



**Tender No: CDACP/LnB-CLASSROOMS/21-22/333, date: 13 July 2021**

**C-DAC, Pune invites On-Line bids for Turnkey Works Tender (Civil, Electrical and Allied, HVAC) for Creation of Infrastructure of NASSCOM Prime classroom at C-DAC, SPPU Campus, Pune.**

Prospective Bidders may download the Tender Document from [www.cdac.in/](http://www.cdac.in/) <https://eprocure.gov.in/eprocure/app>. Bidders are advised to go through instructions provided at 'Instructions for online Bid Submission' before uploading the bids through <https://eprocure.gov.in/eprocure/app> as per terms and conditions given in the Tender Document. The Tender document fee of Rs. 1,500/- (non-refundable) and EMD undertaking needs to be submitted.

**Centre for Development of Advanced Computing**  
A Scientific Society of Ministry of Electronics & Information Technology,  
Government of India  
Innovation Park, Panchavati, Pashan Road, PUNE- 411008.  
Tel: +91-20-25503676/675  
[mmg@cdac.in](mailto:mmg@cdac.in)



## **TENDER SCHEDULE**

Tender No CDACP/LnB-CLASSROOMS/21-22/333

Name of the Institute	Centre for Development of Advanced Computing, Innovation Park, Panchavati, Pashan Road, PUNE 411008.
Place of Work & Supply, Installation, Testing & Commissioning, Support etc.	Centre For Development of Advanced Computing, Main building, SPPU campus, PUNE 411007
Date of Release of Tender	13 July 2021
Date of pre-bid meeting	<b>ONLINE - 23<sup>rd</sup> July 2021 at 1200 hrs.</b> <a href="https://sangoshthee.cdac.in/nasscom">https://sangoshthee.cdac.in/nasscom</a>
Last date of submission of bids	26 <sup>th</sup> August 2021, 1500 Hrs
Date of opening of Technical bids	26 <sup>th</sup> August 2021, 1530 Hrs
Place of opening of technical bids	C-DAC, Pune 411008.
<b>Bank Details for submitting Tender Fee online</b>	<b>Branch Name: BANK OF INDIA</b> <b>BRANCH ADDRESS: Pashan Road Branch, Pune Maharashtra : 411008,</b> <b>IFSC CODE: BKID0000516</b> <b>ACCOUNT NUMBER: 051610110002660</b>  <b>TENDER FEE CAN BE SUBMITTED ONLINE IN ABOVE BANK OR THROUGH DD AS PER DETAILS GIVEN BELOW</b>

### **Instruction for Online Bid Submission:**

The bidders are required to submit soft copies of their bids electronically on the CPPPortal, using valid Digital Signature Certificates.

### **REGISTRATION:**

- Bidders are required to enrol on the e-Procurement module of the Central Public Procurement Portal (url: <https://eprocure.gov.in/eprocure/app>).
- As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts.
- Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication from the CPP Portal.
- Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (Class II or Class III Certificates with signing key usage) issued by any Certifying Authority recognized by CCA India with their profile.
- Only one valid DSC should be registered by a bidder. Please note that the bidders are responsible to ensure that they do not lend their DSCs to others, which may lead to misuse.
- Bidder then logs into the site through the secured login by entering their user ID / password and the password of the DSC / e Token.

### **PREPARATION OF BIDS:**

- Bidder should take into account any corrigendum published on the tender document before submitting their bids.



- Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid. Please note the number of covers in which the bid documents have to be submitted, the number of documents – including the names and content of each of the document that need to be submitted. Any deviations from these may lead to rejection of the bid.
- Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document / schedule and generally, they can be in PDF / XLS / RAR / DWF formats. Bid documents may be scanned with 100dpi with black and white option.
- To avoid the time and effort required in uploading the same set of standard documents which are required to be submitted as a part of every bid, a provision of uploading such standard documents (e.g. PAN card copy, annual reports, auditor certificates etc.) has been provided to the bidders. Bidders can use 'My Space' area available to them to upload such documents. These documents may be directly submitted from the 'My Space' area while submitting a bid, and need not be uploaded repeatedly. This will lead to a reduction in the time required for bid submission process.

#### **SUBMISSION OF BIDS:**

- Bidder should log into the site well in advance for bid submission so that he/she upload the bid in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.
- The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.
- The server time (which is displayed on the bidders' dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission,
- The uploaded tender documents become readable only after the tender opening by the authorized bid openers.
- Upon the successful and timely submission of bids, the portal will give a successful bid submission message and a bid summary will be displayed with the bid no. and the date & time of submission of the bid with all other relevant details.

#### **ASSISTANCE TO BIDDERS:**

Any query relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24\*7 CPP Portal Helpdesk on :- 0120-4200 462, 0120-4001 002, 0120-4001 005, 0120-6277 787,  
e-mail for Technical - support-eproc@nic.in.



## SECTION I: INVITATION FOR BIDS (IFB)

### 1. Introduction:

Centre for Development of Advanced Computing (C-DAC) - is a scientific society under the administrative control of Ministry of Electronics & Information Technology, Government of India.

To enhance the infrastructure, C-DAC invites the bids from eligible bidders for Supply, Installation and commissioning of Civil, HVAC, Electrical & allied work at first & second floor NASCCOM Prime Class room at C-DAC Main SPPU Campus, Pune, as per terms and conditions specified in this document. The details technical specifications are given in "Section – IV: Schedule of Requirements" of this document.

### 2. Contact information:

Mr. Satyabrata Mishra, PTO  
Centre for Development of Advanced Computing (C-DAC)  
Innovation Park, PANCHAVATI, Pashan Road, PUNE 411008  
Tel No.: +91-20-25503673 / 694 / 676  
E-mail: [mng@cdac.in](mailto:mng@cdac.in),

### 3. Two e-bids System:

The two e-bids system will be followed for this tender. In this system, bidder must submit their offer - online in separate packets as explained below:

**Online e-Packet No. 1: "Technical e-Bid" shall contain following documents in .pdf format only:**

- a. Covering letter, as per **Annexure – A**.
- b. Authority letter, as per **Annexure – B**.
- c. **Tender fees to be submitted through Demand Draft / e-payment. Scanned copy of Demand Draft / e-payment (preferable mode) receipt towards tender fee of Rs.1,500/- (Rupees Five Hundred Only) drawn in favour of C-DAC payable at Pune. The original DD must be submitted physically at the place of Opening of the Tender on or before the Due Date & Time of the Tender.**
- d. Undertaking as per **Annexure - C** towards Earnest Money Deposit.
- e. A copy of Certificate of Incorporation, Partnership Deed / Memorandum and Articles of Association / any other equivalent document showing date and place of incorporation, as applicable of the bidder.
- f. Copies of PAN and GST registration certificates.
- g. Duly filled Technical Bid (**as per Section – IV**) with proper seal and signature of the authorised person (with name, designation, email id & contact no.).
- h. The bidder must have successfully completed at least One similar works of Central/State Government Department, PSU or Autonomous institution, costing not less than the amount equal to 1.2 Crores in last 7 Years. ("Similar work means-Turnkey Works comprising Civil, Electrical & Allied ,HVAC works- Documentary evidence for similar experience is to be furnished of completed works in form of Work order/Satisfactory Work Completion Certificate)
- i. The Bidder shall be a registered company of India as per relevant laws (Submit Copy of ROC)
- j. The Bidder shall be a registered company/firm/Branch office (Address proof to be submitted along with registration certificate) in Pune/ Mumbai area (Attach Proof-Shop Act )



- k. The contractor must not be black listed / debarred from bidding by any Government Department, PSU or Autonomous institution, as on date of submission of bids. (Declaration to be submitted on letterhead)
  - l. A photo copy of the commercial bid without prices (**prices blocked**) with line-item break-up of items as you will use for raising the final invoice and the GST % of each item. C-DAC reserves the right to reject the bid if these details are not submitted along with the technical bid document.
  - m. Other documents necessary in support of eligibility criteria, product catalogues, brochures etc. whichever applicable.
- Note:** C-DAC reserves the right to reject the bid if any of the above listed document/s is not submitted.

**On-line ePacket 2: “Commercial eBid “ shall contain: (.xls format only)**

The Commercial e-Bid completed in all respects as per format given in Section – V of this document.

**4. PRE-BID Meeting:**

The pre-bid meeting will be held **ONLINE** as given in schedule to sort out/resolve queries raised by the prospective bidders regarding the scope, technical specifications, terms & conditions etc. The prospective bidders requiring any clarification of the bidding document may send their queries in writing through e-mail at [mmg@cdac.in](mailto:mmg@cdac.in). C-DAC will respond to these queries during the pre-bid meeting. The queries/doubt/clarifications etc. must be sent at least two days prior to the date of pre-bid meeting.

**5. Last Date of uploading of ebids and opening of the Technical ebids – Online.**

- Last date (DUE DATE) for uploading of ebids through: [www.eprocure.gov.in/eprocure/app](http://www.eprocure.gov.in/eprocure/app) - against the tender id, as per the '**TENDER SCHEDULE**' above.
- Technical e-bids will be opened 'Online' through [www.eprocure.gov.in/eprocure/app](http://www.eprocure.gov.in/eprocure/app) against the tender id, as per '**TENDER SCHEDULE**'
- The e-bids must be submitted on-line.
- The Tender Fees must be submitted online through RTGS / NEFT / IMPS Direct Credit /deposited in person or through post/ courier (C-DAC shall not be responsible for any postal delays or any other reason for not submitting the tender fees etc. in the specified time and resulting in disqualification / rejection of any bid) **so as to reach on or before the due date and time of the uploading of the tender.**
- In case bidder requires any clarifications / information, they may contact C-DAC address given in '**TENDER SCHEDULE**'.

**Note:** Please do not put "Commercial eBid" (prices quoted) in the technical bid packet. If the price quoted is submitted / leaked with technical ebid the tender will be rejected at the sole discretion of C-DAC.

**6. Opening of commercial ebids**

- Commercial e-bids of the qualified bidders only will be opened (**ONLINE**), who choose to attend, at the time, place and date to be informed later.
- The bidder's name, bid prices summary and other appropriate details will be displayed at the time of the opening of the commercial ebids.

**(END OF SECTION I)**



## SECTION II: INSTRUCTIONS TO BIDDERS (ITB)

### 1. Locations for Supply, Installation & Warranty Support etc.:

Centre for Development of Advanced Computing (C-DAC)  
Innovation Park, Panchavati, Pashan Road,  
Pune - 411008. INDIA.

### 2. Delivery Period:

The total complete work including civil, electrical, AC works etc. should be completed within 90 days from the date of placing the work order, positively. However, the work schedule can be divided in two phases with in the 90 days' time period i.e Phase-1- Complete furnishing with furniture, fixtures etc. of 2<sup>nd</sup> floor & Phase-2- Complete furnishing with furniture, fixtures etc. of 1<sup>st</sup> floor. Bidder should keep in mind that timely delivery is the essence of project.

### 3. Order Placement & Release of Payment:

The Work Order(s) and payments shall be released by:  
**Centre for Development of Advanced Computing (C-DAC)**  
Innovation Park, Panchavati, Pashan Road,  
Pune - 411008. INDIA

### 4. Eligibility Criteria:

The bidders must comply with the eligibility criteria stipulated below.

