


SUMMARY SHEET FOR ELECTRICAL WORKS- Final bill

Order Number BLR/PO/23-24/000661

| SR. NO. | DESCRIPTION | WO AMOUNT | RA-1 BILL AMOUNT | Final Bill |
|----------|--|------------------|------------------|-------------------|
| A | <u>ELECTRICAL</u> | | | |
| 1.0 | PANELS, SWITCHGEAR & DISTRIBUTION BOARDS | 4,20,680 | 3,57,470 | |
| 2.0 | MV CABLES | 57,031 | 35,575 | 53,800 ✓ |
| 3.0 | RACEWAY & CABLE TRAY | 33,850 | 32,860 | |
| 4.0 | POINT WIRING | 4,81,320 | 4,41,610 | 50,760 ✓ |
| 5.0 | MODULAR SWITCHES | 15,090 | 33,060 | |
| 6.0 | GENERAL EARTHING | 22,500 | 1,620 | |
| 7.0 | LIGHT FIXTURES ONLY INSTALLATION | 19,400 | 1,750 | 36,850 ✓ |
| 8.0 | MISCELLANEOUS | 1,400 | 7,300 | |
| 9.0 | UPS | 75,300 | 75,300 | |
| | DATA & NETWORK (BMS) | 53,760 | | |
| | TOTAL FOR ELECTRICAL WORKS | 11,80,331 | 9,86,545 | 1,41,410 ✓ |
| | DISCOUNT(6.81%) | 80,331 | 67,142 | 9,616 |
| | GRAND TOTAL | 11,00,000 | 9,19,403 | 1,31,794 |
| | GST(18%) | 1,98,000 | 1,65,493 | 23,723 |
| | GRAND TOTAL WITH GST | 12,98,000 | 10,84,896 | 1,55,517 |

(RUPEES ONCE LAKH FIFTY FIVE THOUSAND FIVE HUNDRED SEVENTEEN ONLY)

| | |
|--|-------------------------|
|  21/3/24 | |
| CERTIFIED BY | ACCEPTED BY |
| RANJANDAS SHETTY | ARROW ELECTRICAL |

