

**e-Tender
for Supply, Installation, Testing,
Commissioning and Training of
Electronics and Communication Lab
Equipments for
Dr. B.R. Ambedkar Institute of Technology, Port Blair**

TENDER NOTICE NO:BRAIT/TEQIP-III/1-33(13)/

TEQIP-3

Technical Education Quality Improvement Programme

**Andaman & Nicobar Administration
Dr. B.R.Ambedkar Institute of
Technology, Pahargaon, Port Blair
Andaman & Nicobar Islands**

Checklist for Bid Submission
(The following check-list must be filled in and submitted with the bid documents)

Technical Bid

Sl. No	Particulars	Yes/No
1	Whether the EMD/Bid Security of Rs. 3, 75,000.00 is to be submitted along with the Bid? If so upload a Scan copy of EMD/ Bid Security.	
2	Have you uploaded Tender/Bid Acceptance Form as per Annexure-II?(if yes Document should be uploaded)	
3	Have you uploaded Prequalification Documents as per Annexure-III and the Annexure-III as well?	
4	Have you uploaded Bidder Information as per Annexure-IV?	
5	Have you uploaded a copy of the Power of Attorney from the Bidder in respect of Authorized Signatory for the Bid?	
6	Have you uploaded compliance sheet for specification as per Annexure-V?	
7	Have you uploaded the List of Deviations as per Annexure-VII?	
8	Have you uploaded the Details of Service Centre as per Annexure-VIII?	
9	Have you uploaded details of Supply, Turnover & Profit as per Annexure-IX?	
10	Have you uploaded the Undertaking for Technical Bid as per Annexure-XII?	
11	Have you uploaded Authorization Letter from OEM (in case of Authorized representative of OEM) as per Annexure-XIV?	
12	Have you uploaded the copies of GST/PAN/Bank Account No /IFSC code/Bank Name/?	
13	Have you uploaded the scanned copy or relevant Document for Bid Security waiver?	
14	Have you uploaded the scanned copy of Bid Document Fee or Relevant document for Bid Document Fee waiver?	
Price Bid:		
1.	Have you uploaded the Price Bid as per pricepackageI.xls	
2.	Have you uploaded the Price Bid as per pricepackageII.xls	
3.	Have you uploaded the Price Bid as per pricepackageIII.xls	
4.	Have you uploaded the Price Bid as per pricepackageIV.xls	
5.	Have you uploaded the Price Bid as per pricepackageV.xls	

Signature & Seal of Bidder

NOTICE INVITING TENDER (NIT)

TENDER NOTICE NO:BRAIT/TEQIP-III/1-33(13)/

Dr. B. R. Ambedkar Institute of Technology, Andaman and Nicobar Administration, Port Blair invites e-Tender from OEM's/Authorized Representatives/Channel partners/Dealers in the form of (2) Two bid systems viz. Pre-qualification-cum-Technical Bid and Price Bid for Supply, Installation, Testing, Commissioning and Training of Electronics and Communication Lab Equipments, with comprehensive onsite warranty for five years.

The interested eligible bidders may submit the bids through e-procurement portal using url <https://eproc.andaman.gov.in> as per the given schedule.

IMPORTANT INFORMATION

Tender Publishing, Document download start Date & Time	06/07/2019 from 1400 hrs.
Bid Submission Start Date & Time	06/07/2019 from 1430 hrs.
Bid Documents to be downloaded from	https://eproc.andaman.gov.in/
Earnest Money Deposit (Bid Security)	Rs 3,75,000.00
Last date of receiving Pre Bid Query	16/07/2019 at 1500 hrs
Pre bid Conference	16/07/2019 at 1500 hrs at DBRAIT, Port Blair
Last date for DBRAIT response to pre Bid Queries	26/07/2019
Bid Submission Closing Date & Time	09/08/2019 up to 1530 hrs.
Technical Bid Opening Date and Time	09/08/2019 at 1600 hrs.
Financial Bid Opening Date and Time	Will be Communicated to the technically qualified bidders through https://eproc.andaman.gov.in/
Purchaser Contact Details	Principal Dr. B.R.Ambedkar Institute of Technology , Pahargaon, Port Blair-744103 Telephone: 03192-250587 Email : dbragpt.and@nic.in Email: andamanteqip3@gmail.com Website: http://dbragpt.and.nic.in

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1 PART-I: BID SCOPE & REQUIREMENTS

1.1 SCOPE OF WORK

1.1.1 Supply, Installation, Testing, Commissioning and Training of Electronics and Communication Lab Equipments for Dr. B.R.Ambedkar Institute of Technology, Pahargaon, Port Blair, Andaman & Nicobar Islands as mentioned at Annexure-I. The Items are grouped in (5) five packages. **A bidder may participate in one or more or all the five packages but has to quote for all the items included in any one package.** If bidder fails to quote for any item/items included in a package, the said bid may not be considered for evaluation for that package.

1.1.2 The quantities required for procurement of item at Annexure-I.

1.1.3 Providing comprehensive onsite service & support for a period of (5) Five years for Lab Equipments from the date of installation/commissioning.

1.1.4 Commissioning of Lab Equipment includes installation, Testing Commissioning and Training as required (provided by the Purchaser), etc.

1.2 PRE-QUALIFICATION REQUIREMENTS

1.2.1 This invitation to Bid is open to all Bidders fulfilling following terms and conditions:

1.2.2 Bidder shall be an Original Equipment Manufacturer (OEM) having registered office/establishment in India or its Authorized Representatives/Channel partners/Dealers in India. In case of Authorized Representatives/Channel partners/Dealers, letter of authorization (ink-signed), as per Annexure-XIV, for participating in this Bid, from OEM has to be submitted along with technical bid.

1.2.3 The Bidder should be engaged in Supply of Electronics and Communication Lab Equipments in India at least for last five years reckoned from the last date of submission of the bid. The details of supply shall be submitted as per Annexure-III & IX.

1.2.4 The Bidder shall have a minimum annual turnover in India of at least Rs.2.00 Crore, in case of bidder being OEM and Rs. 1.50 Crore, in case of bidder being authorized representatives/Channel partners/Dealers from sales in each of last three financial years i.e. 2016-17, 2017-18 and 2018-19. The detail of turnover has to be submitted as per Annexure-III & IX.

- 1.2.5 Bidder shall have made net profit after tax in each of the last three financial years i.e. 2016-17, 2017-18 and 2018-19. The details of profit shall be submitted as per Annexure-III & IX.
- 1.2.6 The Bidder shall have successfully executed similar work (means supply, installation, commissioning and Training of Electronics and Communication Lab Equipments, as per criterion given below, in Government Organization (s)/Public Sector Undertaking (s) (PSUs) during the last (2) two years reckoned from the last date of submission of bid:
- a. One similar Work costing not less than Rs. 1.0 Crore.
Or
 - b. Two similar Work costing not less than Rs. 50 lakh each.
Or
 - c. Three similar Work costing not less than Rs. 30.00 lakh each.

The details of similar work shall be submitted as per Annexure- III &IX.

- 1.2.7 The Bidder has not been blacklisted by any of the Government Organization (s)/Public Sector Undertaking (s) (PSUs).
- 1.2.8 The Bidder shall have a valid GST registration number/PAN/Bank Account No.
- 1.2.9 Either the OEM itself or its authorized representative/Channel partner/Dealer should bid but both should not bid. In case OEM as well as authorized representative/Channel partner/Dealer both submits the bids, then the Bid by OEM only shall be considered and the Bid by the authorized representative shall be rejected.
- 1.2.10 In case an Authorized representative/Channel partner/Dealer submits the Bid for a particular OEM, then it cannot Bid as an authorized representative/Channel partner/Dealer of another OEM. In such a case, both the Bids shall be rejected.
- 1.2.11 Bidder must comply with all the above-mentioned criteria as mentioned at clause 1.2.1 to 1.2.3. Non-compliance of any of the criteria shall result in rejection of the bid. Self-attested scanned copies of relevant documents/certificates shall be uploaded as proof in support of the claims made for each of the above-mentioned criteria. The Purchaser reserves the right to verify/evaluate the claims made by the bidder independently. Any hiding/ misrepresentation of facts shall result in rejection of the bid and forfeiture of Bid Security.

1.2.12 That the Bidder has the financial, technical, and production capability necessary to perform the Contract and meets the criteria outlined in the Qualification requirements. To this end, all bids submitted shall include the following information:

- (i) The legal status, place of registration and principal place of business of the company or firm or partnership, etc.
- (ii) Details of experience and past performance of the bidder on equipment offered and on those of similar nature within the past two years and details of current contracts in hand and other commitments.

1.3 TECHNICAL REQUIREMENTS

1.3.1 Technical Specification for the Items

1.3.1.1 The Bidder shall supply all the items as per technical specifications mentioned in Annexure-I.

1.3.2 Technical Specification for Service

1.3.2.1 The Bid shall include a comprehensive onsite warranty of Five years from the date of installation & commissioning of the equipment.

1.3.2.2 Warranty Certificate (ink-signed) confirming Five-year onsite warranty from OEM on its official letter-head in respect of Lab Equipments shall be submitted.

1.3.2.3 The bidder should be capable of providing onsite service support to Purchaser's offices at Port Blair as per the requirement of the purchaser.

1.3.2.4 Bidder should be responsible for satisfactory onsite service during the warranty period. The onsite service may be provided by the bidder/OEM/Any Service Provider authorized by OEM (hereinafter called as ASP). Deficiency in service shall be treated as breach of contract and the Purchaser reserves the right to take action as per the contract including encashment of the Performance Security.

1.3.2.5 The onsite service during warranty period shall include onsite diagnostic support for identification of defects in Equipments and resolution of the same within the stipulated time.

1.3.2.6 The Bidder/OEM/ASP shall have Service Centre and Spare Warehouse. Details shall be provided as per Annexure-VIII.

- 1.3.2.7 During the warranty period, Bidder/OEM/ASP shall maintain the equipment and repair/replace all the defective components at the installed site, at no additional cost to the Purchaser.
- 1.3.2.8 During the warranty period, replacement of defective/damaged parts, etc. is in the scope of warranty. In addition to the above, all other parts are also covered under warranty. Defective parts except media shall be returned to supplier on successful replacement of the same.
- 1.3.2.9 For service during the warranty, onsite attending time, in any case, shall not be beyond 1 week from the time of registration of complaint and resolution of the same shall be ensured within 2 weeks from the time of onsite attending.
- 1.3.2.10 Warranty shall not become void if Purchaser adds any other supplemental hardware e.g.

1.4 PRE-BID CONFERENCE

The Purchaser will host a Pre-Bid Conference, scheduled on 16/07/2019 (1500 hrs.) at DBRAIT, Port Blair. In case there is a change in the date, time and venue of the conference, it will be intimated through e-procurement portal to all the bidders, the representatives of the bidders may attend the Pre-bid conference at their own cost. The purpose of the conference is to provide bidders with information regarding the proposed requirements, and to provide each bidder with an opportunity to seek clarifications regarding any aspect of the tender. Request for clarifications shall be sent by the bidder through email/fax/post not later than the date and time mentioned in NIT. All the requests shall be addressed during the conference or within the due date for response by DBRAIT i.e. 26/07/2019 through e-procurement portal.

2 PART-II: BID PREPARATION & SUBMISSION

2.1 BIDDING PROCESS

2.1.1 The Bidder shall submit the bids electronically, through the e-procurement portal (<https://eproc.andaman.gov.in/>). **Any document submitted through any other means will not be considered as part of the Bid except for the Originals as asked for in this tender.**

2.1.2 This tender shall follow a two-stage Bidding process. A Bid shall be submitted in two parts, Pre-Qualification-cum-Technical Bid and Price Bid.

- 2.1.3 In the first stage, only Technical Bid will be opened online and evaluated.
- 2.1.4 The Bid shall be considered responsive provided it meets all the requirements under this Bid document including Technical Specifications as per Annexure-I.
- 2.1.5 Under the second stage, the Price Bid of only those Bidders, whose Bids are found responsive, will be opened. Date of opening of Price Bid would be notified separately.
- 2.1.6 The Financial Bid shall contain only the rates. The Financial bid of only Technically Qualified bidder will be opened after Technical Evaluation.