- a) A copy of Certificate of Incorporation, Partnership Deed / Memorandum and Articles of Association / any other equivalent document showing date and place of incorporation, as applicable of the bidder.
- b) Copies of PAN and GST registration certificates.
- c) The bidder must have successfully completed at least One Similar Turnkey work of Central/State Government Department, PSU or Autonomous institution, costing not less than the amount equal to 1.20 Crore in last 7 Years. ("Similar work means- Turnkey Works comprising Civil, Electrical & Allied, HVAC works "- Documentary evidence for similar turnkey experience is to be furnished of completed works in form of Work order/Satisfactory Work Completion Certificate. The work order should be in the name of bidder directly)
- d) The Bidder shall be a registered company of India as per relevant laws (Submit Copy of ROC)
- e) The Bidder shall have office presence in form of registered company/firm/Branch office (Address proof to be submitted along with registration certificate) in Pune/ Mumbai area (Attach Proof-Shop Act )
- f) The contractor must not be black listed / debarred from bidding by any Government Department, PSU or Autonomous institution, as on date of submission of bids. (Declaration to be submitted on letterhead)

### 5. Vendor is strictly advised/required to visit site prior to bid submission and understand site conditions.

### 6. Exemptions:

If in the view of bidder, any exemption / relaxation is applicable to them from any of the eligibility requirements, under any Rules / process/ Guidelines/ Directives of Government of India, bidder may submit their claim for the applicable exemption /relaxation, quoting the valid Rule/ process/ Guidelines/ Directives. In this case the bidder must submit necessary and sufficient documents along with the technical bid, in





support of his claim. The decision about granting the exemption/ relaxation will be taken by the bid evaluation committee which is empowered to grant exemption/relaxation. The relevant and valid certificates in support of claim of exemption must be submitted.

The bidders should provide sufficient documentary evidence to support the eligibility criteria. C-DAC reserves the right to reject any bid not fulfilling the eligibility criteria.

## 7. Amendment to Bidding Documents

- At any time prior to the deadline for submission of bids, C-DAC may, for any reason, whether on its own initiative or in response to the clarification request by a prospective bidder, modify the bid document.
- The amendments to the tender documents, if any, will be notified by release of Corrigendum Notice on [www.eprocure.gov.in/eprocure/app](http://www.eprocure.gov.in/eprocure/app) / [www.cdac.in/tender](http://www.cdac.in/tender) against the tender id. The amendments/ modifications will be binding on the bidders.
- C-DAC at its discretion may extend the deadline/Due Date for the uploading of ebids if it thinks necessary to do so or if the bid document undergoes changes during the bidding period, in order to give prospective bidders time to take into consideration the amendments while preparing their bids.

## 8. Preparation of eBids

- Documentary / Eligibility checklist as per **ANNEXURE - F** should be submitted and documents should be enclosed in the seriatim as mentioned in the checklist. Proper page numbers should also be mentioned in the attached technical document.
- The product offered should be in compliance with the OM NO. 6/18/2019-PPD & No.P-45021/112/2020-PP(BE-II)(E-43780) and OM & Order (Public Procurement No.1) ref. F.No.6/18/2019-PPD dated 23.07.2020 for the offered products as per **ANNEXURE-E**. Please submit the requisite details as per the certificate / undertaking (ANNEXURE – E) accordingly on your letterhead.
- A neat and clean eBids is expected to be uploaded in the form of pdf. Bidder should avoid, as far as possible, corrections, overwriting, erasures or postscripts in the bid documents.
- In case however, any corrections, overwriting, erasures or postscripts have to be made in the bids, they should be supported by dated signatures of the same authorized person signing the bid documents. However, bidder shall not be entitled to amend/ add/ delete/ correct the clauses mentioned in the entire tender document.
- The Bid documents shall be neatly arranged. They should not contain any terms and conditions, printed or otherwise, which are not applicable to the Bid. The conditional bid will be summarily rejected. Insertions, postscripts, additions and alterations shall not be recognized, unless confirmed by bidder's signature.

## 9. Earnest Money Deposit (EMD)

- The bidder must submit EMD / bid security declaration, **as given in Annexure-C**, subject to the conditions stipulated therein
- The successful bidder, on award of contract / order, must submit the Performance Bank Guarantee @3%, within 10 days of award of contract/ order, failing which necessary action shall be taken as per the terms of above EMD declaration and the order will be cancelled.



## 10. Period of validity of bids

- a) Bids shall be valid for minimum 120 days from the date of submission. A bid valid for a shorter period shall stand rejected.
- b) C-DAC may ask for the bidder's consent to extend the period of validity. Such request and the response shall be made in writing only. A bidder agreeing to the request for extension will not be permitted to modify his bid.
- c) C-DAC reserves the right to place the order within the mentioned validity period i.e. 120 days from the date of submission of bid.

## 11. Deadline for Submission of e-Bids

- Bids must be uploaded before the due date and time as mentioned in the tender document.
- C-DAC will not be responsible for any issues arising/pertaining with the eprocure.gov.in/eprocure/app portal for non-submission, failure in submission of ebids online.
- C-DAC may extend this deadline/Due Date for uploading of bids by amending the bid documents and the same shall be suitably notified.

## 12. Late Bids

C-DAC shall not be responsible and liable for the delay in receiving the ebid for whatsoever reason.

## 13. Bid Opening & Evaluation of eBids

- The bids will be examined based on eligibility criteria stipulated at Pt. 4 of Section – II to shortlist the eligible bidders.
- The technical bids of only the short-listed eligible bidders shall be evaluated based on technical specifications stipulated at Section – IV.
- The bidders whose technical bid is found to meet both the requirements as specified above will qualify for opening of the commercial bid and will be informed about the date and time of the opening of the commercial bid.
- The duly constituted Tender Evaluation Committee (TEC) shall evaluate the bids. The TEC shall be empowered to take appropriate decisions on minor deviations, if any.

## 14. Comparison of Bids

- Only the short-listed bids from the technical evaluation shall be considered for commercial comparison.

## 15. Award of Order

- C-DAC will award the order(s) to the eligible bidder whose technical bid has been accepted and determined as the **lowest** evaluated commercial bid (including GST) based on the price of the Commercial Bid. **However, C-DAC reserves the right and has sole discretion to reject the lowest evaluated bid.**
- If more than one bidder happens to quote the same lowest price, C-DAC reserves the right to decide the criteria and further process for awarding the contract, decision of C-DAC shall be final for awarding the contract.
- **Before placement of order, the successful bidder is required to submit a detailed Bill of Material, giving line-item prices and GST. C-DAC will place order based on this Bill of Material keeping the total price (including GST) quoted by the bidder unchanged.**





#### **16. Purchaser's Right to amend / cancel**

- C-DAC reserves the right to amend the eligibility criteria, commercial terms & conditions, Scope of Supply, technical specifications etc.
- **C-DAC reserves the right to vary the quantities to the extent of +/- 20% of the quantities mentioned in the BOQ.**
- **C-DAC reserves the right to cancel the entire tender without assigning any reasons thereof.**

#### **17. Corrupt or Fraudulent Practices**

- It is expected that the bidders who wish to bid for this project have highest standards of ethics.
- C-DAC will reject bid if it determines that the bidder recommended for award has engaged in corrupt or fraudulent practices while competing for this contract;
- C-DAC may declare a vendor ineligible, either indefinitely or for a stated duration, to be awarded a contract if it at any time determines that the vendor has engaged in corrupt and fraudulent practices during the award / execution of contract.

#### **18. Interpretation of the clauses in the Tender Document / Contract Document**

In case of any ambiguity/ dispute in the interpretation of any of the clauses in this Tender Document, the interpretation of the clauses by Director General, C-DAC shall be final and binding on all parties.

19. **Retention Money** of 5% will be deducted from each Running Bill and Final Bill, amounting to final capping of 5% of total bill value which will be retained at C-DAC end till the completion of Defect liability period of one year from the date of successful completion of work and certification of Final Bill.

The said retention money of 5% can be released in final bill subject to submission of Bank guarantee of equivalent amount with validity covering the defect liability period.

***(END OF SECTION II)***



## SECTION III: SPECIAL CONDITIONS OF CONTRACT (SCC)

### 1. Prices

1.1. The price quoted shall be considered firm and no price escalation will be permitted. (Except Govt levies/Taxes).

1.2. Bidder must offer in INR only.

1.3. The prices quoted must be “F.O.R.C-DAC, Pune” inclusive of Installation, testing, packing, forwarding, freight, insurance, loading/unloading and allied charges till destination site(s) whichever applicable.

#### 1.4. Applicable GST Rate

- a) The prices including the taxes, duties, CESS etc. shall be considered for the purpose of comparison and deciding Lowest responsive bidder.
- b) Different categories of bidders may quote different rates of GST. However, the quoted GST rate shall be the sole responsibility of the supplier and CDAC, at its sole discretion, shall consider the rate quoted by the bidder OR the actual tariff rate; whichever is lower.
- c) CDAC will place order with the ratee quoted by the bidder or the tariff rate whichever is lower. Further, Bidder shall supply and submit the invoice with GST rate as stipulated in Work Order (WO) / Purchase Order (PO) and CDAC shall pay GST as per the invoice.
- d) If the bidder has quoted lower percentage of GST due to error, he will not be permitted to correct the error and it will be his/her sole responsibility. The burden of additional amount if any- due to difference in GST rates, will be to the bidders account and C-DAC will not pay any difference amount. In this case, the bidder will be required to adjust their basic price to lower amount- if required. Bidder will supply and submit the invoice with adjusted basic amount and corrected GST rates. C-DAC will pay GST as per invoice and take ITC as per invoice.
- e) **NOTE: CDAC shall not provide any GST Concessional Certificate against the subject supply / works.**
- f) If bidder fails to accept the Work Order (WO) / Purchase Order (PO) or fails to supply the goods as per the same, CDAC reserves the right to take action as stipulated in Undertaking as per ANNEXURE-C.

### 2. Performance Bank Guarantee:

The successful bidder will be required to furnish the Performance Bank Guarantee (PBG) in INR equivalent to 3% of the order value within 10 days of receipt of Work Order. The PBG should be submitted in the form of Demand Draft / Bank Guarantee / Online Payment RTGS/NEFT/IMPS drawn in favor of C-DAC payable at Pune. The PBG will be valid for the period till completion of work and will be returned upon completion of work of all items.

### 3. Completeness Responsibility:

Notwithstanding the scope of work, engineering, supply and services stated in bid document, any equipment or material, engineering or technical services which might not be even specifically mentioned under the scope of supply of the bidder and which are not expressly excluded there from but which – in view of the bidder - are necessary for the performance of the equipment in accordance with the specifications are treated to be included in the bid and has to be performed by bidder. The items which are over & above the scope of supply specified in the Schedule of Requirements may be marked as “Optional Items”.

### 4. Payments:



- a) One Running bill is allowed subject to completion of 50% of work order value.
- b) Remaining 50% payment shall be released only after satisfactory completion of work and acceptance by CDAC.

#### **5. Penalty for delay**

C-DAC reserves the right to levy penalty @ of 0.5 % of order value per week of delay beyond the schedule date of completion of work/ execution of the order successfully, subject to maximum of 5% of the order value. The delay in delivery, delay in site preparation, and delay in submission of required documents to C-DAC etc. will be considered for calculating penalties.

#### **6. Jurisdiction:**

The disputes, legal matters, court matters, if any shall be subject to Pune jurisdiction only.

#### **7. Force Majeure:**

C-DAC may consider relaxing the penalty and delivery requirements, as specified in this document, if and to the extent that, the delay in performance or other failure to perform its obligations under the contract is the result of an Force Majeure. Force Majeure is defined as an event of effect that cannot reasonably be anticipated such as acts of God (like earthquakes, floods, storms etc.), acts of states / state agencies, the direct and indirect consequences of wars (declared or undeclared), hostilities, national emergencies, civil commotion and strikes at successful Bidder's premises or any other act beyond control of the bidder.

#### **8. Arbitration:**

In case any dispute arises between the C-DAC and successful bidder with respect to this RFP, including its interpretation, implementation or alleged material breach of any of its provisions both the Parties hereto shall endeavour to settle such dispute amicably. If the Parties fail to bring about an amicable settlement within a period of 30 (thirty) days, dispute shall be referred to the sole arbitrator mutually appointed by both parties. If the sole arbitrator is not appointed mutually by both the parties then the District Court Pune shall have exclusive jurisdiction for appointment of sole arbitrator through court. Arbitration proceedings shall be conducted in accordance with the provisions of the Arbitration and Conciliation Act, 1996 and Rules made there under, or any legislative amendment or modification made thereto. The venue of the arbitration shall be Pune. The language of arbitration shall be English. The common cost of the arbitration proceedings shall initially be borne equally by the Parties and finally by the Party against whom the award is passed. Any other costs or expenses incurred by a Party in relation to the arbitration proceedings shall ultimately be borne by the Party as the arbitrator may decide. Courts in Pune only shall have the exclusive jurisdiction to try, entertain and decide the matters which are not covered under the Arbitration and conciliation Act.

