)**

1. The bidder(s) /contractor(s) commit himself to take all measures necessary to prevent corruption. He commits himself to observe the following principles during his participation in the tender process and during the contract execution.

a. The Bidder(s) contractor(s) will not directly or through any other persons of firm, offer promise or give to any of the Principal's employees involved in the tender process of the execution of the contract or to any third person any material or other benefit which he/she is not legally entitled to in order to obtain in exchange any advantage or during the execution of the contract.

- b. The Bidder(s) /Contractor(s) will not enter with other Bidders into any undisclosed agreement of understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process in the bidding process.
- c. The Bidder(s)/Contractor(s) will not commit any offence under the relevant IPC/PC Act, further the Bidder(s) / contractors will not use improperly for purposes of competition or personal gain, or pass on to others, any information or document provided by the Principal as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.
- d. The Bidder(s) / Contractor (s) of foreign origin shall disclose the name and address of the Agent/representatives in India, if any. Similarly the bidder(s)/contractor(s) of Indian Nationality shall furnish the name and address of the foreign principals, if any. Further details as mentioned in the "Guidelines on Indian Agents of Foreign Suppliers" shall be disclosed by the Bidder(s)/Contractor(s). Further, as mentioned in the Guidelines all the payments made to the Indian agent/representative have to be in Indian Rupees only. Copy of the "Guidelines on Indian Agents of Foreign Suppliers" as annexed and marked as Annexure.
- e. The Bidder(s)/Contractor(s) will when presenting his bid, disclose any and all payments he has made is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract.
2. The Bidder (s) /Contractor(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.

### **Section 3: Disqualification from tender process and exclusion from future contracts**

If the Bidder(s)/Contractor(s), before award or during execution has committed transgression through a violation of Section 2, above or in any other form such as to put his reliability or credibility in question, the Principal is entitled to disqualify the Bidder (s)/Contractor(s) from the tender process or take action as per the procedure mentioned in the "Guidelines on Banning of business dealings".

Copy of the "Guidelines on Banning of business dealings" is annexed and marked as Annex-B".

### **Section 4 : Compensation for Damages**

1. If the Principal has disqualified the Bidder(s) from the tender process prior to the award according to Section 3, the Principal is entitled to demand and recover the damages equivalent to Earnest Money Deposit/Bid Security.
2. If the Principal has terminated the contract according to Section 3, or if the Principal is entitled to terminate the contract according to Section 3, the Principal shall be entitled to demand and recover from the Contractor liquidated damages of the Contract value to the amount equivalent to Performance Bank Guarantee.

### **Section 5 : Previous Transgression**

1. The Bidder declares that no previous transgressions occurred in the last three years with any other company in any country conforming to the anti-corruption approach or

with any other public sector enterprise in India that could justify his exclusion from the tender process.

2. If the bidder makes incorrect statement on this subject he can be disqualified from the tender process for action can be taken as per the procedure mentioned in "Guidelines on Banning of business dealings".

**Section 6 : Equal treatment of all Bidders/Contractors/subcontractors.**

1. The Bidder (s)/Contractor(s) undertake(s) to demand from all subcontractors a commitment in conformity with this Integrity Pact, and to submit it to the Principal before contract signing.
2. The Principal will enter into agreements with identical conditions as this one with all bidders, contractors and subcontractors.
3. The Principal will disqualify from the tender process all bidders who do not sign this Pact or violate its provisions.

**Section 7 : Criminal charges against violation Bidder(s)/Contractor(s)/Sub contractor(s).**

If the Principal obtains knowledge of conduct of a Bidder, Contractor or subcontractor, or of an employee or a representative or an associate of a Bidder, Contractor or Subcontractor which constitutes corruption, or if the Principal has substantive suspicion in this regard, the Principal will inform the same to the Chief Vigilance Officer.

