# INDIAN INSTITUTE OF TECHNOLOGY MADRAS ENGINEERING UNIT 

CHENNAI - 600036

## Price Bid (Volume 2)

## T. No 01/2013-14/Eldb

Name of the work : | Annual Maintenance contract for day to day routine |
| :--- |
| maintenance of electrical installation and minor |
| projects in Academic zone buildings for the year |
|  |
| $2013-14$ |

Date of Submission of Technical \& Price bid $\quad: 03.00 \mathrm{pm}$ on 28/01/2013

Date of opening of $: 03.10 \mathrm{pm}$ on 28/01/2013
Technical bid

Date of opening of
Price bid
: Will be intimated later
Bid Submitted to
: The Executive Engineer (E), Engineering Unit, Administrative Block III Floor, IITM, Chennai-36
-sd-
Consultant (Elec)
-sd-
Executive Engineer (Elec)

## INDIAN INSTITUTE OF TECHNOLOGY MADRAS

ENGINEERING UNIT
CHENNAI - 600036

## TENDER DOCUMENT FOR

Annual Maintenance contract for day to day routine maintenance of electrical installation and minor projects in Academic zone buildings for the year 2013-14.

## VOLUME-2 (PRICE BID)

## BILL OF QUANTITIES

Other volume:

Vol-1: Notice inviting tenders, Conditions of Contract, Additional specifications, General Conditions of Contract , list of approved makes etc.,

## INDIAN INSTITUTE OF TECHNOLOGY MADRAS CHENNAI-36 <br> Tender No. 01/2013-14/ELDB

Nane of Work: Annual Maintenance contract for day to day routine electrical maintenance and minor projects at Academic zone buildings for the year 2013-14

| Part A |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { S.L } \\ & \text { No } \end{aligned}$ | Description of item | Qty | Rate | Each | Amount |
| 1 | Charges for operation of lifts at Administrative block as per the terms \& condition specified. | 12 |  | Month |  |
| ( Rate in words Rupees .............................................................................) |  |  |  |  |  |
| 2 | Labour charges for minimum 2 wiremen \& 2 Helpers for rectification of faults in panel boards, distribution board, switch boards, all kinds of light fittings and fans, equipments and all accessories and making them in good working condition. | 12 |  | Month |  |
| ( Rate in words Rupees ..............................................................................) $)$ |  |  |  |  |  |
| 3 | Supplying of following accessories for replacement in item no. 2 as and when required during the AMC period. |  |  |  |  |
| 3.1 | $1200 \mathrm{~mm} \times 40 \mathrm{w}$ flourescent tube | 2000 |  | Each |  |
| ( Rate in words Rupees ...............................................................................) |  |  |  |  |  |
| 3.2 | 600 mm x 18 watts florescent tube | 800 |  | Each |  |
| ( Rate in words Rupees ...............................................................................) |  |  |  |  |  |
| 3.3 | 36 watts compact flourescent lamp | 300 |  | Each |  |
| ( Rate in words Rupees ..............................................................................) |  |  |  |  |  |
| 3.4 | 40 watts electronics ballast | 600 |  | Each |  |
| ( Rate in words Rupees ..............................................................................) |  |  |  |  |  |
| 3.5 | 40w starter | 800 |  | Each |  |
| ( Rate in words Rupees ..............................................................................) |  |  |  |  |  |
| 3.6 | 20w starter | 300 |  | Each |  |
| ( Rate in words Rupees ........................................................................) |  |  |  |  |  |
| 3.7 | 9w / 11 W PL Lamp | 200 |  | Each |  |
| ( Rate in words Rupees .........................................................................) |  |  |  |  |  |