#### **9. Limitation of Liability:**

The liability of the supplier arising out of breach of any terms/conditions of the order and addendums/amendments thereto, misconduct, wilful default will be limited to the total contract value.

However, liability of the supplier in case of loss of human life(if any), injury/damage caused to the personnel/property for the reasons attributed to the supplier or to any person deployed by supplier at C-DAC - will be at actuals.



In no event shall Party, its officers, directors, or employees be liable for any form of incidental, consequential, indirect, special or punitive damages of any kind.

**10. Indemnity:**

The successful bidder shall indemnify, protect and save C-DAC from/against any claims, losses, costs, damages, expenses, action suits and other proceeding, resulting from/arising out of infringement of any Law /Rule by the bidder, pertaining to the Civil work at first floor e-Sign room at C-DAC, Pune.

**11. Assignment:**

Selected bidder/ Party shall not assign, delegate or otherwise deal with any of its rights or obligation under this Contract without prior written permission of C-DAC.

**However, the selected lowest bidder can sub-contract some of the work / part of the work to suitable vendor with intimation to C-DAC. However, the selected lowest bidder shall be responsible for the quantity, quality and deliverables of the ordered work.**

**12. Severability:**

If any provision of this Contract is determined to be invalid or unenforceable, it will be deemed to be modified to the minimum extent necessary to be valid and enforceable. If it cannot be so modified, it will be deleted and the deletion will not affect the validity or enforceability of any other provision.

**13. Right to change scope of work:**

C-DAC reserves the right to increase or decrease the scope of work as per C-DAC requirement.

***(END OF SECTION III)***



## SECTION IV – SCHEDULE OF REQUIREMENT

### TECHNICAL SPECIFICATION

#### A) Solid Core Flush door Double leaf:-

1. The factory made solid core flush door shutters in double leaves 35 mm thick, decorative type of exterior grade ,conforming to I.S.:2202–1966(Revised )including approved face veneers on both sides, without glazing and venetians including mat finish stainless steel fixtures and fastening ,stoppers and finishing with french polishing etc.(Excluding door frame)(Sample to be got approved from Engineer before use)Commercial Hard Wood shutter. The Vision Panel with clear glass of 300x 300mm dia to be provided in each door.
2. Adhesive used for bonding various components of flush door shutters namely, core, core frame,lipping, cross-bands, face veneers, plywood etc. and for bonding plywood shall conform to BWP type,phenol formaldehyde synthetic resin adhesive conforming to IS 848.
3. Samples of flush door shutters shall be subjected to the following tests:  
(a) End Immersion Test(b) Knife Test(c) Glue Adhesion TestOne end of each sample shutter shall be tested for End Immersion Test. Two specimens of 150 x150 mm size shall be cut from the two corners at the other end of each sample shutter for carrying out Glue Adhesion Test. Knife Test shall be done on the remaining portion of each sample shutter.

#### **B)PLASTERING**

The following IS apply to this Section:

I.S.No.	Subject
1542-1977	Specification for sand for plaster (First revision)

#### **Definitions**

- a) The term 'Plastering' shall cover all type of rough or fair finished plastering, rendering, floating and setting coat or finishing coat, screed, etc., in cement mortar.
- (b) "Dubbing out" shall mean filling in hollows in the surface of wall and roughly leveling up irregular or out of Plumb surface prior to rendering.
- (c) "Rendering" or "rendering out" shall mean the plaster coat, which is applied following the "Dubbing out" or the final coat in case of one coat work.
- (d) "Floating coat" shall mean the second coat in a three coat plaster work, to bring the rendering coat to a true and even surface before the setting or finishing coat is applied.
- (e) 'Setting or Finishing coat' shall mean final coat in a two or three coat Plaster work.
- (f) "Thickness of Plaster" shall mean the minimum thickness at any point on a surface. This dose not include thickness of dubbing out.
- (g) The term "even and fair" as referred to finishing of the plastered surface shall mean a surface finished with a wooden float;
- (h) The term "even and smooth" as referred to finishing of the Plastered surface shall mean a surface leveled with wooden float and subsequently smoothed with a steel trowel.

#### **14.5 Sand**

Unless otherwise indicated, sand for plastering and pointing shall conform to IS 1542-1977, Specification for sand for Plaster. Sand shall consist. of natural sand, except where, crushed stone sand or crushed gravel sand or a combination of any of these are indicated. The sand



shall be hard, durable, clean and free from adherent coating and organic matter and shall not contain any appreciable amount of clay balls. Sand shall be obtained from approved sources.

#### 14.5.1 Deleterious Materials:

Sand shall not contain any harmful impurities such as iron pyrites, alkalies, salts, coal, mica shade or similar laminated materials, soft fragments, sea shells and Organic impurities in such quantities as to affect adversely the hardening, the strength and the durability or the appearance of the Plaster or applied decoration or to cause corrosion of metal lathing or other metal in contact with Plaster. The maximum quantities of clay, fine silt, fine dust shall be not more than 5 per cent by weight. Origin impurities in the sand shall not exceed the following limit 'that the colour of the "liquid is low that indicated by comparison with the standard solution specified 6.2.2. of IS 2386 (Part II)-1963'.

14.5.2 The particle size grading of sand for plaster and pointing work shall be as under, unless otherwise specified to conform to the sample maintained by the GE for the purpose.

IS Sieve designation	Percentage Passing by Weight
10mm	100
4.75 mm	95-100
2.36 mm	95-100
1.18mm	90-100
600 microns	80-100
300 microns	20-65
150 microns	0-5

NOTE : Where the grading falls outside the limits of grading zones of sieves other than 600 micron IS sieve by a total amount not exceeding 5 percent, it shall be regarded as falling within the grading. This tolerance shall not be applied to percentage passing the 600 micron IS sieve or to percentage passing any other sieve size on the finer limit.

NOTE :-Sand whose grading falls outside the above limits shall be processed to comply with the standard by screening through a suitably sized sieve and/or blending with required quantities of suitable sizes of sand particles.

#### 14.6 Aggregates

All aggregates other than sand shall conform to IS 383-1970, Specification for coarse and fine aggregates from natural sources for concrete. Refer Section 4-concrete.

#### 14.7 Integral water Proofing Compound

Refer Section 4-Concrete.

#### 14.8 Metal Lathing

Metal Lathing shall be of wire netting or expanded metal as indicated.

#### 14.9 Lime Putty (Neeru)

Lime Putty shall be obtained by slaking fat lime with fresh water and sifting it. Putty shall be kept moist until used and the quantity prepared at a time shall not be more than that can be consumed in 7 days. .



#### 14.10 Water

Water used for mixing and curing shall be clean, free from deleterious matter and also from unusual proportions of dissolved salts. Sea water or tidal actuary or brackish water shall not be used. Water fit for drinking is normally suitable.

#### **WORKMANSHIP Scaffolding**

Where possible, independent scaffolding shall be used to obviate the subsequent restoration of masonry in put log and other bricks in the work. Stage scaffolding shall be provided for ceiling plaster.

#### **Preparation of Mortar for Plastering and Pointing Cement and Cement Lime Mortar:**

These shall be prepared as described in Section 5-brickwork. These shall quantities as required and applied within 30 minutes of mixing. .

#### **CEMENT**

Unless otherwise indicated, Cement shall be Ordinary Portland cement, 43 grade conforming to IS 8112 of approved make/ brand. Use of any other grade of cement incase of extreme emergency shall be with the specific approval from the consultant and Engineer – in – Charge.

#### **C) WALL CARE PUTTY**

1. Provide wall care putty to the specification catered for in the bill of quantity. Approved make of putty shall only be used.
2. **Surface preparation:** Remove all loosely adhering material with a help of emery stone, putty blade or wire brush and clean water. The substrata should be clean, free from dust, grease loose materials. Dry and absorbent surface should be moistened with sufficient quantity of clean water. Mixing of putty shall be done with 33-35% clean water slowly mixing to make a paste till a uniform paste is formed.
3. **Application:** The first coat shall be applied on already moistened wall surface from bottom to upward direction uniformly with help of patty blade after drying of first coat of putty the surface will be gently rubbed with wet sponge or with putty blade in order to remove the loose particle. Allow the surface to dry for at least three hours before applying the second coat of putty after drying of second coat marks if any will be removed with the help of moist sponge or with the putty blade.

#### **D) PAINTING**

1. All paints & allied materials shall be of quality not inferior to that required by the relevant IS specification. Paints, etc. shall be ready mixed. The colour & tints of paints , unless indicated shall be as approved by the EIC.
2. The contractor shall inform the EIC, well before he places bulk order for the materials ,the names of the brands & manufactures of paints he proposes to use in the works & submit samples thereof & obtain prior written. approval of the EIC.
3. The whole of the materials required for the painting work shall be obtained direct from, approved manufacturers or their authorized agents & shall be brought to the site in makers, drums, k gs, etc. with seals unbroken.
4. **Compatibility of paints :** Before considering the application of undercoats, it shall be made sure that those selected are compatible with each other. The primer, filler, undercoating & finishing paints shall be of paints made by the same manufacturer.
5. **Storage of paints:**All containers of paints, thinners & allied materials shall preferably be stored in well ventilated room free from excessive heat, sparks or flame or direct rays of sun. The containers of paint shall be kept covered or properly fitted



- with lid & shall be kept open except while using. Materials, which have become stale or fat due to improper & long storage shall not be used or mixed with usable stuff.
6. **Painting Work-Generally** :The type of paint & allied material to be the number of coats to be applied, the preparatory treatment appropriate to the surface & any special process or treatment to be adopted shall be as indicated.
  7. Where more than one coat is indicated, each coat shall be approved, in writing, by EIC before the next coat is applied.
  8. No painting work shall be carried out in wet & very humid weather when there is danger of dew or weather is otherwise unfavorable. No painting or any other process likely to be damaged by dust shall be carried out in windy weather.
  9. Painting except the priming coat shall be taken in hand after all other builder's work is finished
  10. The paint in the drum shall be thoroughly mixed prior to application. The materials shall be mixed, prepared & applied strictly in accordance with the instructions or recommendations 'of the manufacturers except where otherwise directed by the EIC. The paints shall be mixed periodically during brushing.
  11. **Addition of Thinners**:Thinners (such as mineral turpentine) shall not be added to paints on the feeling that the consistency of the paint supplied by the manufacturer is too thick. If the paint has been manufactured to conform to the specifications, the paint shall have the correct consistency & shall not require further dilution. If there is any doubt, the viscosity of the paint may be checked. If a slight adjustment of viscosity is necessary thinner, recommended by the manufacturer shall be used after prior approval of EIC. The surface must be thoroughly dry & clean before painting work is proceeded with at all stages or processes of work. All dust, dirt, rust, & grease shall be removed before painting is started. Painting shall follow immediately after pre-cleaning or pre-treatment; any contamination which may occur in the intervening period shall be removed. Every individual coat shall be properly applied, reasonably level smooth & free from runs & holidays (minute uncovered areas).
  12. **Drying Time** : For paint film to perform in unison, each coat of paint shall be allowed to dry sufficiently but not excessively before a subsequent coat is applied. Manufacturers' instructions for drying time shall be adhered to properly
  13. **Flattening down** : Cutting of primer & undercoat shall be done to provide a key for subsequent coats. The primer coat, with or without putty, shall be dry cut & the undercoat with or without putty for spot work, shall be wet cut with waterproof emery paper No. 220/240. In the case of under coatings without putty, surface prior to finishing coat, shall be wet cut with waterproof emery paper No. 280/320. The surface shall be dry, clean & free from dust before subsequent coat is applied.
  14. **Appearance**: The painted surface shall have a clean uniformly coloured appearance. No hair marks from the brush or clogging of paint puddles in the corner of panels, angles of moulding etc. shall be left on the work.
  15. **Colour** :Correct colour matching shall be judged against a sample having the same type of surface as that to which the paint has been applied. In painting doors & windows, the putty round the glass panes shall also be painted but care shall be taken to ensure that no paint, stains, etc. are left on the glass. Tops of shutters & surfaces in similar hidden locations shall not be left out in painting. .
  16. **Scaffolding** :The scaffolding as required shall be erected for proper execution of work. If the work can be done safely with a ladder or jhoola these may be permitted in the place of scaffolding.
  17. **Brushing of painting** :Clean pliable brushes free from loose bristles shall be used. Paints shall not show objectionable pulling under the brush. The brush shall be such that the paint does not show lapping streaks & works satisfactorily under it. Cleaning of paint containers shall be done only with paint thinners, which are compatible with

the paint to be filled.