**Section 8 : Independent External Monitor/Monitors**

1. The principal appoints competent and credible Independent External Monitor for this Pact. The task of the Monitor is to review independently and objectively, whether and to what extent the parties comply with the obligations under this agreement.
2. The Monitor is not subject to instructions by the representatives of the parties and performs his functions neutrally and independently. He reports to the Chairman & Managing Director, UCO Bank.
3. The Bidder (s)/Contractor (S) accepts that the Monitor has the right to access without restriction to all project documentation of the Principal including that provided by the Contractor. The Contractor will also grant the Monitor, upon his request and demonstration of a valid interest, unrestricted and unconditional access to his project documentation. The same is applicable to subcontractors. The Monitor is under contractual obligation to treat the information and documents of the Bidder (s)/Contractor(s)/Subcontractor(s) with confidentiality.
4. The Principal will provide to the Monitor sufficient information about all meetings among the parties related to the Project provided such meetings could have an impact on the contractual relations between the Principal and the Contractor. The parties offer to the Monitor the option to participate in such meetings.
5. As soon as the Monitor notices, or believes to notice, a violation of this agreement he will so inform the Management of the Principal and request the Management to

discontinue or take corrective action, or to take other relevant action. The monitor can in this regard submit non-binding recommendations. Beyond this, the Monitor has no right to demand from the parties that they act, in a specific manner refrain from action or tolerate action.

6. The Monitor will submit a written report to the Chairman & Managing Director, UCO Bank within 8 to 10 weeks from the date of reference or intimation to him by the Principal and should be occasion arise, submit proposals for correction problematic situations.
7. Monitor shall be entitle to compensation on the same terms as being extended to / provided to Independent Directors on the UCO Bank.
8. If the Monitor has reported to the Chairman & Managing Director, UCO Bank a substantiated suspicion of an offence under relevant IPC/PC Act, and the Chairman & Managing Director, UCO Bank has not, within the reasonable time taken visible action to proceed against such offence or reported it to the Chief Vigilance Officer, the Monitor may also transmit this information directly to the Central Vigilance Commissioner.
9. The word "Monitor" would include both singular and plural.

#### **Section 9 – Pact Duration.**

This pact begins when both parties have legally signed it, if expires for the contractor 10 months after the last payment under the contract, and for all other Bidders & Months ---- the contract has been awarded.

If any claim is made lodged during this time, the same shall be binding and continue to be valid despite the lapse of this pact as specified above, unless it is discharged / determined by Chairman and Managing Director, UCO Bank.

#### **Section 10 – Other provisions**

- This agreement is subject to Indian Law, Place of performance and jurisdiction is the Registered Office of the Principal i.e. KOLKATA.
  - Changes and supplements as well as termination notices need to be made in writing. Side agreements have not been made.
  - If the Contractor is partnership or a consortium, this agreement must be signed by all partners or consortium members.
  - Should one or several provisions of this agreement turn out to be invalid, the remainder of this agreement remains valid. In this case, the parties will strive to come to an agreement to their original intentions.
-

Consultant:  
CONSULTING DEVELOPMENT SERVICES

UCO BANK – RISHRA BRANCH

(For & on behalf of the Principal)

(For & On behalf of Bidder/Contractor)

(Office Seal)

(Office Seal)

Place \_\_\_\_\_

Date \_\_\_\_\_

Witness 1 :

(Name & Address)

\_\_\_\_\_  
\_\_\_\_\_

Witness 2 :

(Name & Address)

\_\_\_\_\_  
\_\_\_\_\_

**ANNEXURE – XIII**  
**FORM OF PERFORMANCE SECURITY**  
**(BANK GUARANTEE)**

IN CONSIDERATION OF THE UCO Bank (hereinafter called the Employer) having agreed to place order on M/s. .... (Hereinafter called the Contractor) for execution of contract against the tender being tender no..... Dated ..... for construction of Buildings, Sanitary & Plumbing and Area Development work for Construction of Bank Building at ..... as per agreement dated ..... and the Contractor having agreed to execute the contract against the said tender and the contractor having agreed to furnish of Bank Guarantee of Rs..... (Rupees..... Only) litigations for fulfilment of said contract in terms and conditions of the said tender we (Name of the Bank) do..... Hereby undertake to pay to the Employer an amount not exceeding Rs..... against any loss or damage caused to or suffered by the Employer by reasons of any breach of the said contract of any of the terms and conditions in to said tender.

