



**INDIAN INSTITUTE OF TECHNOLOGY MADRAS
ENGINEERING UNIT**

CHENNAI – 600 036

Price Bid (Volume 2)

T. No 04/2013-14/Eldb

Name of the work : Annual Maintenance of contract for day to day Electrical maintenance, minor and alteration works in Residential buildings at IITM Campus for the year 2013-14.

Date of Submission of Technical & Price bid : 03.00 pm on 28/01/2013

Date of opening of Technical bid : 03.10 pm on 28/01/2013

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**

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Consultant (Elec)

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Executive Engineer (Elec)

INDIAN INSTITUTE OF TECHNOLOGY MADRAS
ENGINEERING UNIT

CHENNAI – 600 036

<p>TENDER DOCUMENT</p> <p>FOR</p> <p>Annual Maintenance of contract for day to day Electrical maintenance, minor and alteration works in Residential buildings at IITM Campus for the year 2013-14.</p>
<p>VOLUME-2 (PRICE BID)</p>
<p>BILL OF QUANTITIES</p>
<p>Other volume:</p>
<p>Vol-1: Notice inviting tenders, Conditions of Contract, Additional specifications, General Conditions of Contract , list of approved makes etc.,</p>

INDIAN INSTITUTE OF TECHNOLOGY MADRAS, CHENNAI-36					
Name of work: Annual Maintenance Contract for day to day electrical maintenance, minor & alteration works of Residential Zone buildings in the IITM Campus for the year 2013-14.					
Part - A					
Sl.No	Description of work	Qty	Unit	Rate	Amount
1	Labour charges (2 wiremen & 2 Helpers) for rectification of faults in panel boards, distribution, switch boards, all kinds of light fittings and fans, equipments and all electrical accessories and making them in good working condition	12	Month		
(Rate in words Rupees)					
1.2	Supplying of following accessories for replacement in item No.1.1 as and when required during the contract period. These items will be supplied to the stores and the same will be issued at the time of requirement.				
1.2.1	1200mm x 36w flourescent tube (Philips/CG)	500	Each		
(Rate in words Rupees)					
1.2.2	40 W starter (Philips/CG)	500	Each		
(Rate in words Rupees)					
1.2.3	9w / 11w / 18w Campact flourescent Lamp (Philips/Osram/Havells)	50	Each		
(Rate in words Rupees)					
1.2.4	5 amps. 3 pin top (Anchor / Record)	10	Each		
(Rate in words Rupees)					
1.2.5	15 amps. 3 pin top (Anchor / Record)	10	Each		
(Rate in words Rupees)					
1.2.6	18 watts CFL (Philips/Osram/Havells)	20	Each		
(Rate in words Rupees)					

1.2.7	40W flouresent tube copper ballast (Philips /CG)	150	Each		
(Rate in words Rupees)					
1.2.8	40/60/100 watts incandesent lamp (Philips / CG)	25	Each		
(Rate in words Rupees)					
1.2.9	36 watts compact flourescent lamp (Philips/Osram/Havells)	5	Each		
(Rate in words Rupees)					
1.2.10	600 mm x 18 watts flourescent tube	5	Each		
(Rate in words Rupees)					
1.2.11	25w / 40w threaded lamp	20	Each		
(Rate in words Rupees)					
1.2.12	Tube light holder	100	Each		
(Rate in words Rupees)					
1.2.13	Insulation tape (ISI brand)	500	Each		
(Rate in words Rupees)					
1.2.14	Resistant type fan regulator(Usha / Crompton /Orient)	200	Each		
(Rate in words Rupees)					
1.2.15	Ceiling rose (Anchor / Record)	100	Each		
(Rate in words Rupees)					
1.2.16	2.5 mfd fan condenser(KEIL / USHA)	300	Each		
(Rate in words Rupees)					
1.2.17	Slanting / Pattern / Pendent holder (Anchor Make)	300	Each		
(Rate in words Rupees)					
1.2.18	1 way / 2 way / 3 way / 4 way PVC junction box	25	Each		
(Rate in words Rupees)					