18. **Brush Application:** While applying. the paint, the brush shall be held at an angle of approximately 45 degree to the vertical surface & several light strokes applied in the area to be painted., so as to. first transfer the paint to the surface. During painting, the brush shall also be turned around 180 degree in order to ensure that the paint on both the faces of bristles is utilized completely. The paints are then spread with gentle pressure so as to hide the surface & produce a uniform coating. Ensure that the ends & not the sides of the bristles come in contact with the surface during painting. The paint shall be applied; first using vertical strokes until the surface are covered, & then brushed crosswise for complete coverage with light strokes, so as to smooth out laps & brush marks, & finally laid off with vertical strokes.
19. **Plastic Emulsion Paint and Enamel Paint:** Plastic (Acrylic) Emulsion Paint and Enamel Paint: Plastic emulsion painting will be of approved brand of paint and colour conforming to IS: 5411-1991 & will be applied over a coat of primer (including preparation of wall surface). Painting for the doors will be carried out with synthetic enamel paint of approved brand and colour over onr coat of primer, all of relevant IS specifications 4511-1993.

## **E) MINERAL FIBRE CEILING TILE**

### **a. 15 mm Mineral Fibre ceiling Tile**

#### **i. Material**

Ceiling tiles shall be of made of mineral fibre of dimension 595x595mm with 15 mm thickness humidity resistance 99% Thermal conductivity  $K = 0.052-0.057$  w/mK colour white, fire performance UK Class 0/Class 1 (BS 476 pt -6&7) suitable for green building application (GRIHA Criteria 17 & 29 SWAGRIHA 12) with recycled content not less than 30 % and light reflectance not less than 85%. NRC of 0.55 to 0.6. The tile and grid should carry a limited warranty of one year against sag.

#### **LIST OF APPROVED MAKE/VENDOR**

<b>Sl.No.</b>	<b>Item</b>	<b>Approved / Recommended Make</b>
1	Cement	Ultra Tech, ACC, Century, Grasim, Ambuja
2	False Ceiling	Armstrong, AMF, Indian Gypsum Board,USG India
3	Door Closer	Hardwin, Everite, Dorma, Godrej
4	Paints/Distemper	Asian Paints, Berger, ICI
5	White cement	JK ,Birla etc.
6	Stud Anchors , chemical adhesives for rebar fixing	HILTI ,FISHER, or any approved
7	Glass for partition	Modi, Asahi, Saint gobain
8	Plywood	Century, Kit ply, Green ply
9	Rock Wool Insulation	UP TWIGA or Equivalent
10	Gypsum board	India Gypsum ,Gyproc
11	Flush Door	Indian Plywood, Kit ply, Green ply
12	PVC Carpet	Krishna Vynyle, Rikvin, Armstrong, FORBO Switzerland, LG Floors
13	Any other Material	With approval of Client



14	Furniture-Staff & faculty chair	Godrej, steelcase, featherlite ,Bluebell or equivalent as per approval of client.
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## **Technical Specifications for HVAC Work-Cassette type air conditioners**

### **Scope:**

- 1) Supply, installation as per scope given below, testing and commissioning of cassette type air conditioners including remote, mounting brackets for outdoor and indoor units as given in BOQ.
- 2) Supplier shall bring all tools and tackles required for installation, testing & Commissioning of air conditioner units.
- 3) Down rods with all accessories like washer, bolts etc. for mounting indoor unit of cassette type air conditioners shall be supplied and installed by the bidder and the cost of the same shall be included in the quoted price.
- 4) Hangers required for routing the drain pipe from indoor unit to outdoor unit shall be supplied by the bidder and the cost of the same shall be included in the quoted price.
- 5) Hangers required for routing the Copper tube, cable from indoor unit to outdoor unit shall be supplied by the bidder and the cost of the same shall be included in the quoted price.
- 6) All drilling works required for successful installation of air conditioner units shall be done by the supplier.
- 7) Mounting brackets ( as per BOQ) required for installing outdoor unit and indoor unit shall be supplied by the supplier and the cost of these shall be included in quoted price.
- 9) Gas charging if required shall be done by the supplier at the site at free of cost for successful commissioning.
- 10) Installation of the air conditioners shall be carried out using proper tools and procedures as per manufacturer guide lines.
- 11) O&M manual shall be supplied for each set of air conditioner.

The bidder shall send technical catalogue of the air conditioners which they are offering along with offer. Technical catalogue shall contain all technical details, model no., dimensions, weight and GA drawing.

### **Installation of air conditioners:**

1. Supplier shall carry out modifications required in false ceiling for installing air conditioner unit and it shall be fixed back as it is existing.
2. Indoor unit of cassette type air conditioners is to be mounted on mild steel channel provided ( by supplier) above false ceiling. Making holes on steel channel as per the requirement for mounting indoor unit shall be done by the supplier.
3. All connections from indoor unit to outdoor unit like copper tube, copper cable





connections etc. shall be done by the bidder.

4. Bidder shall take proper care while removing and fixing back false ceiling. If any damage is observed during installation, same is to be rectified/replaced upto the satisfaction of C-DAC.
5. All tools required for installing air conditioner unit shall be brought by the bidder.

**Testing to be done after Installation:**

1. Compressor current and cooling temperature shall be tested
2. Air conditioners will be switched ON and cooling effect will be checked
3. Air conditioners will be switched ON/OFF 10 times in one hour recommended procedures.
4. Water drain shall be checked by flowing water.
5. Remote operation checking.

**Acceptance:**

Acceptance shall be based on the testing, performance and satisfactory working of Air Conditioners.

**Guarantee:**

Material supplied shall be guaranteed against any manufacturing defect or trouble free performance for a period of 12 Months for complete unit and 5 Years on Compressor from the date of commissioning. During this guarantee period of one year servicing shall be carried out at free of cost as per manufacturer standard.

**LIST OF APPROVED MAKE/VENDOR**

Sl.No.	Item	Approved / Recommended Make
1	Cassette AC	Daikin ,Blue star, Carrier ,Mitsubishi,Hitachi
2	Structural steel	SAIL, Jindal,Tata
3	CPVC Pipes	Prince,Finolex,,Jain, Kisan



## **TECHNICAL SPECIFICATION FOR ELECTRICAL AND ALLIED WORK**

### **1. GENERAL REQUIREMENTS (SCOPE OF ELECTRICAL INSTALLATION WORKS).**

The general character and the scope of work to be carried out under this contract is Illustrated in Specifications and BOQ. The Contractor shall carry out and complete the said work under this contract in every respect in conformity with the contract documents and with the direction of and to the satisfaction of the Owner's site representative.

The Contractor shall furnish all labor, materials and equipment (except those to be supplied by the owner) as listed under Bill of Quantities and specified otherwise, transportation and incidental necessary for supply, installation, testing and commissioning of the complete system as described in the Specifications and as shown on the drawings.

This also includes any material, equipment, appliances and incidental work not specifically mentioned herein or noted on the Drawings/Documents as being furnished or installed, but which are necessary and customary to be performed under this contract.

The Contractor shall Prepare the execution drawings and as built-in- drawings.

Minor civil works like drilling and punching holes and openings in concrete floors, slabs, chasing of brick walls, fabrication of supporting structures, drainage of water from cable trenches, cleaning and clearing of all debris due to electrical installation.

Coordination with other contractors with regard to installation of items in Electrical Contractors scope.

The extent of work services under the contract includes all items shown on the drawings, indicated in companion with specifications, notwithstanding the fact that such items have been omitted from the price schedule. All equipments and services which are required to complete the intent of the contract shall also be deemed to be within the scope of the contract.

Training to Owner's Staff.

### **COMPLIANCE WITH STANDARDS.**

#### **STANDARDS:**

Comply with the requirements of all relevant Indian Standards (IS) or equivalent British Standards (BS) regarding equipment manufacture, design and installation whether or not these are specifically mentioned in the Specification.

#### **ALTERNATIVE STANDARDS:**

International Standards (ISO) or (IEC) which are equivalent to the appropriate Indian Standard (IS) may be used. Other standards may be offered as an alternative only if submitted for approval along with the equipment manufacturer's written assurance that they are equal to BS, ISO or IEC Standards.

#### **DISCREPANCIES:**

In the event of a discrepancy between the Specification and any IS or BS or other



approved standard request clarification in writing from the Engineer.

## **CODE, REGULATIONS AND STANDARDS**

The installation shall conform in all respects to Indian Standard Code of Practice for Electrical Wiring Installation I.S.732-1982. It shall also be in conformity with the current Indian Electricity Rules Safety Codes and the Regulations and requirements of the Local Electrical Supply Authority.

Wherever this specification calls for a higher standard of materials and/or workmanship then those required by any of the above regulations, this specification shall take precedence over the said regulations and standards.

In general, the materials, equipments and workmanship not covered by the above shall conform to the following Indian Standards(latest),unless otherwise called for. Nothing in the enclosed specification shall be construed to relieve the contractor of this responsibility.

## **ASSOCIATED SERVICES WORKS.**

The Contractor shall co-ordinate his Working Drawings with required co-ordination of all other works simultaneously going on at site.

## **TESTS:**

1. Carry out all tests, adjustments and commissioning described in this Specification in order to give an effective working installation to the satisfaction of the Engineer. The work package contractor shall establish a database of all tests and test results and ensure that this is kept up to date. A record of the test results/ progress shall be recorded at each site meeting.
2. Adequate notice shall be given to allow the engineer to study, assess and review any test procedures to be witnessed. The minimum notice required shall be forty eight (48) hours.
3. The contractor shall submit a full method statement indicating the tests, and testing procedures to be carried out/ witnessed etc. Details of all instrumentation used shall be recorded.
4. The original test sheet of all tests witnessed by the Engineer must be signed and witnessed by the engineer and a copy of the test sheet handed over to the engineer immediately following the test(s).Any unsigned test record shall berejected by the engineer and the specific equipment/ plant item retested. Any cost associated with this retesting shall be borne by the work package contractor.

## **WORKMANSHIP:**

Carry out all installations in a neat and workmanlike manner to the satisfaction of the Engineer.

## **WORKING DRAWINGS:**

Provide drawings as described in this Specification.

## **INSTRUCTION MANUALS:**

Provide manuals as described in this Specification.



### **SUPERVISION.**

Provide, throughout the whole period in which installation work is being carried out, a suitably qualified site supervision to oversee the complete installation work.

### **SAMPLES.**

Provide samples of any materials to be used on site as and when requested by the Engineer.

Note that the Engineer may require the samples to be subjected to tests to ensure compliance with British Standard and other relevant specifications. The cost of such tests shall be borne by the Contractor. Adequate time shall be given in order to allow the Engineer to study, assess and review any sample offered.

