



SOFTWARE TECHNOLOGY PARKS OF INDIA

(An Autonomous Society Under Ministry of Electronics & Information Technology,
Govt. of India)

Ganga Software Technology Complex, Block IV
Sector-29, Noida-201303

Website: <https://noida.stpi.in>

for & on behalf of



**STPINEXT
INITIATIVES**

AIC STPINEXT INITIATIVES,

Ganga Software Technology Complex, Sector-29, Noida-201303

Website- www.stpinext.in

invites bids for

Supply, Installation, Testing and Commissioning of Lab Equipment for “Electropreneur Park (EP) 2.0, Delhi” with total comprehensive support for 5 years.

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Section I

Request for Proposal (RFP)

Software Technology Parks of India (STPI) Noida for & on behalf of AIC STPINEXT INITIATIVES invites proposals **under two-bid system (Technical and Commercial bids)** from OEM/ authorized partners of OEM for **Supply, Installation, Testing and Commissioning of Lab Equipment for “Electropreneur Park 2.0 (here onwards referred to as EP 2.0), Delhi” with total comprehensive support for 5 years.**

The important Bid Schedule & Venue are mentioned below:

Table 1:

I	Proposal inviting officer Authority, Designation and Address	The Director, Software Technology Parks of India (Noida), Ganga Software Technology Complex, Block IV Sector-29, Noida-201303 For and on behalf of CEO, AIC STPINEXT INITIATIVES, Block IV Ganga Software Technology Complex, Sector-29, Noida-201303
II	Name of the Work	Supply, Installation, Testing and Commissioning of Lab Equipment for EP 2.0, Delhi with total comprehensive support for 5 years.
III	Place of Execution	5th Floor, Old Academic Building, Indraprastha Institute of Information Technology Delhi (IIITD), Okhla Industrial Estate, Phase III, New Delhi-110020
IV	Location of Pre-bid Meeting	Software Technology Parks of India- Noida Block-4, Ganga software Complex, Sector-29, Noida, Uttar Pradesh 201303
V	Mode of Tender	Open Tender on GeM
VI	Validity of Bids	120 Days from the last date of Bid Submission
VII	Any other important criteria specified by the RFP inviting authority	Tender/ Offers received through emails, hard copies or any other means outside of GeM portal shall not be considered by STPI.

The bidder shall submit Earnest Money Deposit (EMD) for an amount of **Rs. 10,00,000/- (Rupees: Ten Lakh Only)** through NEFT/ RTGS as per following details:

- Account Name : Software Technology Parks of India
- SB A/c No. : 711710110001585,
- IFSC Code : BKID0007117
- Name of the bank & branch : Bank of India, Sec-18, Branch., Noida 201301

Director, STPI- Noida

Section-II

Instructions To Bidders (ITB)

Software Technology Parks of India (STPI) is an Autonomous Society under Ministry of Electronics and Information Technology, Government of India, established by the Government of India in 1991 with the objective of boosting the Software Exports from India.

“AIC STPINEXT INITIATIVES” is a section 8 company incorporated by STPI to act as the nodal agency and common implementation vehicle for various startup and entrepreneurship activities at STPI.

Electropreneur Park (EP), Delhi, a Centre of Entrepreneurship (CoE) in the ESDM domain, has been nurturing and promoting the ESDM ecosystem in India for the past 10 years with significant tangible takeaways. Considering the same, the next 5 years of Electropreneur Park 2.0 (herein after referred “EP 2.0”) have specific objectives and goals. While these will help the country in promoting local ESDM ecosystem, EP will also get its new and refreshed purpose on a broader canvas implementing the expertise, best practices and experience it has uniquely gained over these years.

EP will establish specialized state-of-the-art incubation facility and physical laboratories for start-ups in the area of ESDM where the highest-standards and best-practices in terms of infrastructure, technology, leadership, mentoring, training, research & development, funding, networking for the given focus area will be made available.

For the purpose of this document, STPI, STPI-Noida, AIC STPINEXT INITIATIVES& EP 2.0, Delhi can mean to refer singularly to any one or combined to all of them.