BLR-T2-TFS_F&B IRISH HOUSE
 BILL OF QUANTITIES FOR MV CABLES - RA-1 BILL
 Order Number BLR/PO/23-24/000661

| SR. NO. | DESCRIPTION | UNIT | TOTAL QTY. | RATE IN Rs. | TOTAL AMOUNT IN Rs. | RA-1 BILL | | FINAL BILL | |
|------------|--|------|------------|-------------|----------------------|-----------|---------------|------------|---------------|
| | | | | | | QTY | AMOUNT | Qty | Amount |
| 2.0 | MV CABLES | | | | | | | | |
| 2.1 | POWER CABLING | | | | | | | | |
| | Supply and laying, effecting proper connections, testing & commissioning of the following sizes of 1.1 KV XLPE FRLSH armoured/ unarmoured PVC insulated PVC sheathed aluminium /copper conductor cables conforming to IS : 1554 and IS 694 for Flexible copper cable Part I - 1976 with latest amendments laid over MS supports in existing RCC ducts/ laid in ground /laid on Cable Trays including clamping the cables to supports in an approved manner as required complete with all accessories.All cables shall have thermo setting insulation XLPE and low emission of smoke and corrosive gas when affected by fire. Necessary Markers shall be provided at the intervals as per the specifications. | | | | | | | | |
| 2.1.1 | Aluminium cables | | | | | | | | |
| a | 3.5C x 70 Sq.mm. | Mtr. | | 755 | 0.00 | | | | |
| b | 3.5C x 35 Sq.mm. | Mtr. | 15 | 460 | 6,900.00 | 8 | 3,680 | | |
| c | 4C x 25 Sq.mm. | Mtr. | 10 | 375 | 3,750.00 | | | | |
| 2.1.2 | - do - but for copper cables | | | | | | | | |
| a | 4C x 16 Sq.mm. | Mtr. | 10 | 875 | 8,750.00 | 8 | 7,000 | | |
| b | 4C x 10 Sq.mm. | Mtr. | | 750 | 0.00 | 8 | 6,000 | | |
| c | 4C x 6 Sq.mm. | Mtr. | 10 | 428 | 4,280.00 | 10 | 4,280 | | |
| d | 4C x 4 Sq.mm. | Mtr. | 10 | 385 | 3,850.00 | 12 | 4,620 | 100 | 38,500 |
| e | 4C x 2.5 Sq.mm. | Mtr. | | 230 | 0.00 | | | | |
| f | 3C x 6 Sq.mm. | Mtr. | | 424 | 0.00 | | | | |
| g | 3C x 4 Sq.mm. | Mtr. | 45 | 245 | 11,025.00 | | | | |
| h | 3C x 2.5 Sq.mm. | Mtr. | | 374 | 0.00 | | | | |
| 2.1.3 | CU Flexible Cables | | | | | | | | |
| a | 3C x 6 Sq.mm. | Mtr. | | 405 | 0.00 | | | | |
| b | 4C x 4 Sq.mm. | Mtr. | | 326 | 0.00 | | | | |
| c | 3C x 4 Sq.mm. | Mtr. | | 290 | 0.00 | | | | |
| d | 3C x 2.5 Sq.mm. | Mtr. | 20 | 265 | 5,300.00 | | | | |
| e | 2C x 2.5 Sq.mm. for Earthing | Mtr. | | 155 | 0.00 | | | | |
| 2.1.4 | - do - but for copper flexible cables | | | | | | | | |