We (Name of Bank) do hereby undertake to pay the amounts due and payable under this guarantee without any demur merely on demand from the Employer stating that the amount claimed is due by way of the contractor's and contractor. Any such demand made on the Bank shall be conclusive as regards the amount due payable by Bank under this guarantee. However, our liability under this guarantee, shall be restricted to an amount not exceeding Rs..... (Rupees ..... Only) **AND FOR THE PERIOD OF .....YEARS/MONTHS FROM THE DATE HEREOF.**

We undertake to pay the Employer any money so demanded notwithstanding any dispute or disputes by the Contractor in any suit or proceeding pending before any court of Tribunal relating thereto or liability under this present being an solute and prequivalocal.

The payment so made by us under the **GUARANTEE** shall be a valid discharge of our liability or payment there under and the contractor shall have no claim against us for making much payment.

We (Name of Bank) further agrees that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance or the Agreement to be executed between Employer and contractor and that, it shall continue to be enforceable till all dues of the Employer under or by virtue the said Agreement have been full paid and its claims satisfied or discharged or till appropriate Authority certifies that terms and conditions of the said Agreement have been fully and properly carried out by the said contractor and accordingly discharges this guarantee. Unless a demand or claim under this guarantee is made on us in writing on or before the (Date) .....we shall be discharged from all liability under this guarantee.

We (Name of Bank) further agree/s with the Employer that the Employer shall have the fullest liberty, without our consent and without affecting in any manner our obligations of the said Agreement to extend time of performance by the said contractor from time to time or to postpone for any time or from time to any of the powers exercise able by the Employer against the said Contractor, and to forebear or enforce any if the terms and conditions relating to the said Agreement, and we shall not be relieved to the said Agreement and we shall not be relieved from our liability by reasons of any such variation or for any such variation or for any forbearance any or omission on the part of the Employer any indulgence by the Employer to the said contractor.

By any such matter or thing whatsoever, which under the law relating to sureties would but for this provision have effect of so relieving us.

This guarantee will not be discharged due to the change in the constitution of the bank or of the Contractor.

We (Name of Bank) **FURTHER AGREE THAT WE SHALL NOT REVOKE** this guarantee during the currency **OF THIS GUARANTEE EXCEPT** with the previous consent of the employer/**UCO BANK** in writing.

Notwithstanding anything contained herein :

- (1) Our liability under this Bank guarantee shall not exceed Rs.....  
(Rupees.....) only
- (2) This Bank Guarantee shall be valid upto ..... and
- (3) We are liable to pay the guaranteed amount of any part thereof under this Bank Guarantee only and only if you serve upon a written claim or demand on or before ..... (date of expiry of Guarantee).

Signature and seal of the guarantor.

Name of Bank \_\_\_\_\_

Address \_\_\_\_\_

Date \_\_\_\_\_

**ANNEXURE – XIV**

**FORM OF INDEMNITY BOND**

**On Rs...../- Stamp Paper**

KNOW all men by these presents that I/We ..... (name of the contractor) having its registered office at ....., being the indemnifier do hereby execute indemnity bond in favour of UCO Bank having their Zonal Office at, Hooghly, 21 New GT Road. P.O- Uttarpara Dist.-Hooghly- 712258, and a Zonal Office amongst other places at ..... Pin..... on this ..... day of ....., 2025.

**WHEREAS** the UCO Bank has appointed us as civil contractor for their proposed building at ..... and M/s.....as their Architects/ Engineers.