1.2.19	Wooden round block	50	Each		
(Rate in words Rupees)					
1.2.20	Musical call bell (Anchor/Chimes)	200	Each		
(Rate in words Rupees)					
1.2.21	Electronic step speed Regulator (Anchor)	25	Each		
(Rate in words Rupees)					
1.2.22	100 watts electronics fan regulator (Anchor)	5	Each		
(Rate in words Rupees)					
1.2.23	Modular electronic step speed regulator(MK Make)	100	Each		
(Rate in words Rupees)					
1.2.24	2 to 32 amps HRC fuse	5	Each		
(Rate in words Rupees)					
1.2.25	63 amps HRC fuse	5	Each		
(Rate in words Rupees)					
1.2.26	25w / 40w / 60w candle clear lamp	10	Each		
(Rate in words Rupees)					
1.2.27	25 watts electronic ballast for T5 lamp/flourescent lamp (Philips / CG)	10	Each		
(Rate in words Rupees)					
1.2.28	36/40 watts electronic ballast for T8 lamp/flourescent lamp (Philips / CG)	100	Each		
(Rate in words Rupees)					
1.2.29	28w T5 lamp (Philips / CG)	100	Each		
(Rate in words Rupees)					
1.3	Supplying & fixing of following TW Varnished box on wall with required accessories				

1.3.1	300 mm x 200 mm	5	Each		
(Rate in words Rupees)					
1.3.2	200 mm x 150 mm	5	Each		
(Rate in words Rupees)					
1.3.3	200mm x 100 mm	5	Each		
(Rate in words Rupees)					
1.3.4	150mm x 100 mm	5	Each		
(Rate in words Rupees)					
1.3.5	100mm x 100 mm	5	Each		
(Rate in words Rupees)					
1.4	Supplying & fixing of following sizes laminated sheet with required cutting in the existing wooden/metal box.				
1.4.1	300mm x 200mm	5	Each		
(Rate in words Rupees)					
1.4.2	200mm x 150mm	5	Each		
(Rate in words Rupees)					
1.4.3	200mm x 100mm	5	Each		
(Rate in words Rupees)					
1.4.4	150mm x 100mm	5	Each		
(Rate in words Rupees)					
1.4.5	100mm x 100mm	5	Each		
(Rate in words Rupees)					
1.4.6	Hylem Sheet	500	Sq.Inch		
(Rate in words Rupees)					

1.5	Charges for taking electrical Energy Meter readings in both domestic and commercial buildings such as all the residential quarters, shops, schools, banks, canteens, service units etc. every month as per the schedule and preparing computerized statements with printouts.	12	Month		
(Rate in words Rupees)					
1.6	Charges for removing the existing unused pvc/MS conduit wiring and connected switch boards etc from the existing location and to be handed over the same to store/dept. office.	500	Metre		
(Rate in words Rupees)					
2.1	Supplying and fixing following size/ modules GI /PVC box along with modular base & cover plate for modular switches in recess / surface etc as required.				
2.1.1	1 or 2 module	5	Each		
(Rate in words Rupees)					
2.1.2	3 module	20	Each		
(Rate in words Rupees)					
2.1.3	4 module	10	Each		
(Rate in words Rupees)					
2.1.4	6 module	10	Each		
(Rate in words Rupees)					
2.1.5	8 module	10	Each		
(Rate in words Rupees)					
2.1.6	12 module	10	Each		
(Rate in words Rupees)					
2.2	Supplying and fixing following modular base & cover plate on existing modular metal boxes etc. as required.				
2.2.1	1 or 2 module	10	Each		
(Rate in words Rupees)					

2.2.2	3 module	10	Each		
(Rate in words Rupees)					
2.2.3	4 module	10	Each		
(Rate in words Rupees)					
2.2.4	6 module	10	Each		
(Rate in words Rupees)					
2.2.5	8 module	10	Each		
(Rate in words Rupees)					
2.2.6	12 module	5	Each		
(Rate in words Rupees)					
2.3	Supplying & fixing of following piano type switch/ socket on the existing switch box/ cover including connections as required.				
2.3.1	5/6 amps switch	300	Each		
(Rate in words Rupees)					
2.3.2	2 way 5/6 amps switch	10	Each		
(Rate in words Rupees)					
2.3.3	15/16 amps switch	25	Each		
(Rate in words Rupees)					
2.3.4	3 pin 5/6 amps socket outlet	100	Each		
(Rate in words Rupees)					
2.3.5	6 pin 15/16 amps socket outlet	25	Each		
(Rate in words Rupees)					
2.3.6	Bell push switch	10	Each		
(Rate in words Rupees)					