1. PURPOSE OF TENDER

Proposals under two bid system are hereby invited by STPI Noida for & on behalf of AIC STPINEXT INITIATIVES for **Supply, Installation, Testing and Commissioning of Lab Equipment for “EP 2.0, Delhi” with total comprehensive support for 5 years.**

2. VALIDITY OF THE BID

The Bid must be valid for a minimum period of 120 days from the last date of Bid Submission. The Bidder shall not be entitled (during said period of 120 days without the consent in writing of STPI) to revoke or cancel the offer or to vary any term thereof.

3. REJECTION & RETURN OF BID

- 3.1. STPI for & on behalf of AIC STPINEXT INITIATIVES reserves the right to reject any or part of any Bid without assigning any reason. The documentation submitted by Bidders shall not be returned. STPI shall not pay any costs incurred for the purchase, preparation and submission of any Bid.
- 3.2. If the Bidder gives wrong information in the Bid, STPI for & on behalf of AIC STPINEXT INITIATIVES reserves the right to reject such Bid at any stage or to cancel the Contract, if awarded.
- 3.3. Canvassing in any form in connection with the Bids is strictly prohibited and the Bids submitted by the Contractors who resort to canvassing are liable for rejection.

- 3.4. Bids, in which any of the particulars and prescribed information are missing or are incomplete, in any respect and / or prescribed conditions are not fulfilled, shall be considered non responsive and are liable to be rejected.

4 BIDDER'S ELIGIBILITY CRITERIA

- 4.1 Bidder shall be a registered Indian company, firm, proprietorship, etc. **Documentary evidence to be submitted.**
- 4.2 Bidder must be an OEM or authorized partner of reputed and renowned OEM. **Copy of Certificate of Authorized partner from OEM only, to be provided.**
- 4.3 Bidder shall have necessary experience and capability of supply, installation, testing and commissioning of similar lab equipment to Government organizations, educational institutions, industry, etc. in timely manner. Bidder should have executed at least 3 (three) contract orders of similar nature worth Rs 2.00 Cr. or more each with at least one contract awarded and completed for Central Government/Autonomous Body/Ministries/ Departments/ PSU's) in the last three financial years ending 31st March 2024 (From 1 April 2021 to 31st March 2024). **Copies of relevant purchase/work orders/ contracts showing name of client, description of items/work, order no., order date and order amount to be provided as documentary evidence. Altered, redacted or tampered copies of work orders will not be accepted as documentary evidences.**
- 4.4 The bidders should not be Blacklisted by any State/Central Govt. body/PSU/ Autonomous Body/Private Company/Firm. Bidders should not be under a declaration of ineligibility for corrupt and fraudulent practices.
- 4.5 For MSME/Startup bidders, the relevant rules of GeM shall be applicable towards "Bidder Turnover" and "Experience Criteria" subject to meeting of quality and technical specifications.
- 4.6 Bidder should have functional service center and NABL Calibration lab in India.
- 4.7 Bidder must provide service support for agreed terms and it should cover warranty, CMC also.
- 4.8 Dedicated/toll Free Telephone No. for Service Support: BIDDER must have Dedicated/toll Free Telephone No. for Service Support.
- 4.9 The bidder shall have necessary statutory registration certificate for GST and PAN Registration. **Documentary evidence to be submitted.**
- 4.10 **Govt. levies like GST etc. shall be paid at actual rates applicable** on the date of submission of bid. Rates should be quoted accordingly giving the basic price, GST etc.
- 4.11 The EMD of Rs. 10,00,000/- should be deposited through NEFT/RTGS in favor of STPI-Noida on or before last date and time for submission of bid. **Proof of payment of EMD or necessary certificate of EMD exemption is to be provided along with technical bid.**
- 4.12 The bidder should have an average Annual turnover of 4 Cr. during the last three years (FY 2021-22, 2022-23 & 2023-24). **Annual turnover of FY 2021-22, 2022-23 & 2023-24 duly certified by Chartered Accountant to be provided as documentary evidence.**

5 EARNEST MONEY DEPOSIT (EMD)/ BID SECURITY:

- 5.1 The Bids submitted without applicable EMD will stand rejected. EMD will not be accepted in the form of cash /cheque/DD/Bankers Cheque.
- 5.2 The interest free EMD of the unsuccessful bidder will be returned within 30 working days from the acceptance of purchase order(s) by all the successful bidders.