In consideration of the Bank having agreed to award the aforesaid contract to us more particularly described and stated in the aforesaid Articles of Agreement dated..... and the related tender documents, we do hereby agreed undertake that we, being the indemnifier shall, at the time hereinafter save and keep the bank harmless and indemnified including its respective Directors, officers and employees and keep them indemnified from and against

1. Any third party claims, civil or criminal complaints/ liabilities, site mishaps and other accidents or disputes and/or damages occurring or arising out of any mishaps at the site due to faulty work, negligence, faulty construction and/of for the time being while executing civil work by me/us.
2. Any damages, loss or expenses due to/ resulting from any negligence or breach of duty on the part of me/us or any sub-contractor/s if any, servants or agents.
3. Any claim by an employee of mine/ours or of sub-contractors if any, under the Workmen Compensation Act and Employer Liability Act or any other law, rules and regulations in force for the time being and any acts replacing and/or amendments thereof as may be in force at the time and under any law in respect of injuries to persons or property arising out of and in the course of execution of the contract work and/or arising out of and in course of employment of any workmen/employee.
4. Any act or omission of mine/ours or sub-contractors if any, ours/theirs servants or agents which may involve any loss, damage, liability, civil or criminal action.
5. We further agree and undertake that we shall during the contract period, ensure that all permissions, authorizations, consents are obtained from the local and or municipal and/or governmental authorities, as may be required under the applicable laws, regulations, guidelines, notifications, orders framed or issued by any appropriate authorities.

6. If any, additional approval, consent or permission is required by us to execute and perform the contract during the currency of the contract, we shall procure the same and/or comply with the conditions stipulated by the concerned authorities without any delay.
7. Our obligations herein are irrevocable, absolute and unconditional in each case irrespective of the value, genuineness, validity, regularity or enforceability of the aforesaid agreement or the insolvency, bankruptcy, reorganization, dissolution, liquidation or change in ownership of the bank or indemnifier.
8. Our obligation under this bond shall not be affected by any act, omission, matter or thing which would reduce, release us from any of the indemnified obligation under this indemnity or diminish the indemnified obligations in whole or in part, including in law, equity or contract (whether or not known to it, or to the bank).
9. This indemnity shall be governed by and construed in accordance with the laws of India. We irrevocably agree that any legal action suit or proceedings arising out of or relating to this indemnity may be brought in the Courts, Tribunals at ..... Final judgement against us in any such action, suit or proceedings shall be conclusive and may be enforced in any other jurisdiction by way of suit on the judgement/decree, a certified copy of which shall be conclusive evidence of the judgment/decree, or in any other manner provided by law. By the execution of this indemnity, we irrevocably submit to the exclusive jurisdiction of such Court/Tribunal in any such action suit or proceeding.

IN WITNESS WHEREOF .....has set his/their hands on this..... day of ....., 2025.

SIGNED AND DELIVERED BY THE

AFORESAID .....

IN THE PRESENCE OF WITNESS

1)

2)

UCO Bank hereinafter referred to as "The Principal".

And

.....Hereinafter referred to as "The Bidder/Contractor".

### **Preamble**

The Principal intends to award, under laid down organizational procedures, contract/s for .....The Principal values full compliance with all relevant laws of the land, rules, regulations, economic due of resources and of fairness/transparency in its relation with its Bidder(s) and/or contractor(s).

In order to achieve these goals, the Principal will appoint an independent External Monitor (IEM), who will monitor the tender process and the execution of the contract for compliance with the principles mentioned above.

