



**SREE CHITRA TIRUNAL INSTITUTE FOR MEDICAL SCIENCES & TECHNOLOGY
THIRUVANANTHAPURAM—695 011, INDIA.**

(An Institute of National Importance under Govt.of India)

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No.DCE(G)304/01/2019

15.08.2019

TENDER NOTICE

(Annual Rate Contract for Minor Installation works)

Sealed quotations are invited from firms/individuals having appropriate Electrical inspectorate license, for carrying out electrical wiring and installation works on “rate contract” basis at this institute for a period of one year.

Tender documents can be obtained from, the Division of Clinical Engineering (DCE) Sree Chitra Tirunal Institute for Medical Sciences and Technology (SCTIMST), Medical College P O, Trivandrum - 695 011 up to **12 pm on 04.09.2019** against a payment of Rs 590/- (Rupees Five Hundred and Ninety only) by cash payment at the Institute cash counter of DD in favour of The Director, SCTIMST towards the cost of tender documents. Tender documents can also be downloaded from the website and in that case cost of tender document shall be attach along with the bid by DD in favour of The Director, SCTIMST payable at SBI, Medical College Branch.

The tender should be superscribed tender for “Annual Rate Contract for Minor Electrical Installation works” and addressed to the Director, Sree Chitra Tirunal Institute for Medical Sciences & Technology. Late tenders will not be accepted. Tenders will be opened at **3 pm on 04.09.2019** in the presence of such tenderers or their authorized representatives who may be present at that time.

The Tender Notice are posted in the web site of the Institute(www.sctimst.ac.in) and <http://eprocure.gov.in/epublishing> for downloading by the prospective tenderers. Hire charges may also be quoted for providing the vehicle (Mini Bus/Car) for short journeys (daily rate/per km rate/per hour rate).

Tender will be received only up to **1 pm on 04.09.2019**. All tenders should be accompanied by EMD of Rs5000/- by way of DD in favour of The Director, SCTIMST, Trivandrum -11 payable at SBI, Medical College Branch.

The Director reserves the right to accept or reject all or any tender at his/her sole discretion without assigning any reason.

**Sd/-
DIRECTOR**

To

Notice Board (AMC/Hospital/BMT Wing/Website)

Annual contract for ele: works-2019-20 tender conditions

1. The Institute shall mean, "Sree Chitra Tirunal Institute for Medical Sciences & Technology, Trivandrum" in all correspondences.
2. The director shall mean the Director of the institute.
3. Tenderer shall mean the individual or organization who submits tender for the work/contract.
4. Contractor shall mean the individual or organization who has been awarded the work/contract.
5. DCE shall mean "division of clinical engineering" in all correspondences pertaining to the work.
6. EMD for the work is Rs.5000/- and should be sent with the quotation by DD (Demand Draft) favouring the director & cashable at SBT Med: college.
7. **RATES INCLUSIVE OF TAXES OF ALL KINDS SHOULD BE QUOTED (% above/ below)**. Rates should be inclusive of all statutory taxes, duties, freight (free delivery to the consignee's premises), deductions etc. No further claim will be paid during the period of contract.
8. Period of contract will be normally for one year from the date of an agreement between the institute and the contractor. The contract shall be extendable on yearly basis for a maximum period of two years depending upon the performance of the firm and compliance of terms & conditions stipulated in the tender document and mutually agreed upon. Prices during the currency of contract shall remain firm & fixed.
9. The scope of works under the contract covers the execution of electrical works in the hospital wing, quarter's campus and the BMT wing at Poojapura. The scope of work includes but is not limited to the execution of works in the schedule of quantities on actual need basis. Works will be intimated to the contractor as and when the need arises.
10. The tenderer should have a minimum 'B' grade electrical contractor's license issued by Kerala State Electrical Inspectorate with connected load of 100 kW or above. (The copy of the same shall be produced along with BID).
11. The tenderer should have documented experience (maintenance or installation works) of minimum 3 years in similar contract for an electrical installation of 500 kVA or above as prime contractor.
12. EMD of the successful tenderer may be retained as security deposit during the period of contract plus defect liability period 6 months afterwards.
13. Filled schedule of items in sealed cover should be sent or handed over to Tendering Department of the institute before deadline of submission.
14. Tenders received at or before stipulated time and date will be opened at 3.00 pm on same day.