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| 3.8 | 9w/ 11 watts electronic ballast. | 150 | Each |  |
| :---: | :---: | :---: | :---: | :---: |
| ( Rate in words Rupees ...................................................................................) ${ }^{\text {( }}$ ) |  |  |  |  |
| 3.9 | 50 Watts Holgen spot lamps complete set including power supply unit. | 100 | Each |  |
| ( Rate in words Rupees .....................................................................................) |  |  |  |  |
| 3.10 | 5 amps .3 pin top | 50 | Each |  |
| ( Rate in words Rupees ................................................................................) |  |  |  |  |
| 3.11 | 15 amps .3 pin top | 50 | Each |  |
| ( Rate in words Rupees ....................................................................................) |  |  |  |  |
| 3.12 | Resistant type fan regulator | 25 | Each |  |
| ( Rate in words Rupees ...............................................................................) ${ }^{\text {( }}$ ) |  |  |  |  |
| 3.13 | Ceiling rose | 50 | Each |  |
| ( Rate in words Rupees ...................................................................................) |  |  |  |  |
| 3.14 | 2.5 mfd fan condenser (KEIL / USHA) | 500 | Each |  |
| ( Rate in words Rupees .................................................................................) $)$ |  |  |  |  |
| 3.15 | 5 A flush type SP switch | 200 | Each |  |
| ( Rate in words Rupees ..................................................................................) |  |  |  |  |
| 3.16 | 5 A flush type 2 way switch | 25 | Each |  |
| ( Rate in words Rupees ..............................................................................) |  |  |  |  |
| 3.17 | 15 A flush type SP switch | 50 | Each |  |
| ( Rate in words Rupees ..................................................................................) |  |  |  |  |
| 3.18 | 15 A CS 2 in plug | 50 | Each |  |
| ( Rate in words Rupees ..............................................................................) |  |  |  |  |
| 3.19 | 15 A 5 in 1 CS plug | 25 | Each |  |
| ( Rate in words Rupees ..................................................................................) ${ }^{\text {( }}$ ) |  |  |  |  |
| 3.20 | Brass Slanting / Pattern / Pendent holder | 20 | Each |  |
| ( Rate in words Rupees ..................................................................................) |  |  |  |  |

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| 3.21 | Wooden round block | 300 | Each |  |
| :---: | :---: | :---: | :---: | :---: |
| ( Rate in words Rupees ..................................................................................) |  |  |  |  |
| 3.22 | 5 A flush type 5 pin socket | 100 | Each |  |
| ( Rate in words Rupees .................................................................................) |  |  |  |  |
| 3.23 | 150W Electronics modular make (2 module) stepped fan regulator | 400 | Each |  |
| ( Rate in words Rupees ...................................................................................) |  |  |  |  |
| 3.24 | 20A Metal clad socket top ( 2 pin 8 Earth) | 50 | Each |  |
| ( Rate in words Rupees .................................................................................) |  |  |  |  |
| 3.25 | 32 amperes TP+N+E tempra plug controlled by 32 amperes 4 pole MCB | 10 | Each |  |
| ( Rate in words Rupees .................................................................................) |  |  |  |  |
| 3.26 | 6 A one way modular type switch | 50 | Each |  |
| ( Rate in words Rupees ..................................................................................) |  |  |  |  |
| 3.27 | 16 A one way modular type switch | 50 | Each |  |
| ( Rate in words Rupees .................................................................................) |  |  |  |  |
| 3.28 | 6 A 5 pin Modular socket | 50 | Each |  |
| ( Rate in words Rupees .............................................................................................. ${ }^{\text {a }}$ ) |  |  |  |  |
| 3.29 | $16 \mathrm{~A} / 6 \mathrm{~A}$ modular socket | 50 | Each |  |
| ( Rate in words Rupees ................................................................................................) |  |  |  |  |
| 3.30 | 14W T5 FTL (HPL-6500K) warm/ cool | 250 | Each |  |
| ( Rate in words Rupees ...................................................................................) |  |  |  |  |
| 3.31 | 28w T5 FTL (HPL-6500K) warm/ cool | 250 | Each |  |
| ( Rate in words Rupees .................................................................................) |  |  |  |  |
| 4 | Supplying and fixing of ball and socket on the existing round block | 100 | Each |  |
| ( Rate in words Rupees ...................................................................................) |  |  |  |  |

