



**CENTRE FOR DEVELOPMENT OF IMAGING TECHNOLOGY (C-DIT)**

Chitranjali Hills, Thiruvallam, Thiruvananthapuram-27  
Phone: 0471-2380910, 912 Fax: 0471- 2380681

No. C-DIT/ESD-OIP/22-23/T387

Date: 31.01.2023

**TENDER NOTICE**

**FOR THE ELECTRIFICATION OF CDIT OIP BUILDING**

Sealed tenders are invited for the electrification of CDIT OIP building at Thiruvallam. The envelopes containing the tender should bear the superscription **“For the electrification of CDIT OIP building”** and should be addressed to The Registrar, Centre for Development of Imaging Technology (C-DIT), Chitranjali Hills, Thiruvallam, Thiruvananthapuram 695027. Intending tenderers may submit the tenders on their own papers by post/hand. Last date for receipt of tenders is **13.02.2023, 3.00 PM**. Late tenders will not be accepted. The tenders will be opened at **3.30 PM on 13.02.2023** in C-DIT office in the presence of the tenderers or their authorized representatives who may be present at that time. Details of the requirements and the conditions governing the supply can be downloaded from our website [www.cdit.org](http://www.cdit.org)

Thiruvananthapuram  
31.01.2023

Sd/-  
REGISTRAR



## CENTRE FOR DEVELOPMENT OF IMAGING TECHNOLOGY (C-DIT)

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### **GENERAL TERMS AND CONDITIONS**

1. This Tender is invited for the " Electrification of CDIT OIP building at Thiruvallam"
2. C-DIT reserves the right to cancel any or all tenders without assigning any reason whatsoever

### **SCHEDULE OF WORKS FOR ELECTRIFICATION**

All works will be carried out to relevant IS specifications whether so mentioned in description of works or not.

The schedule is of probable quantities and it may vary on the higher side or lower side. Hence, on completion of the work the quantities will be measured in the presence of the client's representative.

| <b>Sl.No</b> | <b>Particulars / Specifications</b>   | <b>Qty</b> | <b>Unit</b> |
|--------------|---|------------|-------------|
| 1            | MODIFICATION OF SSB H1<br><br>Replacement of existing 32A TPN SFU in SSB H1 and installation of one no 80A TP 25kA MCCB in the enclosure with extended handles, Spreader Terminals and all other required accessories.  | 1          | Each        |
| 2            | EARTHING  |            |             |
| 2.01         | Supply and providing pipe earthing as per IS 3043 with 3.00 m long 40 mm dia B class GI pipe , GI funnel with weld mesh, filling required quantity of charcoal & salt including construction of inspection chamber with a bed concrete of 1:4:8 PCC using 40 mm broken stone (10 cm thick), brick work in cement mortar 1:6, plastering the surface of brick masonry and the exposed surface of PCC bed with cement mortar 1:4, 12 mm thick, (the finished inside dimension shall be 300 x 300 x 300 mm) including test joint, and covering at the top. | 2          | Each        |
| 3            | Supplying & laying / fixing of earthing conductor of GI / CU flat / wires jointing as per IS:3043 / 87 in trench walls pulling through pipes and the joints shall be tinned as  |            |             |