15. The successful tenderer should execute an agreement in prescribed format on RS.200/-stamp paper.
16. The rates accepted shall be valid for entire operation period of contract and no upward revision request will be entertained in between.
17. Director reserves the right to reject any or all tender without explaining reasons.
18. The contractor can withdraw from the contract after 2 months from the date of intimation to that effect to the institute
19. The contractor shall be issued regular or confirmatory work orders for works desired or completed.
20. The contractor may submit bills in duplicate supported by tax related documents after completion of specified quantity of works.
21. The institute is not bound to award the works to the contractor alone during the operation period of the contract.
22. The contractor is bound to do related works which are not in the schedule of items but are necessary for completion of a project.
23. Rates for extra works should be worked out based on market rates of materials plus labour and overheads. The rates shall be worked out based on same or similar items in the CPWD Analysis of Rates - Electrical 2018.
24. The contractor should be prepared to take up works immediately on intimation by any mode of communication from the institute. The maximum response time shall be 48 hours from the intimation of work. Penalty provision for delayed execution of work- penalty as decided by competent authority shall be levied for delay in executing work.
25. The work shall be carried out in the best workmanlike manner in conformity with this specification, the relevant specification/codes of practice of the Bureau of Indian Standards / Inspectorate standards. The contractor shall carry out the works as per the technical specifications laid down by the CPWD schedule of works. The scope of each line item shall be as per the respective item in the CPWD detailed specifications (General specification for electrical works). The contractor shall be well aware of the scope and relevant CPWD specifications prior to submission of bid.
26. Works shall be carried out in close co-ordination with connected departments of institute representatives causing minimum disturbance in patient care areas and functioning of hospital. Entry into any patient care area shall be after getting permission from the concerned institute representative. Works will be scheduled as per the functional requirement of institute; this can be, but not limited to, evenings, night shifts or holidays. The contractor shall be ready to do the work 24x7 as per the requirement of institute. It is to be understood that patient care activities and functioning of institute shall take precedence over all jobs and decision of institute regarding the scheduling of job shall be binding on the

contractor. No additional claim whatsoever with regard to the timing or scheduling of work will be admissible.

27. Materials being used at works should be produced for inspection if desired by engineers of DCE.
28. The contractor should have quick and easy communication facilities and such details should be sent along with quotation. The contractor shall designate a single point contact person for co-coordinating the works, immediately on the award of work.
29. Recommended makes of materials alone should be used and exception should only be with due permission of DCE. Invariably all material used shall conform to the relevant IS standards.
30. Contractor should sign all the pages of tender and name, address phone no: etc should be written on last page.
31. Work permits should be obtained from DCE & countersigned by security officer to enter institute premises for work in advance.
32. Debris generated during work should be removed from institute campus & certificate to that effect from institute S.O should accompany the bills.
33. The contractor or his employees should have appropriate valid license issued by electrical inspectorate for doing minor electrical installation works. Contractor shall deploy adequate manpower for achieving the service conditions as per contract and as per the requirements of the institute. Manpower deployed shall have sound health, adequate experience as well as competency. The contractor shall ensure that the personnel deployed have been provided with all tools, tackles, Personal Protective equipment, safety training appropriate etc... Contractor shall immediately remove and replace any of their personnel, who in the opinion of institute, is incompetent, or negligent or of unacceptable behavior or whose employment is otherwise considered to be undesirable. Contractor shall be solely and fully responsible in all aspects for employees deployed at institute.
34. Statutory deductions at prevailing rates will be made from every bill submitted by the contractor. All statutory payments (present and future) if any including that admissible to the staff engaged by the contractor should be born by the contractor.
35. Institute will not be liable for any accident or damage to the employee of the contractor during course of work. The contractor will be responsible to cover his staff under insurance for personal accidents or death. Insurance if necessary as per prevailing rules of the Government should be arranged by the contractor at his cost in respect of any injury in the course and out of their work. The contractor or the workers engaged by him shall not claim any damages or compensation or reimbursement of any expenses which is incurred by them

either by compensation to the workers engaged/ deployed for the contract work in the Institute or otherwise. It is to be specifically understood that the Institute shall not have any employee- employer relationship between the person/s engaged /deployed by the contractor for fulfilling the obligations under the contract and that those persons are not employees of the Institute.

36. On completion of works, the contractor shall submit two sets of "As – Built" drawings, one set reproducible and one set in CAD version in compact disc to the Engineer-in-charge before the submission of the final bill. The drawings shall incorporate the correction suggested by the Engineer in DCE and as per the guidelines provided by the Engineer. The contractor shall also carry out marking (stenciling) the switch box name, circuit name, distribution box name, cable size and other required details as required on the distribution boards, panels and switch boxes. Labeling shall be done using two colour vinyl stickers. The layout, font size and colour shall be approved by engineer DCE. The charges for preparation of drawings and labeling shall be included in the rate quoted. 5% of invoice value shall be withheld from the invoice bill payable to contractor if labeling and submission of drawing is not completed by contractor prior to submission of bill.
37. The contractor shall not sublet the work.
38. In case the Institute finds that the work done by contractor was of poor quality or the material issued was found to be of poor quality. Any defects in workmanship or deterioration in the quality or deviation from tender specifications coming to notice shall be rectified at site within 72 hours of the reporting of the same to the contractor. The institute will have the right to recover the amount from the contractor.
39. In the event of any damage to institute property/personnel due to the act of contractor, the responsibility of the service shall be solely with the contractor.
40. In case of a tie in the rate quoted, the institute shall inform the same to the eligible bidders. The institute has the right to invite bids offering further discount from the quoted rate in this tender from the eligible tenderers.
- 41. The contractor should sign the terms and conditions indicating that the conditions have been read and are acceptable.**