### **STANDARDS AND CODE OF PRACTICE: -**

The work shall be carried out as per the enclosed Specifications of work and the construction drawings to be issued from time to time. These specifications shall be read in conjunction with National Building Code, National Electrical Code 1985, Relevant Codes of Practices and Standards as issued by ISI and Indian Electricity Rules, CPWD specifications for electrical works (all with the latest amendments). The installation shall confirm in all respects to Indian Standard code of Practices. Following BIS codes shall be referred –

- a) National Electrical Code
- b) IS: 694 – 1977: PVC insulated cables for working voltage up to and including 1100 volts
- c) IS: 732 -1989: Electrical wiring installation
- d) IS: 1225 -1938: Installation and Maintenance of power Cables up to and including 33 KV Rating
- e) IS: 1554: PVC insulated heavy-duty electrical cables.
- f) IS: 1860: Installation operation and maintenance of passenger and goods elevator.
- g) IS: 2309 -1989: Protection of building and allied structures against lightning.
- h) IS: 3043 -1987: Earthing
- i) IS: 3646 (Part-1) -1992: Interior Illumination
- j) IS: 3661 (Part-2) -1967: Current rating for cable
- k) IS: 3661 (Part-5) -1968: Current rating for cable
- l) IS: 5216 (Part-1) -1982: Recommendations on safety procedures and practices in electrical work.
- m) IS: 7098 (1 & 2): XLPE insulated cables
- n) IS: 10028 (Part-1) -1985: selection, Installation and Maintenance of Transformers
- o) IS: 10118 (Part-1) -1982: Selection, Installation and Maintenance of switchgear and Control gear

### **APPROVED MAKES: -**

<b>ITEM</b>	<b>Approved / Recommended Make</b>
MCCB/MCB/DB	L&T / SIEMENS / Schneider/ ABB/C&S



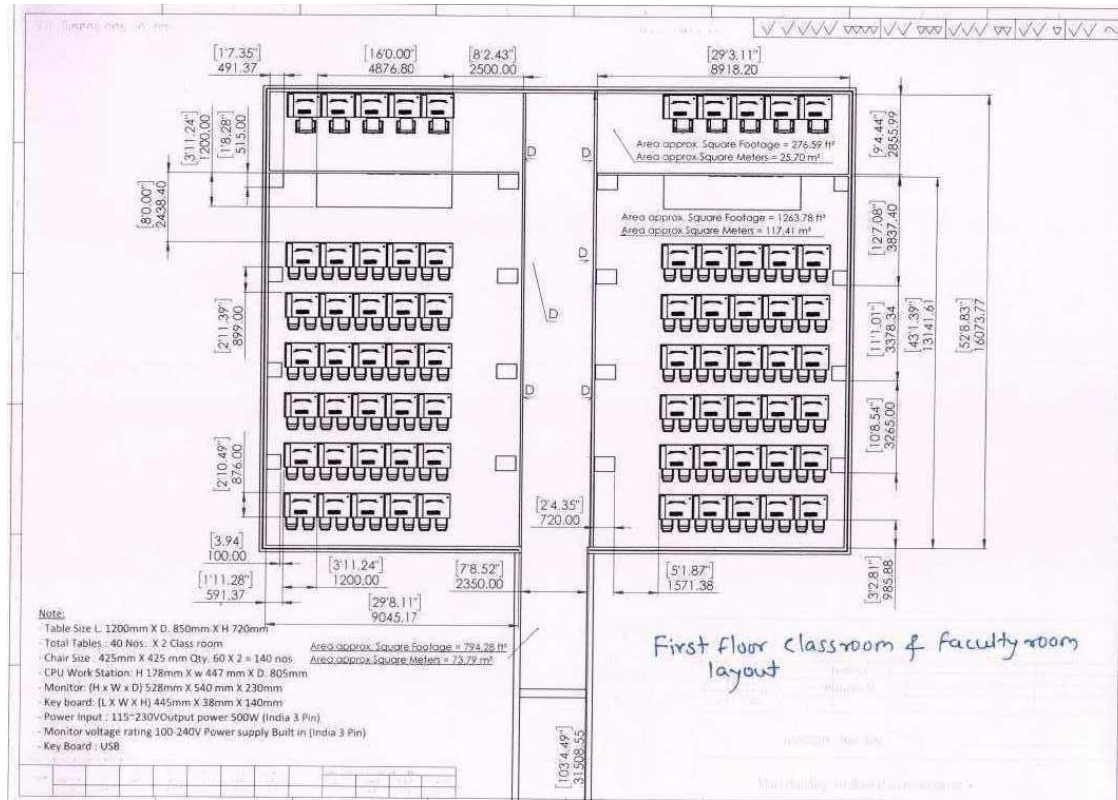
TPN Switches & HRC Fuses	L&T/ SIEMENS/ Havells/ Schneider/ ABB/C&S
MCBs / Isolators & Distribution Board	Indo Asian / Havells / Indokupp / Hager/ SIEMENS/ Standard/ Crompton/ MDS/C&S
Cables	Polycab / Finolex / Havells /Universal/Asian/ Gloster
PVC insulated copper conductor wire	MK/ Polycab/ Finolex/RR
Lighting Fixtures (LED)	Wipro, Philips, GE
DBs	SIEMENS / Schneider/ Havels, Indoasian, Legrand/ Hagger/ MDS
Switches & Plugs	Roma/ MK/ CG/ Schneider/Legrand
Fire Alarm Control Panel & Smoke Detectors	Secutron / Notifier / Edward / Bosch / Cooper/ Siemens / Morley/Ravel/Apollo
FRLS Armoured Cable	Finolex / Neolex / Polycab / KEI / Ravin / Thermoflex / RPG / RR Kabel / Lapp
BMS	Schneider Electric /Honeywell/ Siemens/ Johnson Controls/Dixell
PA System	BOSCH /AHUJA
ACCESS CONTROL SYSTEM	Honey well, Cisco, Siemens, Technocrat, eSSL
Cassette Air Conditioner	Daikin , Blue Star, Carrier , Hitachi,Mistubishi
Rodent Repellant System	Maser or Equivalent

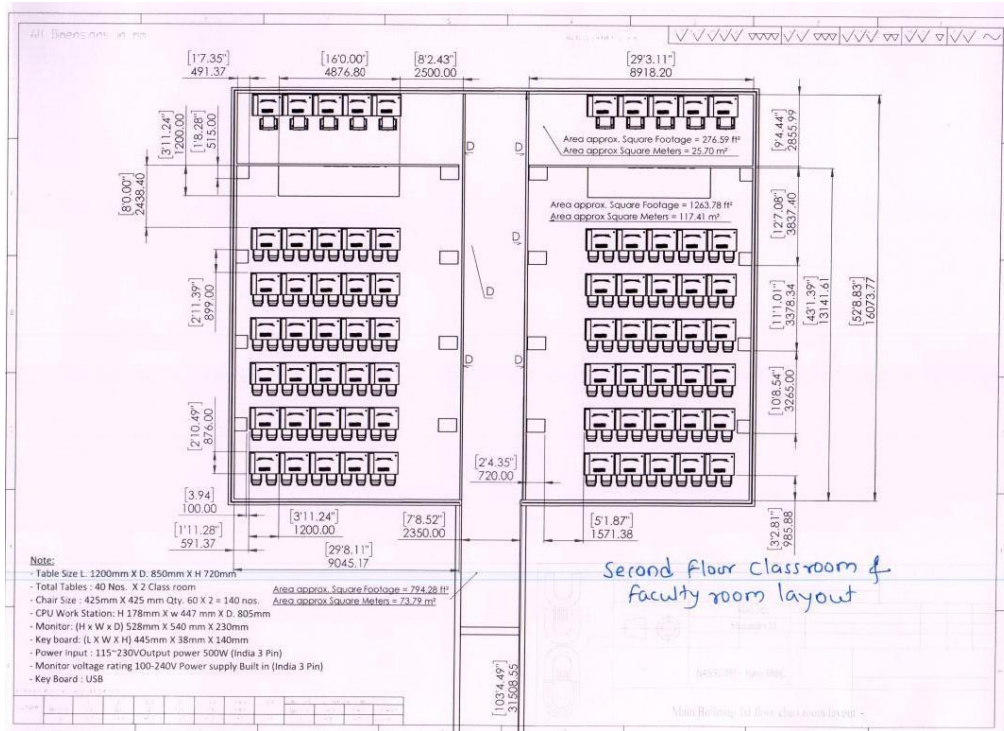
#### **HANDING OVER AND TAKING OVER OF WORKS / EQUIPMENT / SYSTEMS.**

The Contractor shall hand over and the Owner shall take over the works/equipments/systems covered under this contract only after they have been completely installed, tested and commissioned in all respects by the Contractor to the entire satisfaction of the Owner. And all relevant test forms/certificates operation and maintenance manual's, as built drawings, etc. Incomplete/partly commissioned works/equipments/system will not be taken over by the Owner. **The warranty of equipment is for one year after successful installation certified by CDAC.**

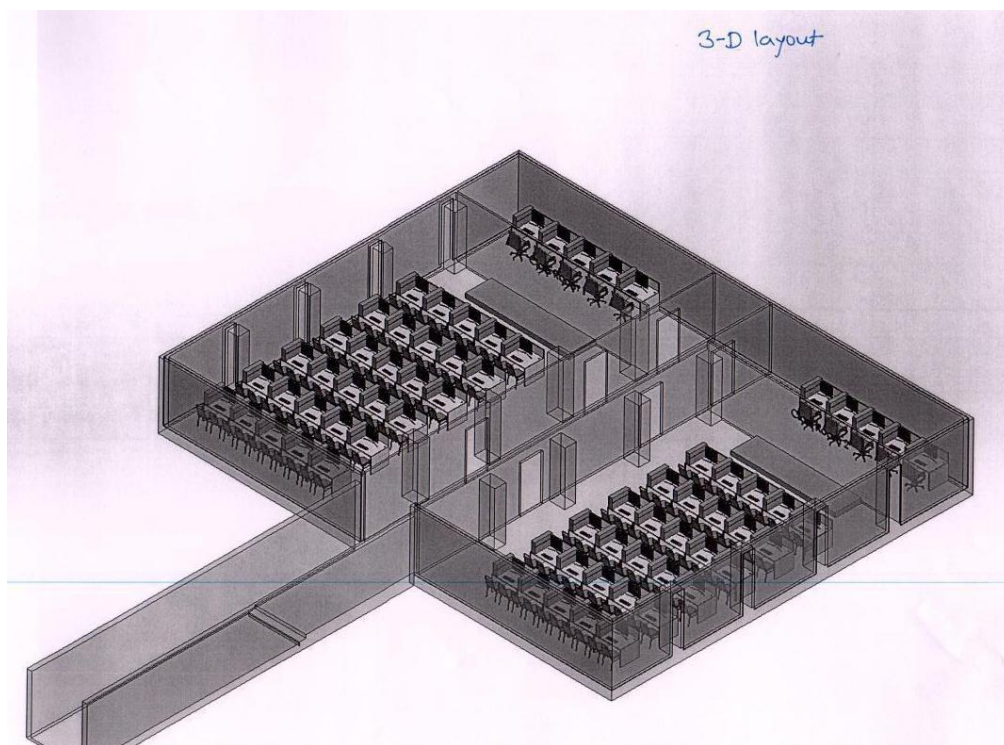


# DRAWINGS





### 3-D Layout of Classroom & faculty room



(END OF SECTION IV)



