

**College of Language and Culture Studies  
Construction of 4 Units of 4 Blocks each Staff  
Residences**

**Bill of Quantity (BoQ) - Electrical Works**

| Sl. No. | Item Description  | Quantity | Unit | Rate (Nu.) | Amount (Nu.) |
|---------|---|----------|------|------------|--------------|
|         | Providing and drawing of 1.1kV grade PVC insulated copper conductor in PVC/Alkathene pipe, with Red, Yellow and Blue colour insulations corresponding to the phases and Black for Neutral   |          |      |            |              |
| 1.0     | 2x1.5 Sq.mm PVC insulated copper conductor in PVC/Alkathene pipe, uninterrupted between fitting/appliance and switchboard.  | 620      | m    |            |              |
| 2.0     | 2x2.5 Sq.mm PVC insulated copper conductor in PVC/Alkathene pipe, uninterrupted between DBs and or switchboards.  | 396      | m    |            |              |
| 3.0     | 2x4 Sq.mm PVC insulated copper conductor in PVC/Alkathene pipe, uninterrupted between DBs and or powersocket/s.   | 570      | m    |            |              |
|         |   |          |      |            |              |
|         | Providing and drawing of green PVC insulated copper conductor running earthing  |          |      |            |              |
| 4.0     | 1.5 Sq.mm in PVC/Alkathene pipe, uninterrupted between fitting/appliance and DBs.   | 310      | m    |            |              |
| 5.0     | 2.5 Sq.mm in PVC/Alkathene pipe, uninterrupted between powersockets and or DBs.   | 342      | m    |            |              |
|         |   |          |      |            |              |
|         | Supplying and laying of 2mm PVC (or HDPE for flexibility) conduits in building structures for drawing of lighting, power, LAN and TV circuits including bends, elbows, Tees, and other necessary couplings  |          |      |            |              |
| 6.000   | 25 mm dia PVC conduit pipe, concealed   | 882      | m    |            |              |
|         |   |          |      |            |              |
|         | Supply and laying of armoured underground cables in cable trenches for supply mains between distribution feeders and service connections to buildings   |          |      |            |              |
| 7.0     | Main Service cable 4- core XLPE Armour cable 90 sq.mm   | 76       | m    |            |              |
| 8.0     | Sub Main cable 3- core XLPE Armour cable 16sq.mm.   | 76       | m    |            |              |
|         |   |          |      |            |              |
|         | Providing and laying of HDPE conduits for drawing in of the service cables and earthing mains between MDB location and plinth of building or footpath/road crossings at depth not less than 750mm for part in the ground and embedded in the wall surfaces in b |          |      |            |              |
| 9.0     | 32mm dia HDPE conduit pipe  | 30       | m    |            |              |
| 10.0    | 50mm dia HDPE conduit pipe  | 15       | m    |            |              |
|         |   |          |      |            |              |
|         | Providing and fixing of metallic junction boxes with punches on four sides and centre to receive 25mm dia conduits, 3mm bakelite sheet cover screwed with 15-20mm brass/GI machine screws, flushed in the wall/ceiling surface                                  |          |      |            |              |
| 11.0    | 75x75x60mm junction box with bakelite sheet cover   | 60       | each |            |              |
| 12.0    | Providing and fixing of bakelite ceiling rose with brass connectors: 10A  | 96       | each |            |              |
|         |   |          |      |            |              |
|         | Provide and fix architrave range switch with different modules mounted on suitable metal box having ivory colour face plate: MK India brand or equivalent.  |          |      |            |              |
| 13.0    | Single switch (37404AWHI) with metal box (W26043), base plate and cover plate (37001WHI)  | 12       | each |            |              |