| a | 1c x 4 Sq.mm PVC insulated PVC flexible copper conductor cables alongwith termination (GREEN COLOUR) | Mtr. | 100 | 55 | 5,500.00 | 85 | 4,675 | 180 | 15,300 |
| | TOTAL FOR POWER CABLES | | | | 49,355.00 | | 30,255 | | 53,800 |
| 2.2 | CABLE TERMINATION | | | | | | | | |
| | Making cable and terminations including brass single compression glands and crimping type copper lugs for cable sizes mentioned below for aluminium or copper. | | | | | | | | |
| 2.2.1 | Aluminium cables | | | | | | | | |
| a | 3.5C x 70 Sq.mm. | Nos. | | 1,110 | 0.00 | | | | |
| b | 3.5C x 35 Sq.mm. | Nos. | 2 | 720 | 1,440.00 | 2 | 1,440 | | |
| c | 4C x 25 Sq.mm. | Nos. | | 512 | 0.00 | | | | |
| 2.2.2 | - do - but for copper cables | | | | | | | | |
| a | 4C x 16 Sq.mm. | Nos. | 2 | 588 | 1,176.00 | 2 | 1,176 | | |
| b | 4C x 10 Sq.mm. | Nos. | | 532 | 0.00 | 2 | 1,064 | | |
| c | 4C x 6 Sq.mm. | Nos. | 2 | 430 | 860.00 | 2 | 860 | | |
| d | 4C x 4 Sq.mm. | Nos. | 4 | 390 | 1,560.00 | 2 | 780 | | |
| e | 4C x 2.5 Sq.mm. | Nos. | | 250 | 0.00 | | | | |
| f | 3C x 6 Sq.mm. | Nos. | | 390 | 0.00 | | | | |
| g | 3C x 4 Sq.mm. | Nos. | 8 | 250 | 2,000.00 | | | | |
| h | 3C x 2.5 Sq.mm. | Nos. | | 250 | 0.00 | | | | |
| 2.2.3 | CU Flexible Cables | | | | | | | | |
| a | 3C x 6 Sq.mm. | Nos. | | 190 | 0.00 | | | | |
| b | 4C x 4 Sq.mm. | Nos. | | 190 | 0.00 | | | | |
| c | 3C x 4 Sq.mm. | Nos. | | 170 | 0.00 | | | | |
| d | 3C x 2.5 Sq.mm. | Nos. | 4 | 160 | 640.00 | | | | |
| e | 2C x 2.5 Sq.mm. for Earthing | Nos. | | 160 | 0.00 | | | | |
| | | Nos. | | | 0.00 | | | | |
| 2.2.4 | - do - but for copper flexible cables | | | | | | | | |
| a | 1c x 4 Sq.mm PVC insulated PVC flexible copper conductor cables alongwith termination (GREEN COLOUR) | Nos. | | 70.00 | 0.00 | | | | |
| | TOTAL FOR POWER CABLE TERMINATION | | | | 7,676.00 | | 5,320 | | |
| | TOTAL FOR CABLES & TERMINATION | | | | Rs. 57,031.00 | | 35,575 | | 53,800 |
| 2.3 | DATA & NETWORK (BMS) | | | | | | | | |
| 2.3.1 | Wiring with CAT6A cable | Rmt | 210 | 180 | 37,800.00 | | | | |
| | Providing DATA wiring inside 25mm dia GI conduit from each Data outlet to ICT CP Point by using Indoor Type CAT6A, Rosenberger/RM make. | | | | | | | | |
| 2.3.2 | Supply & Installation of Internet Jack Unit RJ-45 suitable for CAT6A Rosenberger make. | Nos. | 14 | 440 | 6,160.00 | | | | |