2.2 INSTRUCTIONS FOR ONLINE BIDDING PROCESS

- 2.2.1 The bidders are required to submit soft copies of their bids electronically on the <https://eproc.andaman.gov.in> Portal, using valid Digital Signature Certificates.
- 2.2.2 More information useful for submitting online bids on the e-Procurement Portal may be obtained at: <https://eproc.andaman.gov.in>

2.2.3 REGISTRATION

- 2.2.3.1 Bidders are required to register on the e-Procurement Portal of the Andaman & Nicobar Administration (URL:<https://eproc.andaman.gov.in/>).
- 2.2.3.2 As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts.
- 2.2.3.3 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.

2.2.4 PREPARATION OF BIDS

- 2.2.4.1 Bidder should take into account any corrigendum published on the tender document before submitting their bids.
- 2.2.4.2 Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid.
- 2.2.4.3 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/JPG formats. Bid documents may be scanned with 100 dpi with

black and white option which helps in reducing size of the scanned document.

- 2.2.4.4 A bidder may participate in one or more or all the four packages but has to quote for all the items included in any one package. If bidder fails to quote for any item/items included in a package, the said bid may not be considered for evaluation for that package.

2.2.5 SUBMISSION OF BIDS

- 2.2.5.1 Bidder should log into the site well in advance for bid submission so that they can upload the bid in time i.e. on or before the bid submission date & time as given hereunder:

Bid Submission Closing

Date and Time : 09/08/2019 up to 1530 hrs.

Bidder will be responsible for any delay due to other issues.

- 2.2.5.2 Bidder should prepare the BID SECURITY as per the instructions specified in the tender document. The original should be posted/couriered/given in person to the concerned official, latest by the last date of bid submission or as specified in the tender documents. The details of the DD/any other accepted instrument, physically sent, should tally with the details available in the scanned copy and the data entered during bid submission time. Otherwise the uploaded bid will be rejected.
- 2.2.5.3 Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable.
- 2.2.5.4 All the documents being submitted by the bidders would be encrypted to ensure the secrecy of the data. The data entered cannot be viewed by unauthorized persons until the time of bid opening.
- 2.2.5.5 The uploaded tender documents become readable only after the tender opening by the authorized bid openers.
- 2.2.5.6 Upon the successful and timely submission of bids, the portal will give a successful bids submission message.
- 2.2.5.7 The bid summary has to be printed and kept as an acknowledgement of the submission of the bid. This acknowledgement may be used as an entry pass for any bid opening meetings.

2.2.6 ASSISTANCE TO BIDDERS

2.2.6.1 Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Purchaser or the relevant contact person through email/post indicated in the tender.

2.3 BIDDING DOCUMENT

2.3.1 The Bidder is expected to examine all instructions, forms, terms and conditions prequalification and technical requirements in the bidding documents. Failure to furnish any information/documents required in the bid shall be treated as non-responsive and may result in the rejection of the bid.

2.4 BID DOCUMENT FEE

2.4.1 The Bid document can be downloaded from the Andaman & Nicobar Administration e-portal <https://eproc.andaman.gov.in/>

2.4.2 The scanned copy of the demand draft / Documentary Proof for waiver of the Bid Document Fee, shall be uploaded at the time of Bid submission. The original demand draft / Documentary Proof for waiver of the Bid Document Fee shall be submitted to the Purchaser before the deadline for the submission of the bids, failing which the bid shall summarily be rejected and the Technical Bid shall not be opened.

2.5 BID VALIDITY PERIOD

2.5.1 The Bid shall remain valid for a period of at least **90days** from the last date of submission of bid.

2.5.2 In exceptional circumstances, the Purchaser may solicit the Bidder's consent to an extension of the period of validity. The request and the responses thereto shall be made in writing by fax or email. The bid security provided shall also be suitably extended. A Bidder may refuse the request without forfeiting its bid security. A Bidder granting the request will not be required nor permitted to modify its bid.

2.6 PRE QUALIFICATION-CUM-TECHNICAL BID

2.6.1 The Pre-Qualification-cum-Technical Bid shall be complete in all respects and contain all information asked for in this document.

2.6.2 The Pre-Qualification-cum-Technical Bid shall comprise of the following:

2.6.2.1 Scanned copy of EMD/Bid Security of Rs 3,75,000.00 is to be submitted along with the Bid as per clause 2.7.1

2.6.2.2 Signed & scanned copy of Checklist for Bid Submission.

- 2.6.2.3 Signed & scanned copy of Tender Acceptance Form as per Annexure-II.
- 2.6.2.4 Signed & scanned copy of Bidder Information as per Annexure-IV.
- 2.6.2.5 Signed & scanned copy of Compliance Sheet for Specifications as per Annexure -V.
- 2.6.2.6 Signed & scanned copy of List of Deviations as per Annexure-VII.
- 2.6.2.7 Signed & scanned copy of Details of Service Centers as per Annexure-VIII.
- 2.6.2.8 Signed & scanned copy of Details of Supply, Turnover & Profit as per Annexure-IX.
- 2.6.2.9 Signed & scanned copy of Undertaking for Technical Bid as per Annexure-XII.
- 2.6.2.10 Signed & scanned copy of the Power of Attorney from the Bidder in respect of Authorized Signatory for the Bid.
- 2.6.2.11 Signed & scanned copy of Annexure-III as well as each of the Prequalification criteria documents as per Annexure-III.
- 2.6.2.12 In case of claiming waiver for Bid Security, scanned copy of the documentary proof as per clause 2.7.2.
- 2.6.3 The following documents should be submitted, in Original, by the Bidder before the deadline of the submission of the bid:
 - a. The Bid Security
 - b. Authorization from the OEM in case of Bidder being an authorized representative.
- 2.6.4 Self-certified copies of all the relevant documents as proof in support of various scanned documents uploaded in aforesaid annexures and other claims made by the Bidder shall be submitted to the Purchaser before deadline of submission of the bids. Purchaser reserves the right to verify the submitted documents with original one.

2.7 BID SECURITY

- 2.7.1 The bidder shall deposit bid security of Rs.3, 75,000.00 (Rupees Three Lakh Seventy Five Thousand Only) in the form of Bank Guarantee from any Commercial bank (as per

Annexure-XI) valid for at least 90 (Ninety) Days beyond the validity period of the bid.

2.7.2 In case the Bidder claims for waiver of Bid Security, he shall provide documentary proof in this respect valid till the Bid Validity period.

2.7.3 The scanned copy of the Bank Guarantee / Documentary Proof for waiver of the Bid Security shall be uploaded at the time of Bid submission.

2.7.4 The original Bank Guarantee / Documentary Proof for waiver of the Bid Security shall be submitted to the Purchaser before the deadline for the submission of the bids, failing which the bid shall summarily be rejected and the Technical Bid shall not be opened.

2.7.5 The Bid Security not in conformity in all respect with the requirements as per clause 2.7.1, the bid shall summarily be rejected.

2.7.6 No interest shall be payable on the Bid Security amount.

2.7.7 The Bid Security shall be forfeited if the bidder:

2.7.7.1 Withdraws its bid during bid validity period.

2.7.7.2 Any hiding/ mis-representation of facts.

2.7.7.3 Refuses to accept Letter of Award.

2.7.7.4 Fails to sign the Contract within the stipulated time.

2.7.7.5 Tampering / Modification of the Price Bid Template in any manner.

2.7.7.6 Involvement of the Bidder in any Corrupt, Collusive, Coercive or Fraudulent Practices.

2.7.7.7 The Bid Security of Bidders shall be returned as promptly as possible upon the successful Bidder's signing the Contract.

2.8 PRICE BID

2.8.1 The Price Bid shall be complete in all respects and contain all information asked for in this document.

2.8.2 The Price bid format is provided as price.xls package wise along with this tender document at <https://eproc.andaman.gov.in/>. Bidders are advised to download this price.xls as it is and quote their offer/rates in the permitted column and upload the same in the

Price bid. The bidder has to quote for all the items included in one single package

2.8.3 The prices quoted shall be only in Indian rupees.

2.8.4 The prices shall be inclusive of all **taxes & duties** etc.

2.8.5 The prices quoted shall also include charges towards *freight, forwarding, delivery, installation, insurance charges*.

2.8.6 The prices shall include Five (5) years onsite warranty.

2.8.7 The Bidder shall indicate on the Price Schedule the unit prices and total bid prices of the goods package wise it proposes to supply under the Contract.

2.9 NO PRICE VARIATION

2.9.1 The Price quoted shall be firm. No upward revision in the prices would be considered on account of subsequent increases in government taxes, duties, levies, etc. during the Bid validity period.

2.10 AMENDMENT OF BIDDING DOCUMENTS BY PURCHASER

2.10.1 At any time prior to the deadline of submission of the bids, the Purchaser may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective bidder, modify the Bidding documents by way of Amendments/Addendum/Corrigendum, if any, shall be notified through e-procurement website.

2.10.2 All Prospective Bidders are advised to visit <https://eproc.andaman.gov.in/> and for any corrigendum / addendum/ amendment.

2.10.3 In order to provide prospective Bidders reasonable time to take the amendment into account for preparing their bid, the Purchaser may, at its discretion, extend the deadline of the submission of bids.

2.11 MODIFICATION OF BIDS BY BIDDERS

2.11.1 A Bidder may modify its bid on the e-procurement portal <https://eproc.andaman.gov.in/> till the deadline of the submission of Bid.

2.11.2 Modification of the Bid sent through any other means shall not be considered by the Purchaser.

2.12 LATE BIDS

2.12.1 The e-Procurement system will not allow any late submission of bids after due date and time as per server system.

3 PART-III: BID OPENING & EVALUATION

3.1 OPENING OF BIDS

3.1.1 The Purchaser shall open the bids as per electronic bid opening procedures specified in Andaman & Nicobar Administration e-portal website: <https://eproc.andaman.gov.in/> at the date and time specified. Bidders can also view the bid opening by logging on to the e-procurement system.

3.1.2 The purchaser will open the bids in the presence of Bidders' representative who choose to attend at the time, date and venue as mentioned in NIT.

3.1.3 No representatives are allowed to attend the Bid Opening without the valid Bid acknowledgement slip received after submission of Bids.

3.1.4 In the event of the specified date of bid opening being declared a holiday for purchaser, the bids shall be opened at the specified time and place on the next working day.

3.2 PRELIMINARY EXAMINATION OF TECHNICAL BID

3.2.1 The Purchaser will examine the bids to determine their completeness in all respect as per the requirements of this Bid Document.

3.2.2 The purchaser may waive any minor informality or non-conformity or irregularity in a bid, which does not constitute a material deviation, provided such waiver does not prejudice to affect the relative ranking of any bidder.

3.3 EVALUATION OF TECHNICAL BIDS

3.3.1 The Purchaser shall evaluate the Technical Bid based on the documents submitted as mentioned in clause 2.6 of this Bidding document.

3.3.2 Purchaser reserves the right to reject the bid under any of the following circumstances:

3.3.2.1 Bid is incomplete and/or not accompanied by all required documents.

3.3.2.2 Bid is not in conformity with the terms and conditions stipulated in this document.

3.3.2.3 Specifications stipulated in Annexure-I, are not met.

3.4 EVALUATION OF PRICE BIDS

- 3.4.1 Price Bid of only those bidders, whose Bids are found technically responsive, shall be opened and evaluated.
- 3.4.2 Evaluation shall be done based on the total price (inclusive of all the applicable taxes, duties, insurance, forwarding, installation, testing, commissioning and training etc.) of all the items included in one package and including 5 year comprehensive onsite warranty
- 3.4.3 The Evaluated Total Price shall be Total Price (of all the items including applicable taxes & duties) worked out after considering discrepancies, if any.
- 3.4.4 In case of tie in the Evaluated Total Price quoted by the bidders, the Purchaser reserves the right to decide the ranking of the price bids based on the price of Lab Equipments quoted by the Bidder.