### SECTION V - Price Schedule:

Sl. No.	Item Description	Quantity	Units
1	<b>CIVIL WORK - PAINTING</b>		
1.01	Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. completes etc. complete	538.48	Sqm
1.02	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	1356.20	Sqm
1.03	Distemping with oil bound washable distemper of approved brand and manufacture to give an even shade : New work (two or more coats) over and including water thinnable priming coat with cement primer	1356.20	Sqm
2	<b>CIVIL WORK - SOUNDPROOF PARTITION WORK</b>		
2.01	Dismantling aluminium/ Gypsum partitions, doors, windows, fixed glazing and false ceiling including disposal of unserviceable material and stacking of serviceable material with in 50 meters lead as directed by Engineer-in-charge.	556.73	Sqm
2.02	Providing & Fixing in position,Acoustic Partition made from 12mm thick Gypsum from both sides on 50x50 mm Sal-wood frame of 600x600 c to c, having of 800gsm synthetic wool 50mm thick in between,including cost of required Cut-Outs & Scaffolding ,as per Architectural & Acoustical Design & Instructions & Complete in all aspects including all materials labour,finishing etc complete	463.74	Sqm
2.03	Providng and fixing 12 mm Toughen glass inside Acoutic Partition with beading with PU paint matching in color at Video recording area (Old conference room)	2.00	Sqm
3	<b>CIVIL WORK - FLOORING</b>		
3.01	Removing of flooring old carpet(1st floor only)	315.42	Sqm
3.02	PVC carpet 1.5 thick flooring of approved make(1st floor only)	315.42	Sqm
4	<b>CIVIL WORK - CLASS ROOM DOOR</b>		
4.01	Solid Core Flush door Double leaf- Providing and fixing factory made solid core flush door shutters in double leaves 35 mm thick, decorative type of exterior grade,as per detailed drawings ,conforming to I.S.:2202-1966(Revised )including approved face veneers on both sides,without glazing and venetians including mat finish stainless steel fixtures and fastening ,stoppers and finishing with french polishing etc.(Excluding door frame)(Sample to be got approved from Engineer before use)Commercial Hard Wood shutter. The Vision Panel with clear glass of 300x 300mm dia to be provided in each door.	43.00	Sqm
4.02	Providing and fixing Jungle (hard) wood of approved species joists and girders in timber floor of single,double or framed type including scaffolding if necessary and one primer coat etc.	0.43	Cum

	complete.		
4.03	Providing and fixing Hydraulic door closers	12.00	No
5	CIVIL WORK - REPAIRING OF EXISTING WINDOWS - CORRIDOR+ CLASSROOM		
5.01	Reaparing of existing windows inside classroom and inbetween main corridor (1st floor and 2 nd floor)	1.00	Lump-sum
6	CIVIL WORK - FALSE CEILING		
6.01	Supply & fixing of acoustical mineral fiber board (Dune-ML-RH-99) false ceiling of Armstrong/AMF or equivalent make system with 15 mm Silhouette (BR) grid quick hook suspension system having main tee 3000mm long x 38 mm web height x 15mm wide silhouette (BR) sections. The main runner is to be fixed with 4mm thick pre-stretched GI wire with soffit clear & GI Rawl plug inserted on the main roof to be fixed at 1200 mm c/c. The last hanger at the end of each main runner should not be grater than 450 mm from the adjacent wall. The main runner will be at the distance of 1200 mm c/c. The 1200 mm x 38 mm x 15 mm silhouette (BR) wide cross tee sections, having an integrally formed hook nose with precise butt cut joint end is to be fit in between the main tee at a distance of 600 mm to make a module of 1200mm x 600mm. Another cross tee having an integrally formed hook nose with precise butt cut joint end of size 600 mm x 38mm x 15mm is to be fitted at 1200 mm sections parallel to main tee at 600mm centre to make a square grid of 600 mm x 600 mm. All base frame material should be made of good quality galvanized steel. It should have a capping of material coated with baked polyester paint. The shadow molding perimeter angle white coloured secured at 450 mm c/c is to run all along the peripheral, Prime Dune, RH-99 per painted tiles, microlook, 15 mm thick suitable for 600mm x 600mm grid to be placed on grid. Tiles should have NRC of 0.50, STC of 34 dB, having light reflection of 85% or more & thermal conductivity K-0.052-0.057W/sq.m/ degrees centigrade. The fire rating of tile should be class 0 for fire propagation & class I for spread of flames as per BS 476 & having humidity resistance of 99% RH. The board should have a density of 240-260 kg/Cubic meter. The rate should include for cutout for AC grills & light fixtures, additional members if required is to be provided into the grid system. The work has to be done as per the direction of Engineer-in-charge.	949.25	Sqm
7	CIVIL WORK - CLASSROOM FURNITURE		
7.01	Providing and Fixing Rollar Blinds AMI Make or approved make & shade of 38 mm round Aluminium channel with Black out fabric & telting with chain (Ball) system with all necessary fixtures and fitting etc.complete.(Sample to be final by Engineer In-charge prior execution of work)	88.67	Sqm





7.02	Providing and fixing Platform inside classroom of Siz 4.5m x 1.2m x .3m (height) with 18mm plywood ( supported by plywood vertical support in-between as required etc. complete)laid over it as directed by Engineer-in-charge.	57.02	Sqm
7.03	Providing and fixing White board of size-8' x 4 ' with an heavy duty aluminium frame of size for class room	4.00	No
7.04	Providing & fixing Class Room table/workstation -Partition 1200x1000mm , Top 850 x 1200mm , Vertical Support for top 850 x 725mm:-Aluminium Partition shall be made up of 60mm thick aluminium partiton with soft board and white board having Double aluminium raceway for Electrical points and Data cable points respectively. Aluminium Partition with approved powder coating colour as per requirement. Partition tiles 9 mm prelaminated partical board( IS-3087& IS-12823) made of Action Tesa or equivalent. Table top-Made up of 25 mm prelaminated partical board with 2 mm PVC edge banding. Vertical support- Made up of 18mm thick prelaminated partical board with 2 mm PVC edge banding .The table should have a Keyboard Wrist Rest Pad and Mouse Rest Support for Easy Typing.This is inclusive of making suitable cut out for electrical and datapoints..Sample to be approved by CDAC engineer before delivery.	120.00	Nos
7.05	Providing & fixing Student chair -Made up of round pipe with na Black powder coating.The seat and back support with cushion with standard fabric.The seating cushion 2 inch and back support width 1 inch cushion.Sample to be approved by CDAC engineer before delivery.	240.00	Nos
7.06	Providing & fixing Faculty table/workstation -Partition 1200x1000mm , Top 850 x 1200mm , Vertical Support for top 850 x 725mm:-Aluminium Partition shall be made up of 60mm thick aluminium partiton with soft board and white board having Double aluminium raceway for Electrical points and Data cable points respectively. Aluminium Partition with approved powder coating colour as per requirement. Partition tiles 9 mm prelaminated partical board( IS-3087& IS-12823) made of Action Tesa or equivalent. Table top-Made up of 25 mm prelaminated partical board with 2 mm PVC edge banding. Vertical support- Made up of 18mm thick prelaminated partical board with 2 mm PVC edge banding .The faculty table should have lockable side unit/pedestal unit suitable to hold amplifier,receiver etc. attached to table .The table should have a Keyboard Wrist Rest Pad and Mouse Rest Support for Easy Typing. This is inclusive of making suitable cut out for electrical and data points.Sample to be approved by CDAC engineer before delivery.	4.00	Nos
7.07	Faculty Chair-Dimensions W x H x D (cm) 72 x 101 x 72 / Primary Material: Mild Steel,Contact-Tilt Mechanism ,Seat Height Adjust, -Godrej Interio Poise Desk Chair (Black) OR Equivalent Specs as approved by client	4.00	Nos



7.08	Staff Room Table-Providing & fixing Faculty table/workstation -Partition 1200x1000mm , Top 850 x 1200mm , Vertical Support for top 850 x 725mm:-Aluminium Partition shall be made up of 60mm thick aluminium partiton with soft board and white board having Double aluminium raceway for Electrical points and Data cable points respectively. Aluminium Partition with approved powder coating colour as per requirement. Partition tiles 9 mm prelamated partical board( IS-3087& IS-12823) made of Action Tesa or equivalent. Table top-Made up of 25 mm prelamated partical board with 2 mm PVC edge banding. Vertical support- Made up of 18mm thick prelamated partical board with 2 mm PVC edge banding .TThe table should have a Keyboard Wrist Rest Pad and Mouse Rest Support for Easy Typing. This is inclusive of making suitable cut out for electrical and data points.Sample to be approved by CDAC engineer before delivery.	20.00	Nos
7.09	Staff Room Chair-Dimensions W x H x D (cm) 72 x 101 x 72 / Primary Material: Mild Steel,Contact-Tilt Mechanism ,Seat Height Adjust, -Godrej Interio Poise Desk Chair (Black) OR Equivalent Specs as approved by client	20.00	Nos
8	HVAC WORK - HIGH SIDE WORK		
8.01	FOR STAFF ROOM -Supply of Cassette AC of 2TR (2star non inverter model) with One year Comprehensive warranty.	5.00	No
8.02	FOR CLASS ROOM -Supply of Cassette AC of 3TR (2star non inverter model) with One year Comprehensive warranty.	16.00	No
9	HVAC WORK - LOW SIDE WORK		
9.01	Indoor and outdoor unit Installation,testing, commissioning charges	21.00	Nos
9.02	REFREGERENT PIPING,POWER/CONTROL CABLING:- Supply, Installation, Testing & Commissionin of copper piping complete with copper fittings & charge of refregerant gas for the above units(including drilling through wall), Piping associated with Cassette AC units shall be insulated with 13 mm thick closed cell elastomeric insulation .Quoted price shall be inclusive of UV protection paint for all exposed pipes.Price shall be comprise of copper power cabling from indoor to outdoor unit as required.	2012.00	Rft
9.03	CONDENSATE DRAIN PIPING-Supply, Installation Testing and Commissioning of 25 mm dia. Chlorinated Polyvinyl Chloride (CPVC) pipes, including all CPVC plain fittings, including fixing the pipes with pipes clamps at 1.00 m spacings. This includes joints of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. Supporting arrangement in accordance with the approved shop drawings and spacification. Pipes shall be insulated with 9mm thick closed cell elastometric insulation in tubing form.	2213.00	Rft
9.04	MS FRAME FOR ODU-Supply and errection of MS base frame duly applied with red-oxide primer & followed by black enamel paint for mounting of outdoor units+with safety grill for maintenance purpose for outdoor unit.	21.00	Nos

9.05	Providing and fixing MS Fabricated ladder for maintenance of ODU	4.00	Nos
10	ELECTRICAL & ALLIED WORKS - MAIN LT PANEL / DB'S		
10.1	Supply and installation of 6-way, VTPN, Metal type, Double Door (As approved by client / consultant / architect), RAW/AC/ Lighting DB, surface / flush mounted on wall, interconnected wiring complete with earthing lugs, including DB wiring dressing with ferruling, termination of circuits with ping type copper lugs, blank plates, etc. housing following switchgears : (Schneider / Hager / Siemens / Legrand make as approved by client / consultant)(Note :- DB size & type selection shall be done with reference to the total number of modules / poles available in the DB which shall be suitable for housing of below )a)1 no., 125A, FP MCCB, "C" curve type 25kA, MCCB with Thermal Magnetic release, of approved make with over load (O/L), short circuit (S/C) & Earth Fault (E/F) b)5 nos, 32A, SP, MCB, "C" curve type +03 Nos.16 Amp SP-MCB and 5Nos,10Amp MCB as outgoing Full Set as above	4.00	Nos
10.2	Supply and installation of 6-way, TPN, Metal type, Double Door (As approved by client / consultant / architect), UPS OUTGOING DB, surface / flush mounted on wall, interconnected wiring complete with earthing lugs, including DB wiring dressing with ferruling, termination of circuits with ping type copper lugs, blank plates, etc. housing following switchgears : (Schneider / Hager / Siemens / Legrand make as approved by client / consultant) (Note :- DB size & type selection shall be done with reference to the total number of modules / poles available in the DB which shall be suitable for housing of below) a) 1 no., 63A, FP MCB, "C" curve type as incomer b) 18nos, 16/25/32A, SP, MCB, "C" curve type as outgoing Full Set as above	4.00	Nos
10.3	Supply and installation of 8-way, VTPN, Metal type, with Plain / Transperant Door (As approved by client / consultant / architect), UPS Power Distribution Board (UPS MainDB-to UPS room DB) (for desks), surface / flush mounted on wall, interconnected wiring complete with earthing lugs, including DB wiring dressing with ferruling, termination of circuits with ping type copper lugs, blank plates, etc. housing following switchgears : (Schneider / Hager / Siemens / Legrand make as approved by client / consultant) a) 1 no.,100A, MCCB, "C/D" curve type 25kA, MCCB with Thermal Magnetic release, of approved make with over load (O/L), short circuit (S/C) & Earth Fault (E/F) b) 4 nos, 63A,TP, MCB, "C/D" curve type as outgoing Full Set as above	1.00	Nos
10.4	Supply & Installation of 25/32A, DP, MCB, box with 20A, metal clad / modular plug-socket including power circuit of (4sq.mmX3core) copper flexible wires directly taken from the relevant DB through PVC conduits for room A/C including all	20.00	Nos