|      |   |     |      |
|------|---|-----|------|
|      | required.   |     |      |
| 3.01 | 10 SWG Cu   | 120 | Mts  |
| 3.02 | 25x3mm Cu Bench   | 2   | Nos  |
| 4    | <b>CABLE LAYING THROUGH EARTH</b><br>Supplying and laying the following X.L.P.E insulated 1.1 kV grade aluminium/copper conductor cable conforming IS:1554 ( Part-I ) in ground using excavation, cushioning using excavated soil, and protection using bricks.   |     |      |
| 4.01 | 3.5 x 35 sq. mm AL Cable  | 55  | Mts  |
| 5    | <b>CABLE LAYING BY CLAMPING</b><br>Supplying and laying the following X.L.P.E insulated 1.1 kV grade aluminium/copper conductor cable conforming IS:1554 ( Part-I ) in cable trenches/cable tray or on concrete wall or through pipes as per specifications, etc.   |     |      |
| 5.01 | 3.5 x 35 sq. mm AL Cable  | 5   | Mts  |
| 5.02 | 4 x 25 sq. mm Al Cable  | 15  | Mts  |
| 5.03 | 4 x 10 sq. mm Al Cable  | 50  | M    |
| 6    | <b>CABLE END TERMINATION</b><br>Supplying and making of Siemens type / trapdoor compression gland, Aluminium Lugs, earth clamps for XLPE insulated and PVC sheathed armoured conductor cable 1.1kV grade and making end terminations suitable for 2/3/3.5/4 core cables of the following sizes as required. |     |      |
| 6.01 | 3.5 x 35 sq. mm AL Cable  | 2   | Each |
| 6.02 | 4 x 25 sq. mm Al Cable  | 2   | Each |
| 6.03 | 4 x 10 sq. mm Al Cable  | 4   | Each |
| 7    | <b>DISTRIBUTION BOARDS</b><br>Supply, installation testing and commissioning of following MCB Double door DB'S with necessary insulated tinned copper bus bars. Interconnections, earthing and neutral terminal blocks.   |     |      |
|      | Make: Legrand/ L&T  |     |      |
| 7.01 | 3Ø 6W VDB (MCCB INCOMER)  | 1   | No   |
| 7.02 | 3Ø 4W DB  | 1   | No   |

|      |  |    |     |
|------|--|----|-----|
| 8    | <b>MCBs/RCCBs and DB Accessories</b><br>Supply, fixing, testing and commissioning of isolators/MCBs in existing distribution boards and giving connections etc. complete.  |    |     |
|      | Make: Legrand/ Schneider/ L&T/ Havells   |    |     |
| 8.01 | 40A-63A FP MCB - C curve   | 1  | No  |
| 8.02 | 40A-63A TP MCB - C curve   | 1  | No  |
| 8.03 | 6A-32A TP MCB - C curve  | 3  | Nos |
| 8.04 | 6A-32A SP MCB - C curve  | 10 | Nos |
| 8.05 | 63A,100mA 4P RCCB  | 1  | No  |
| 8.06 | 32A,30mA 4P RCBO   | 2  | Nos |
| 8.07 | Enclosure for 4P RCCB+4P MCB   | 1  | No  |
| 8.08 | Dummy plates   | 16 | Nos |
| 8.09 | 80A 4P 25kA MCCB   | 1  | No  |
|      | Make: Legrand/ L&T   |    |     |
| 9    | <b>WIRING</b><br>Supply and carrying out wiring for Lights, Fan, Exhaust points including testing and commissioning in open/concealed conduit system from control board to luminaries / Fan / Plug / points using single core PVC insulated standard 1.1 KV grade copper wire of size 3Run 1.5 Sqmm through rigid PVC ISI grade conduit with necessary bends, junction and back boxes, modular 6A switches and front plates complete with Ceiling Roses ,plugs etc |    |     |
| 9.01 | 1 No. light point/exhaust fan point/ bell point controlled by 1 No 6A, SP Switch.(primary points). <b>(Point wiring up to 8 mtr Additional length if require shall be counted in circuit wiring)</b>   | 5  | Nos |
| 9.02 | Secondary points (Point wiring up to 8 mtr. from the first point and without supply and installation of switches. Additional length if require shall be counted in circuit main)   | 5  | Nos |
| 9.03 | 1 way controlled ceiling fan points with 100W step regulator. ring up to 8 mtr. from the first point and without supply and installation of switches. Additional length if require shall be counted in circuit main)   | 2  | Nos |

|       |   |    |     |
|-------|---|----|-----|
| 9.04  | 1 No, 6A Socket outlets controlled by 1 No 6A, SP Switch in independent position.   | 3  | Nos |
| 9.05  | 1 No, 6A Socket outlet controlled by 1 No 6A, SP Switch along with other switches.  | 3  | Nos |
| 9.06  | 1 No, 16A Socket outlets controlled by 1 No 16A, SP Switch.   | 2  | Nos |
|       | Make of switches/ sockets : Legrand Myrius/ Schneider Livya   |    |     |
| 10    | <b>CIRCUIT WIRING</b><br>Circuit/ sub main wiring using following sizes single core PVC insulated standard 1.1 KV grade copper wire through PVC conduit with all accessories. |    |     |
| 10.01 | 2 x1.5 mm <sup>2</sup> + 1.5 mm <sup>2</sup> earth wire ( For light circuit wiring)   | 50 | Mts |
| 10.02 | 2 x2.5 mm <sup>2</sup> + 1.5 mm <sup>2</sup> earth wire ( For 16A power socket)   | 25 | Mts |
| 11    | <b>FITTINGS</b>   |    |     |
| 11.01 | Installation of Client supplied Light fittings  | 10 | Nos |
| 11.02 | Installation of Client supplied ceiling fan   | 2  | Nos |
| 12    | <b>STATUTORY APPROVAL</b>   |    |     |
|       | Obtaining statutory approval and sanction order for the new addition from the department of the electrical Inspectorate. Changing the connected load in the KSEBL records.    |    |     |