4 PART-IV: AWARD OF CONTRACT

4.1 L-1 BIDDER

- 4.1.1 On completion of evaluation process of Price bids, the firm whose Evaluated total Price package wise is found to be the lowest would be the L-1 bidder. The bidder has to quote for all the items included for that particular package. The Purchaser will determine to its satisfaction whether the Bidder that is selected as having submitted the lowest evaluated responsive bid meets the criteria specified in Clause 1.2.12 and is qualified to perform the contract satisfactorily.

4.2 LETTER OF AWARD (LoA)

- 4.2.1 The L-1 bidder will be considered for issuing Letter of Award (LoA) package wise in accordance with Bidding document.
- 4.2.2 The acceptance of the LoA along with performance security deposit shall be submitted within (21) Twenty One days from issue of LoA, failing which the Purchaser reserves the right to cancel the LoA.

4.3 PERFORMANCE SECURITY

- 4.3.1 A Performance Security in form of bank guarantee from any Commercial Bank (as per Annexure-X) of a value equal to 10% of the total awarded value as indicated in the Letter of Award shall be deposited by the bidder within (21) Twenty One days from issue of Letter of Award.

4.3.2 The Performance Security shall be valid for a period of **Sixty Six months** from the date of signing of the contract.

4.3.3 The proceeds of the performance security shall be payable to the Purchaser as compensation for any loss resulting from the Supplier's failure to complete its obligations under the Contract.

4.3.4 The Performance Security shall be denominated in Indian Rupees, The performance security will be discharged by the Purchaser and returned to the Supplier not later than 30 days following the date of completion of the Supplier's performance obligations, including any warranty obligations under the contract and upon the supplier submitting a bank guarantee for a value

4.3.5 Failure to provide 5 year comprehensive onsite warranty in the period specified above will constitute sufficient ground for forfeiture of the performance guarantee.

4.4 SIGNING OF CONTRACT

4.4.1 The successful bidder shall be required to enter into a contract as per Annexure-XIII with Purchaser within Twenty One days (21) working days from issue of the Letter of Award on submission of the Performance Security as mentioned in clause 4.3.

4.5 SUB-CONTRACTING

4.5.1 The supplier shall not assign, in whole or in part, its obligations to perform under the contract, to other firm except with the Purchaser's prior written consent.

5 PART-V: DELIVERY & PAYMENT

5.1 TERMS OF EXECUTION

5.1.1 The Supplier shall deliver, install and commission all the items mentioned in the Letter of Award within 2 months from the date of issuance of the Letter of Award. However, the Purchaser reserves the right to extend this timeline.

5.1.2 The Supplier shall submit Warranty Certificate(s) from OEM for all the Equipments for a period of **Five (5) years** from the date of installation, commissioning.

5.1.3 The Supplier shall provide onsite service support during warranty period as per the Contract.

5.2 LOCATIONS TO BE COVERED

5.2.1 The delivery of Lab Equipments is to be done as per the address mentioned in the Letter of Award. However, the Supply, Installation, Testing, Commissioning and Training, during the warranty period, of the items are to be done at specified Lab located at DBRAIT Campus, Pahargaon, Port Blair.

5.3 DELAYS IN THE SUPPLIER'S PERFORMANCE

5.3.1 Delivery of the goods and performance of the Services shall be made by the supplier in accordance with the time schedule specified in the Letter of Award. Any delay in performing the obligation by the supplier will attract liquidated damages and/or termination of contract.

5.4 LIQUIDATED DAMAGES (LD)

5.4.1 Notwithstanding the Purchaser's right to cancel the order, liquidated damages at @0.5% of the contract value per week, will be charged for every week's delay in delivery subject to maximum 5% of the contract value.

5.4.2 In case the amount of LD reaches the maximum limit of 5% as specified above, the Purchaser reserves the right to terminate the contract.

5.4.3 Delivery means complete delivery of all the ordered equipment including accessories, software's media, documentation etc. Date on which last item is delivered will be considered as delivery date for the purpose of LD calculation.

5.4.4 Part of week will be treated as a week for this purpose.

5.4.5 However, the Purchaser may, at its discretion, waive the liquidated damages in case the delay is not attributable to the Bidder.

5.5 ORDER CANCELLATION

5.5.1 If the Bidder fails to deliver and/or install & commission the equipment as per specifications within the stipulated time schedule or the extended date communicated by the Purchaser, if any, it will be treated as breach of contract.

5.5.2 The Purchaser reserves the right to cancel the order in the event of breach of contract.

5.5.3 The Bidder may terminate the contract in case of non-resolution of dispute through Arbitration with reference to payment by giving a notice of three months.

5.6 PAYMENT TERMS

- 5.6.1 No advance payment will be made against Letter of Award.
- 5.6.2 80% of the contract value will be released after receipt of all the items mentioned in LoA. The liquidated Damages, if any, will be deducted from this payable amount, i.e. 80% of the contract value. The payment will be made against delivery challans, invoices submitted to the Purchaser and inspection report, if any.
- 5.6.3 Remaining 20% of the contract value will be released after successful Installation, Testing, Commissioning and Training and acceptance by the purchaser of all the items mentioned in LoA.

6 PART-VI: GENERAL CONDITIONS OF CONTRACT

6.1 DEFINITIONS

- 6.1.1 'Purchaser' means **Dr. B.R. Ambedkar Institute of Technology, Port Blair.**
- 6.1.2 'Purchaser Offices' means **Dr. B.R. Ambedkar Institute of Technology, Pahargaon, Port Blair-744103.**
- 6.1.3 'Bidder' means OEM/Authorized Representative/Channel partner/Dealer.
- 6.1.4 'Supplier' means the person, private or government entity, or a combination of the above, whose bid to perform the Contract has been accepted by the Purchaser and is named as such in the Contract Agreement.
- 6.1.5 'Contract Value' means the total amount as per the Letter of Award.
- 6.1.6 'Deadline' means the last date & time.
- 6.1.7 'Corrupt Practice' means the offering, giving, receiving or soliciting of anything of value to influence the action of a public official in the bidding process or in contract execution.
- 6.1.8 'Fraudulent Practice' means a misrepresentation or omission of facts in order to influence a bidding process or the execution of a contract to the detriment of the Purchaser, and includes collusive practice among Bidders (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the Purchaser of the benefits of free and open competition.
- 6.1.9 'Collusive Practice' means a scheme or arrangement between two or more Bidders, with or without the knowledge of the Purchaser, designed to establish bid price at artificial, non-competitive levels.

6.1.10 'Coercive Practice' means harming or threatening to harm, directly or indirectly, person or their property to influence their participation in the tendering process or affect the execution of a contract.

6.1.11 'Undesirable Practice' means establishing contact with any person connected with or employed by the Authority with the objective of canvassing, lobbying or in any manner influencing or attempting to influence the bidding process.

6.1.12 'Restrictive Practice' means forming a cartel or arriving at any understanding or arrangement among Bidders with the objective of restricting or manipulating a full and fair competition in the bidding process.

6.2 COST OF BIDDING

6.2.1 The Bidder shall bear all the costs associated with the preparation and submission of its bid and the Purchaser, will in no case be responsible or liable for these costs, regardless of the conduct or outcome of the bidding process.

6.3 GOVERNING LANGUAGE

6.3.1 The Bid, as well as all correspondences and documents relating to the bid exchanged by the Bidder and the Purchaser, shall be in English language only. Supporting documents and printed literature, if not in English language, that are part of the Bid document shall be accompanied with a self-certified copy of English translation of the same.

6.4 RIGHT TO ALTER QUANTITIES

6.4.1 The Purchaser reserves the right to reduce or increase the quantity to be purchased on the terms and conditions of this Bid document. (*increase or decrease by up to 15 percent the quantity of goods and services originally specified in the Price Bid (rounded off to the next whole number) without any change in unit price or other terms and conditions*)

6.5 CLARIFICATIONS OF BIDS

6.5.1 To assist in the examination, evaluation and comparison of bids the purchaser may, at its discretion, ask the bidder for clarification and response shall be in writing through e-mail or fax no later than 15 days prior to the deadline for submission of bids prescribed by the purchaser. Response/clarification shall be submitted by authorized signatory only. In case the bidder fails to submit the desired information/clarification sought by the Purchaser within stipulated time, further evaluation of the bid will not be carried out and the Purchaser reserves the right to reject the bid.

6.6 CONTACTING THE PURCHASER

6.6.1 Any clarification / query related to the Bidding document may be addressed to Principal, DBRAIT in writing through e-mail as per the details given in clause 6.6.1 under SCC.

6.6.2 Any effort by bidder to influence the purchaser in the purchaser's bid evaluation, bid comparison or contract award decision may result in the rejection of the Bidders' bid.

6.7 PURCHASER'S RIGHT TO ACCEPT OR REJECT ANY BID OR ALL BIDS

6.7.1 The purchaser reserves the right to accept or reject any bid and/or annul the bidding process and /or reject all bids, without assigning any reason thereof, at any time prior to award of contract and without there by incurring any liability to the affected bidder or bidders or any obligation to inform the affected bidder or bidders of the ground for the purchaser's action.

6.8 INSPECTION & TEST

6.8.1 Purchaser reserves the right to carry out pre-delivery inspection at Bidder's factory / warehouse. The Bidder shall keep the equipment ready for inspection and shall provide all assistance for inspection. There shall not be any additional charges for such inspection.

6.8.2 In case of receipt of any damaged item, the same shall be replaced by Supplier with a new one at no cost to the purchaser. The replaced item shall be supplied immediately so that its installation & commissioning and acceptance is completed within the time schedule as per clause 5.1.1, failing which Liquidity Damage, as per clause 5.4, shall be imposed.

6.8.3 At the time of installation, inspection of Lab Equipments shall be carried out by the Purchaser for meeting the functional performance in accordance with the technical specifications. The Lab Equipments non-conforming to the same shall be replaced / rectified by the Supplier to the Purchaser's satisfaction.

6.8.4 The Purchaser shall have right to reject all the Lab Equipments supplied in case of non-satisfactory performance in more than 10 % of the ordered quantity of Equipments and the contract shall be terminated.

6.9 PAYMENT CONDITIONS

6.9.1 The payment shall be made after completion of supply, installation, commissioning as per clause 5.6 subject to deduction of liquidated Damages, if any, as per clause 5.4.

6.10 USE OF CONTRACT DOCUMENTS AND INFORMATION

6.10.1 The supplier shall not, without the purchaser's prior written consent, make use of any document or information provided by purchaser in Bid document or otherwise except for purposes of performing contract, if any.

6.11 PATENTS RIGHTS

6.11.1 The supplier shall indemnify the purchaser against all third party claims of infringement of patent, trademark or industrial design rights arising from use of the Goods, or any part thereof in India.

6.11.2 The supplier shall, at their own expense, defend and indemnify the Purchaser against all third party claims or infringement of intellectual Property Right, including Patent, trademark, copyright, trade secret or industrial design rights arising from use of the products or any part thereof in India or abroad.

6.11.3 The supplier shall expeditiously extinguish any such claims and shall have full rights to defend it there from. If the Purchaser is required to pay compensation to a third party resulting from such infringement, the supplier shall be fully responsible for, including all expenses and court and legal fees.

6.11.4 The Purchaser will give notice to the Supplier of any such claim without delay, provide reasonable assistance to the Supplier in disposing of the claim, and shall at no time admit to any liability for or express any intent to settle the claim.

6.11.5 The Supplier shall grant to the Purchaser a fully paid-up, irrevocable, nonexclusive license throughout the territory of India or abroad to access, replicate and use software (and other software items) provided by the supplier, including-all inventions, designs and marks embodied therein in perpetuity.

6.12 TERMINATION OF CONTRACT

6.12.1 The Purchaser, without prejudice to any other remedy for breach of Contract, by giving two weeks written notice to the Supplier, may terminate this Contract in whole or in part, if the Supplier fails to perform any obligation(s) under the Contract.