H.O.D, Division of Clinical Engineering

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Sign & Seal of Contractor

LIST OF APPROVED MAKES

Sl. No	Item	Make of Materials/Equipment
1	1.1 kV grade XLPE insulated PVC sheathed Al./ Cu. Cable	Torrent, Havells, Gloster, Finolex,KEI
2	MCCB, SFU	Siemens, Schneider, L&T, ABB, Legrand
3	660/1100 volt grade stranded unsheathed wire with copper conductor	Finolex, RR Kabel, Lapp Kabel, Polycab
4	PVC Conduit	Konseal,Balco,Precision,Clipsal
5	HT Joints and termination	3M, Raychem (Work to be done by certified cable jointer)
6	MCB, RCBO,RCCB	Legrand (DX ³), Schnieder (Acti 9 xC60), ABB(S 200)
7	MCB Distribution Boards	Legrand, Schnieder (Acti 9),ABB

SI NO	DESCRIPTION	UOM	UNIT RATE
WIRING IN STEEL AND PVC CONDUIT			
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 steel conduit, with piano type switch, hylam sheet, suitable size MS box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable, including ceiling rose etc. as required. Make Anchor	Point	1552
2	Wiring for twin control light point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, 2 way piano type switch, hylam sheet, suitable size MS box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable including ceiling rose etc. as required. Make Legrand Mylink	Point	1563
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 steel 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 including ceiling rose etc. as required. Make Legrand Mylink	Point	1583
4	Wiring for twin control light point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel 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 including ceiling rose etc. as required. Make Legrand Mylink	Point	1683
5	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required.		
5.01	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	Metre	271
5.02	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	Metre	299
5.03	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	Metre	343
5.04	2 X 6 sq. mm + 1 X 6 sq. mm earth wire	Metre	465
5.05	2 X 10 sq. mm + 1 X 6 sq. mm earth wire	Metre	556
5.06	2 X 16 sq. mm + 1 X 6 sq. mm earth wire	Metre	724
6	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 medium class PVC/Oval conduit, with piano type switch, hylam sheet, suitable size M.S. box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable including ceiling rose etc. as required. Make: Anchor	Point	1261
7	Wiring for twin control light point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC/Oval conduit, 2 way piano type switch, hylam sheet, suitable size MS box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable including ceiling rose etc. as required.	Point	1272
8	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 medium class PVC/Oval 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 including ceiling rose etc. as required. Make Legrand Mylink	Point	1292

SI NO	DESCRIPTION	UOM	UNIT RATE
9	Wiring for twin control light point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC/Oval 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 including ceiling rose etc. as required. Make Legrand Mylink	Point	1379
10	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC/Oval conduit as required.		
10.01	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	Metre	191
10.02	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	Metre	218
10.03	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	Metre	261
10.04	2 X 6 sq. mm + 1 X 6 sq. mm earth wire	Metre	325
10.05	2 X 10 sq. mm + 1 X 6 sq. mm earth wire	Metre	428
10.06	2 X 16 sq. mm + 1 X 6 sq. mm earth wire	Metre	547
11	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required.		
11.01	1 x 1.5 sq. mm	Metre	38
11.02	1 x 2.5 sq. mm	Metre	50
11.03	1 x 4 sq. mm	Metre	78
11.04	1 x 6 sq. mm	Metre	112
12	Supplying and fixing of following sizes of steel conduit along with accessories in surface/recess including painting in case of surface conduit, or cutting the wall and making good the same in case of recessed conduit as required.		
12.01	20 mm	Metre	191
12.02	25 mm	Metre	215
12.03	32 mm	Metre	265
12.04	40 mm	Metre	381
12.05	50 mm	Metre	480
13	Supplying and fixing of following sizes of medium class PVC/Oval conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.		
13.01	20 mm	Metre	110
13.02	25 mm	Metre	117
13.03	32 mm	Metre	120
13.04	40 mm	Metre	170
13.05	50 mm	Metre	206
14	Supplying and fixing following piano type switch/ socket on the existing switch box/ cover including connections etc. as required. Make: Anchor		
14.01	5/6 amps switch	Each	59
14.02	2 way 5/6 A switch	Each	70
14.03	15/16 A switch	Each	144
14.04	3 pin 5/6 A socket outlet	Each	76
14.05	6 pin 15/16 A socket outlet	Each	167
15	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required. Make Legrand Mylink		
15.01	5/6 A switch	Each	111
15.02	2 way 5/6 A switch	Each	161
15.03	15/16 A switch	Each	172
15.04	3 pin 5/6 A socket outlet	Each	145
15.05	6 pin 15/16 A socket outlet	Each	228