## 6

| 5 | Supplying and fixing of steel conduits for suspension for fittings from ceiling with necessary cutting and threading works | 200 | Mtrs |  |
| :---: | :---: | :---: | :---: | :---: |
| ( Rate in words Rupees ....................................................................................) |  |  |  |  |
| 6 | Supplying and fixing of additional fan down rods for suspension of fans from ceiling if required. | 100 | Mtrs |  |
| ( Rate in words Rupees ....................................................................................) |  |  |  |  |
| 7 | Supplying \& fixing of remote call bell/ buzzer on wall with necessary connections. The guarantee of the bell should be one year. | 10 | Each |  |
| ( Rate in words Rupees ..................................................................................) ${ }^{\text {( }}$ ) |  |  |  |  |
| 8 | Supplying and fixing of call bell/ buzzer suitable for D.C/ A.C. single phase, 230 volts, complete set as required. The guarantee of the bell should be one year. | 10 | Each |  |
| ( Rate in words Rupees ..................................................................................) |  |  |  |  |
| 9 | Supplying and laying of following flexible multi strand copper cable |  |  |  |
| 9.1 | $3 \mathrm{c} \times 4 \mathrm{sqmm}$ | 90 | Mtrs |  |
| ( Rate in words Rupees ..................................................................................) |  |  |  |  |
| 9.2 | $4 \mathrm{c} \times 4 \mathrm{sqmm}$ | 90 | Mtrs |  |
| ( Rate in words Rupees ..................................................................................) |  |  |  |  |
| 10 | Shifting of UPS \& allied battery bank (up to 30 kVA )with necessary connections | 8 | Each |  |
| ( Rate in words Rupees ...................................................................................) |  |  |  |  |
| 11 | Supplying and fixing of fan hook | 75 | Each |  |
| ( Rate in words Rupees ..................................................................................) |  |  |  |  |
| 12 | Removing and re-fixing/relocating of following items with necessary connection etc..... |  |  |  |
| 12.1 | Light fittings / fans / DB's / MCB"s / Enclosures and wirings including PVC pipe and accessories | 200 | Each |  |
| ( Rate in words Rupees ................................................................................) |  |  |  |  |


|  | Rewinding of 1200 /1400 mm sweep <br> ceiling fans using enameled copper <br> wire of same gauge, varnishing and <br> required accessories like changing of <br> Ball Bearings, Condensor, Condensor <br> Clamp and making the fan working <br> condition .The rate should be <br> inclusive of transportation and the <br> warranty of the workmanship should <br> be minimum six months. | 100 |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| (Rate in words Rupees ...........................................................................) |  |  |  |  |  |  |

## Total Amount for Part A in words Rupees

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$\qquad$

| Part B (Minor Project Works) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| 1 | Point wiring in PVC conduit, with modular type switch/regulator wiring for light point/ fan point/ exhaust fan point/ call bell point/ 6 amps switched socket with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit, with modular switch, modular plate, suitable GI / PVC box, ceilingrose, round block and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc as required and instructed by the engineer in-charge. | 650 | Points |  |
| ( Rate in words Rupees .................................................................................) |  |  |  |  |
| 2 | Supplying and fixing of following modular switch/ socket on a modular plate $\&$ switch box including connections as required |  |  | - |
| 2.1 | 6 amps. socket controlled by 6 amps. one way switch | 600 | Each |  |
| ( Rate in words Rupees .................................................................................) |  |  |  |  |
| 2.2 | 16 amps. socket controlled by 16 amps. one way switch | 1400 | Each |  |
| ( Rate in words Rupees ..............................................................................) |  |  |  |  |
| 2.3 | 3x 5 Amps.UPS socket controlled by one 15 Amps. Switch | 300 | Each |  |
| ( Rate in words Rupees .............................................................................) |  |  |  |  |
| 3 | Supplying and fixing of MK premium base \& lid of NCT 1050 type cable management system with required specials and accessories including end caps, flexible internal/external corners flat angles, Flat tee, joint cover wherever necessary with cable divider, required type of modular box etc as per the site requirements | 500 | Each |  |
| ( Rate in words Rupees .................................................................................) |  |  |  |  |