6.12.2 The Purchaser may at any time terminate the Contract by giving written notice to the Supplier, if the Supplier becomes bankrupt or otherwise insolvent. In this event, termination will be without compensation to the Supplier, provided that such termination will not prejudice or affect any right of action or remedy, which has accrued or will accrue thereafter to the Purchaser.

6.12.3 In case of the Termination of the Contract, the Performance Security submitted by the supplier shall be encashed by the Purchaser.

6.13 FORCE MAJEURE

6.13.1 Notwithstanding the above provisions, the Successful bidder shall not be liable for penalty or termination for contract 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 event of Force Majeure. For purposes of this clause, "Force Majeure" means an event beyond the control of the Bidder and not involving the Bidder's fault or negligence and not foreseeable. Such events may include, but are not restricted to the following:

- a. war (whether declared or not), hostilities, invasion, acts of foreign enemies, rebellion, revolution, insurrection of military or usurped power, or civil war;
- b. act of any political or religious incidence;
- c. acts of terrorism; or
- d. riots, civil commotion or disorder, industry wide strike.

6.13.2 If a Force Majeure situation arises, the Bidder shall promptly notify the Purchaser in writing of such condition and the cause thereof. Unless otherwise directed by the Purchaser in writing, the Bidder shall continue to perform its obligations under the Contract.

6.14 GOVERNING LAW AND DISPUTES

6.14.1 The Purchaser and the Supplier shall make every effort to resolve amicably by direct informal negotiations, any disagreement or disputes, arising between them under or in connection with the Contract.

6.14.2 If, after Thirty (30) days from the commencement of such direct informal negotiations, the Purchaser and the Supplier have been unable to resolve amicably a Contract dispute, either party may require that the dispute be referred for resolution to the formal mechanism specified in Clauses 6.14.3 and 6.14.4.

6.14.3 In the case of a dispute or difference arising between the Purchaser and the supplier relating to any matter arising out of or connected with this Contract, such dispute or difference shall be referred to the award of two Arbitrators having relevant technical background, one Arbitrator to be nominated by the Purchaser and the other to be nominated by the Supplier or in case of the said Arbitrators not agreeing, then to the award of an Umpire to be appointed by the Arbitrators in writing before proceeding with the reference, and in case the Arbitrators

cannot agree to the Umpire, he may be nominated by the Secretary, Indian Council of Arbitration, New Delhi. The award of the Arbitrators, and in the event of their not agreeing, of the Umpire appointed by them or by the Secretary, Indian Council of Arbitration, New Delhi shall be final and binding on the parties.

6.14.4 The Arbitration & Conciliation Act 1996, the rules there under and any statutory modification or re-enactments thereof, shall apply to the arbitration proceedings.

6.14.5 The venue of the arbitration shall be Port Blair, Andaman & Nicobar Islands.

6.14.6 During the arbitration proceedings the Supplier shall continue to work under the Contract unless otherwise directed in writing by the Purchaser or unless the matter is such that the work cannot possibly be continued until the decision of the arbitrator or the umpire, as the case may be, is obtained.

6.14.7 The Purchaser may terminate this contract, by giving a written notice of termination of minimum 30 days, to the Supplier, if the Supplier fails to comply with any decision reached consequent upon arbitration proceedings pursuant to Clause 6.13.

6.15 STANDARDS OF PERFORMANCE

6.15.1 The Performance Security shall be submitted as per clause 4.3.

6.15.2 The Supplier shall perform all the obligations to maintain the equipment during the warranty period as per clause 1.3.2.

6.15.3 The Supplier shall perform the Services and carry out its obligations under the Contract with due diligence, efficiency and economy, in accordance with generally accepted standard & procedures, techniques and practices used in the industry. It shall employ prudent technical and engineering practices. It shall employ advanced and latest technology and safe and effective equipment, machinery, material and methods. The Supplier shall always act, in respect of any matter relating to this Contract, as faithful advisors to the Purchaser and shall, at all times, support and safeguard the Purchaser's legitimate interests in any dealings with Third Parties.

6.16 TERMS & CONDITIONS FOR MSME

6.16.1 In compliance of Public Procurement Policy for Micro and Small Enterprises (MSEs) Order 2012, purchase preference

shall be given to Micro and Small Enterprises (MSEs) registered with District Industries Centers or Khadi and Village Industries Commission or Khadi and Village Industries Board or Coir Board or National Small Industries Corporation or Directorate of Handicrafts and Handloom or consortia of Micro and Small Enterprises formed by National Small Industries Corporation, if the price quoted by the MSEs is within 15% of L-1 price (L-1 price means Landed Lowest price) quoted by any other bidder, for the tendered items for which they are the L-1.

- 6.16.2 Purchase preference shall be applicable for the 20% of the tendered quantities only provided L-1 bidder is not MSE and the MSEs accept the- 1 price.
- 6.16.3 In case of an MSEs is the L-1 bidder for an item, the 100% tendered quantities shall be placed an order to MSEs firm.
- 6.16.4 In case of an MSE owned by SC/ST and price quoted is within 15% of theL-1 price quoted by the L-bidder then 20% quantity shall be ordered on them at L-1 rate, subject to their acceptance.
- 6.16.5 In case of more than one MSEs participates in the tender and their prices are within 15% of L- 1 price and L-1 bidder is an enterprise other than MSEs then 20% of the tendered quantities shall be shared proportionately between participating MSEs on their acceptance of L- 1 price.
- 6.16.6 In case of more than one MSEs participates in tender and their prices are within 15% of L- 1 bidder price who is not a MSEs and one of the MSEs is owned by SC or ST then 4% tendered quantities or say 20% of the 20%tendered quantities shall be procured from MSEs owned by SC or Entrepreneurs exclusively subject to their acceptance of L-1 price in addition to sharing of equal portion of balance of 16% with other non-SC/ST owned MSEs subject to their acceptance of L-1.
- 6.16.7 In case of more than one MSEs owned by SC or ST then 4% tendered quantities or say 20% of the 20% tendered quantity shall be procured from these MSEs owned by SC or ST entrepreneurs exclusively subject to their acceptance.

6.17 CORRUPT AND FRAUDULENT PRACTICES

6.17.1 The Bank requires that Borrowers (including beneficiaries of Bank loans), as well as Bidders, Suppliers, Contractors, and Consultants under Bank-financed contracts, observe the highest standard of ethics during the procurement and execution of such contracts. In pursuit of this policy, the Bank:

- (a) defines, for the purposes of this provision, the terms set forth below as follows:

(i) “Corrupt practice” means the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence the action of a public official in the procurement process or in contract execution;

(ii) “fraudulent practice” means a misrepresentation or omission of facts in order to influence a procurement process or the execution of a contract

(iii) “collusive practice” means a scheme or arrangement between two or more Bidders, with or without the knowledge of the borrower, designed to establish bid prices at artificial, non-competitive levels
and

(iv) “coercive practice” means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the procurement process or affect the execution of a contract;

(b) will reject a proposal for award if it determines that the Bidder recommended for award has, directly or through an agent, engaged in corrupt, fraudulent, collusive or coercive practices in competing for the Contract in question;

(c) will cancel the portion of the loan allocated to a contract if it determines at any time that representatives of the Borrower or of a beneficiary of the loan engaged in corrupt, fraudulent, collusive or coercive practices during the procurement or the execution of that contract, without the Borrower having taken timely and appropriate action satisfactory to the Bank to remedy the situation;

(d) will sanction a firm or individual, including declaring them ineligible, either indefinitely or for a stated period of time, to be awarded a Bank-financed contract if it at any time determines that they have, directly or through an agent, engaged, in corrupt, fraudulent, collusive or coercive practices in competing for, or in executing, a Bank-financed contract; and

(e) will have the right to require that a provision be included in Bidding Documents and in contracts financed by a Bank loan, requiring Bidders, Suppliers, Contractors and Consultants to permit the Bank to inspect their accounts and records and other documents relating to the bid submission and contract performance and to have them audited by auditors appointed by the Bank

6.18 SPECIAL CONDITIONS OF CONTRACT

The following Special Conditions of Contract shall supplement the General Conditions of Contract (GCC).

Clause Ref. No.	SCC
6.1.1	The Purchaser is: Dr. B.R.Ambedkar Institute of Technology
6.1.2	The Project Site(s)/Final Destination(s) is/are: Purchaser's Offices
6.3.1	The language shall be: English
6.6.1	For notices, the Purchaser's address shall be: Attention: Principal Designation: Institute Project Director TEQIP-III Project Address: Dr. B.R.Ambedkar Institute of Technology, Pahargaon, Port Blair-744103 Telephone : 03192- 250587 FAX : 03192- 259225 e-mail address: dbragpt.and@nic.in e-mail address: andamanteqip3@gmail.com
6.13	The governing law shall be the law of India.
6.13	The rules of procedure for arbitration proceedings pursuant to Clause 6.13.
5.6	<ul style="list-style-type: none">i. 80% of the contract value will be released after receipt of all the items mentioned in LoA.ii. Remaining 20% of the contract value will be released after successful Installation, Testing, Commissioning and Training of Electronics and Communication Lab Equipments of all the items mentioned in LoA,iii. Payment will be made in Indian Rupees.iv. The liquidated damage shall be: 0.5% of the contract value per week.v. The maximum amount of liquidated damages shall be: 5% of the contract value.
6.15.1	<ul style="list-style-type: none">i. Performance Security shall be submitted for an amount equal to 10% of contract price.ii. Performance Security, in form of Bank Guarantee, shall be valid for a period of six months beyond the warranty period (60 months) from the date of signing of the Contract.
6.8	<ul style="list-style-type: none">i. Inspections shall be carried out as per clause 6.8.ii. Any action for replacement/rectification after the inspection shall promptly be taken by the supplier to the satisfaction of the Purchaser.
6.15.2	<ul style="list-style-type: none">i. The period of validity of the Warranty shall be Five years from date of installation & commissioning of the Equipments.

7 PART-VII: ANNEXURES**7.1 ANNEXURE-I : TECHNICAL SPECIFICATIONS****PACKAGE - I**

S.No	Items	Technical Specifications Required	Quantity Required
1	DIGITAL TRAINER	16 I/O, 7 segment , Manual Clock, On Board Pulse Generator with TTL/CMOS mode, Bread Board	10
2	PATTERN GENERATOR	frequency: upto 10 MHz, Waveforms: Sin, square and triangular, Variable Pulse width	5
3	HYGROMETER TRAINER	Humidity measurement using Hygrometer Trainer, Microcontrol based, Linear DC output Voltage for 0-100% RH, 2 On board Humidity Sensors	5
4	PHOTO ELECTRIC TACHOMETER	Range:0.5 to 100000 Rpm, High Visible LCD Display, Photo Tacho Meter, storing last, maximum and minimum value	5
5	DIGITAL MULTIMETER	DC Voltage:0.1 mV to 1000 V, AC voltage: 0.1mv to 750 V, DC current: 0.1 μ A to 20 A, AC current: 0.1 μ A to 20 A, Resistance: 0.1 Ω to 40M Ω , Capacitance: 10pF to 200 μ F, Frequency: 0.1Hz to 30 Mhz, True RMS	31
6	MULTIPLE POWER SUPPLY	3 independent DC supply Voltages: 0-30 V DC(variable) , 5 V DC (Fixed), +15and -15 Variable, Resolution: Voltage 100 mV, Current 10 mA, 3 digit for voltage and 3½ digit for current, LED indication for Voltage and Current, Over Range Indication	30
7	CRO	30 MHz, Dual Channel, invert facility in both Channels, Vertical Deflection coefficients : 5 mV to 20 V/div, Time Base: 20 ns -0.2 s/ div; Variable Hold- Off;	19
8	DIGITAL STORAGE OSCILLOSCOPE	200 MHz bandwidth model, Vertical range: 500 μ V/div ~ 10 V/div, 2 analog channels, Waveform capture rate: up to 50,000 wfms/s, Real time sample Rate:1 Gsa/s	5
9	SIGNAL GENERATOR	Frequency:25-60 Mhz, Sample Rate: 200 Msa/s, Built-in arbitrary waveform(including sine, square, Ramp, Pulse, Noise, Sinc, exponential etc)	5
10	FUNCTION GENERATOR	Frequency range: upto 10 MHz, Sin, square and triangular wave forms	17