SI NO	DESCRIPTION	UOM	UNIT RATE
16	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required. Make Legrand Myrius		
16.01	5/6 A switch	Each	111
16.02	2 way 5/6 A switch	Each	161
16.03	15/16 A switch	Each	172
16.04	3 pin 5/6 A socket outlet	Each	145
16.05	6 pin 15/16 A socket outlet	Each	228
17	Supplying and fixing suitable size GI box/surface PVC box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 A modular socket outlet and 5/6 A modular switch, connections etc. as required. Make Legrand Mylink	Each	523
18	Supplying and fixing suitable size GI box/surface PVC box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 A modular socket outlet and 15/16 A modular switch, connections etc. as required. Make Legrand Mylink	Each	646
19	Supplying and fixing suitable size GI box/surface PVC with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 A modular socket outlet and 5/6 A modular switch, connections etc. as required. Make Legrand Myrius	Each	523
20	Supplying and fixing suitable size GI box/surface PVC with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 A modular socket outlet and 15/16 A modular switch, connections etc. as required. Make Legrand Myrius	Each	646
21	Supplying and fixing 3 pin, 5 A ceiling rose on the existing junction box/ wooden block including cover connections etc. as required.	Each	85
22	Installation ,Testing, Commissioning of wall bracket /ceiling fittings of all sizes and shapes containing upto two GLS/CFL/LED lamps per fitting, complete with all accessories including connections with multicore wire etc. as required.	Each	128
23	Supplying and fixing call bell/ buzzer suitable for single phase, 230 V, complete as required.	Each	120
24	Installation, testing and commissioning of pre-wired, fluorescent fitting / compact fluorescent fitting of all types, complete with all accessories and tube/lamp etc. directly on ceiling/ wall, including connections with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable and earthing etc. as required.	Each	219
25	Installation, testing and commissioning of pre-wired, fluorescent fitting / compact fluorescent fitting of all types, complete with all accessories and tube/lamp etc., including supplying and fixing ball and socket arrangement, 2 Nos. down rods of 20 mm dia X 1.6 mm thick steel conduit upto 30 cm length, painting and wiring the down rods and connections with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable and earthing etc. as required.	Each	467
26	Providing and fixing extra conduit down rod of 20 mm dia, 2 X 10 cm length, wiring with 2 X 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable including painting etc. as required. (Note : More than 5 cm length shall be rounded to the nearest 10 cm and 5 cm or less shall be ignored)	Each	39

SI NO	DESCRIPTION	UOM	UNIT RATE
27	Installation, testing and commissioning of LED fittings with chain and copper wiring - Installation testing and commissioning of prewired fluorescent fittings of all types including LED complete with all accessories, lamps etc. on false ceiling including supplying and fixing of GI chain and hook arrangement, upto 60cm length, and wiring using 3 runs of 1.5 sqmm FR PVC insulated stranded copper conductor cable as required.	Each	317
28	P/F extra chain with copper wiring- Providing and fixing extra chain 2x10 cm length with using 3 runs of 1.5 sqmm FR PVC insulated stranded copper conductor including painting etc. as required. (more than 5 cm length shall be rounded to the nearest 10 cm. and 5cm or less shall be ignored)	Each	39
29	Installation, testing and commissioning of ceiling fan, including wiring the down rods of standard length (upto 30 cm) with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable etc. as required.	Each	223
30	Supplying and fixing extra down rod of 15 cm length G.I. pipe, 15 mm dia, heavy gauge including painting etc. as required.	Each	43
31	Installation of exhaust fan in the existing opening, including making good the damage, connection, testing, commissioning etc. as required.		
31.01	Upto 450 mm sweep	Each	474
31.02	510 mm sweep	Each	683
32	installation of Fan hook of 8 mm m.s rod for ceiling fan,fabrication,supply & fixing on steel reinforcement of r.c.c roof including making good the damages.	Each	287
33	Painting of ceiling fan in installed position with one or more coats of spray painting with synthetic enamel paint of approved brand and manufacture to give an even shade, including cleaning of surface with detergent etc. as required.	Each	176
34	Legrand Modular Blanking plate (mylink) 1 module supply & installation	Each	46
35	Legrand Modular Blanking plate (Myrius) 1 module supply & installation	Each	52
36	Supply and installation of 80x50mm DLP-UPVC cable management trunking system with front cover, end cap,seperation partition including all accessories as required complete legrand make	Meter	1044
37	Supply and installation of 105x50mm DLP-UPVC cable management trunking system with front cover, end cap,seperation partition including all accessories as required complete legrand make	Meter	1566
38	Supply and installation of 180x50mm DLP-UPVC cable management trunking system with front cover, end cap,seperation partition including all accessories complete legrand make	Meter	2219
MCB & DB'S			
39	Providing and fixing following rating and breaking capacity and pole MCCB with thermomagnetic release and terminal spreaders in existing cubicle panel board/DB including drilling holes in cubicle panel, spreader making connections, etc. as required.		
39.01	100 A, 16 KA,TPMCCB	Each	4862
39.02	125 A, 16 KA,TPMCCB	Each	5409
39.03	160 A, 16 KA,TPMCCB	Each	6118
39.04	100 A, 16 KA,FPMCCB	Each	9627
39.05	125 A, 16 KA,FPMCCB	Each	9793
39.06	160 A, 16 KA,FPMCCB	Each	19769