| SR. NO. | DESCRIPTION | UNIT | TOTAL QTY. | RATE IN Rs. | TOTAL AMOUNT IN Rs. | RA-1 BILL | | FINAL BILL | |
|---------|---|------|------------|-------------|---------------------|-----------|--------|------------|--------|
| | | | | | | QTY | AMOUNT | Qty | Amount |
| | Installation, testing & commissioning of Data Jack Unit RJ-45 With shutter including concealed modular switchboard assembly including concealed hot-dipped GI box and front plates in white color of poly carbonate material, necessary wiring etc. complete for Internet Point. Cost of Supply of RJ45 , back box, front plate, cover to be included. | | | | | | | | |
| 2.3.3 | Supply & Installation of Rosenberger make Cat 6A, UTP Patch Cords, with snagless boots, color matched, Blue, 3 Feet | Nos. | 28 | 350 | 9,800.00 | | | | |
| | DATA & NETWORK (BMS) | | | | 53,760.00 | | | | |

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| SR. NO. | DESCRIPTION | UNIT | TOTAL QTY. | RATE IN Rs. | TOTAL AMOUNT IN Rs. | RA-1 BILL | | FINAL BILL | |
|---------|---|------|------------|-------------|---------------------|-----------|----------|------------|--------|
| | | | | | | QTY | AMOUNT | Qty | Amount |
| 4.0 | POINT WIRING | | | | | | | | |
| | Point wiring LENGTH from DB to SB or First Light point control be MCB shall be avg. of 15Mtr. of 3C x 2.5 sq mm FRLS PVC insulated stranded copper conductor wires. For SB to SB the length shall be measured in Mtr. | | | | | | | | |
| | The secondary/Loop point length shall be 10Mtr from Light fixture to light fixture. If secondary point shall be operated from MCB then the length shall be 10 Mtr. | | | | | | | | |
| | All sockets to be checked with a Check Plug socket tester for live-neutral reverse, no earth,neutral fault, live earth reverse, neutral earth reverse. | | | | | | | | |
| | The Circuit No. and DB no. label shall be provided on all UPS ,RAW sockets and switchboards with label printer. | | | | | | | | |
| | The Length shall be paid as per the actual measurements & as per following manner. | | | | | | | | |
| 4.1 | Wiring for the Primary light points with 3C x 2.5 Sq.mm FRLS PVC insulated stranded copper conductor wires in GI conduits in F.ceiling/walls/ceiling as direc-ted from Distribution Board to Switch Board including providing 6 amps flush type switches, 5 sided G.I Boxes for housing switch-es and earth-ing complete as required. Rates shall exclusive of Switches & Switch boxes. | | | | | | | | |
| 4.1.1 | From DB to Normal Switch Board | Mtr. | 10 | 358 | 3,580 | | | | |
| 4.1.2 | From DB to Emergency Switch Board | Mtr. | 10 | 358 | 3,580 | | | | |
| 4.2 | Wiring for the following light points with 3 x 2.5 Sq.mm FRLS PVC insulated stranded copper conductor wires in GI conduits in F.ceiling/walls/ceiling as direc-ted including providing 6 amps flush type switches, 5 sided G.I Boxes for housing switch-es and earth-ing complete as required from the above switch board. Rates shall exclusive of Switches & Switch Box. (FROM SB TO LIGHT) | | | | | | | | |
| 4.2.1 | First point controlled by one no. 6 amp switch. (upto 10Mtr.) | Nos. | 5 | 2,120 | 10,600 | | | 3 | 6,360 |
| 4.2.2 | First point controlled by one no. 6 amp switch. (upto 20Mtr.) | Nos. | | 2,950 | | | | | |
| 4.2.3 | First point controlled by one no. 6 amp switch. For Emergency Light (upto 10Mtr.) | Nos. | 4 | 2,120 | 8,480 | | | | |
| 4.2.4 | First point controlled by one no. 6 amp switch. For Emergency Light (upto 20Mtr.) | Nos. | | 2,950 | | | | | |
| 4.3 | Same as item No. 4.2.1 & 4.2.2 above but LOOP POINT i.e. wiring of point looped from first point with 3C x 2.5 sq. mm FRLS PVC insulated copper conductor wire in concealed/exposed GI conduit and earthing | Nos. | 4 | 1,210 | 4,840 | | | | |
| 4.4 | Same as item No. 4.2.3 & 4.2.4 above but LOOP POINT i.e. wiring of point looped from first point with 3C x 2.5 sq. mm FRLS PVC insulated copper conductor wire in concealed/exposed GI conduit and earthing For Emergency Light | Nos. | 1 | 1,210 | 1,210 | | | | |
| 4.5 | Wiring for the following light points controlled by MCB in DB (Cost of MCB has been taken elsewhere in the tender) with 3C x 2.5 sq. mm FRLS PVC insulated copper conductor wires in concealed/exposed GI conduits as called for and earthing. | | | | | | | | |
| 4.5.1 | First point controlled by existing MCB in D.B. | Mtr. | 105 | 240 | 25,200 | 185 | 44,400 | | |
| 4.5.2 | First Emergency point controlled by existing MCB in D.B. | Mtr. | 15 | 240 | 3,600 | 19 | 4,560 | | |
| 4.6 | Same as item No.4.5.1 above but LOOP POINT i.e. wiring of point looped from first point with 3C x 2.5 sq. mm FRLS. insulated copper conductor wire in concealed/exposed GI conduit and earthing | Nos. | 28 | 1,110 | 31,080 | 50 | 55,500 | 40 | 44,400 |
| 4.7 | Same as item No. 4.5.2 above but LOOP POINT i.e. wiring of point looped from first point with 3C x 2.5 sq. mm FRLS. insulated copper conductor wire in concealed/exposed M.S. conduit and earthing For Emergency Lighting | Nos. | 5 | 1,110 | 5,550 | 2 | 2,220 | | |
| 4.8 | Wiring for UPS/Raw plug outlets points with 3C x 4 sqmm FRLS PVC Insulated and PVC sheathed flexible cable with bright annealed electrolytic copper conductor , 1100 volt grade confirming to IS : 694-1990 with latest amendments, in existing Channels/ conduit in ceiling/walls/floor including all cable termination accessories) (Including body earth for GI boxes) | Mtr. | 875 | 240 | 2,10,000 | 672 | 1,61,280 | | |