### **3. ELIGIBILITY CRITERIA OF TENDERER**

**To qualify for award of the work, the intending tenderer must have an “A” or “ B” Class license obtained from Kerala State Electrical Inspectorate**

4. The Tenderers are responsible for effecting supply , installation after getting necessary test certificates and approval from Kerala State Electricity board (KSEB)
5. The undersigned does not bind himself to accept the lowest tender and reserve himself the rights of accepting the whole or any part of the tender and the tenderer shall be bound to supply the accepted item at the rates quoted.
6. No advance payment will be made against supplies.

7. The rate quoted by the Tenderer shall be inclusive of all applicable taxes( to be shown separately) , transportation charges, testing charges, installation charges and unloading charges at site. Rates quoted by the tenderer shall be valid for a period of six months from the date of opening of the tender.
8. Work completion period shall be specifically indicated in the tender and strictly adhered to. The supply , testing , installation, commissioning shall be arranged within 15 days on receipt of the firm order. Any delay in the work completion period after the work order is placed may result in cancellation of the work order.

**9. The supplier shall submit the price offers in “Form B” in sealed envelope.**

10. The rate quoted for material shall be final and no enhancement will be allowed under any circumstances.
11. The Supplier/ Contractor shall provide a comprehensive warranty of **one year** for the products and a guarantee for work/installation executed from the date of supply.
12. If the tenderer furnishes wrong and/or misleading data, statement(s) etc. about technical acceptability of the goods and services offered by it, its tender will be liable to be ignored and rejected in addition to other remedies available to the purchaser in this regard.
13. All items offered shall conform in all respects to the relevant Indian standard Specification with up to date amendments wherever applicable.
14. The contractor shall make arrangements for storage of material, tools and equipment etc at site and CDIT shall not bear any expenses and risks also on this account.
15. The contractor shall remove all the defective materials from the site that is found defective by CDIT during or after execution of work and such materials should not be reused in the work.
16. In case of extremely unsatisfactory execution, in competence, bad workmanship, use of materials officially rejected by the CDIT or similar circumstances, CDIT will reserve the right to terminate the contract and engage separate agencies for completing the work on contractors risk and cost by serving 3 days notice to the contractor.

17. The contractor will observe all necessary precautions at this cost to safeguard the workers during execution of work.
18. The contractor has to follow the instructions of CDIT Electrical & Maintenance Dept from time to time during execution of work.
19. Any damage caused by the workman of the contractor to walls, ceiling, floors or existing furniture and fixtures etc, should be made good at their cost.
20. All rubbish and superfluous materials shall be removed from site at the cost of the contractor after completion of work and prior to submission of final bill. Rubbish may shall not be disposed outside building premises or nearby area.
21. The contractor will have to show all the materials before providing/ using in the above work. If contractor will not show all the materials and will cover them. CDIT can remove those materials, which have not been previously checked, at contractor's cost and will not bear any cost for the same.
22. The rates of the contractor will be deducted per item or % wise from the final bill by CDIT if the work is not as per specification.
23. All electrical work shall be carried out in accordance with the provision of Indian Electricity Act & Indian Electricity Rule.
24. **Liquidated Damages:** If the Contractor fails to complete the job within the stipulated time, C-DIT will be entitled to charge liquidated damages @ 1% of the accepted contract sum per week subject to a maximum of 10% of the accepted contract sum.
25. Any dispute / differences between the parties arising out of and in connection with the contract shall be settled amicably by mutual negotiations. Unresolved disputes/ differences, if any, shall be settled by Arbitration and the arbitration proceedings shall be conducted at Thiruvananthapuram (India) in English language, under the Indian Arbitration and Conciliation Act, 2005. Unsettled disputes will be referred to courts and courts in Thiruvananthapuram/ Kerala will have exclusive jurisdiction over the same.
26. **EMD : Rs. 5,000 ( Rupees five thousand only) in the form of Demand draft drawn in favour of Registrar, C-DIT payable at Thiruvananthapuram.**

## 27. PAYMENT TERMS

The following terms of payment shall be applicable for the contract

- I. 100 % payment against successful commissioning of the work, against M-book entry and certification.