SI NO	DESCRIPTION	UOM	UNIT RATE
40	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)		
40.01	2+4 way, Single door	Each	1436
40.02	6 way, Double door	Each	2168
40.03	8 way, Double door	Each	2297
40.04	12 way, Double door	Each	2679
41	Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)		
41.01	4 way (4 + 12), Double door	Each	4004
41.02	6 way (4 + 18), Double door	Each	4819
41.03	8 way (4 + 24), Double door	Each	6004
42	Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 V, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 A tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCBs (but without MCBs and incomer) as required . (Note : Vertical type MCB TPDB is normally used where 3 phase outlets are required.)		
42.01	4 way (4 + 12), Double door	Each	7375
42.02	8 way (4 + 24), Double door	Each	10106
42.03	12 way (4 + 36), Double door	Each	12826
43	Supplying and fixing following ways surface/ recess mounting, vertical type, 415 volts, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 amps tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCB's, with provision of MCCB as incomer, interconnection between incomer MCCB and bus bars (but without MCB's/ MCCB) as required . (Note : Vertical type MCB TPDB is normally used where 3 phase outlets are required.)		
43.01	4 way (4 + 12), Double door	Each	11093
43.02	8 way (4 + 24), Double door	Each	13050
44	Installation of distribution boards along with necessar interconnections both recessed and surface. DB will be supplied		
44.01	single pole and neutral, sheet steel, MCB distribution board (All types)	Each	587
44.02	horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 V, on surface/ rece	Each	979
44.03	Vertical type, 415 V, TPN MCB distribution board of sheet steel	Each	1109
44.04	Vertical type, 415 V, TPN MCCB Incomer distribution board of sheet steel	Each	1305
45	Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.		
45.01	Single pole	Each	260
45.02	Single pole and neutral	Each	710
45.03	Double pole	Each	726
45.04	Triple pole	Each	1078
45.05	Triple pole and neutral	Each	1425
46	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.	Each	10
47	Supplying and fixing following rating, double pole, 240 V,isolator in the existing MCB DB complete with connections,testing and commissioning etc. as required.		
47.01	40A	Each	442

SI NO	DESCRIPTION	UOM	UNIT RATE
47.02	63A	Each	502
48	Supplying and fixing following rating, four pole, 415 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.		
48.01	40A	Each	1086
48.02	63A	Each	1095
48.03	100A	Each	1366
49	Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.		
49.01	25 A	Each	2515
50	Supplying and fixing following rating, four pole, (three phase and neutral), 415 volts, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.		
50.01	40 A	Each	3427
50.02	63 A	Each	3624
51	Supplying and fixing following rating, four pole, (three phase and neutral), 415 volts, residual current circuit breaker (RCCB), having a sensitivity current 100 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.		
51.01	40 A	Each	4176
51.02	63 A	Each	4698
52	Supplying and fixing following rating, four pole, (three phase and neutral), 415 volts, residual current circuit breaker (RCCB), having a sensitivity current 100 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.		
52.01	40 A	Each	4437
52.02	63 A	Each	4894
53	Supplying and fixing DP sheet steel enclosure on surface/ recess along with 25/32 A 240 V "C" curve DP MCB complete with connections, testing and commissioning etc. as required.	Each	1107
54	Supplying and fixing TP sheet steel enclosure on surface/ recess along with 16/25/32 A 415 V "C" curve TP MCB complete with connections, testing and commissioning etc. as required.	Each	1496
55	Supplying and fixing 20 A, 240 V, SPN Industrial type socket outlet, with 2 pole and earth, metal enclosed plug top alongwith 20 A "C" curve, SP, MCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required.	Each	1608
E A R T H I N G			
56	Earthing with G.I. earth pipe 4.5 metre long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal/ coke and salt as required.	Each	6927
57	Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required.	Each	8112
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SI NO	DESCRIPTION	UOM	UNIT RATE
58	Earthing with copper earth plate 600 mm X 600 mm X 3 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required.	Each	15391
59	Supplying and laying 6 SWG G.I. wire at 0.50 metre below ground level in pipe or bare for conductor earth electrode, including connection/ termination with GI thimble etc. as required.	Metre	57
60	Supplying and laying 25 mm X 6 mm copper strip at 0.50 metre below ground pipe or bare as strip earth electrode, including connection/ terminating with nut, bolt, spring, washer etc. as required.(Jointing shall be done by overlapping and with 2 sets of brassnut bolt & spring washer spaced at 50mm)	Metre	1113
61	Supplying and laying 25 mm X 6 mm G.I strip at 0.50 metre below ground pipe or bare as strip earth electrode, including connection/ terminating with G.I. nut, bolt, spring, washer etc. as required. (Jointing shall be done by overlapping and with 2 sets of G.I. nut bolt & spring washer spaced at 50mm)	Metre	171
62	Providing and fixing 25 mm X 6 mm copper strip on surface or in recess for connections etc. as required.	Metre	1317
63	Providing and fixing 25 mm X 6 mm G.I. strip on surface or in recess for connections etc. as required.	Metre	269
64	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing as required.	Metre	74
65	Providing and fixing 10SWG dia bare copper wire on surface or in recess for loop earthing as required.	Metre	131
66	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing along with existing surface/ recessed conduit/ submain wiring/ cable as required.	Metre	48
67	Providing and fixing 25 mm X 3 mm copper strip on surface or in recess for connections etc. as required.	Metre	731
68	Supplying and laying 25 mm X 3 mm copper strip at 0.50 metre below ground pipe or bare as strip earth electrode, including connection/ terminating with nut, bolt, spring, washer etc. as required.(Jointing shall be done by overlapping and with 2 sets of brassnut bolt & spring washer spaced at 50mm)	Metre	874
69	Providing and fixing 12 SWG dia bare copper wire on surface or in recess for loop earthing as required.	Metre	111
	CABLING		
	LT CABLING		
70	Supply of following size 1.1 KV grade XLPE insulated, PVC sheathed, armoured Aluminium /copper conductor cable conforming to IS 7098 (Part 1) amended upto date.		
70.01	3.5C 400 Sq.mm Al	Metre	1602
70.02	3.5C 300 Sq.mm Al	Metre	1263
70.03	3.5C 240 Sq.mm Al	Metre	1051
70.04	3.5C 185 Sq.mm Al	Metre	817