| 4 | Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in a suitable surface/ recessed steel/ PVC conduit as required. |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| 4.1 | 2 runs of 2.5 sq.mm and 1 run of 2.5 sq.mm cable | 4500 | Mtrs |  |
| ( Rate in words Rupees .................................................................................) |  |  |  |  |
| 4.2 | 2 runs of 4.0 sq.mm and 1 run of 4 sq.mm cable | 11000 | Mtrs |  |
| ( Rate in words Rupees ................................................................................) |  |  |  |  |
| 4.3 | 2 Runs of 6.0 sq.mm and 1 run of 6sq.mm cable | 800 | Mtrs |  |
| ( Rate in words Rupees ...................................................................................) |  |  |  |  |
| 4.4 | 2 Runs of 10.0 sq.mm and 1 run of 10.0 sq.mm cable | 200 | Mtrs |  |
| ( Rate in words Rupees .....................................................................................) |  |  |  |  |
| 4.5 | 2 Runs of 16.0 sq.mm and 1 run of 16.0 sq.mm cable | 200 | Mtrs |  |
| ( Rate in words Rupees .................................................................................) |  |  |  |  |
| 4.6 | 4 runs of 4.0 sq.mm and 2 runs of 4 sq.mm cable | 1500 | Mtrs |  |
| ( Rate in words Rupees ...................................................................................) |  |  |  |  |
| 4.7 | 4 runs of 6.0 sq.mm and 2 runs of 6 sq.mm cable | 500 | Mtrs |  |
| ( Rate in words Rupees .................................................................................) |  |  |  |  |
| 4.8 | 4 runs of 10.0 sq.mm and 2 runs of 10 sq.mm cable | 300 | Mtrs |  |
| ( Rate in words Rupees ....................................................................................) |  |  |  |  |
| 4.9 | 4 runs of 16.0 sq.mm and 2 runs of 16.0 sq.mm copper cable | 250 | Mtrs |  |
| ( Rate in words Rupees ....................................................................................) |  |  |  |  |


| 5 | Supplying and drawing of following sizes FRLS PVC insulated copper conductor single/ multi strand cable in the existing cable management system or casing capping. |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| 5.1 | 3 runs of 2.5 sq.mm | 1500 | Mtrs |  |
| ( Rate in words Rupees .................................................................................) ${ }^{\text {. }}$ ) |  |  |  |  |
| 5.2 | 3 runs of 4.0 sq.mm | 1800 | Mtrs |  |
| ( Rate in words Rupees ...................................................................................) |  |  |  |  |
| 5.3 | 3 Runs of 6.0 sq.mm | 200 | Mtrs |  |
| ( Rate in words Rupees .................................................................................) ${ }^{\text {a }}$ ) |  |  |  |  |
| 6 | Supplying and fixing following company made sheet steel, MCB distribution board, 415 volts, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, detachable gland plate, interconnections, phosphatized and powder painted including earthing etc as required. ( without MCB/ RCCB/ Isolator). |  |  |  |
| 6.1 | $2+4$ way single phase and neutral (double door type) | 2 | Each |  |
| ( Rate in words Rupees .................................................................................) |  |  |  |  |
| 6.2 | $2+8$ way single phase and neutral (double door type) | 15 | Each |  |
| ( Rate in words Rupees ...................................................................................) |  |  |  |  |
| 6.3 | 4 way (4+12)three phase and neutral (double door type) | 15 | Each |  |
| ( Rate in words Rupees ..................................................................................) |  |  |  |  |
| 6.4 | 4 way (4+12)three phase and neutral (VTPN double door type) | 10 | Each |  |
| ( Rate in words Rupees ...................................................................................) |  |  |  |  |
| 6.5 | 8 way (4+24) three phase and neutral (VTPN double door type) | 15 | Each |  |
| ( Rate in words Rupees ...................................................................................) |  |  |  |  |


| 6.6 | 12 way $(4+36)$ three phase and neutral (VTPN double door type) | 15 | Each |  |
| :---: | :---: | :---: | :---: | :---: |
| ( Rate in words Rupees .................................................................................) |  |  |  |  |
| 7 | Supplying \& fixing of following rating <br> 415 volts, isolator in the existing MCB <br> DB complete with connections, testing <br> and commissioning etc as required |  |  |  |
| 7.1 | 40 amperes double pole Isolator | 10 | Each |  |
| ( Rate in words Rupees ..................................................................................) |  |  |  |  |
| 7.2 | 40 amperes four pole Isolator | 10 | Each |  |
| ( Rate in words Rupees .................................................................................) |  |  |  |  |
| 7.3 | 63 amperes four pole Isolator | 10 | Each |  |
| ( Rate in words Rupees .................................................................................) |  |  |  |  |
| 7.4 | 100 amperes four pole Isolator | 5 | Each |  |
| ( Rate in words Rupees ..................................................................................) |  |  |  |  |
| 8 | Providing and fixing following of rating and breaking capacity MCCB in the existing cubicle panel board including drilling holes in cubicle panel, making connections, etc as required. |  |  | - |
| 8.1 | $16 \mathrm{kA}, 125$ amperes 4 pole MCCB | 10 | Each |  |
| ( Rate in words Rupees .................................................................................) |  |  |  |  |
| 8.2 | $25 \mathrm{kA}, 200 \mathrm{Amps} 4$ pole MCCB | 5 | Each |  |
| ( Rate in words Rupees .................................................................................) |  |  |  |  |
| 9 | Supplying \& fixing of following ratings, miniature circuit breaker in the existing MCB DB complete with connections, testing and commissioning etc as required |  |  |  |
| 9.1 | 6-32 Amperes Single pole MCB | 400 | Each |  |
| ( Rate in words Rupees ..................................................................................) |  |  |  |  |