2.4	Supplying & fixing of following modular switch/ socket on the existing modular plate & switch box including connections as required.				
2.4.1	5/6 amps switch	150	Each		
(Rate in words Rupees)					
2.4.2	2 way 5/6 amps switch	10	Each		
(Rate in words Rupees)					
2.4.3	15/16 amps switch with indicator	10	Each		
(Rate in words Rupees)					
2.4.4	3 pin 5/6 amps socket outlet	50	Each		
(Rate in words Rupees)					
2.4.5	6 pin 15/16 amps socket outlet	10	Each		
(Rate in words Rupees)					
2.4.6	RJ11 telephone socket	5	Each		
(Rate in words Rupees)					
2.4.7	TV antenna socket	5	Each		
(Rate in words Rupees)					
2.4.8	Bell push switch	10	Each		
(Rate in words Rupees)					
2.4.9	Blanking plate	300	Each		
(Rate in words Rupees)					

3	Rewinding of the following fans using enameled copper wire of required gauge, varnishing oiling, greasing etc., overhauling such as cleaning, replacement of same size and rating of bearing, condenser, cotter pins, shackle insulator, twin core copper wire and other defective materials required for making the fan in good working condition. The cost should include the rebate of old enameled copper and materials. The guarantee of the fan after rewinding should be one year from the date of installation. The workmanship shall be Grade A and up to the satisfaction of the Engineer in charge.				
3.1.1	1200mm/1400 mm sweep AC ceiling fan	100	Each		
(Rate in words Rupees)					
3.1.2	300 mm sweep exhaust fan	10	Each		
(Rate in words Rupees)					
3.2	Painting of 1200mm/1400mm sweep ceiling fan with blades with one or more coats of spray painting with synthetic enamel paint including cleaning of surface with detergent etc. as required.	25	Each		
(Rate in words Rupees)					
3.3	Overhauling the ceiling fan / sweep exhaust fan and supplying and replacing the same size and rating of bearing, condenser, cotter pins, shackle insulator, twin core copper wire and other defective materials required for making the fan in good working condition.	100	Each		
(Rate in words Rupees)					
3.4	Numbering of ceiling fan/ exhaust fan/ fluorescent fittings as required.	1000	Each		
(Rate in words Rupees)					
3.5	Supplying and replacement of the suitable size and rating of the following in the storage water heater and making the geyser in good working condition.				
3.5.1	Heating element	5	Each		
(Rate in words Rupees)					

3.5.2	Thermostat with control	5	Each		
(Rate in words Rupees)					
4.1	Supplying & fixing of following isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required. The approved make will be Legrand / MDS lexic / L&T.				
4.1.1	40 amps double pole	5	Each		
(Rate in words Rupees)					
4.1.2	40 amps four pole	5	Each		
(Rate in words Rupees)					
4.1.3	63 amps four pole	5	Each		
(Rate in words Rupees)					
4.2	Supplying & fixing of following C curve MCBs in the existing MCB DB complete with connections, testing and commissioning etc as required. The approved make will be Legrand / MDS lexic / L&T.				
4.2.1	6 - 32 amps single pole	200	Each		
(Rate in words Rupees)					
4.2.2	40 amps double pole	10	Each		
(Rate in words Rupees)					
4.2.3	40 amps triple pole	5	Each		
(Rate in words Rupees)					
4.2.4	40 amps 4 pole MCB	5	Each		
(Rate in words Rupees)					
4.2.5	20 amps Metal Clad socket	10	Each		
(Rate in words Rupees)					