SI NO	DESCRIPTION	UOM	UNIT RATE
70.05	3.5C 150 Sq.mm Al	Metre	653
70.06	3.5C 120 Sq.mm Al	Metre	551
70.07	3.5C 95 Sq.mm Al	Metre	441
70.08	3.5C 70 Sq.mm Al	Metre	356
70.09	3.5C 50 Sq.mm Al	Metre	263
70.10	3.5C 35 Sq.mm Al	Metre	203
70.11	3.5C 25 Sq.mm Al	Metre	162
70.12	4C 25 Sq.mm Al	Metre	174
70.13	4C 16 Sq.mm Al	Metre	131
70.14	4C 10 Sq.mm Al	Metre	102
70.15	3C 25 Sq.mm Al	Metre	143
70.16	3C 16 Sq.mm Al	Metre	110
70.17	3C 10 Sq.mm Al	Metre	104
70.18	2C 6Sq.mm Cu	Metre	159
70.19	2C 4Sq.mm Cu	Metre	119
70.20	2C 10 Sq.mm Cu	Metre	242
70.21	4C 35 Sq.mm Cu	Metre	1399
70.22	4C 25 Sq.mm Cu	Metre	1015
70.23	4C 16 Sq.mm Cu	Metre	614
70.24	4C 10 Sq.mm Cu	Metre	425
70.25	4C 6 Sq.mm Cu	Metre	273
70.26	4C 4 Sq.mm Cu	Metre	195
71	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.		
71.01	3.5C 400 Sq.mm Al	Each	1578
71.02	3.5C 300 Sq.mm Al	Each	1221
71.03	3.5C 240 Sq.mm Al	Each	1056
71.04	3.5C 185 Sq.mm Al	Each	916
71.05	3.5C 150 Sq.mm Al	Each	724
71.06	3.5C 120 Sq.mm Al	Each	638
71.07	3.5C 95 Sq.mm Al	Each	617

SI NO	DESCRIPTION	UOM	UNIT RATE
71.08	3.5C 70 Sq.mm Al	Each	480
71.09	3.5C 50 Sq.mm Al	Each	429
71.10	3.5C 35 Sq.mm Al	Each	392
71.11	3.5C 25 Sq.mm Al	Each	326
71.12	4C 25 Sq.mm Al	Each	326
71.13	4C 16 Sq.mm Al	Each	326
71.14	4C 10 Sq.mm Al	Each	286
71.15	3C 25 Sq.mm Al	Each	290
71.16	3C 16 Sq.mm Al	Each	290
71.17	3C 10 Sq.mm Al	Each	275
71.18	2C 6Sq.mm Cu	Each	258
71.19	2C 4Sq.mm Cu	Each	258
71.20	2C 10Sq.mm Cu	Each	258
71.21	4C 35 Sq.mm Cu	Each	280
71.22	4C 25 Sq.mm Cu	Each	260
71.23	4C 16 Sq.mm Cu	Each	250
71.24	4C 10 Sq.mm Cu	Each	240
71.25	4C 6 Sq.mm Cu	Each	220
71.26	4C 4 Sq.mm Cu	Each	200
72	Laying of one number PVC/XLPE insulated and PVC sheathed power/control cable of 1.1 KV grade of following size direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc as required as per technical specification.		
72.01	Upto 35 sq. mm	Metre	422
72.02	Above 35 sq. mm and upto 95 sq. mm	Metre	441
72.03	Above 95 Sq.mm upto 185 Sq.mm	Metre	459
72.04	Above 185 Sq.mm upto 400Sq.mm	Metre	517
73	Laying of one number additional PVC/XLPE insulated and PVC sheathed power/control cable of 1.1 KV grade of following size direct in ground in the same trench in one tier horizontal formation including excavation, sand cushioning, protective covering and refilling the trench etc as required as per technical specification.		
73.01	Upto 35 sq. mm	Metre	290
73.02	Above 35 Sq.mm upto 95 Sq.mm	Metre	308