|      |  |    |      |  |  |
|------|--|----|------|--|--|
| 14.0 | Double switches (37404AWHI) with metal box (W26043), base plate and cover plate (37002WHI)   | 20 | each |  |  |
| 15.0 | Tripple switches (37404AWHI) with box (W26043), base plate and cover plate (37003WHI)  | 24 | each |  |  |
| 16.0 | Four switches (37404AWHI) with metal box (W26045), base plate and cover plate (37004WHI)   | 4  | each |  |  |
|      |  |    |      |  |  |
|      | Provide and fix architrave range socket and switch with different modules mounted on suitable metal box having ivory colour face plate: MK India brand or equivalent.  |    |      |  |  |
| 17.0 | 6A, 6 pin socket (W26420), 6A one way switch with indicator (37403AWHI), cover plate (37003WHI), base plate and metal box (W26043). Flushed type   | 4  | each |  |  |
| 18.0 | 6/16A 6 pin socket (W26424), 16A one way switch with indicator (W26413A), cover plate (37004WHI), base plate and metal box (W26045). Flushed type  | 60 | each |  |  |
|      |  |    |      |  |  |
|      | Supplying, fixing, testing and commissioning of following light/fan call bell fittings with complete installation for ready services to building users   |    |      |  |  |
| 19.0 | Heavy duty brass pendent holder with PVC cord grip from ceiling rose and 9watt LED bulb (Approved by BSB)  | 8  | each |  |  |
| 20.0 | Wall bracket projection 225mm, height 240mm finish painted, glass frosted, 1x9watt LED lamp.   | 40 | each |  |  |
| 21.0 | Supplying of aesthetically designed aluminum body with decorative end caps available in the graphite & grey finish(surface/suspended) (including LED tube) 20W . CAT No.JNN-GRY-LSTRO1R020XC/XW . Jaquar make or equivalent (BSB apprpved Brand) | 68 | each |  |  |
| 22.0 | Chimed musical electric call bell, 230V AC   | 4  | each |  |  |
|      |  |    |      |  |  |
|      | Supplying, installation, testing and commissioning of exhaust fan fittings   |    |      |  |  |
| 23.0 | 12" dia fan (Khaitan, Usha or Crompton)  | 16 | each |  |  |
|      |  |    |      |  |  |
|      | Providing and fixing of wooden distribution boards with shutter panel having locking arrangement   |    |      |  |  |
| 24.0 | 600x600x230 deep (Internal finished sizes)   | 4  | each |  |  |
| 25.0 | 900x600x230 deep (Internal finished sizes)   | 1  | each |  |  |
|      |  |    |      |  |  |
|      | Supplying and fixing of single phase MCB DBs, MDS Legrand  |    |      |  |  |
| 26.0 | Double pole enclosure  | 4  | each |  |  |
| 27.0 | Four pole enclosure, Cat. Ref. No. 6013 08   | 4  | each |  |  |
| 28.0 | Six pole enclosure   | 4  | each |  |  |
| 29.0 | Eight ways SP MCB DB, Cat. Ref. No. 6013 09  | 4  | each |  |  |
|      |  |    |      |  |  |
|      | Single pole MCBs   |    |      |  |  |
| 30.0 | Single pole MCB: 6A Cat. Ref. No. 6032 31  | 12 | each |  |  |
| 31.0 | Single pole MCB: 10A Cat. Ref. No. 6032 33   | 19 | each |  |  |
| 32.0 | Single pole MCB: 15A Cat. Ref. No. 6032 34   | 25 | each |  |  |
|      |  |    |      |  |  |
|      | Double pole MCBs   |    |      |  |  |
| 33.0 | 2 pole MCB: 30A Cat. Ref. No. 6032 71  | 4  | each |  |  |
| 34.0 | 2 pole MCB: 40A Cat. Ref. No. 6032 72  | 4  | each |  |  |
| 35.0 |  |    |      |  |  |
|      | Providing, fixing, testing and commisioning of MDS Legrand or superior quality moulded case circuit breakers of breaking capacity mentioned against the item   |    |      |  |  |
| 35.0 | 125A 4 pole moulded case circuit breaker (MCCB), 25kA  | 1  | each |  |  |
|      |  |    |      |  |  |

|      |   |   |      |  |  |
|------|---|---|------|--|--|
|      | Providing, fixing, testing and commissioning of MDS Legrand or superior quality earth leakage circuit breakers of breaking capacity mentioned against the item                              |   |      |  |  |
| 37.0 | Earth leakage circuit breaker: 40A, 2pole, 100 mA sensitivity Cat. Ref. No. 086 10 (ELCB/RCCB)  | 4 | each |  |  |
| 38   | Earth leakage circuit breaker: 60A, 2pole, 100 mA sensitivity Cat. Ref. No. 086 11 (ELCB/RCCB)  | 4 | each |  |  |
|      |   |   |      |  |  |
|      | Providing, fixing, testing and commissioning of MDS Legrand or superior quality earth leakage, overload and short circuit protection (RCBO) of breaking capacity mentioned against the item |   |      |  |  |
| 39.0 | 40A 2 pole, 300 mA sensitivity RCBO, Cat. Ref. No. 6033 87  | 4 | each |  |  |
| 40   | 63A 2 pole, 300 mA sensitivity RCBO, Cat. Ref. No. 6033 88  | 4 | each |  |  |
|      |   |   |      |  |  |
|      | Connection of cables in main DB with miscellaneous accessories and equipments.  |   |      |  |  |
| 41.0 | Double pole Main Switch and 6 ways MCB DB   | 4 | each |  |  |
| 42   | Double pole Main Switch and 8 ways MCB DB   | 4 | each |  |  |
|      | Double pole ELCB with miscellaneous accessories   | 8 | each |  |  |
| 43.0 | 4 Pole Main Switch and 4 strips busbars   | 1 | each |  |  |
|      |   |   |      |  |  |
|      | <b>Earthings</b>  |   |      |  |  |
| 44.0 | Provide and instal earthing with 600x600x6mm GI plate and accessories, including 15m long 25x4mm GI strip running upto DB.  | 3 | each |  |  |
|      |   |   |      |  |  |
| 45.0 | Providing and erecting in position of the Lightning Arrestors including the required materials like the base, earthing, connection of earth strip etc. for complete job                     |   |      |  |  |
|      | 5 Spikes copper lightning arrestor, 1.5m high   | 2 | each |  |  |
|      |   |   |      |  |  |
| 46.0 | Supply, Installation and commissioning of three phase energy meter of suitable size after consulting BPC complete as required.  | 4 | each |  |  |
|      |   |   |      |  |  |
|      | Total for one Building  |   |      |  |  |
|      | <b>Total for Four Building</b>  |   |      |  |  |