### **Section 1 – Commitments of the Principal.**

1. The Principal commits itself to take all measures necessary to prevent corruption and to observe the following principles:-
  - a. No employee of the Principal, personally or through family members, will in connection with the tender for, or the execution of a contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.
  - b. The Principal will during the tender process treat all Bidder(s) with equity and reason. The principal will in particular, before and during the tender process, provide to all Bidders(s) the same information and will not provide to any Bidders(s) confidential/additional information through which the Bidder(s) could obtain an advantage in relation to the process or the contract execution.
  - c. The Principal will exclude from the process all known prejudiced persons.
2. If the Principal obtains information on the conduct of any of its employees which is criminal offence under the IPC/PC Act, or if there be a substantive suspicion in this regard, the Principal will inform the Chief Vigilance Office and in addition can initiate disciplinary actions.

### **Section 2 – Commitments of the Bidder(s)/ Contractor(s)**

1. The bidder(s)/ contractor(s) commit himself to take all measures necessary to prevent corruption. He commits himself to observe the following principles during his participation in the tender process and during the contract execution.

- a. The Bidder(s)/ contractor(s) will not directly or through any other persons of firm, offer promise or give to any of the Principal's employees involved in the tender process of the execution of the contract or to any third person any material or other benefit which he/she is not legally entitled to in order to obtain in exchange any advantage or during the execution of the contract.
  - b. The Bidder(s)/ Contractor(s) will not enter with other Bidders into any undisclosed agreement of understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process in the bidding process.
  - c. The Bidder(s)/ Contractor(s) will not commit any offence under the relevant IPC/PC Act, further the Bidder(s)/ contractor(s) will not use improperly for purposes of competition or personal gain, or pass on to others, any information or document provided by the Principal as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.
  - d. The Bidder(s)/ Contractor(s) of foreign origin shall disclose the name and address of the Agent/ representatives in India, if any. Similarly the bidder(s)/contractor(s) of Indian Nationality shall furnish the name and address of the foreign principals, if any. Further details as mentioned in the "Guidelines on Indian Agents of Foreign Suppliers" shall be disclosed by the Bidder(s)/ Contractor(s). Further, as mentioned in the Guidelines all the payments made to the Indian agent/ representative have to be in Indian Rupees only. Copy of the "Guidelines on Indian Agents of Foreign Suppliers" as annexed and marked as Annexure.
  - e. The Bidder(s)/ Contractor(s) will when presenting his bid, disclose any and all payments he has made is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract.
2. The Bidder(s)/ Contractor(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.

### **Section 3: Disqualification from tender process and exclusion from future contracts**

If the Bidder(s)/ Contractor(s), before award or during execution has committed transgression through a violation of Section 2, above or in any other form such as to put his reliability or credibility in question, the Principal is entitled to disqualify the Bidder(s)/ Contractor(s) from the tender process or take action as per the procedure mentioned in the "Guidelines on Banning of business dealings". Copy of the "Guidelines on Banning of business dealings" is annexed and marked as Annex-B".

#### **Section 4: Compensation for Damages**

1. If the Principal has disqualified the Bidder(s) from the tender process prior to the award according to Section 3, the Principal is entitled to demand and recover the damages equivalent to Earnest Money Deposit/ Bid Security.
2. If the Principal has terminated the contract according to Section 3, or if the Principal is entitled to terminate the contract according to Section 3, the Principal shall be entitled to demand and recover from the Contractor liquidated damages of the Contract value of the amount equivalent to Performance Bank Guarantee.

#### **Section 5: Previous Transgression**

1. The Bidder declares that no previous transgressions occurred in the last three years with any other company in any country conforming to the anti-corruption approach or with any other public sector enterprise in India that could justify his exclusion from the tender process.
2. If the bidder makes incorrect statement on this subject he can be disqualified from the tender process for action can be taken as per the procedure mentioned in "Guidelines on Banning of business dealings".

#### **Section 6: Equal treatment of all Bidders/Contractors/Subcontractors.**

1. The Bidder(s)/Contractor(s) undertake(s) to demand from all subcontractors a commitment in conformity with this Integrity Pact, and to submit it to the Principal before contract signing.
2. The Principal will enter into agreements with identical conditions as this one with all bidders, contractors and subcontractors.
3. The Principal will disqualify from the tender process all bidders who do not sign this Pact or violate its provisions.