SI NO	DESCRIPTION	UOM	UNIT RATE
73.03	Above 95 Sq.mm upto 185 Sq.mm	Metre	328
73.04	Above 185 Sq.mm upto 400 Sq.mm	Metre	384
74	Laying of one number PVC/XLPE insulated and PVC sheathed power/control cable of 1.1 KV grade of following size in the existing RCC/ HUME/ METAL pipe as required as per technical specification.		
74.01	Upto 35 sq. mm	Metre	40
74.02	Above 35 Sq.mm upto 95 Sq.mm	Metre	61
74.03	Above 95 Sq.mm upto 185 Sq.mm	Metre	84
74.04	Above 185 Sq.mm upto 400Sq.mm	Metre	146
75	Laying of one number PVC/XLPE insulated and PVC sheathed power/control cable of 1.1 KV grade of following size in the existing masonry open duct as required as per technical specification.		
75.01	Upto 35 sq.mm	Metre	30
75.02	Above 35 Sq.mm upto 95 Sq.mm	Metre	50
75.03	Above 95 Sq.mm upto 185 Sq.mm	Metre	68
75.04	Above185 Sq.mm upto 400 Sq.mm	Metre	125
76	Laying and fixing of one number PVC/XLPE insulated and PVC sheathed power/control cable of 1.1 KV grade of following size on wall surface as required as per technical specification.		
76.01	Upto 35 sq. mm (clamped with 1mm thick saddle)	Metre	51
76.02	Above 35 sq. mm and upto 95 sq. mm (clamped with 25x3mm MS flat clamp)	Metre	136
76.03	Above 95 sq. mm and upto 185 sq. mm (clamped with 25/40x3mm MS flat clamp)	Metre	159
76.04	Above 185 sq. mm and upto 400 sq. mm (clamped with 40x3mm MS flat clamp)	Metre	238
77	Laying and fixing of one number PVC/XLPE insulated and PVC sheathed power/control cable of 1.1 KV grade of following size on cable tray as required as per technical specification.		
77.01	Upto 35 sq. mm (clamped with 1mm thick saddle)	Metre	43
77.02	Above 35 sq. mm and upto 95 sq. mm (clamped with 25x3mm MS flat clamp)	Metre	97
77.03	Above 95 sq. mm and upto 185 sq. mm (clamped with 25/40x3mm MS flat clamp)	Metre	121
77.04	Above 185 sq. mm and upto 400 sq. mm (clamped with 40x3mm MS flat clamp)	Metre	196
78	Supplying and making cable route marker with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) of size 60 cm X 60 cm at the bottom and 50 cm X 50 cm at the top with a thickness of 10cm including inscription duly engraved as required.	Each	692
79	Supplying and fixing cable route marker with 10 cm X 10 cm X 5 mm thick G.I. plate with inscription there on, bolted /welded to 35 mm X 35 mm X 6 mm angle iron, 60 cm long and fixing the same in ground as required.	Each	500