- 5.3 However, if there is any delay in the refund of the EMD of the unsuccessful bidders, STPI Noida / AIC STPINEXT INITIATIVES will not be liable to pay any penalty or interest, etc.
- 5.4 The bank details /cancelled cheque may be submitted by the bidders along with technical bid for refund of EMD.
- 5.5 EMD of the successful bidder(s) will be returned within 30 working days from the acceptance of purchase order(s), submission of required performance bank guarantee and signed copy of Non-disclosure Agreement.
- 5.6 The EMD may be forfeited if a bidder withdraws his bid during the period of validity specified by the bidder on the Bid form.
- 5.7 **EMD Exemption:** The exemption of EMD shall be applicable to Micro and Small Enterprises (MSEs/Startups). **Relevant Certificates to be uploaded along with the Technical Bid.**

6 TENDERING PROCESS

The interested bidder meeting the eligibility criteria as defined under may submit their bid online in two parts as under:

- 6.1 “TECHNICAL BID” consisting of all technical details in Form A (As per GEM).
- 6.2 “COMMERCIAL BID” as per enclosed format

7 CHECKLIST OF DOCUMENTS TO BE UPLOADED OF TECHNICAL BID:

Bidder is required to upload the following documents along with

- 7.1 Duly filled in and signed copy of technical bid as per Annexure-II
- 7.2 Copy of certificate of incorporation/ registration of the company, firm, proprietorship, etc.
- 7.3 CA certified copy/ copies of annual turnover statement or copies of audited balance sheet of the bidder for FY 2021-22, 2022-23 & 2023-24.
- 7.4 Copies of executed contract orders of similar nature of worth Rs 2.00 Cr. or more which were awarded by different clients with at least one contract awarded and completed for Central Government/Autonomous Body/Ministries/ Departments/ PSU's) in the last three financial years ending 31st March 2024. The submitted copies of work order should not be altered, redacted or tempered with in any manner. The copies must clearly mention description and scope of order, name of client, order number and date, order amount, delivery period, etc.
- 7.5 Copy of letter of authorization (on company letter) to signatory, issued by the bidder company, firm, etc.
- 7.6 Copy of Authorized Partnership/ distributorship certificate, issued by OEM to bidder.
- 7.7 Copy of the PAN Card and GST Registration certificates.
- 7.8 Copy of EMD Transaction (NEFT/RTGS) details/Certificate for EMD exemption.
- 7.9 Data Sheet of the product(s) offered in the bid are to be uploaded along with the bid documents.
- 7.10 Copy of cancelled cheque or bank passbook of the bidder for refund of EMD amount (Not applicable for EMD exempted bidders).
- 7.11 Any other relevant document.

8 CONTENTS OF COMMERCIAL BID:

The bidder should format for Commercial/price bid is attached at ANNEXURE-III. The same is to be downloaded by the bidder and duly filled in, signed by the authorized signatory along with company seal on each page, before submission in separate sealed envelopes for each category.

The bidder will be required to clearly mention the following, in the Commercial bid

- a) Applicable warranty (in years) for each item of the chosen category
- b) Unit price of each item, including all taxes and charges, of the chosen category
- c) Total price of each item, including all taxes and charges, of the chosen category
- d) Total COMPREHENSIVE AMC cost, including all taxes and charges, for each of the items, for remaining period (for 5 years minus Applicable warranty).

The amount mentioned against each item in the Commercial bid must be fixed, complete and final and inclusive of all taxes and charges.

The bidder should quote the prices applicable to start-up incubator/ educational/ research institutes for equipment/ licenses.