	necessary hardware & accessories, etc.		
11	<p>ELECTRICAL &amp; ALLIED WORKS - CABELS / MAINS Supply &amp; Installation of 1100V grade armoured cable having sector / circular shaped aluminium / copper conductor PVC insulated cores, laid up, PVC tape wrapped inner sheathed, GI strip / wire armoured and overall extruded PVC sheathed conforming to IS: 1554, laid on wall / ceiling using GI clamps &amp; spacers as per route shown at site and further as directed by Consultant at site in the following sizes :- (Make - Polycab / Finolex / RR / Havells) NOTE :- All Armoured cables shall be provided with temporary labelling at every 5mtrs &amp; then finally with metal identification tags showing the size &amp; the location</p>		
11.1	4C x 10 Sq.mm Copper Armoured cable with 2 runs of 12 SWG GI bare wire(UPS DB)	165.00	Mtrs
11.3	4C x 10 Sq.mm Copper Armoured cable with 2 runs of 12 SWG GI bare wire (RAW DB)	72.00	Mtrs
12	<p>ELECTRICAL &amp; ALLIED WORKS - WORKSTATION UPS POWER WIRING Supply &amp; Installation of concealed / ressed UPS point wiring using 600V 3R (P+N+E) x 1.5 Sq.mm copper conductor PVC insulated wires (with proper R,Y,B color code) pulled through already laid PVC raceway on walls and through table partition including 3R (P+N+E) x 2.5 Sq.mm circuit wires from the relevant DB and also including 2.5 sqmm green color copper earth wire and approved make modular type switch plate, switches, MS concealed back box, etc. as required &amp; as approved by the consultant. (The item rate shall include Lighting / Raw / UPS Power Circuit wiring from relevant DB to the switch board with 3Rx2.5 Sq.mm wires &amp; from switch board to next switch board OR to the first light point / primary point / full point)NOTE :- 1. Only PVC insulated wire shall be used; 2. Conduit carrying circuit wiring should not carry point wiring and Conduit carrying point wiring should not carry submain/circuit wiring; 3. Flexible conduits &amp; Elbows are not allowed; 4. The wires from ceiling junction to light points / light fixture shall be drawn in flexible PVC conduit with adptor &amp; cover for junction box &amp; crimp type lugs at both the ends alongwith necessary hardware &amp; accessories, etc. as required; 5. Proper ferrules, lugs, must be used in all cabling and wiring on both load / source end; 6. Each switch board must be provided with respective ferrules representing the respective DB, Phase &amp; Circuit numbers; 7. Looping of Neutral / Earth wire between two seperate Primary / Full Points is strictly not allowed; 8. Looping of Neutral / Earth wire between two seperate circuits on similar or other phase is strictly not allowed; 9. Ferulling / numbering / taggning to wires with circuit number &amp; db name for all lighting &amp; raw / ups power shall be strictly followed at both DB &amp; switch board / switch socket boards ends.</p>		

12.1	Supply & Installation of primary point wiring for UPS or stabilized power plug points on workstations / table for computers using 3C X 2.5 Sqmm copper conductor PVC sheathed white color flexible cable pulled through already laid Surface PVC Box raceway and table/workstation partition raceways and taken upto table top using PVC rigid or flexible conduits run within wooden/metal partitions. Each point consisting of 2 nos of 5A , 3 pin sockets above table top/bottom & 1 No., 15A Switch above table top, wired together forming one point. The earth wire of 3 core flexible cable to be of yellow-green color only. (3 no.s desks served by one circiut from DB)	54.00	Nos
12.2	Supply & Installation of Secondary point wiring for UPS or stabilized power plug points on workstations / table for computers using 3C X 1.5 Sqmm copper conductor PVC sheathed white color flexible cable pulled through already laid tablepartition raceways and taken upto table top using PVC rigid or flexible conduits run within wooden/metal partitions. Each point consisting of 2 nos of 5A , 3 pin sockets above table top/bottom & 1 No., 15A Switch above table top, wired together forming one point. The earth wire of 3 core flexible cable to be of yellow-green color only. ( 2 no.s CONSEQUENT desks to be looped from each primary UPS point FROM first desk )	100.00	Nos
13	ELECTRICAL & ALLIED WORKS - WALL PVC - RACEWAYS		
13.1	Supply and laying PVC Raceways with cover, & two cable compartment for UPS Power Circuit Cable and Data cables 75 x 75 x 1.6mm thick PVC Raceways with cover	125.00	Mtrs
14	ELECTRICAL & ALLIED WORKS - LIGHTING POINTS IN ROOM, Supply & Installation of concealed / ressed / surface light point / fan point / call bell point wiring using 600V FRLS grade 3R (P+N+E) x 1.5 Sq.mm copper conductor PVC insulated wires (with proper R,Y,B color code) pulled through heavy gauge PVC conduits laid concealed over false ceiling or in wall chases or on the ceiling in case of an open ceiling including 3R (P+N+E) x 2.5 Sq.mm circuit wires from the relevant DB and also including 2.5 sqmm green color copper earth wire and approved make modular type switch plate, switches, MS concealed back box, etc. as required & as approved by the consultant. (Each circuit shall not feed more than 8 points OR 800 watts as per following configuration.) (The item rate shall include Lighting / Raw / UPS Power Circuit wiring from relevent DB to the switch board with 3Rx2.5 Sq.mm FRLS wires & from switch board to next switch board OR to the first light point / primary point / full point)		
14.1	Primary light points including the cost of 5A switch	24.00	nos
14.2	Secondary light points looped from the above point	52.00	Nos



14.3	Supply & Installation of (26-32W) (2' X 2') full lit panel type LED Light fixture. The fitting shall be suitable for grid / plain ceiling type & surface mounted / to be hanged from the ceiling at the height approved by architect. (CGL , PHILIPS WIPRO , GE or equivalent category & model as approved by client / architect / consultant.)	76.00	Nos
14.4	Supply & Installation of (8-12 W) LED Spotlight flush mounted Light fixture. (CGL , PHILIPS WIPRO , GE or equivalent category & model as approved by client / architect / consultant.)	30.00	nos
15	ELECTRICAL & ALLIED WORKS - DATA NETWORKING		
15.1	Supply & Installation of Modular Data point including approved make Cat - 6 UTP cable through already laid trenches / conduits, RJ45 information outlet face plate, etc. with Termination, Testing and Documentation of UTP Points complete as required.	148.00	Nos.
15.2	Supply & installation of 24 Port 10/100 Mbps Unmanage switch	8.00	Nos.
15.3	Supply & installation of 24 port jack panel in existing network rack	8.00	Nos.
15.4	Supply of mounting patch cord (3 feet')	150.00	Nos.
15.5	Supply of mounting patch cord (7 feet')	150.00	Nos.
15.6	Supply & Installation of 9 U floor/wall mounted network rack including all necessary hardware, accessories, etc.	4.00	Nos.
15.7	Supply & Installation of 32U floor mounted network rack including all necessary hardware, accessories, etc.	1.00	Nos.
15.8	Supply & laying of approved make Cat - 6 UTP cable through PVC conduits,with Termination, Testing and Documentation complete as required for uplinking(D-Link or equivalent)	74.00	Mtr
16	ELECTRICAL & ALLIED WORKS - PA SYSTEM		
16.1	SITC of Speaker wire (through PVC conduit) from amplifier upto speaker	300.00	Mtr
16.2	SITC OF Speaker 6 watt ( make-BOSCH / AHUJA) or equivalent make	16.00	Nos
16.3	Supply, Installation & Testing of Amplifier ,60 watt,for Classroom Address System suitable to operate on 230V A.C. / 12V D.C. supply with two low impedance microphone input, tone control, protection circuit complete for the speakers output lines. (Ahuja / approved equivalent make)	4.00	Nos
16.4	A compact & reliable single channel VHF Wireless Microphone AWM-520VL. It features a tie-clip microphone with a VHF high band body-pack transmitter and a sensitive noise squelch receiver. Single channel VHF wireless microphone available in six different frequencies. Electret condenser unidirectional microphone. Transmitter has an on ON/OFF switch and a LED for ON indication. Stylish table-top receiver with a telescopic antenna & noise squelch circuitry.Power ON/OFF switch and output volume control on the front panel.1/4" (6.3mm) phone jack for audio output on the rear panel of the	4.00	Nos

	receiver. Microphone operates with 1A—9V battery. Receiver operates on 9V DC through an AC adaptor, supplied along with the microphone.		
17	<b>ELECTRICAL &amp; ALLIED WORKS - FIRE ALARM SYSTEMS</b>		
17.1	SITC OF Fire alarm panel [Zone - 2 ] - Conventional (make-Ravel OR EQUIVALENT) Primary Power 120 – 220VAC , 50 Hz,IP Rating : IP50,The microprocessor based 2 Zone CE mark conventional fire alarm control panel is a standalone system, with 16 X 2 LCDcharacter, 2 zones detection circuit,3 common potential free contacts & a common NAC sounder output, wall/ceiling mounted, Switch mode power supply- SMPS & Battery polarity & Deep discharge protection.	2.00	Nos
17.2	SITC OF Smoke Detectors- conventional type with base (Ravel make OR EQUIVALENT) Above False ceiling	22.00	Nos
17.3	SITC OF Smoke Detectors- conventional type with base (Ravel make OR EQUIVALENT) below False ceiling	22.00	Nos
17.4	SITC OF Hooter -conventional type with required Hooter operating voltage 12V/24V/220 volt, Door Sensor magnetic switch and wiring And allied required accessories.	2.00	Nos
17.5	SITC OF MCP (Manual Call Point)	8.00	Nos
17.6	SITC OF FRLS CABLE 2 X 1.5 Cu armoured cable	400.00	Mtr
18	<b>ELECTRICAL &amp; ALLIED WORKS - LCD Projector</b>		
18.1	SITC of LCD Projector with ceiling mounting stand ,Contrast Ratio:15,000:1,Light Output of 3,300 lumens,HDMI &USB Ports,EPSON-EB series or equivalent as approved by client	4.00	Nos

**The above quoted prices are including freight, insurance, loading, un-loading, handling and allied charges to be incurred till installation at site.**

**The rates (%) of GST for each line item shall be as given in un-priced commercial bid submitted along with the technical bid.**

*(End of Section – V)*





**ANNEXURE – A: COVERING LETTER**

Date:

To:

**The Executive Director,  
Centre for Development of Advanced Computing (C-DAC)  
Innovation Park, Panchavati, Pashan Road,  
Pune - 411008 Maharashtra, INDIA**

**Subject:** Submission of bid for Turnkey Work Tender (Civil, HVAC, Electrical & allied work) at first & second floor NASCCOM Prime Class room at C-DAC Main SPPU Campus, Pune

Dear Sir,

We, the undersigned, offer to provide Civil, HVAC, Electrical & allied work at first & second floor NASCCOM Prime Class room at C-DAC Main SPPU Campus, Pune in response to your Tender No. .... We hereby submit our proposal for same, comprising of Technical bid and the Financial Bid, through [www.eprocure.gov.in](http://www.eprocure.gov.in)

We hereby declare that all the information and statements made in this bid are true and we accept that any misinterpretation contained in it, may lead to our disqualification.

We undertake that the products offered are not nearing end-of-life / end-of-support five /three years down the line from the date of bidding, from OEM.

We undertake, that a Security Deposit BG of 3% of the each order(s) value will be submitted in case C- DAC decides to place any Purchase Order(s).

We hereby certify that my/ our firm has not been disqualified and / or blacklisted by any Office/ Department/ Undertaking of the State Government / Central Govt. of India, PSU/ Autonomous Body of Government of India, at the time of submission of this bid.

We agree to abide by all the terms and conditions of the tender document, including corrigenda. We would hold the terms of our bid valid for 120 days as stipulated in the tender document.

We understand you are not bound to accept any Proposal you receive.

The undersigned is authorized to sign this bid document. The authority letter to this effect is enclosed.

Yours sincerely,

Authorized Signatory:

Name and Title of Signatory:

e-mail:

Mobile No:



**ANNEXURE – B: AUTHORITY LETTER**

Date:

To:

**The Executive Director,  
Centre for Development of Advanced Computing (C-DAC)  
Innovation Park, Panchavati, Pashan Road,  
Pune - 411008 Maharashtra, INDIA**

**Subject: Authority Letter**

Reference: Tender No .....