SI NO	DESCRIPTION	UOM	UNIT RATE
80	Providing, laying and fixing following dia G.I. pipe (medium class) in ground complete with G.I. fittings including trenching (75 cm deep)and re-filling etc as required		
80.01	40 mm	Metre	679
80.02	50 mm	Metre	783
80.03	80mm	Metre	1005
80.04	100mm	Metre	1175
80.05	150mm	Metre	1631
81	Supplying and making indoor cable end termination with heat shrinkable jointing kit complete with all accessories including lugs suitable for following size of 3 core, XLPE aluminium conductor cable of 11 KV grade as required :		
81.01	240 sq. mm	Each	15244
81.02	300 sq. mm	Each	15244
82	Supplying and making outdoor cable end termination with heat shrinkable jointing kit complete with all accessories including lugs suitable for following size of 3 core, XLPE aluminium conductor cable of 11 KV grade as required :		
82.01	240 sq. mm	Each	22402
82.02	300 sq. mm	Each	22402
83	Supply, fabricating and installing MS items such as Tees/ angles/ channels, cable trays etc. on floor/ ceiling/ wall including necessary civil work such as grouting, finishing etc. and painting with two coats of primer and two coats of synthetic enamel paint as required	kg	144
	BASIC RATE OF LABOUR CHARGES		
84	Basic rate of labour charges for wire man	Day	914
85	Basic rate of labour charges for Fitter	Day	914
86	Basic rate of labour charges for Mason	Day	848
87	Basic rate of labour charges for helper	Day	783
88	Basic rate of labour charges for Painter	Day	848
89	Basic rate of labour charges for Excavator	Day	914
	TELECOMMUNICATION WORKS		
90	Telephone cable wiring in existing 20 mm/25 mm PVC surface conduit pipe ISI marked along with supplying and drawing 1 pair 0.5 mm dia FRLS PVC insulated annealed copper conductor, unarmoured telephone cable.	Metre	75
91	Telephone cable wiring in existing 20 mm/25 mm PVC Oval conduit pipe ISI marked along with supplying and drawing 2 pair 0.5 mm dia FRLS PVC insulated annealed copper conductor, unarmoured telephone cable.	Metre	80
92	Telephone cable wiring in existing 20 mm/25 mm PVC Casing and capping pipe ISI marked along with supplying and drawing 5 pair 0.5 mm dia FRLS PVC insulated annealed copper conductor, unarmoured telephone cable.	Metre	95
93	Telephone cable wiring in existing 20 mm/25 mm PVC Casing and capping pipe ISI marked along with supplying and drawing 10 pair 0.5 mm dia FRLS PVC insulated annealed copper conductor, unarmoured telephone cable.	Metre	110

SI NO	DESCRIPTION	UOM	UNIT RATE
94	Telephone cable wiring in existing 20 mm/25 mm PVC Casing and capping pipe ISI marked along with supplying and drawing 20 pair 0.5 mm dia FRLS PVC insulated annealed copper conductor, unarmoured telephone cable.	Metre	150
95	Supply and fixing of 25mm PVC Oval conduit pipe ISI marked along with accessories like elbow, bend, tee, coupling etc with supports like saddles, screws, fisher plugs etc	Metre	75
96	Supply and fixing of 20mm PVC Casing and capping conduit pipe ISI marked along with accessories like elbow, bend, tee, coupling etc with supports like saddles, screws, fisher plugs etc including labour charges	Metre	85
97	Supply and fixing of 25mm PVC Casing and capping conduit pipe ISI marked along with accessories like elbow, bend, tee, coupling etc with supports like saddles, screws fisher plugs etc	Metre	65
98	Concealed Telephone Wiring: Wiring and laying of telephone cables in 20mm PVC conduit pipe ISI marked including civil works and labor charges.	Metre	125
99	Supply, laying, fixing and testing of 10 pair 0.51mm diameter annealed copper conductor of armoured PVC insulated and jelly filled telephone wires telephone cable through 3 Feet trench including civil works.	Metre	300
100	Supply, laying, fixing and testing of 20 pair 0.51mm diameter annealed copper conductor of armoured PVC insulated and jelly filled telephone wires telephone cable through 3 Feet trench including civil works.	Metre	400
101	Supply, laying, fixing and testing of 50 pair 0.51mm diameter annealed copper conductor of armoured PVC insulated and jelly filled telephone wires telephone cable through 3 Feet trench including civil works.	Metre	500
102	Supply, laying, fixing and testing of 100 pair 0.51mm diameter annealed copper conductor of armoured PVC insulated and jelly filled telephone wires telephone cable through 3 Feet trench including civil works.	Metre	600
103	Supply and fixing of 10 Pair metal telephone distribution Box with krone modules.	Each	500
104	Supply and fixing of 20 Pair metal telephone distribution Box with krone modules.	Each	800
105	Supply and fixing of 50 Pair metal telephone distribution Box with krone modules.	Each	1500
106	Supply and fixing of 100 Pair metal telephone distribution Box with krone modules.	Each	2000
107	Supply of 0.5mm 10 pair metal telephone distribution box with krone modules.	Each	300
108	Supply of 20 pair metal telephone distribution box with krone modules.	Each	800
109	Supply of 50 pair metal telephone distribution box with krone modules.	Each	1500
110	Supply of 100 pair metal telephone distribution box with krone modules.	Each	2000
111	Supply of Telephone Socket outlet piano type with 1/2 RJ 11 connector.	Each	30
112	Supply of Telephone Socket outlet modular type with 1/2 RJ 11 connector.	Each	40
113	Supply and fixing of Legrand modular white metal cover plates with frame 1 module (Mylinc).	Each	50

SI NO	DESCRIPTION	UOM	UNIT RATE
114	Supply and fixing of Legrand modular white metal cover plates with frame 2 module (Myline).	Each	75
115	Supply and fixing of legrand modular socket with RJ 11- 1 port complete as required.	Each	35
116	Supply and fixing of legrand modular socket with RJ 11- 2 port complete as required	Each	45
Quoted Rate (% above or below)			
The bidder shall write the % of rate above or below the rates indicated in the schedule in the above space.			
Name of the firm: -			
Address of the firm: -			
Signature with stamp of the bidder			