PACKAGE - II

S.No	Items	Technical Specifications Required	Quantity Required
1	AM Transmitter SB/SSB AM TRANSMITTER-	Audio oscillator : With adjustable amplitude and frequency (100 Hz to 4 kHz) Audio output : amplifier with speakers, Balanced modulator with ceramic band Pass filter(1 MHz) oscillator controlled Balanced modulator:- 455 KHz	2
2	AM Receiver DSB/SSB AM Receiver	DSB/SSB AM Receiver – • Super heterodyne receiver • Frequency Range 500 KHz to 2000 KHz • Intermediate Frequency: 455 KHz	2
3	FM TX/RX Frequency Modulation and Demodulation Trainer	Frequency Modulation and Demodulation Trainer - • Inbuilt –Sine wave generators of Frequency 05-15 KHz • Inbuilt- crystal oscillator • Modulator-Reactance modulator/Varactor modulator • Demodulator:-Detuned Demodulator, Balanced Slope Detector, Foster Seeley and Ratio Detector ,Quadrature Detector, P LL (Phased Locked Loop) Detector	4
4	PPM/PWM/PAM KIT	Scope of Learning: Experiments based on • Pulse Amplitude Modulation(PAM) • Pulse Width Modulation(PWM) • Pulse position Modulation(PPM) The board should also have following inbuilt features: • Modulating signal generator • Pulse Generator(2 frequencies)	10
5	ANTENNA TRAINER KIT	Frequency Band-UHF microwave band, two tripods for mounting Transmitting and receiving antenna. Small antennas like different types of dipoles, yagi antenna, GP antenna, RF transmitter-frequency band in UHF, output impedance-75 ohms, RF Receiver-frequency band in UHF, input impedance -75 ohms, we should be able to perform various experiment on field strength, radiation pattern(directional/omni directional),	2

6	TDM TRAINER KIT	The board should also have following inbuilt features: • 2 sine wave generators of different frequencies • Inbuilt clock generator and sync signal generators • 2-Channel multiplexer to converge two signals into one. • Various sections like PAM sampler, Quantizer, A to D convertor and Shift register to convert sine wave into PCM wave. • Provision for adding check bits.	2
7	TDM TRAINER KIT (RECEIVER)	The board should also have following inbuilt features: • Clock and sync signal connector • 1 : 2 Channel de multiplexer to convert the multiplexed signal into two separate sine waves. • Provision for error detection. • Various sections like Shift register, Latch, D to A convertor, 2 no's of sample and hold circuits and low pass filters to get back the original sine waves received from the transmitter side.	2
8	DIGITAL COMMUNICATION TRAINER (TRANSMITTER)	Scope of Learning: Experiments based on • Amplitude shift keying (ASK) Modulation • Frequency shift keying (FSK) Modulation • Phase shift keying (PSK) Modulation • Various forms of coding techniques (NRZ,RZ,Bi-Polar) The board should also have switches to change combination of Data Input s(seven bit +one Frame Bit)	2
9	DIGITAL COMMUNICATION TRAINER (RECEIVER)	Scope of Learning: Experiments based on • Amplitude shift keying (ASK) Demodulation • Frequency shift keying (FSK) Demodulation • Phase shift keying (PSK) Demodulation	2
10	GSM MOBILE PHONE TRAINER KIT	• Gsm mobile phone trainer kit- -built in • Graphical user interface user mode. • At mode command facility. • External antenna • following experiment to be completed Scope of Learning: • Check network availability • manual and auto selection of network • carry at command in mobile. • External connector to interface with	4

		any micro controller. • USB interface for communication.	
11	TRANSMISSION LINE TRAINER	Scope of Learning: • Measuring the characteristics of a line • Measuring the attenuation of a line • Measuring the Input Impedance of the Line • Frequency characteristic of the line • Study of Stationary Waves • Line under Pulsed condition • Signal Phase shift along the line • Fault localization within the line	2
12	DELTA MODULATION	• Types of Modulator : DM and ADM • Types of Demodulator : DM and ADM • Amplifier : Op Amp Based • Supply Voltage (Board) : +12V, +5V / DC • Supply current : 100 mA (Minimum) • Input Voltage : 230 V/ 50 Hz AC	2
13	QPSK MODULATOR Quadrature Phase Shift Key modulation	Modulation & Demodulation Techniques : QPSK , OQPSK , DQPSK signals by 0°, 90°, 180°, and 270° phase shifts. The trainer contains the following sections: Two modulators 2- bit Serial to parallel convertor Carrier Generator	2
14	QAM MODULATOR Quadrature Amplitude modulation	Study of Quadrature Amplitude modulation. The trainer contains the following sections: • Onboard 24-bit variable NRZ-L pattern data simulator • Crystal oscillator • Onboard carrier sine waves • Onboard data clock	2
15	FDM TRAINER Frequency Division Multiplexer /De multiplexer	Two variable modulating (sinusoidal) input channels with provision of voice inputs • Two sets of audio input amplifier • Modulating input frequency 100 Hz to 15KHz • Inbuilt Crystal Frequency	2
16	FHSS/DSSS CDMA TRAINER	2 CHANNEL CDMA (DSSS&FHSS) TRAINER-Direct sequence and frequency hopping SS in the same module. The Understanding of CDMA multiplexer. • Built in parts required • On-board data generators and PRN sequence generators • BCD rotary switches for Data Selection	2

17	OPTICAL FIBER TRAINER KIT	Full Duplex Analog & Digital Trans-receiver, 660 nm & 950 nm Fiber Optic LED channel with Transmitter & Receiver, Modulation Techniques: AM, FM, PWM, Analog Bandwidth: 350 KHz , Digital Band Width : 2.5 MHz, Online Product Tutorial, Optical power meter.	5
18	TDM OPTICAL FIBER LINK	<ul style="list-style-type: none"> • Time Division Multiplexing • Fiber Optics Digital Transmitter and Receiver Module •Plastic Fiber cable 5 meter •Adapter +15V/ DC 	5
19	GMSK TRAINER	Modulations: GMSK, GFSK, MSK, CPFSK , Two channel Additive White Gaussian Noise Generator, Software programmable data rate: 10-30 MBPS, Gaussian Filter BT product :0.3, On-board digital data pattern generator.	5
20	DSSS/FHSS KIT	FPGA based Implementation of the CDMA Techniques, Technique Selection Sliding Switch Slow/Fast Selection Sliding Switches, 8MHz Crystal oscillator, Scope of Learning: CDMA(DSSS & FSSS Modulation and Demodulation) Technique, BPSK Modulation and Demodulation	5

PACKAGE - III

S.No	Items	Technical Specifications Required	Quantity Required
1	NI ELVIS	Hardware bundle with required accessories and cables, power supply	1
2	NI myDAQ	Virtual Instrumentation hardware bundle with required accessories and connectors (package of 10 units)	1
3	NI USB 6008	General purpose DAQ hardware bundle with required accessories and connectors (package of 5)	1
4	NI myRIO	Embedded System Design hardware bundle with required sensors (package of 5 units)	1
5	NI USRP	– SDR Bundle for Analog & Digital Communication Experimentation 0	1
6	NI PITSCO TETRIX	Robotics hardware Bundle with power supply and charger	1
7	NI ELVIS	NI ELVIS based Biomedical Instrumentation Hardware bundle with biomedical sensors package	1

8	NI Smart Camera	NI Smart Camera hardware bundle for Digital Image Processing with required accessories, lens, power supply.	1
9	ARDUINO UNO Specification	<ul style="list-style-type: none"> • Microcontroller: ATmega328P • Operating Voltage: 5V • Input Voltage (recommended): 7-12V • Input Voltage (limit): 6-20V • Digital I/O Pins: 14 (of which 6 provide PWM output) • PWM Digital I/O Pins: 6 • Analog Input Pins: 6 • DC Current per I/O Pin: 20 mA • DC current for 3.3V Pin: 50 mA • Flash Memory: 32 KB (ATmega328P) of which 0.5 KB used by boot loader • SRAM: 2 KB (ATmega328P) • EEPROM: 1 KB (ATmega328P) • Clock Speed: 16 MHz • LED_BUILTIN: 13 	10
10	Chronos development module - Embedded	eZ430-Chronos-915 RF operating Frequency-915 MHz	10
11	Bluetooth Development Module	Bluetooth Version Bluetooth 2.1 + EDR Supply Voltage Min 3V Supply Voltage Max 3.6V Signal Range Max 20m Data Rate 921Kbps Bluetooth Class Class 2 Receive Sensitivity -80dBm Operating Temperature Min -40°C Operating Temperature Max 85°C	10
12	RF Development Modules	RF Modulation FM Data Rate Max1.22Kbps, Frequency Max434.79MHz, Sensitivity dBm-112dBm Supply Voltage Min1.8V, Supply Voltage Max3.6V, Transmit Power10dBm, Module Interface Serial, Supply Current15mA	10
13	Zigbee development modules	USB & RS-232 Interface Board	10
14	Digital Signal Processing Trainer – Signal/Speech/Image Application	Development Boards & Kits - TMS320 EZDSP KIT W SOCKET TMS320F2812 W/ FUZZY	1
15	Development Boards & Kits	ADZS-BF707-EZBRD Development Boards & Kits - Other Processors EZ Board for ADSP-BF707 Processor	2
16	DSP-BF706	Analog Devices ADZS-BF706-EZMINI	2

Blackfin Processor	Evaluation Board	<ul style="list-style-type: none"> • DSP-BF706 Blackfin Processor • 400MHz/800 MMACs performance at <100mW • 1160kB on-chip SRAM (136kB L1, 1MB L2) • 88-lead LFCSP (QFN) package • Small form factor: 4in×2in (10cm×5cm) • 4MB quad SPI flash • ADAU1761 SigmaDSP® low-power stereo audio codec <ul style="list-style-type: none"> o Line-in and headphone jacks o Direct USB 2.0 HS PHY interface to ADSP-BF706 o External connections for EPPI0, SPORT, SPI, I²C, timer, and GPIOs o On-board debug agent (JTAG/SWD) via separate USB interface • Other features • USB bus powered • Push buttons and LEDs • Boot mode strapped to SPI master • Resistors for processor current measurement • Arduino Uno R3 connection compatibility • CrossCore® embedded studio software tools • Full-featured development suite and board support package • Complete real-time debug capability included • Full-featured one-year evaluation license • Complete code examples and demos including: <ul style="list-style-type: none"> • Audio processing from DSP Concepts 	
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PACKAGE - IV

S.No	Items	Technical Specifications Required	Quantity Required
1	Thermistor Sensor	Thermistor Accuracy temperature sensor 10k 1% 3950 Waterproof Prob	10
2	Strain Sensors	Static and dynamic applications - Accuracy: 0, 3% - Sensibility: 2 mV/V .	10
3	Force Sensor	Load Capacity 1500g Supply Voltage 10VDC, Operating Temperature Min, -40°C Operating Temperature Max 85°C	10
4	Pressure sensor	Operating Pressure Max 100psi Sensor Output Voltage Pressure Measurement Type Gauge Voltage Rating 5VDC	10