12

| 9.2 | 6 to 32 Amperes double pole MCB | 75 | Each |
| :---: | :---: | :---: | :---: |
| ( Rate in words Rupees ...................................................................................) |  |  |  |
| 9.3 | 6 to 32 Amperes triple pole MCB | 100 | Each |
| ( Rate in words Rupees ...............................................................................) |  |  |  |
| 9.4 | 40 amperes triple pole MCB | 25 | Each |
| ( Rate in words Rupees ..................................................................................) |  |  |  |
| 9.5 | 63 amperes triple pole MCB | 50 | Each |
| ( Rate in words Rupees .............................................................................) |  |  |  |
| 9.6 | 63 amps 4 pole MCB | 25 | Each |
| ( Rate in words Rupees ...................................................................................) |  |  |  |
| 9.7 | 40 amperes 4 pole MCB | 25 | Each |
| ( Rate in words Rupees ..................................................................................) |  |  |  |
| 9.8 | 63 Amperes Double pole | 20 | Each |
| ( Rate in words Rupees ................................................................................) |  |  |  |
| 10 | Supplying \& fixing of follow company made sheet steel enclo on wall/ concealed on wall to fix MCB/ isolators with connect testing and commissioning etc required |  |  |
| 10.1 | Single pole Enclosure | 50 | Each |
| ( Rate in words Rupees ...................................................................................) |  |  |  |
| 10.2 | Double/triple/four pole Enclosure | 120 | Each |
| ( Rate in words Rupees ...................................................................................) |  |  |  |


| 10.3 | 6-32A amperes 2 pole MCB | 20 | Each |  |
| :---: | :---: | :---: | :---: | :---: |
| ( Rate in words Rupees .........................................................................................) |  |  |  |  |
| 10.4 | 6-32 Amperes triple pole MCB | 20 | Each |  |
| ( Rate in words Rupees ....................................................................................) |  |  |  |  |
| 11 | Supplying \& fixing of following metal clad plug and socket in accompany made sheet steel enclosure on wall/in flush with wall with necessary connections and earth connections. |  |  |  |
| 11.1 | Supplying and fixing of 20 amperes MC Plug and Socket controlled by 20 amperes SP MCB on a suitable sheet steel enclosure on wall with single phase 5-20A static Energy meter with down load communication port and with necessary end connections. | 120 | Each |  |
| ( Rate in words Rupees ...................................................................................) |  |  |  |  |
| 11.2 | Supplying and fixing of 32 amperes 3 ph MC Plug \& Socket controlled by 32 amperes TPN MCB on a suitable sheet steel enclosure on wall with single phase 40A 3ph static Energy meter with down load communication port and with necessary end connections. | 30 | Each |  |
| ( Rate in words Rupees ...................................................................................) |  |  |  |  |
| 12 | Supplying, installation, testing and commissioning of pre wired following type of FTL /CFL fittings complete with all accessories and Tubes/CFL etc on wall/ceiling/false ceiling including connections with 1.5 sq.mm FRLS PVC insulated single core copper conductor wires and earthing etc as required. |  |  |  |
| 12.1 | 1200mm x 28 w T5 single box type fitting with HF ballast and Tubes. (LHIT01128032/T5GP28EB/TMS122 <br> M 1XTL5 28W EBT / 160483 BTIR 128) | 250 | Each |  |
| ( Rate in words Rupees ....................................................................................) |  |  |  |  |