#### **Section 7 : Criminal charges against violation Bidder(s)/Contractor(s)/Sub contractor(s).**

If the Principal obtain knowledge of conduct of a Bidder, Contractor or Subcontractor, or of an employee or a representative or an associate of a Bidder, Contractor or Subcontractor which constitutes corruption, or if the Principal has substantive suspicion in this regard, the Principal will inform the same to the Chief Vigilance Officer.

#### **Section 8 : Independent External Monitor/ Monitors**

1. The Principal appoints competent and credible Independent External Mentor for this Pact. The task of the Monitor is to review independently and objectively, whether and to what extent the parties comply with the obligations under this agreement.

2. The Monitor is not subject to instructions by the representatives of the parties and performs his functions neutrally and independently. He reports to the Chairman & Managing Director, UCO Bank.
3. The Bidder(s)/Contractor(s) accepts that the Monitor has the right to access without restriction to all project documentation of the Principal including that provided by the Contractor. The Contractor will also grant the Monitor, upon his request and demonstration of a valid interest, unrestricted and unconditional access to his project documentation. The same is applicable to subcontractors. The Monitor is under contractual obligation to treat the information and documents of the Bidder(s)/ Contractor(s)/ Subcontractor(s) with confidentiality.
4. The Principal will provide to the Monitor sufficient information about all meetings among the parties related to the Project provided such meetings could have an impact on the contractual relations between the Principal and the Contractor. The parties offer to the Monitor the option to participate in such meetings.
5. As soon as the Monitor notices, or believes to notice, a violation of this agreement he will so inform the Management of the Principal and request the Management to discontinue or take corrective action, or to take other relevant action. The Monitor can in this regard submit non-binding recommendations. Beyond this, the Monitor has no right to demand from the parties that they act, in a specific manner refrain from action or tolerate action.
6. The Monitor will submit a written report to the Chairman & Managing Director, UCO Bank within 8 to 10 weeks from the date of reference or intimation to him by the Principal and should be occasion arise, submit proposals for correction problematic situations.
7. Monitor shall be entitle to compensation on the same terms as being extended to / provided to Independent Directors on the UCO Bank.
8. If the Monitor has reported to the Chairman & Managing Director, UCO Bank a substantiated suspicion of an offence under relevant IPC/PC Act, and the Chairman & Managing Director, UCO Bank has not, within the reasonable time taken visible action to proceed against such offence or reported it to the Chief Vigilance Officer, the Monitor may also transmit this information directly to the Central Vigilance Commissioner.
9. The word "Monitor" would include both singular and plural.

#### **Section 9 : Pact Duration**

This pact begins when both parties have legally signed it, if expires for the contractor 10 months after the last payment under the contract, and for all other Bidders & Months ----- the contract has been awarded.

If any claim is made lodged during this time, the same shall be binding and continue to be valid despite the lapse of this pact as specified above, unless it is discharged/ determined by Chairman and Managing Director, UCO Bank.

**Section 10 : Other provisions**

- This agreement is subject to Indian Law, Place of performance and jurisdiction is the Registered Office of the Principal i.e. New Delhi.
- Changes and supplements as well as termination notices need to be made in writing. Side agreements have not been made.
- If the Contractor is partnership or a consortium, this agreement must be signed by all partners or consortium members.
- Should one or several provisions of this agreement turn out to be invalid, the remainder of this agreement remains valid. In this case, the parties will strive to come to an agreement to their original intentions.

(For & on behalf of the Principal)

(For & on behalf of Bidder/Contractor)

(Official Seal)

(Official Seal)

Place \_\_\_\_\_

Date \_\_\_\_\_

Witness 1 :

\_\_\_\_\_

\_\_\_\_\_

Witness 2 :

\_\_\_\_\_

\_\_\_\_\_