5	Proximity sensor	Sensing Range Max 4mm Thread Size - Metric M12 Supply Voltage DC Min 12V Sensor Output PNP Supply Voltage DC Max 30V	10
6	Motion sensor	Infrared middle type 700mm 5.5 to 27 vdc,npn	10
7	BLDC Motor	BLDC Hub Motor - 24V, 9A, 215 W, 4500 RPM (Max) BLDC	20
8	Thermal Imager	Thermal Sensitivity 0.05 @ 30 Temperature Measurement Range -20 +1200 C Best Temperature Measurement Accuracy 2 C Spatial Resolution IFOV 1.31mrad Field of View H x V 24 x 17 Maximum Temperature Measurement +1200 C Refresh Rate 9Hz Image Enhancement IR-Fusion Minimum Focus Distance 15cm Focus Type Automatic, Manual Detector Resolution 320 x 240pixel Visual Camera Yes,Accuracy 2 %, 2 Display Size 3.5in, Minimum Focus 15 cm Image Storage SD Card,Interface Type USB Display Resolution 640 x 480pixel Voice Recorder Yes,Application Thermography Radiometric Video on Camera Yes Other Built-in Measurements Distance Auto Capture on Camera Yes,Field of View 24 x 17,Battery Level Indicator Yes, Horizontal Detector Resolution 240pixel Storage Media SD Card Vertical Display Resolution 640pixel Emissivity 0.1 1	1
9	THERMOCOUPLES	K STAINLESS STEEL	5
PACKAGE - V			
S.No	Item	Technical Specifications Required	Quantity Required
1	Vector Network Analyzer 8 GHz	Number of test ports:2-4, Frequency range: 10-60 GHz, Max. number of internal sources:4, Measurement bandwidths: upto 30 Mhz.	1

Signature & Seal of the Bidder

7.2 ANNEXURE-II: BID ACCEPTANCE LETTER

(To be given on Company Letter Head)

Date:

To

The Principal
Dr. B.R.Ambedkar Institute of Technology
Pahargaon
Port Blair-744103

Dear Sir,

1. I/ We have downloaded / obtained the Bid Document(s) for the abovementioned 'Bid' from the web site(s) namely: <https://eproc.andaman.gov.in/> as per your advertisement, given in the above mentioned website(s).
2. I / We hereby certify that I / we have read the entire terms and conditions of the Bid Documents from Page No. _____ to _____ (including all documents like annexure(s), etc.), which form part of the contract agreement and I / we shall abide hereby by the terms / conditions / clauses contained therein.
3. The corrigendum(s) issued from time to time by your department/organization too have also been taken into consideration, while submitting this acceptance letter.
4. I / We hereby unconditionally accept the Bid conditions of above mentioned Bid document(s) / corrigendum(s) in its totality / entirety.
5. I / We do hereby declare that our Firm has not been blacklisted/ debarred by any Govt. Department/Public sector undertaking.
6. I / We certify that all information furnished by the our Firm is true & correct and in the event that the information is found to be incorrect/untrue or found violated, then your department/ organisation shall without giving any notice or reason therefore or summarily reject the bid or terminate the contract, without prejudice to any other rights or remedy including the forfeiture of the full said Bid Security deposit absolutely.

Yours faithfully,
(Signature & Seal of the Bidder)

7.3 ANNEXURE-III: PRE QUALIFICATION DOCUMENTS

The minimum qualifying requirements for the bidders are as under: -

Pre-Qualification Requirement	Compliance (Yes/No)	Detail of proof Attached
Letter of Authorization for participating in this Bid from OEM/Authorized Representative/ Channel Partner/Dealer (as per clause 1.2.2)		
Proof of being engaged in supply of Electronics and communication in India at least for last five years (as per clause 1.2.3)		
Proof of having minimum Annual turnover of Rs. 2.00 Crore (for OEM) /Rs. 1.5 Crore (for OEM/Authorized Representative/ Channel Partner/Dealer) from sales in India in each of last three financial years (as per clause 1.2.4)		
Proof of Net Profit after tax in each of the last three financial year (as per clause 1.2.5)		
Proof of successful completion of Supply, Installation, Testing, Commissioning and Training of Electronics & Communication Lab Equipments PSUs during last two years (as per clause 1.2.6).		
Undertaking for not being blacklisted by any of Government /PSU on the letter head (as per clause 1.2.7).		
Details of GST/PAN/Bank Account Number (as per clause 1.2.8).		

Signature & Seal of the Bidder

7.4 ANNEXURE-IV: BIDDER INFORMATION

1. Name of the Bidding firm		
2. Full Address & Contact Details of the firm		
3. Name of the Authorized Signatory for this Bid		
4. Bidder's proposal number and date		
5. Name & address of the person to whom all references shall be made regarding this tender:		
(a) Telephone		
(b) Fax No.		
(c) E-mail		
(d) Mobile		
Bidder		
Signature of the Authorized Signatory		
Name:		
Designation:		
Date:		
Company Seal:		
WITNESSES		
	Witness 1	Witness 2
Signature:		
Name:		
Address:		
Date:		

7.5 ANNEXURE-V: COMPLIANCE SHEET FOR SPECIFICATIONS

S.No	Items	Specifications Required	Specifications Offered	Comply (Y/N)
PACKAGE - I				
1	DIGITAL TRAINER	16 I/O, 7 segment , Manual Clock, On Board Pulse Generator with TTL/CMOS mode, Bread Board		
2	PATTERN GENERATOR	frequency: upto 10 MHz, Waveforms: Sin, square and triangular, Variable Pulse width		
3	HYGROMETER TRAINER	Humidity measurement using Hygrometer Trainer, Microcontrol based, Linear DC output Voltage for 0-100% RH, 2 On board Humidity Sensors		
4	PHOTO ELECTRIC TACHOMETER	Range:0.5 to 100000 Rpm, High Visible LCD Display, Photo Tacho Meter, storing last, maximum and minimum value		
5	DIGITAL MULTIMETER	DC Voltage:0.1 mV to 1000 V, AC volatge: 0.1mv to 750 V, DC current: 0.1μA to 20 A, AC current: 0.1μA to 20 A, Resistance: 0.1Ω to 40MΩ, Cpacitance: 10pF to 200μF, Frequency: 0.1Hz to 30 Mhz, True RMS		
6	MULTIPLE POWER SUPPLY	3 independent DC supply Voltages: 0-30 V DC(variable) , 5 V DC (Fixed), +15and -15 Variable, Resolution: Voltage 100 mV, Current 10 mA, 3 digit for voltage and 3½ digit for current, LED indication for Voltage and Current, Over Range Indication		
7	CRO	30 MHz, Dual Channel, nvert facility in both Channels, Vertical Deflection coefficients : 5 mV to 20 V/div, Time Base: 20 ns -0.2 s/ div;		

		Variable Hold- Off;		
8	DIGITAL STORAGE OSCILLOSCOPE	200 MHz bandwidth model, Vertical range: 500 μ V/div ~ 10 V/div, 2 analog channels, Waveform capture rate: up to 50,000 wfms/s, Real time sample Rate:1 Gsa/s		
9	SIGNAL GENERATOR	Frequency:25-60 Mhz, Sample Rate: 200 Msa/s, Built-in arbitrary waveform(including sine, square, Ramp, Pulse, Noise, Sinc, exponential etc)		
10	FUNCTION GENERATOR	Frequency range: upto 10 MHz, Sin, square and triangular wave forms		
PACKAGE - II				
1	AM Transmitter SB/SSB AM TRANSMITTER	Audio oscillator : With adjustable amplitude and frequency (100 Hz to 4 kHz) ,Audio output : amplifier with speakers, Balanced modulator with ceramic band Pass filter(1 MHz) oscillator controlled Balanced modulator:- 455 KHz		
2	AM Receiver DSB/SSB AM Receiver	DSB/SSB AM Receiver – • Super heterodyne receiver • Frequency Range 500 KHz to 2000 KHz • Intermediate Frequency: 455 KHz		
3	FM TX/RX Frequency Modulation and Demodulation Trainer	Frequency Modulation and Demodulation Trainer - Ø Inbuilt –Sine wave generators of Frequency 05-15 KHz Ø Inbuilt- crystal oscillator Ø Modulator-Reactance modulator/Varactor modulator Ø Demodulator:-Detuned Demodulator, Balanced Slope Detector, Foster Seeley and Ratio Detector ,Quadrature Detector, P LL (Phased Locked Loop) Detector		
4	PPM/PWM/PAM KIT	Scope of Learning: Experiments based on		

		<ul style="list-style-type: none"> • Pulse Amplitude Modulation(PAM) • Pulse Width Modulation(PWM) • Pulse position Modulation(PPM) <p>The board should also have following inbuilt features:</p> <ul style="list-style-type: none"> • Modulating signal generator • Pulse Generator(2 frequencies) 		
5	ANTENNA TRAINER KIT	<p>Frequency Band-UHF microwave band, two tripods for mounting</p> <p>Transmitting and receiving antenna. Small antennas like different types of dipoles, yagi antenna, GP antenna, RF transmitter-frequency band in UHF, output impedance-75 ohms, RF Receiver-frequency band in UHF, input impedance -75 ohms, we should be able to perform various experiment on field strength, radiation pattern(directional/omni directional),</p>		
6	TDM TRAINER KIT	<p>The board should also have following inbuilt features:Ø 2 sine wave generators of different frequenciesØ Inbuilt clock generator and sync signal generatorsØ 2-Channel multiplexer to converge two signals into one.Ø Various sections like PAM sampler, Quantizer, A to D convertor and Shift register to convert sine wave into PCM wave.Ø Provision for adding check bits.</p>		
7	TDM TRAINER KIT (RECEIVER)	<p>The board should also have following inbuilt features:</p> <ul style="list-style-type: none"> •Clock and sync signal connector • 1 : 2 Channel DE 		

		<p>multiplexer to convert the multiplexed signal into two separate sine waves.</p> <ul style="list-style-type: none"> • Provision for error detection. • Various sections like Shift register, Latch, D to A convertor, 2 no's of sample and hold circuits and low pass filters to get back the original sine waves received from the transmitter side. 		
8	DIGITAL COMMUNICATION TRAINER (TRANSMITTER)	<p>Scope of Learning: Experiments based on</p> <ul style="list-style-type: none"> • Amplitude shift keying (ASK) Modulation • Frequency shift keying (FSK) Modulation • Phase shift keying (PSK) Modulation • Various forms of coding techniques (NRZ,RZ,Bi-Polar) <p>The board should also have switches to change combination of Data Inputs (seven bit +one Frame Bit)</p>		
9	DIGITAL COMMUNICATION TRAINER (RECEIVER)	<p>Scope of Learning: Experiments based on</p> <ul style="list-style-type: none"> • Amplitude shift keying (ASK) Demodulation • Frequency shift keying (FSK) Demodulation • Phase shift keying (PSK) Demodulation 		
10	GSM MOBILE PHONE TRAINER KIT	<ul style="list-style-type: none"> • Gsm mobile phone trainer kit- built in • Graphical user interface user mode. • At mode command facility. • External antenna <p>Scope of Learning:</p> <ul style="list-style-type: none"> • Check network availability • manual and auto selection of network • carry at command in mobile. • External connector to interface with any micro controller. • USB interface for communication. 		
11	TRANSMISSION	Scope of Learning:		

	LINE TRAINER	<ul style="list-style-type: none"> • Measuring the characteristics of a line • Measuring the attenuation of a line • Measuring the Input Impedance of the Line • Frequency characteristic of the line • Study of Stationary Waves • Line under Pulsed condition • Signal Phase shift along the line • Fault localization within the line 		
12	DELTA MODULATION	<ul style="list-style-type: none"> • Types of Modulator : DM and ADM • Types of Demodulator : DM and ADM • Amplifier : Op Amp Based • Supply Voltage (Board) : +12V, +5V / DC • Supply current : 100 mA (Minimum) • Input Voltage : 230 V/ 50 Hz AC 		
13	QPSK MODULATOR Quadrature Phase Shift Key modulation	<p>Modulation & Demodulation Techniques: QPSK , OQPSK , DQPSK ,signals by 0°, 90°, 180°, and 270° phase shifts.</p> <p>The trainer contains the following sections: Two modulators 2- bit Serial to parallel convertor Carrier Generator</p>		
14	QAM MODULATOR Quadrature Amplitude modulation	<p>Study of Quadrature Amplitude modulation. The trainer contains the following sections:</p> <ul style="list-style-type: none"> • Onboard 24-bit variable NRZ-L pattern data simulator • Crystal oscillator • Onboard carrier sine waves • Onboard data clock 		
15	F D M TRAINER Frequency Division Multiplexer /Demultiplexer	<p>Two variable modulating (sinusoidal) input channels with provision of voice inputs</p> <ul style="list-style-type: none"> • Two sets of audio input amplifier • Modulating input frequency 		