28. Agreement: The Successful bidder within 7 days of getting confirmed purchase order has to enter an agreement with C-DIT in Rs.200 worth non judicial stamp paper, to ensure warranty and after sales support during the warranty period.

29. Authority: The authority for the acceptance of the tenders rests exclusively with the C-DIT. The C-DIT does not undertake to any reason whatsoever for the rejection of any tender.

**30. The last date for submission of tender is 13.02.2023, 3.00 PM The tender will be opened on the same day at 3.30 PM**

31. At any time prior to the deadline for submission of tenders, the C-DIT may, for any reason deemed fit by it, modify/amend the tender documents by issuing suitable amendment(s)/ corrigendum's to it. Corrigendum to this tender shall be published in the site [www.cdit.org](http://www.cdit.org). Prospective bidders are advised to regularly visit the website: [www.cdit.org](http://www.cdit.org) to keep track of corrigendum, if any.

32. In case of doubt:

If the bidder have any doubt on technical specifications or on terms & conditions stipulated above, please contact Sri. Mukesh A.P in Mobile Number: 9895788334

Sd/  
REGISTRAR, C-DIT  
Dated 31.01.2023





**CENTRE FOR DEVELOPMENT OF IMAGING TECHNOLOGY (C-DIT)**  
Chithranjali Hills, Thiruvallam P.O., Thiruvananthapuram – 695 027

No. C-DIT/ESD-OIP/22-23/T387

Date: 31.01.2023

**FORM - B**

| <b>Sl.No</b> | <b>Particulars / Specifications</b>   | <b>Qty</b> | <b>Unit</b> | <b>Unit price</b> | <b>GST</b> | <b>Total Amount</b> |
|--------------|---|------------|-------------|-------------------|------------|---------------------|
| 1            | MODIFICATION OF SSB H1<br><br>Replacement of existing 32A TPN SFU in SSB H1 and installation of one no 80A TP 25kA MCCB in the enclosure with extended handles, Spreader Terminals and all other required accessories.  | 1          | Each        |                   |            |                     |
| 2            | EARTHING  |            |             |                   |            |                     |
| 2.01         | Supply and providing pipe earthing as per IS 3043 with 3.00 m long 40 mm dia B class GI pipe , GI funnel with weld mesh, filling required quantity of charcoal & salt including construction of inspection chamber with a bed concrete of 1:4:8 PCC using 40 mm broken stone (10 cm thick), brick work in cement mortar 1:6, plastering the surface of brick masonry and the exposed surface of PCC bed with cement mortar 1:4, 12 mm thick, (the finished inside dimension shall be 300 x 300 x 300 mm) including test joint, and covering at the top. | 2          | Each        |                   |            |                     |
| 3            | Supplying & laying / fixing of earthing conductor of GI / CU flat / wires jointing as per IS:3043 / 87 in trench walls pulling through pipes and the joints shall be tinned as required.  |            |             |                   |            |                     |
| 3.01         | 10 SWG Cu   | 120        | Mts         |                   |            |                     |