BILL OF QUANTITIES FOR POINT WIRING - RA-1 BILL

Order Number BLR/PO/23-24/000661

| SR. NO. | DESCRIPTION | UNIT | TOTAL QTY. | RATE IN Rs. | TOTAL AMOUNT IN Rs. | RA-1 BILL | | FINAL BILL | |
|-------------------------------|--|------|------------|-------------|---------------------|-----------|-----------------|------------|---------------|
| | | | | | | QTY | AMOUNT | Qty | Amount |
| 4.9 | Providing and fixing in position the following GI RIGID conduits including all accessories concealed in F. ceiling/wall/floor as required including pull boxes with 3mm thick perspex sheet cover plate complete with 1.6 mm dia. G.I. pull wires in the length of conduit. | | | | | | | | |
| 4.9.1 | 20.mm dia GI Conduit | Mtr. | | 180 | | | | | |
| 4.9.2 | 25 mm dia GI Conduit | Mtr. | 850 | 200 | 1,70,000 | 857 | 1,71,400 | | |
| 4.10 | Providing and fixing in position the following GI FLEXIBLE conduits including all accessories concealed in F. ceiling/wall/floor as required including pull boxes with 3mm thick perspex sheet cover plate complete with 1.6 mm dia. G.I. pull wires in the length of conduit. | | | | | | | | |
| 4.10.1 | 20 mm dia GI Conduit | Mtr. | | 40 | | | | | |
| 4.10.2 | 25 mm dia GI Conduit | Mtr. | 80 | 45 | 3,600 | 50 | 2,250 | | |
| 4.11 | Supply & Laying of 2Cx1.5 Sq.mm FRLS Cu Flexible Cable in 2 | Mtr. | | 322 | | | | | |
| TOTAL FOR POINT WIRING | | | | Rs. | 4,81,320 | | 4,41,610 | | 50,760 |

BLR-T2-TFS_F&B_IRISH HOUSE
 BILL OF QUANTITIES FOR LIGHT FIXTURE INSTALLATION - RA-1 BILL
 Order Number BLR/PO/23-24/000661

| SR. NO. | DESCRIPTION | UNIT | TOTAL QTY. | RATE IN Rs. | AMOUNT | RA-1 BILL | | FINAL BILL | |
|------------|--|------|------------|-------------|---------------|-----------|--------------|------------|---------------|
| | | | | | | QTY | AMOUNT | Qty | Amount |
| 7.0 | LIGHT FIXTURES INSTALLATION | | | | | | | | |
| 7.1 | Receiving from Store, Installation, testing & commissioning of following light fixtures with complete installation hardwares including Anchor fastner, supporting Hook/Rods as per final approval from Architect/Client/Consultant | | | | | | | | |
| 7.1.1 | HANGING LIGHT | Nos. | 25 | 400 | 10,000 | | | 24 | 9,600 |
| 7.1.2 | HANGING WOODEN BARREL LIGHT | Nos. | 7 | 450 | 3,150 | | | | |
| 7.1.3 | DECORATIVE HANGING LIGHT | Nos. | 1 | 400 | 400 | | | | |
| 7.1.4 | LED PANEL LIGHT | Nos. | 8 | 250 | 2,000 | 7 | 1,750 | | |
| 7.1.5 | HANGING WOODEN BARREL LIGHT EMERGENCY | Nos. | 6 | 350 | 2,100 | | | | |
| 7.1.6 | LED PANEL LIGHT EMERGENCY | Nos. | 5 | 350 | 1,750 | | | | |
| | HANGING WOODEN BARREL LIGHT-weight-25kg | Nos. | | 1,000 | | | | 14 | 14,000 |
| | supply of light driver | Nos. | | 750 | | | | 1 | 750 |
| | Sitc 3-phase energy meter L/T make-For T1 materiyal yard | Nos. | | 12,500 | | | | 1 | 12,500 |
| | TOTAL FOR LIGHT FIXTURE | | | Rs. | 19,400 | | 1,750 | | 36,850 |