		100 Hz to 15KHz • Inbuilt Crystal Frequency		
16	FHSS/DSSS CDMA TRAINER	2 CHANNEL CDMA (DSSS&FHSS) TRAINER- Direct sequence and frequency hopping SS in the same module. The Understanding of CDMA multiplexer. • Built in parts required • On-board data generators and PRN sequence generators • BCD rotary switches for Data Selection		
17	OPTICAL FIBER TRAINER KIT	Full Duplex Analog & Digital Trans-receiver, 660 nm & 950 nm Fiber Optic LED channel with Transmitter & Receiver, Modulation Techniques: AM, FM, PWM, Analog Band Width : 350 KHz , Digital Band Width : 2.5 MHz, Online Product Tutorial, Optical power meter.		
18	TDM OPTICAL FIBER LINK	• Time Division Multiplexing • Fiber Optics Digital Transmitter and Receiver Module • Plastic Fiber cable 5 meter • Adapter +15V/ DC		
19	GMSK TRAINER	Modulations: GMSK, GFSK, MSK, CPFSK , Two channel Additive White Gaussian Noise Generator, Software programmable data rate: 10-30 MBPS, Gaussian Filter BT product :0.3, On-board digital data pattern generator.		
20	DSSS/FHSS KIT	FPGA based Implementation of the CDMA Techniques, Technique Selection Sliding Switch Slow/Fast Selection Sliding, Switches, 8MHz Crystal oscillator, Scope of Learning: CDMA(DSSS & FSSS Modulation and Demodulation) Technique, BPSK Modulation and Demodulation		

PACKAGE - III

1	NI ELVIS	Hardware bundle with required accessories and cables, power supply		
2	NI myDAQ	Virtual Instrumentation hardware bundle with required accessories and connectors (package of 10 units)		
3	NI USB 6008	General purpose DAQ hardware bundle with required accessories and connectors (package of 5)		
4	NI myRIO	Embedded System Design hardware bundle with required sensors (package of 5 units)		
5	NI USRP	– SDR Bundle for Analog & Digital Communication Experimentation 0		
6	NI PITSCO TETRIX	Robotics hardware Bundle with power supply and charger		
7	NI ELVIS	NI ELVIS based Biomedical Instrumentation Hardware bundle with biomedical sensors package		
8	NI Smart Camera	NI Smart Camera hardware bundle for Digital Image Processing with required accessories, lens, power supply.		
9	ARDUINO UNO Specification	<ul style="list-style-type: none"> • Microcontroller: ATmega328P • Operating Voltage: 5V • Input Voltage (recommended): 7-12V • Inout Voltage (limit): 6-20V • Digital I/O Pins: 14 (of which 6 provide PWM output) • PWM Digital I/O Pins: 6 		

		<ul style="list-style-type: none"> • Analog Input Pins: 6 • DC Current per I/O Pin: 20 mA • DC current for 3.3V Pin: 50 mA • Flash Memory: 32 KB (ATmega328P) of which 0.5 KB used by boot loader • SRAM: 2 KB (ATmega328P) • EEPROM: 1 KB (ATmega328P) • Clock Speed: 16 MHz • LED BUILTIN: 13 		
10	Chronos development module - Embedded	eZ430-Chronos-915 RF operating Frequency-915 MHz		
11	Bluetooth Development Module	Bluetooth Version Bluetooth 2.1 + EDR Supply Voltage Min 3V,Supply Voltage Max 3.6V,Signal Range Max 20m,Data Rate 921Kbps,Bluetooth Class Class 2 Receive Sensitivity-80dBm Operating Temperature Min-40°C Operating Temperature Max 85°C		
12	RF Development Modules	RF Modulation FMData Rate Max1.22Kbps Frequency Max434.79MHz Sensitivity dBm-112dBm Supply Voltage Min1.8V Supply Voltage Max3.6V Transmit Power10dBm Module InterfaceSerial Supply Current15mA		
13	Zigbee development modules	USB & RS-232 Interface Board		
14	Digital Signal Processing Trainer – Signal/Speech/Image Application	Development Boards & Kits - TMS320 EZDSP KIT W SOCKET TMS320F2812 W/ FUZZY		
15	Development Boards & Kits	ADZS-BF707-EZBRD Development Boards &		

		Kits - Other Processors EZ Board for ADSP- BF707 Processor		
16	DSP-BF706 Blackfin Processor	<p>Analog Devices ADZS- BF706-EZMINI Evaluation Board</p> <ul style="list-style-type: none"> • DSP-BF706 Blackfin Processor <ul style="list-style-type: none"> o 400MHz/800 MMACs performance at <100mW o 1160kB on-chip SRAM (136kB L1, 1MB L2) • 88-lead LFCSP (QFN) package • Small form factor: 4in×2in (10cm×5cm) • 4MB quad SPI flash • ADAU1761 SigmaDSP® low-power stereo audio codec • Line-in and headphone jacks • Direct USB 2.0 HS PHY interface to ADSP- BF706 • External connections for EPPI0, SPORT, SPI, I²C, timer, and GPIOs • On-board debug agent (JTAG/SWD) via separate USB interface • Other features • USB bus powered • Push buttons and LEDs • Boot mode strapped to SPI master • Resistors for processor current measurement • Arduino Uno R3 connection compatibility • CrossCore® embedded studio software tools • Full-featured development suite and board support package • Complete real-time debug capability included • Full-featured one-year evaluation license 		

		<ul style="list-style-type: none"> • Complete code examples and demos including: • Audio processing from DSP Concepts 		
PACKAGE - IV				
1	Thermistor Sensor	Thermistor Accuracy temperature sensor 10k 1% 3950 Waterproof Prob		
2	Strain Sensors	Static and dynamic applications - Accuracy: 0, 3% - Sensibility: 2 mV/V .		
3	Force Sensor	Load Capacity 1500g Supply Voltage 10VDC Operating Temperature Min -40°C Operating Temperature Max 85°C		
4	Pressure sensor	Operating Pressure Max 100psi Sensor Output Voltage Pressure Measurement Type Gauge Voltage Rating 5VDC		
5	Proximity sensor	Sensing Range Max 4mm Thread Size - Metric M12 Supply Voltage DC Min 12V Sensor Output PNP Supply Voltage DC Max 30V		
6	Motion sensor	Infrared middle type 700mm 5.5 to 27 vdc, npn		
7	BLDC Motor	BLDC Hub Motor - 24V, 9A, 215 W, 4500 RPM (Max) BLDC		
8	Thermal Imager	Thermal Sensitivity 0.05 @ 30, Temperature Measurement Range -20 +1200 C Best Temperature Measurement Accuracy 2 C, Spatial Resolution IFOV 1.31 mrad Field of View H x V 24 x 17 Maximum Temperature		

		<p>Measurement +1200 C Refresh Rate 9Hz Image Enhancement IR-Fusion Minimum Focus Distance 15cm Focus Type Automatic, Manual Detector Resolution 320 x 240pixel Visual Camera Yes Accuracy 2 %, 2 C Display Size 3.5in Minimum Focus 15 cm Image Storage SD Card Interface Type USB Display Resolution 640 x 480pixel Voice Recorder Yes Application Thermography Radiometric Video on Camera Yes Other Built-in Measurements Distance Auto Capture on Camera Yes Field of View 24 x 17 Battery Level Indicator Yes Horizontal Detector Resolution 240pixel Storage Media SD Card Vertical Display Resolution 640pixel Emissivity 0.1 1</p>		
9	THERMOCOUPLES	K STAINLESS STEEL		
<u>PACKAGE - V</u>				
1	Vector Network Analyzer 8 GHz	<p>Number of test ports:2-4, Frequency range: 10-60 GHz, Max. number of internal sources:4, Measurement bandwidths: upto 30 Mhz.</p>		

Signature & Seal of the Bidder

7.6 ANNEXURE-VI: BILL OF QUANTITY

Sl. No.	Item Description	Quantity	Units	UNIT RATE In Figures (Inclusive of All Taxes & duties) To be entered by the Bidder (Rs.)	AMOUNT Inclusive of All Taxes& duties (Rs.)	Total Amount
A	B	C	D	E	F	G
1			Nos.			

1. The above mentioned Price bid format is provided as price.xls alongwith this tender document at <https://eproc.andaman.gov.in/>. Bidders are advised to download this price.xls as it is and quote their offer/rates in the permitted column and upload the same in the Price bid. Bidder shall not tamper/modify downloaded price bid template in any manner. In case if the same is found to be tempered/modified in any manner, tender will be completely rejected and Bid Security would be forfeited and tenderer is liable to be banned from doing business with the Purchaser.
2. The rates shall be quoted in Indian Rupee only.
3. The rates shall be inclusive of all taxes and duties. Any subsequent revision in the statutory taxes, fees, etc. shall be the responsibility of the Bidder.
4. The rates shall also include packing, insurance, forwarding, installation & commissioning charges.
5. In case of any discrepancy in the amounts indicated in figure and word the amount in word shall be considered for evaluation.
6. In case of any discrepancy in calculation of total amount, unit price quoted in words will be considered for computation.
7. The quoted rates shall remain firm throughout the validity period of the bid and no revision is permissible for any reason.
8. The Evaluated Total Price for the Bid shall be the total price worked out after considering discrepancies, if any and deducting the Buyback Price quoted by the bidder.

7.7 ANNEXURE-VII: LIST OF DEVIATIONS

(Please note that Purchaser will not evaluate any deviation mentioned elsewhere in the bid except as mentioned hereunder)

We certify that the systems/services offered by us for this Bid conforms to the specifications stipulated by you with the following deviations

List of deviations

Sl.No.	Deviation

Signature & Seal of the Bidder

(If left blank it will be construed that there is no deviation from the specifications given above)

7.8 ANNEXURE-VIII: DETAILS OF SERVICE CENTRE

Sl No.	Location of support office/ Spare Warehouse	No. of maintenance Engr./ Tech. staff in Service Centre	Telephone No. /Fax Number/ e-mail id	Type of Support Centre [OEM(O), ASP (A), Franchise (F)]

Signature & Seal of the Bidder

7.9 ANNEXURE-IX: DETAILS OF SUPPLY, TURNOVER & PROFIT

Work Experience (During last three year) (as per clause 1.2)

Name & Address of the Govt Org/PSUs	Order No. & Date	Items & Quantity	Value of the Order	Date of Completion	Attach Copy of the Award of Contract

Financial Details (as per clause 1.2)

Pre-Qualification Condition	Financial Year	Value (Rs. In Crore)
Supply of Electronics and communication Lab Equipments in India	2016-17 2017-18 2018-19	
Annual turnover from sales in India		
Net Profit after tax		

Signature & Seal of the Bidder

7.10 ANNEXURE-X: FORMAT OF PERFORMANCE SECURITY

To

Principal
Dr. B.R. Ambedkar Institute of Technology
Pahargaon
Port Blair-744103

Ref: _____ Date _____

Bank Guarantee No. _____

To

1. Against contract Acceptance of the Tender No: _____ covering _____ (herein after called the said 'contract') entered into between the President of India acting through The Principal, Dr. B.R. Ambedkar Institute of Technology, Pahargaon, Port Blair-744103 or its authorized representative (hereinafter called the Purchaser) and _____ (hereinafter called the Supplier) this is to certify that at the request of the Supplier we _____ Bank Ltd., are holding in trust in favour of the Purchaser, the amount of _____ (write the sum here in words) to indemnify and keep indemnified the Purchaser against any loss or damage that may be caused to or suffered by the Purchaser by reason of any breach by the Supplier of any of the terms and conditions of the said contract and/or in the performance thereof. We agree that the decision of the Purchaser, whether any breach of any of the terms and conditions of the said contract and/or in the performance thereof has been committed by the Supplier and the amount of loss or damage that has been caused or suffered by the Purchaser, shall be final and binding on us and the amount of the said loss or damage shall be paid by us forthwith on demand and without demur to the Purchaser.
2. We _____ Bank Ltd, further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for satisfactory performance and fulfillment in all respects of the said contract by the Supplier i.e., till _____ hereinafter called the said date and that if any claim accrues or arises against us _____ Bank Ltd, by virtue of this guarantee before the said date, the same shall be enforceable against us _____ Bank Ltd, notwithstanding the fact that the same is enforced within six months after the said date, provided that notice of any such claim has been given to us _____ Bank Ltd, by the Purchaser before the said date. Payment under this letter of guarantee shall be made promptly upon our receipt of notice to that effect from the Purchaser.