- 9 Bidders shall adhere to the procedure and processes laid down in this document and shall follow fair and ethical practices of trade.
- 10 STPI Noida / AIC STPINEXT INITIATIVES reserves the right to accept the offer in full or in parts or reject summarily.
- 11 No financial information is to be mentioned in the technical bid. Failure to do so may lead to rejection of the bid.

12 Clarification on the bid Document

The bidding process is stipulated in the tender document clearly. In case of any clarifications about bidding process/eligibility criteria, the bidders may seek clarification using the “Representation Function” available in the GeM portal till the last date and time of bid submission or during pre-bid meeting. STPI is not responsible for responding to any query/ enquiry received through email, phone call, in writing or through any other means other than those mentioned above.

13 SITE VISIT:

Bidders are advised to inspect and examine the site of delivery and installation and its surrounding and satisfy themselves before submitting their tenders at their own cost. A tenderer shall be deemed to have full knowledge of the site whether he/ she inspects it or not and no extra charges consequent on misunderstanding or otherwise, shall be allowed. For access to the installation site for inspection, please contact Mr. Abhanshu Gupta, Incubation Manager EP Delhi (abhanshu.gupta@stpinext.in) 24 hours in advance, on week days between 9:00AM to 6:00 PM on or before the last date of bid submission.

- 14 Conditional bids will not be accepted.
- 15 The bidders are requested to submit only the relevant documents as requested/mentioned in the tender document.

Section-III

General Terms and Conditions

1. The bill of material for supply, installation, testing and commissioning are mentioned in Annexure-I.
2. A bidder must submit the bid for all the items mentioned in Annexure-I with Comprehensive support of 5 years covering the complete scope of work as detailed in Section-IV and as per terms and conditions mentioned in this bid document and corrigendum, if any.
3. **SEEKING CLARIFICATION ON SUBMITTED BIDS:**
To assist in the examination, evaluation and comparison of bids STPI may, at its discretion ask the bidder for the clarification of its bid. The request for clarification and the response shall be through the facility provided to buyer on GeM portal.
4. If a bidder does not provide clarifications of its bid within the days specified in this bid document, their bid may be rejected.
5. In respect of interpretation/clarification of this bid document and in respect of any matter relating to this bid document, the decision of Director, STPI-Noida will be final.
6. **AWARD OF CONTRACT**
 - a. The contract will be awarded to L1 bidder (for the complete BoQ mentioned in Annexure-I and scope of work mentioned in Section-IV) who offered all products as a turnkey solution.
Bid splitting is not allowed.
 - b. The selected bidder(s) will be required to provide
 - i. an acceptance of the GeM contract, in writing, within 3 working days from the date of order along with Signed copy of Non-Disclosure Agreement, as per Annexure-VI
 - ii. Performance bank guarantee, as explained in para 9 of this section within 15 days from the date of the order.
 - c. If the successful bidder fails to provide the above-mentioned documents (in para b above) within the stipulated time period, STPI Noida for & on behalf of AIC STPINEXT INITIATIVES reserve the right to cancel the GeM contract placed to the bidder and in this case, EMD of the bidder will be forfeited.
7. **PAYMENT TERMS**
 - I. 10% of the purchase order amount(s) (excluding COMPREHENSIVE AMC Cost) will be paid in advance to the successful bidder(s) within 15days from the receiving of acceptance of the purchase order and submission of performance bank guarantee, whichever is later.
 - II. 80% of the order amount (excluding COMPREHENSIVE AMC Cost) will be paid to the bidder(s), within 15 working days, after the successful delivery of complete bill of material mentioned in the order and based on Delivery Acceptance Report (DAR).
 - III. Remaining 10% order amount(s) (excluding COMPREHENSIVE AMC Cost) will be paid to the bidder(s), will be paid after successful installation, testing, commissioning and demo/ training of the delivered goods and based on Final Acceptance Report (FAR).
 - IV. The payments of 80% and 10% of order amount(s) (excluding COMPREHENSIVE AMC Cost), mentioned in para II and III above will be subject to liquidity damages, as per Delivery Acceptance Report (DAR) and Final Acceptance Report (FAR) respectively.
 - V. The COMPREHENSIVE AMC charges for respective items will be paid on quarterly/half-yearly basis, after the successful delivery of Comprehensive AMC (CAMC) service, during the AMC period.