|      |   |    |      |  |  |  |
|------|---|----|------|--|--|--|
| 3.02 | 25x3mm Cu Bench   | 2  | Nos  |  |  |  |
| 4    | <b>CABLE LAYING THROUGH EARTH</b><br>Supplying and laying the following X.L.P.E insulated 1.1 kV grade aluminium/copper conductor cable conforming IS:1554 ( Part-I ) in ground using excavation, cushioning using excavated soil, and protection using bricks. |    |      |  |  |  |
| 4.01 | 3.5 x 35 sq. mm AL Cable  | 55 | Mts  |  |  |  |
| 5    | <b>CABLE LAYING BY CLAMPING</b>   |    |      |  |  |  |
| 5.01 | 3.5 x 35 sq. mm AL Cable  | 5  | Mts  |  |  |  |
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| 6    | <b>CABLE END TERMINATION</b>  |    |      |  |  |  |
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| 7    | <b>DISTRIBUTION BOARDS</b>  |    |      |  |  |  |
|      | Make: Legrand/ L&T  |    |      |  |  |  |
| 7.01 | 3Ø 6W VDB (MCCB INCOMER)  | 1  | No   |  |  |  |
| 7.02 | 3Ø 4W DB  | 1  | No   |  |  |  |
| 8    | <b>MCBs/RCCBs and DB Accessories</b>  |    |      |  |  |  |
|      | Make: Legrand/ Schneider/ L&T/ Havells  |    |      |  |  |  |
| 8.01 | 40A-63A FP MCB - C curve  | 1  | No   |  |  |  |
| 8.02 | 40A-63A TP MCB - C curve  | 1  | No   |  |  |  |

|      |  |    |     |  |  |  |
|------|--|----|-----|--|--|--|
| 8.03 | 6A-32A TP MCB - C curve  | 3  | Nos |  |  |  |
| 8.04 | 6A-32A SP MCB - C curve  | 10 | Nos |  |  |  |
| 8.05 | 63A,100mA 4P RCCB  | 1  | No  |  |  |  |
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| 8.07 | Enclosure for 4P RCCB+4P MCB   | 1  | No  |  |  |  |
| 8.08 | Dummy plates   | 16 | Nos |  |  |  |
| 8.09 | 80A 4P 25kA MCCB   | 1  | No  |  |  |  |
|      | Make: Legrand/ L&T   |    |     |  |  |  |
| 9    | WIRING   |    |     |  |  |  |
| 9.01 | 1 No. light point/exhaust fan point/ bell point controlled by 1 No 6A, SP Switch.(primary points).<br><b>(Point wiring up to 8 mtr Additional length if require shall be counted in circuit wiring)</b>              | 5  | Nos |  |  |  |
| 9.02 | Secondary points (Point wiring up to 8 mtr. from the first point and without supply and installation of switches. Additional length if require shall be counted in circuit main)                                     | 5  | Nos |  |  |  |
| 9.03 | 1 way controlled ceiling fan points with 100W step regulator. ring up to 8 mtr. from the first point and without supply and installation of switches. Additional length if require shall be counted in circuit main) | 2  | Nos |  |  |  |
| 9.04 | 1 No, 6A Socket outlets controlled by 1 No 6A, SP Switch in independent position.  | 3  | Nos |  |  |  |
| 9.05 | 1 No, 6A Socket outlet controlled by 1 No 6A, SP Switch along with other switches.   | 3  | Nos |  |  |  |
| 9.06 | 1 No, 16A Socket outlets controlled by 1 No 16A, SP Switch.  | 2  | Nos |  |  |  |

|                     |  |    |     |  |  |  |
|---------------------|--|----|-----|--|--|--|
|                     | Make of switches/ sockets :<br>Legrand Myrius/ Schneider Livya   |    |     |  |  |  |
| 10                  | <b>CIRCUIT WIRING</b>  |    |     |  |  |  |
| 10.01               | 2 x1.5 mm <sup>2</sup> + 1.5 mm <sup>2</sup> earth wire<br>( For light circuit wiring)   | 50 | Mts |  |  |  |
| 10.02               | 2 x2.5 mm <sup>2</sup> + 1.5 mm <sup>2</sup> earth wire<br>( For 16A power socket)   | 25 | Mts |  |  |  |
| 11                  | <b>FITTINGS</b>  |    |     |  |  |  |
| 11.01               | Installation of Client supplied Light fittings   | 10 | Nos |  |  |  |
| 11.02               | Installation of Client supplied ceiling fan  | 2  | Nos |  |  |  |
| 12                  | <b>STATUTORY APPROVAL</b>  |    |     |  |  |  |
|                     | Obtaining statutory approval and sanction order for the new addition from the department of the electrical Inspectorate. Changing the connected load in the KSEBL records. |    |     |  |  |  |
| <b>Total Amount</b> |  |    |     |  |  |  |

Date

Stamp

Name & Signature of Bidder