Dear Sir,

We, M/s \_\_\_\_\_ (Name of the bidder) having registered office at \_\_\_\_\_ (address of the bidder) herewith submit our bid against the said tender document.

Mr./Ms. \_\_\_\_\_ (Name and designation of the signatory), whose signature is appended below, is authorized to sign and submit the bid documents on our behalf against said RFP

Specimen Signature:

The undersigned is authorised to issue such authorisation on behalf of us.  
For M/s \_\_\_\_\_ (Name of the bidder)

Signature and company seal  
Name  
Designation  
Email  
Mobile No.



*Annexure – C: Undertaking for EMD*

Date:

To:

The Director General,  
Centre for Development of Advanced Computing (C-DAC)  
Innovation Park, Panchavati, Pashan Road,  
Pune - 411008 Maharashtra, INDIA

**Subject: Undertaking as per GFR – 2017, Rule 170(iii)**

Dear Sir,

We, the undersigned, offer to Supply the -----as per tender at C-DAC Pune, in response to your Tender No-----.

We are hereby submitting our proposal for same, which includes Technical bid and the Financial Bid. As a part of eligibility requirement stipulated in said tender document, we hereby submit a declaration in lieu of Earnest Money Deposit (EMD), as given below:

1. Our bid shall remain valid for 120-days from the date of submission and that we will not withdraw or modify our bid during the validity period,
2. In case, we are declared as successful bidder and an order is placed on us, we will submit the acceptance in writing within 7 days of placement of order on us.
3. In case, we are declared as successful bidder and an order is placed on us, we undertake, to submit a Performance Bank Guarantee of 3% of the order value, as per terms stipulated in the tender.
4. In case, the bidder fails to accept the Work Order (WO) / Purchase Order (PO) or fails to supply the material as per the said Work Order (WO) / Purchase Order (PO).
5. In case of failure on our part to comply with any of the above said requirements, we are aware that we shall be declared as un-eligible for said tender and /or debarred from any **future bidding process of C-DAC for a period of minimum one year.**
6. The undersigned is authorized to sign this undertaking.

Yours sincerely,

Authorized Signatory:

Name and Title of Signatory:

e-mail:

Mobile No:



**ANNEXURE D - PROFORMA OF SECURITY DEPOSIT BANK GUARANTEE**

To,

**Centre for Development of Advanced Computing  
Pune University Campus  
Ganesh Khind, Pune – 411 007**

BANKS GUARANTEE NO:

DATE:

Dear Sir(S)

This has reference to the Purchase Order No. \_\_\_\_\_ Dated \_\_\_\_\_ been placed by Centre for Development of Advanced Computing(C-DAC), Pune on M/s \_\_\_\_\_ (Name & Address of vendor) for supply, installation, commissioning and warranty of \_\_\_\_\_ (description of items) at C-DAC/client's site.

The conditions of this order provide that the vendor shall,

1. Arrange to deliver the items listed in the said order to the consignee, as per details given in said order, and
2. Arrange for the comprehensive warranty service support towards the items supplied by vendor at sites anywhere in India, as per the warranty clause in said purchase order.

M/s (Name of Vendor) has accepted the said purchase order with the terms and conditions stipulated therein and have agreed to issue the performance bank guarantee on their part, towards promises and assurance of their contractual obligations vide the Supply Order No. \_\_\_\_\_ M/s. \_\_\_\_\_ (name of vendor) holds an account with us and has approached us and at their request and in consideration of the promises, we hereby furnish such guarantees as mentioned hereinafter.

C-DAC shall be at liberty without reference to the Bank and without affecting the full liability of the Bank hereunder to take any other undertaking of security in respect of the suppliers obligations and / or liabilities under or in connection with the said contract or to vary the terms vis-a – vis the supplier or the said contract or to grant time and or indulgence to the supplier or to reduce or to increase or otherwise vary the prices or the total contract value or to forebear from enforcement of all or any of the obligations of the supplier under the said contract and/or the remedies of C-DAC under any security (ies) now, or hereafter held by C-DAC and no such dealing(s) with the supplier or release or forbearance whatsoever shall have the effect of releasing the bank from its full liability of C-DAC hereunder or of prejudicing right of C-DAC against the bank.

This undertaking guarantee shall be a continuing undertaking guarantee and shall remain valid and irrevocable for all claims of C-DAC and liabilities of the supplier arising up to and until \_\_\_\_\_ (date)

This undertaking guarantee shall be in addition to any other undertaking or guarantee or security whatsoever the that C-DAC may now or at any time have in relation to its claims or the supplier's obligations/liabilities under and / or in connection with the said contract and C-DAC shall have the full authority to take recourse to or enforce this undertaking guarantee in preference to the other undertaking or security (ies) at its sole discretion and no failure on the part of C-DAC in enforcing or requiring enforcement of any other undertaking or security shall have the effect of releasing the bank from its full liability hereunder.



We \_\_\_\_\_ (Name of Bank) hereby agree and irrevocably undertake and promise that if in your (C-DAC's) opinion any default is made by M/s \_\_\_\_\_ (Name of Vendor) in performing any of the terms and /or conditions of the agreement or if in your opinion they commit any breach of the contract or there is any demand by you against M/s \_\_\_\_\_ (Name of Vendor), then on notice to us by you, we shall on demand and without demur and without reference to M/s \_\_\_\_\_ (Name of Vendor), pay you, in any manner in which you may direct, the amount of Rs. \_\_\_\_\_/- (Rupees \_\_\_\_\_ Only ) or such portion thereof as may be demanded by you not exceeding the said sum and as you may from time to time require. Our liability to pay is not dependent or conditional on your proceeding against M/s \_\_\_\_\_ (Name of Vendor) and we shall be liable & obligated to pay the aforesaid amount as and when demanded by you merely on an intimation being given by you and even before any legal proceedings, if any, are taken against M/s \_\_\_\_\_ (Name of Vendor)

The Bank hereby waives all rights at any time inconsistent with the terms of this undertaking guarantee and the obligations of the bank in terms hereof shall not be anywise affected or suspended by reason of any dispute or disputes having been raised by the supplier (whether or not pending before any arbitrator, Tribunal or Court) or any denial of liability by the supplier or any order or any order or communication whatsoever by the supplier stopping or preventing or purporting to stop or prevent payment by the Bank to C-DAC hereunder.

The amount stated in any notice of demand addressed by C-DAC to the Bank as claimed by C-DAC from the supplier or as suffered or incurred by C-DAC on the account of any losses or damages or costs, charges and/or expenses shall as between the Bank and C-DAC be conclusive of the amount so claimed or liable to be paid to C-DAC or suffered or incurred by C-DAC, as the case may be and payable by the Bank to C-DAC in terms hereof.

You (C-DAC's) shall full liberty without reference to us and without affecting this guarantee, postpone for any time or from time to time the exercise of any of the powers and rights conferred on you under the contract with the said M/s \_\_\_\_\_ (Name of Vendor) and to enforce or to forbear from endorsing any power or rights or by reason of time being given to the said M/s \_\_\_\_\_ (name of Vendor) which under law relating to the sureties would but for the provisions have the effect of releasing us.

You will have full liberty without reference to us and without affecting this guarantee, postpone for any time or from time to time the exercise of any of the powers and rights conferred on you under the contract with the said M/s \_\_\_\_\_ (Name of Vendor) and to enforce or to forbear from endorsing any power or rights or by reason of time being given to the said M/s \_\_\_\_\_ (Name of Vendor) which under law relating to the sureties would but for the provisions have the effect of releasing us.

Your right to recover the said sum of Rs. \_\_\_\_\_/- (Rupees \_\_\_\_\_ only) from us in manner aforesaid will not be affected/ or suspended by reason of the fact that any dispute or disputes have been raised the said M/s \_\_\_\_\_ (Name of Vendor) and/ or that any dispute or disputes are pending before any officer, tribunal or court or Arbitrator.

The guarantee herein contained shall not be determined or affected by the liquidation or winding up, dissolution or change of constitution or insolvency of the said M/s \_\_\_\_\_



(Name of Vendor) but shall in all respects and for all purposes be binding and operative until payment of all dues to C-DAC in respect of such liability or liabilities.

Our liability under this guarantee is restricted to Rs. \_\_\_\_\_/- (Rupees \_\_\_\_\_ Only). Our guarantee shall remain in force until unless a suit action to enforce a claim under guarantee is filed against us within six months from (which is date of expiry of guarantee) all your rights under the said guarantee shall be forfeited and we shall be relieved and discharged from all liabilities there under.

We have power to issue this guarantee in your favour under Memorandum and Articles of Association of our Bank and the undersigned has full power to do under the power of Attorney dated.

Notwithstanding anything contained herein:

- A. Our liability under this guarantee shall not exceed Rs \_\_\_\_\_ (in words)
- B. This bank guarantee shall be valid up to \_\_\_\_\_ & unless a suit for action to enforce a claim under guarantee is filed against us within six months from the date of expiry of guarantee. All your rights under the said guarantee shall be forfeited and we shall be relieved and discharged from all liabilities there after i.e. after six months from the date of expiry of this Bank guarantee
- C. We are liable to pay the guaranteed amount or any parts thereof under this bank guarantee only and only if you serve upon us a written claim or demand or before \_\_\_\_\_
- D. The Bank guarantee will expire on (Min 37 months from the date of successful installations of the items in the order) \_\_\_\_\_

Granted by the Bank

(SEAL)

For (Name of Bank)  
Yours faithfully,

SEAL OF THE BANK  
Authorised Signatory





**UNDERTAKING**  
**(ON COMPANY'S LETTERHEAD)**

Name of Bidder:  
Detailed Address:  
Contact Person:  
Mobile No:

Tender Ref. NO. ...., for .....

**DETAILS OF BROAD DEVICES / ITEMS TO BE SUPPLIED (ALL MAKE & MODEL)**

Sr. No.	Description / Item	Make/ Model No	Declaration as per 6/18/2019-PPD & No.P-45021/112/2020-PP(BE-II)(E-43780) (Of OEM +Bidder)		(% Make in India contents (F. No. W-43/4/2019-IPHW-MeitY)
			Country of Origin of OEM	Country of Manufacture	
1					
2					
3					
..					

Bidder may add rows for the items required to cover the entire scope as per the Schedule of Requirements.

**ANNEXURE – F****DOCUMENTARY / ELIGIBILITY CHECKLIST**

Sr. No.	DOCUMENTARY / ELIGIBILITY	Details (if any)	Enclosed (Yes / No)	Page No.
1.	Checklist			
2.	Tender Fees (Rs. 1,500/-)	RTGS/IMPS/DD No.		
3.	EMD Declaration (As per Annexure – C)			
4.	Covering Letter			
5.	Authorisation Letter			
6.	A copy of Certificate of Incorporation, Partnership Deed / Memorandum and Articles of Association / any other equivalent document showing date and place of incorporation, as applicable of the bidder.			
7.	Copies of PAN and GST registration certificates.	PAN – GST -		
8.	The bidder must have successfully completed at least One Similar Turnkey work of Central/State Government Department, PSU or Autonomous institution, costing not less than the amount equal to 1.20 Crore in last 7 Years. (“Similar work means- Turnkey Works comprising Civil, Electrical & Allied, HVAC works “- Documentary evidence for similar turnkey experience is to be furnished of completed works in form of Work order/Satisfactory Work Completion Certificate. The work order should be in the name of bidder directly)			
9.	The Bidder shall be a registered company of India as per relevant laws (Submit Copy of ROC)			
10.	The Bidder shall be a registered company/firm/Branch office (Address proof to be submitted along with registration certificate) in Pune/ Mumbai area (Attach Proof-Shop Act )			
11.	The contractor must not be black listed / debarred from bidding by any Government Department, PSU or Autonomous institution, as on date of submission of bids. (Declaration to be submitted on letterhead)			
12.	Undertaking/ Declaration as per annexure E			
13.	Agreeing for bid validity of 120 days from bid submission date.			

*(End of Document)*