8. PERFORMANCE SECURITY:

- I. Within 7 days of award of the work, the successful bidder(s) shall furnish Performance Security @ 5 % of the total value of order amount by way of irrevocable and unconditional Bank Guarantee (BG) from a reputed Nationalized Bank in favor of STPI Noida.
- II. This BG must be valid for minimum 5 years and 60 days to cover the risk of STPI Noida which may be extended further as per requirement of STPI Noida.
- III. The proceeds of the BG shall be payable to STPI Noida as compensation for any loss resulting from the successful bidder's failure to complete its obligations under the terms and conditions of the contract. The BG will be discharged by STPI Noida and returned to the successful bidder(s) not later than 60 days following the date of completion of the successful bidder's performance related obligations under the terms & conditions of the 5-year contract.

9. ACCEPTANCE OF EQUIPMENT:

I. Delivery Acceptance Report (DAR)

- a. A nominated committee, designated by STPI Noida will prepare Delivery Acceptance Report, after the delivery of the all the equipment as per Purchase order, by the supplier at "EP 2.0, Delhi".
- b. The objective of DAR is to determine the successful and timely supply of the equipment as per order and Service Level Agreement (SLA) and along with all the required, necessary and standard spares and documentations, comprehensive support details, etc.
- c. Based on the report of DAR, 80% payment of the respective order amount (excluding Comprehensive AMC charges) will be paid after deducting liquidity damages (if any).

II. Final Acceptance Report (FAR)

- a. A committee, nominated by STPI Noida will conduct final acceptance test and prepare FAR, after the installation and commissioning of the all the equipment as per purchase order by the supplier at "EP 2.0, Delhi".
- b. The objective of FAR is to check the successful and timely installation, commissioning of the equipment by the respective supplier, as per order and Service Level Agreement (SLA), functional testing of each equipment and necessary training and demo sessions provided by the supplier, OEM, etc. for proper working, operations and maintenance of each of the equipment.
- c. Based on FAR, remaining 10% payment of the respective order amount will be paid after deducting liquidity damages (if any).

10. LIQUIDITY DAMAGES:

- a. **For delay in Delivery of ordered products:** Penalty for Delayed Delivery will be applicable @ 0.5% of the contract value per week subject to maximum of 5% of total order value, in case of delay / non completion of work within the stipulated time period mentioned in Section-IV.
- b. **For breach of Service Level Agreement:**
 - i. Each instance of violation of timeline mentioned in Section IV shall be considered as a breach.
 - ii. For each instance of breach, 0.1% of the order amount of the concerned equipment shall be levied to a maximum of 5% of contract amount.

11. Comprehensive support:

- I. “Comprehensive support of 5 years” for the purpose of this bid document, means applicable warranty plus comprehensive AMC after the end of applicable warranty, should be of 5 years in total.
i.e. Applicable warranty period + CAMC Period = 5 Years
- II. The comprehensive support for all hardware and software items supplied by the successful bidder(s) shall be onsite at “EP 2.0, Delhi” (as per Service Level Agreement- Annexure-IV).
- III. Documentary proof of applicable warranty to be provided by the supplier at the time of delivery.
- IV. If defective items require such type of servicing, maintenance, repair, replacement, etc. which cannot be carried out Onsite at “EP 2.0, Delhi” and hence required to be taken offsite, the supplier will be solely responsible for logistics and safety of the item and their complete repair, replacement, etc. Also, the supplier will also provide alternate/replacement for the defective item during repair period. No additional cost will be paid to the supplier for the above.

12. NON-DISCLOSURE AGREEMENT (NDA)

The successful bidder has to enter into NDA as per the Annexure-VI. The NDA shall be submitted along with the acceptance of the Order.