3. It is fully understood that this guarantee is effective from the date of the said contract and that we _____ Bank Ltd, undertake not to revoke this guarantee during its currency without the consent in writing of the Purchaser.
4. We undertake to pay to the Purchaser any money so demanded notwithstanding any dispute or disputes raised by the Supplier in any suit or proceeding pending before any court or Tribunal relating thereto, our liability under this present bond being absolute and unequivocal. The payment so made by us under this bond shall be a valid discharge of our liability for payment there under and the Supplier shall have no claim against us for making such payment.
5. We _____ Bank Ltd, further agree that the Purchaser shall have the fullest liberty, without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said contract or to extend time of performance by the Supplier from time to time or to postpone for any time or from time to time any of the powers exercisable by the Purchaser against the said Supplier and to forebear or enforce any of the terms and conditions relating to he said contract and we, _____ Bank Ltd., shall not be released from our liability under this guarantee by reason of any such variation or extension being granted to the said Supplier or for any forbearance by the Purchaser to the said Supplier or for any forbearance or omission on the part of the Purchaser or any other matter or thing what so ever, which under the law relating to sureties, would, but for this provision, have the effect of so releasing us from our liability under this guarantee.
6. This guarantee will not be discharged due to the change in the constitution of the Bank or the Supplier.

Place _____

Signature

Witness _____

Printed name _____
(Bank's common seal)

Date _____

7.11 ANNEXURE-XI: FORMAT OF BID SECURITY

(Sample Format – To be executed on a non-judicial stamped paper of requisite value)

To

The Principal
Dr. B.R.Ambedkar Institute of Technology,
Pahargaon
Port Blair-744103

Ref: _____ Date _____

Bank Guarantee No. _____

1. WHEREAS (Name of Bidder)(hereinafter called the ‘the Bidder’) has undertaken, in pursuance of the Bid(.....) for the “Supply, Installation and Commissioning, Testing and Training of Electronics and Communication Lab Equipments ” (description of Products and Services) (herein after called the ‘the Bid’)to you.
2. AND WHEREAS, it has been stipulated by you in the said Bid that the Bidder shall furnish you with a Bank Guarantee from a Commercial bank for the sum specified therein, as security for the Bid in accordance with the Bid.
3. AND WHEREAS we ----- <Bank> having its registered office at -----and inter alia a branch office situate at ----- have agreed to give a Bid Security of Rs.3,75,000.00 (Rupees Three Lakh Seventy Five Thousand Only) on behalf of the Bidder.
4. We ----- <Bank> further undertake not to revoke and make in effective the guarantee during it’s currency except with the previous consent of Dr. B.R.Ambedkar Institute of Technology (hereinafter called as the Purchaser).
5. We ----- <Bank> do hereby unconditionally and irrevocably undertake to pay to the Purchaser without any demur or protest, merely on demand from the Purchaser, an amount not exceeding Rs.3,75,000.00 (Rupees Three Lakh Seventy Five Thousand Only)by reason of any breach of the terms of the Bid dated ----- by Bidder. We here by agree that the decision of the Purchaser regarding breach of the terms of the Bid shall be final, conclusive and binding on us.
6. We do hereby guarantee and undertake to pay forthwith on demand to the Purchaser a sum not exceeding Rs.3,75,000.00 (Rupees Three Lakh Seventy Five Thousand Only)(amount of the Guarantee in words and figures) and we undertake to pay you upon your first written demand declaring the Bidder to be in default under the Bid and without cavil or

argument, any sum or sums within the limit of Rs.3,75,000.00 (Rupees Three Lakh Seventy Five Thousand Only) (Amount of guarantee) as afore said, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

7. We, the Bank, further agree that the Purchaser shall be the sole judge to decide as to whether the Bidder is in default of due and faithful fulfillment and compliance with the terms and conditions contained in the Bidding Documents listed hereinabove, and the decision of the Purchaser that the Bidder is in default, as per the Bid Document, shall be final and binding on us, notwithstanding any differences between the Purchaser and the Bidder or any dispute pending before any Court, Tribunal, Arbitrator or any other authority.
8. The Guarantee shall not be affected by any change in the constitution or winding up of the Bidder or the Bank or any absorption, merger or amalgamation of the Bidder or the Bank with any other person.
9. Our obligation to make payment under this Guarantee shall be a primary, independent and absolute obligation and we shall not be entitled to delay or withhold payment for any reason.
10. This guarantee is valid until the day of <validity date> and a claim in writing is required to be presented to us within Forty-five (45) days from <validity date> i.e. on or before <claim period> failing which all your rights will be forfeited and we shall be relieved of and discharged from all our liabilities mentioned hereinabove.

Signature and Seal of Guarantors (Bidder's Bank)

.....

Date.....

Address

.....

.....

In presence of

WITNESSES (Name & Address)

1.

2.

7.12 ANNEXURE-XII:UNDERTAKING FOR TECHNICAL BID

(On the letter head of the firm submitting the bid)

Bid No.....

To

The Principal
Dr. B.R.Ambedkar Institute of Technology
Pahargaon
Port Blair-744103

Dear Sir,

1. I/We have examined and have no reservations to the Bidding Documents, including Corrigenda /Addenda issued.
2. I/We meet the eligibility requirements and have no conflict of interest.
3. I/We have not been suspended nor declared ineligible in India.
4. I/We offer to supply in conformity with the Bidding Documents;
5. I/We offer to supply the items as listed in the Bidding Documents at the price given in the said Price Bid and agree to hold this offer open for a period of 90 days from the deadline for the submission of the Bid.
6. I/we shall be bound by a communication of acceptance issued by you.
7. I/We have understood the Bidding Document and have thoroughly examined the specifications quoted therein and am/are fully aware of the nature of the goods required and my/our offer is to supply the goods strictly in accordance with the specifications and requirements.
8. The Bid Security of Rs3,75,000.00 (Three Lakh Seventy Five Thousand) in the form of Bank Guarantee from any Commercial bank valid for at least 45 (Forty Five) Days beyond the validity period of the bid.
9. Certified that the bidder is:
 - a) A sole proprietorship firm and the person signing the bid document is the sole proprietor/constituted attorney of the sole proprietor,

Or

- b) A partnership firm, and the person signing the bid document is a partner of the firm and he has authority to refer to arbitration disputes concerning the business of the partnership by virtue of the partnership agreement/by virtue of general power of attorney.

Or

c) A company and the person signing the document is the constituted attorney.

(NOTE: Delete whatever is not applicable. All corrections/deletions shall invariably be duly attested by the person authorized to sign the bid document).

10. We do hereby undertake that, until a formal notification of award, this bid, together with your written acceptance thereof shall constitute a binding contract between us.

11. If our bid is accepted, we commit to submit a performance security in accordance with the Bidding Documents.

12. We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf will engage in any type of fraud and corruption.

Name of the Bidder* **[insert complete name of person signing the Bid]**

Name of the person duly authorized to sign the Bid on behalf of the Bidder** **[insert complete name of person duly authorized to sign the Bid]**

Title of the person signing the Bid **[insert complete title of the person signing the Bid]**

Signature of the person named above **[insert signature of person whose name and capacity are shown above]**

Date signed **_[insert date of signing]** day of **[insert month], [insert year]**

*: In the case of the Bid submitted by joint venture specify the name of the Joint Venture as Bidder

** : Person signing the Bid must have the power of attorney given by the Bidder and the same shall be attached.

Yours faithfully,

(Signature & Seal of the bidder)

Dated this day of _____

Address:.....

Telephone No. : _____

7.13 ANNEXURE-XIII: CONTRACT AGREEMENT

[The successful Bidder shall fill in this form in accordance with the instructions indicated]

THIS AGREEMENT made

the *[insert: **number**]* day of *[insert: **month**]*, *[insert: **year**]*.

BETWEEN

- (1) *[insert complete name of Purchaser], a [insert description of type of legal entity, for example, an agency of the Ministry of of the Government of { insert name of Country of Purchaser }, or corporation incorporated under the laws of { insert name of Country of Purchaser }] and having its principal place of business at [insert address of Purchaser] (hereinafter called “the Purchaser”), of the one part, and*
- (2) *[insert name of Supplier], a corporation incorporated under the laws of [insert: country of Supplier] and having its principal place of business at [insert: address of Supplier] (hereinafter called “the Supplier”), of the other part :WHEREAS the Purchaser invited bids for certain Goods and ancillary services, viz., [insert brief description of Goods and Services] and has accepted a Bid by the Supplier for the supply of those Goods and Services.*

The Purchaser and the Supplier agree as follows:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Contract documents referred to.
2. The following documents shall be deemed to form and be read and construed as part of this Agreement. This Agreement shall prevail over all other contract documents.
 - (a) the Bid Document
 - (b) the Letter of Award
 - (c) the uploaded Bid by the Bidder on the e-procurement portal.
 - (d) the Addenda / Corrigenda Nos. _____ (if any)
 - (e) Special Conditions of Contract
 - (f) General Conditions of Contract
 - (g) the Specifications
 - (h) the completed Annexures (including Price Bid (BOQ))
 - (i) any other document listed in GCC as forming part of the Contract
3. In consideration of the payments to be made by the Purchaser to the Supplier as specified in this Agreement, the Supplier hereby

covenants with the Purchaser to provide the Goods and Services and to remedy defects therein in conformity in all respects with the provisions of the Contract.

4. The Purchaser hereby covenants to pay the Supplier in consideration of the provision of the Goods and Services and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

IN WITNESS whereof the parties hereto have caused this Agreement to be executed in accordance with the laws of *[insert the name of the Contract governing law country]* on the day, month and year indicated above.

For and on behalf of the Purchaser

Signed: *[insert signature]*
in the capacity of *[insert title or other appropriate designation]*
in the presence of *[insert identification of official witness]*

For and on behalf of the Supplier

Signed: *[insert signature of authorized representative(s) of the Supplier]*
in the capacity of *[insert title or other appropriate designation]*
in the presence of *[insert identification of official witness]*

7.14 ANNEXURE-XIV. FORMAT FOR OEM AUTHORIZATION

(To be submitted on OEM's letter head)

Ref:

Date:

To
The Principal
Dr. B.R.Ambedkar Institute of Technology
Pahargaon
Port Blair-744103

Sub: Original Equipment Manufacturer (OEM) Authorization for Bid No.
.....dated.....

Dear Sir,

We <OEM Name> having our registered office at <OEM Address> are an established and reputed manufacturer of <hardware details>.

We confirm that <Bidder Name> having its registered office at <Bidder Address> is our authorized partner/ re-seller/ dealer for our <hardware details>.We authorize them to quote for our equipment in the above mentioned Bid. Further, we assure that we would extend full support to them in all respects for Supply, Installation, Testing, Commissioning, Training, and warranty and maintenance of our products.

We also ensure to provide the service support for the supplied equipment during the warranty period of Five (5) years comprehensive service as per Bid terms & conditions.

We also undertake that in case of default in the performance of the contract by the <Bidder Name>, the <OEM Name> will take all necessary steps for successful execution of this project as per Bid requirements.

<OEM Name>

<Authorised Signatory>
Name:

Designation:

Note: This letter of authority should be on the letterhead of the OEM and should be signed by a person competent and having the power of attorney to bind the manufacturer. It should be included by the bidder in its bid.