4.2.6	20 amps Metal Clad Top	10	Each		
(Rate in words Rupees)					
4.2.7	Blanking plate single pole	100	Each		
(Rate in words Rupees)					
	Total (Part-A)				

Total Amount for Part A in words Rupees

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	Part - B				
5.1	Wiring for light point/fan point/exhaust fan point/call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed PVC conduit, with piano type switch, phenolic laminated sheet, suitable size M.S box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required.				
5.1.1	Group B	10	Point		
(Rate in words Rupees)					
5.2	Wiring for twin control light point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed PVC conduit, 2 way piano type switch, phenolic laminated sheet, suitable size M.S box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc as required.	5	Point		
(Rate in words Rupees)					
5.3	Wiring for light point/ fan point/ exhaust fan point/call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as reqd.				
5.3.1	Group B	300	Point		
(Rate in words Rupees)					
5.4	Wiring for twin control light point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed PVC conduit, 2 way modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc as required.	20	Point		
(Rate in words Rupees)					

5.5	Wiring for circuit / sub-main wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed PVC conduit as required				
5.5.1	2 x 1.5 sqmm + 1 x 1.5 sqmm earth wire	250	Metre		
(Rate in words Rupees)					
5.5.2	2 x 2.5 sqmm + 1 x 2.5 sqmm earth wire	2000	Metre		
(Rate in words Rupees)					
5.5.3	2 x 4 sqmm + 1 x 4 sqmm earth wire	3500	Metre		
(Rate in words Rupees)					
5.5.4	2 x 6 sqmm + 1 x 6 sqmm earth wire	50	Metre		
(Rate in words Rupees)					
5.5.5	4 x 4 sqmm + 2 x 4 sqmm earth wire	300	Metre		
(Rate in words Rupees)					
5.5.6	4 x 6 sqmm + 2 x 6 sqmm earth wire	50	Metre		
(Rate in words Rupees)					
5.6	Supplying and drawing following sizes of FRLS PVC insulated copper conductor single core cable in the existing surface/ recess PVC conduit as required				
5.6.1	2 x 1.5 sqmm + 1 x 1.5 sqmm earth wire	50	Metre		
(Rate in words Rupees)					
5.6.2	2 x 2.5 sqmm + 1 x 2.5 sqmm earth wire	300	Metre		
(Rate in words Rupees)					
5.6.3	2 x 4 sqmm + 1 x 4 sqmm earth wire	300	Metre		
(Rate in words Rupees)					

6.1	Supplying & fixing of following accessories in suitable size GI / PVC box with modular plate and cover in recess / on surface with necessary connection and earth connection. The approved make will be MK,MDS or Anchor Roma				
6.1.1	3 pin 5/6 amps. socket controlled by 5/6 amps switch	400	Each		
(Rate in words Rupees)					
6.1.2	6 pin 15/16 amps. socket controlled by 15/16 amps switch	250	Each		
(Rate in words Rupees)					
6.1.3	3 nos of 5/6 amps UPS socket controlled by one 15/16 amps switch	10	Each		
(Rate in words Rupees)					
6.1.4	RJ 11 telephone socket	5	Each		
(Rate in words Rupees)					
7.1	Supplying and fixing of light fitting with lamps on ceiling/wall with necessary connection from ceiling rose to fitting by twin core flexible copper wire.				
7.1.1	1200 mm x 36 watts single box type fitting with electronic ballast. The accepted brands are Philips (TMC 501/136/HF), CG (IGP1414 EB), Havells (LHIF 71104028).				
	Supply	300	Each		
(Rate in words Rupees)					
	Installation	300	Each		
(Rate in words Rupees)					
7.1.2	1200 mm x 36 watts single patty type fitting with copper ballast. The accepted brands are Philips (TMS 10/140), CG, Havells.				
	Supply	20	Each		
(Rate in words Rupees)					