| 12.2 | $1200 \mathrm{~mm} \times 28 \mathrm{w}$ T5 Twin box type fitting with HF ballast and Tubes. (LHITO1228033/T5GP228EB/TMS122 M 2XTL5 28W EBT/ 160484 BTIR 228) | 170 | Each |  |
| :---: | :---: | :---: | :---: | :---: |
| ( Rate in words Rupees ...................................................................................) |  |  |  |  |
| 12.3 | $1200 \mathrm{~mm} \times 40 \mathrm{w} / 36 \mathrm{w}$ single Side reflector fitting with HF ballast and Tubes suitable for black board lighting. | 50 | Each |  |
| ( Rate in words Rupees ...................................................................................) |  |  |  |  |
| 12.4 | 3x 14 w T5 False Ceiling / surface mounting mirror optics fittings with electronic ballasts and lamps (TD7314331/T5CQ11314EB/TBS669M 3 x TL5-14W EBP D6 /538684 BTTI314V2) | 225 | Each |  |
| ( Rate in words Rupees ..................................................................................) |  |  |  |  |
| 13 | Supplying, installing, testing and commissioning of ceiling fan, including wiring the down rods of length up to 45 cm with 1.5 sq mm FRLS PVC insulated, copper conductor, single core cable etc as required. |  |  |  |
| 13.1 | 900 mm sweep ceiling fan | 10 | Each |  |
| ( Rate in words Rupees ...................................................................................) |  |  |  |  |
| 13.2 | 1200 mm sweep ceiling fan | 200 | Each |  |
| ( Rate in words Rupees .................................................................................) |  |  |  |  |
| 13.3 | 1400 mm sweep ceiling fan | 20 | Each |  |
| ( Rate in words Rupees ....................................................................................) |  |  |  |  |
| 14 | Supplying and installation of following exhaust fans with metal blade in the existing opening and making connections and testing, commissioning etc as required. |  |  |  |


| 14.1 | 300 mm sweep exhaust fan (heavy duty) | 100 | Each |
| :---: | :---: | :---: | :---: |
| ( Rate in words Rupees |  |  |  |
| 14.2 | 450 mm sweep exhaust fan (heavy duty) | 20 | Each |
| ( Rate in words Rupees ....................................................................................) |  |  |  |
| 15 | Supplying \& providing of 400 mm sweep with metal blade pedestal mounting fan including transporting, assembling and put into service. | 5 | Each |
| ( Rate in words Rupees ........................................................................................... ${ }^{\text {a }}$ ) |  |  |  |
| 16 | Earthing with GI earth plate 600x600x6 mm thick including accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 m long etc with charcoal/coke and salt as required. | 10 | Set |
| ( Rate in words Rupees ..................................................................................) |  |  |  |
| 17 | Earthing with copper earth plate 600x600x3mmthick including accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 m long etc with charcoal/coke and salt as required. | 10 | Each |
| ( Rate in words Rupees ....................................................................................) |  |  |  |
| 18 | Supplying and laying of following size earth flats at 0.50 mtr below the earth including soldering/welding as required |  |  |
| 18.1 | Single run of 16 sq.mm multi stranted copper wire in a suitable PVC pipe and clamps | 300 | Mtrs |
| ( Rate in words Rupees ....................................................................................) |  |  |  |
| 18.2 | $25 \times 5 \mathrm{~mm}$ copper strip | 100 | Mtrs |
| ( Rate in words Rupees ....................................................................................) |  |  |  |


| 18.3 | $25 \times 5 \mathrm{~mm}$ GI strip | 200 | Mtrs |  |
| :---: | :---: | :---: | :---: | :---: |
| ( Rate in words Rupees |  |  |  |  |
| 19 | Testing of earth electrodes using necessary testing equipment and improve the earth by excavating the soil and sub soil and refilling the same with alternate layer of charcoal/coke and salt if required. The values are to be entered in a separate register and submitted to the Engineer in-charge The work should be inclusive of replacement of bolts and nuts, white washing the masonry pedestals, paint marking the earth values, date of testing done, due date for the next test and pit number on the enclosures and also inside the earth pit. | 300 | Each |  |
| ( Rate in words Rupees ................................................................................) |  |  |  |  |
|  | TOTAL (PART B) |  |  |  |

## Total Amount for Part B in words Rupees

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## TENDER NO.01/2013-14/ELDB

Name of work: Annual Maintenance contract for day to day routine maintenance of electrical installation and minor projects in Academic zone buildings for the year 2013-14

| Description | Amount in Rs. |
| :--- | :--- |
| Part-A | Rs. |
| Part-B | Rs. |
| Grand Total | Rs. |

Grand Total Amount in words Rupees $\qquad$
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