	Installation	20	Each		
(Rate in words Rupees)					
7.1.3	1200 mm x 36 watts twin box type fitting with electronic ballast. The approved make will be Philips (TMC 55/236/HF), CG (IGP1424 EB), Havells (LHIF 71204029).	5	Each		
(Rate in words Rupees)					
7.1.4	1200 mm x 28 watts single energy efficient T5 tube light fitting with replaceable electronic ballast. The approved make will be Philips (GGX 310/128/EB), CG (T5 GP28 EB), Havells (LHIT 01128050).				
	Supply	100	Each		
(Rate in words Rupees)					
	Installation	100	Each		
(Rate in words Rupees)					
7.2	Supplying and fixing of mirror light CFL fitting and necessary connection with 9/11W CFL lamp. The approved make will be Philips (FMC 21/109), CG, Havells.	10	Each		
(Rate in words Rupees)					
7.3	Supplying and fixing of water tight bulk head CFL fitting with guard and necessary connection with 9/11W CFL lamp. The approved make will be Philips (FXC 101), CG, Havells (LHK 01160099).	20	Each		
(Rate in words Rupees)					
7.4	Supplying and fixing of following size ceiling fan of double ball bearing type with 2.25 mfd condenser and one foot down rod on the existing fan hook with necessary connection from ceiling rose to fan using twin core copper wire. The approved make will be ORIENT PSPO (New Breeze), POLAR (Winchester), CG (High Speed).				

7.4.1	1200 mm sweep ceiling fan				
	Supply	300	Each		
(Rate in words Rupees)					
	Installation	300	Each		
(Rate in words Rupees)					
7.5	Supplying and fixing of following sizes heavy duty exhaust fan with metal blade complete set on existing holes on wall with necessary connection from ceiling rose to fan using 2 core flexible copper wire (Khaitan / Rallis / Almonard).				
7.5.1	225 mm / 9" sweep exhaust fan	5	Each		
(Rate in words Rupees)					
7.5.2	300 mm / 12" sweep exhaust fan				
	Supply	100	Each		
(Rate in words Rupees)					
	Installation	100	Each		
(Rate in words Rupees)					
7.6	Supplying and fixing of fan hook (U hook) on ceiling with 2 nos of anchor fastener on both ends with necessary bolts and nuts and masonry works as required.	100	Each		
(Rate in words Rupees)					
7.7	Supplying and providing of extra down rod with twin core flexible copper wire for ceiling fan.	20	Metre		
(Rate in words Rupees)					
7.8	Supplying and fixing of MS fan clamp for mounting wall mounting fan.	10	Each		
(Rate in words Rupees)					

7.9	Supplying & fixing of following size (oscillating type) wall mounting fan on wall with necessary connection (Orient PSPO / Almonard).				
7.9.1	400 mm sweep wall mounting fan	5	Each		
(Rate in words Rupees)					
7.10	Making round shaped hole on the wall including supply and fixing of necessary cement concrete collar to suit 300 mm heavy duty exhaust fan and finishing the wall to make good.	25	Each		
(Rate in words Rupees)					
7.11	Supplying & fixing of 25 mm thick ply wood with round shaping at the centre to fix exhaust fan on ventilator with required accessories.	10	Each		
(Rate in words Rupees)					
7.12	Supplying & providing of 400 mm sweep pedestal mounting fan including transporting, assembling and put into service. The approved make will be Orient / Almonard. The sample should be shown before purchase.	5	Each		
(Rate in words Rupees)					
7.13	Supplying and fixing of 300 / 450 mm dia louvers for exhaust fan on wall /wooden ventilators with required accessories.	100	Each		
(Rate in words Rupees)					
7.14	Supplying and fixing of Master seal photo electric dusk/dawn switch on wall with necessary connection (MK/Legrand/L&T)	20	Each		
(Rate in words Rupees)					
7.15	Supplying and fixing of timer control switch on wall with necessary connection (MK/Legrand/L&T)	5	Each		
(Rate in words Rupees)					

8.1	Supplying & fixing of following metal clad sockets in a company made sheet steel enclosure on surface / recess with chained metal cover with necessary connection and earth connection. The approved make will be MDS lexic / L&T.				
8.1.1	20 amps socket controlled by 20 amps C curve SP MCB.	100	Each		
(Rate in words Rupees)					
8.2	Supplying and fixing of following C curve MCBs in a company made sheet steel enclosure on surface / recess with necessary connection and earth connection. The approved make will be MDS lexic / L&T.				
8.2.1	25/32 amps DP MCB.	5	Each		
(Rate in words Rupees)					
8.2.2	16/25/32 amps TP MCB	5	Each		
(Rate in words Rupees)					
8.2.3	40 A TP Power Contactor	5	Each		
(Rate in words Rupees)					
8.3	Supplying & fixing of following way single pole and neutral, sheet steel, MCB distribution board, 240 volts, on surface/ recess complete with tinned copper busbar, neutral busbar, earth bar, din bar, inter connections, powder painted including earthing etc. as required. The approved make will be Legrand / MDS Lexic / L&T				
8.3.1	2+8 way single phase and neutral (double door type)	20	Each		
(Rate in words Rupees)					
8.3.2	2+12 way single phase and neutral (double door type)	5	Each		
(Rate in words Rupees)					

8.4	Supplying & fixing of following way three pole and neutral, sheet steel, MCB distribution board, 415 volts, on surface/ recess complete with tinned copper busbar, neutral busbar, earth bar, din bar, inter connections, powder painted including earthing etc. as required. The approved make will be Legrand / MDS Lexic / L&T				
8.4.1	4 way (4+12), three phase and neutral (double door type)	10	Each		
(Rate in words Rupees)					
9.1	Supplying & fixing of following ratings static / digital energy meter in the existing panel / TW plank on wall with necessary connection and earth connection. The approved make will be L&T/ HPL Socomech / Secure.				
9.1.1	10-40 amps. single phase static / digital energy meter				
	Supply	25	Each		
(Rate in words Rupees)					
	Installation	25	Each		
(Rate in words Rupees)					
9.1.2	10-40 amps. three phase static / digital energy meter				
	Supply	25	Each		
(Rate in words Rupees)					
	Installation	25	Each		
(Rate in words Rupees)					
10	Earthing with G.I. earth pipe 4.5 mtr long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal and salt as required.	5	Set		
(Rate in words Rupees)					

11	Providing and laying earth connection from earth electrode with 6 SWG dia G.I. wire in 15 mm dia G.I. pipe from earth electrode, as required	50	Metre		
(Rate in words Rupees)					
12	Supplying and running of 0.51mm two pair PVC telephone cable with suitable size PVC pipe/ Casing and capping on wall with painted G.I. Clamps.	50	Metre		
(Rate in words Rupees)					
13	Supplying and fixing of 1 x36 watts road way lighting luminaire suitable for 1 x 36 watts CFL (Make: BAJAJ BJS LA 136 CFL) on suitable size 0.60 metres long of MS pipe pending to shape according to the site location with necessary connection.	5	Each		
(Rate in words Rupees)					
14	Supplying and fixing of following sizes of PVC conduit along with accessories in surface/ recess including cutting the wall and making good the same in case of recessed conduit as required				
14.1.1	20 mm PVC pipe	300	Metre		
(Rate in words Rupees)					
14.1.2	25 mm PVC pipe	250	Metre		
(Rate in words Rupees)					
15	Disconnecting and removing the existing electrical wiring, ceiling conduits, DBs switch boards light fittings and fans	25	Job		
(Rate in words Rupees)					
16	Labour charges for making temporary power connection by laying 4 core 16 sq.mm alu. arm. cable and making the energy meter panel for different vendors for taking temp power supply.	20	Job		
(Rate in words Rupees)					

17	Charges for testing the electrical earthing system and measuring the earth resistance in each block as per standards using necessary test equipments and maintaining the earth register including rectification of any defects.	200	Nos		
(Rate in words Rupees)					
	Total (Part-B)				

Total Amount for Part B in words Rupees

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Tender No.04/2012-13/Eldb

Name of work: Annual Maintenance of contract for day to day Electrical maintenance, minor & alteration works for Residential buildings in IITM Campus for the year of April 2012 to March 2013

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

Grand Total Amount in words Rupees

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Signature of the Contractor

**-sd-
Consultant (Elec)**

**-sd-
Executive Engineer (Elec)**