13. DISPUTES CLAUSE & ARBITRATION:

- i. In the event of any dispute arises out of or in connection with this agreement, both parties shall seek to resolve by mutual discussions. The decision of the Chairman, AIC STPINEXT INITIATIVES cum Chairman, Governing Council of “EP 2.0, Delhi” will be final and binding on both the parties.
- ii. The provisions of the Arbitration and Conciliation Act, 1996 shall be applicable and the award made there under shall be final and binding upon the parties hereto, subject to legal remedies available under the law. Such differences shall be deemed to be a submission to arbitration under the Indian Arbitration and Conciliation Act, 1996, or of any modifications, Rules or re-enactments thereof.
- iii. The arbitral proceedings shall be conducted in English.
- iv. The venue of arbitration shall be in New Delhi.

14. FORCE MAJEURE:

Notwithstanding the provisions relating to time line fixed elsewhere in the Agreement, the Vendor/Parties shall not be liable for forfeiture of its performance security, liquidated damages, or termination for default if and to the extent that the delay in performance or other failure to perform its obligation under the Contract/Agreement is the result of an event of Force Majeure. The Force Majeure in the context of this Contract/Agreement, means an event beyond the control of the Vendor/Party and not involving the Vendor's/Party's fault or negligence and not foreseeable. Such events may include, inter alia, wars or revolutions, fires, floods, epidemics, quarantine restrictions, freight embargoes, earthquakes, explosions, strikes and other acts of God referred to as eventualities.

If, at any time, during the continuance of the agreement, the performance in whole or in any part by either party of obligation under this Contract/Agreement shall be prevented or delayed by reasons of the eventualities then, notice of such happening of any such eventualities is given by either party to the other within two days from the date of occurrence thereon, neither party shall,

by reason of such eventualities be entitled to terminate this contract/agreement nor shall either party have any claim of damages against the other in respect of such non-performance or delay in performance. Performance of the contract agreement shall, however, be resumed as soon as practicable but not later than seven days after such eventuality has come to an end.

15. TERMINATION BY DEFAULT

The STPI/ AIC STPINEXT INITIATIVES may, without prejudice to any other remedy for breach of contract, by written notice of default sent to supplier, terminate the Contract in whole or part:

- a If the Supplier fails to provide services /rectify the fault within the time period specified in the contract or any extension thereof granted by the STPI-Noida for & on behalf of AIC STPINEXT INITIATIVES.
- b If the Supplier fails to perform any other obligations under the Contract.
- c In case of violation of any clause of Non-Disclosure Agreement.

16. OTHER TERMS AND CONDITIONS

- a. **Product Specifications & Compliance Statement:**
 - i. The technical specifications mentioned in Annexure-I (Bill of Material) are minimum requirement.
 - ii. Any part number specified in Annexure-I is only to help the supplier to understand better the requirement. It does not indicate preference for any vendor, OEM, etc. in any manner.
 - iii. The supplier should quote the products either with the technical specifications strictly as mentioned in the Annexure-I (Bill of Material) or higher and only of technically reputed, reliable and globally acclaimed brands / OEMs.
 - iv. The bidder should not quote the end of life/ support products.
 - v. The supplier should quote the prices applicable to start-up incubator/ educational/ research institutes for equipment/ licenses.
- b. STPI Noida, for & on behalf of AIC STPINEXT INITIATIVES will not accept any material/ software delivered and/ or installed/ commissioned in damaged condition, i.e. safety of the equipment during delivery to “EP 2.0, Delhi” and during installation and commissioning is sole responsibility of the respective supplier.
- c. If the material or part thereof is lost or rendered defective during transit/ installation/ commissioning, the supplier shall immediately arrange for the supply of the equipment or part thereof, as the case may be, at no extra cost.
- d. Supplier material must be properly packed against any damage and insured up to the destination. The material should directly be supplied to “EP 2.0, Delhi”, 5th Floor, Old Academic Building, Indraprastha Institute of Information Technology Delhi (IIITD), Okhla Industrial Estate, Phase III, New Delhi-110020. All the expenses involved in shipping the equipment to “EP 2.0, Delhi” and installation and commissioning and training of the equipment thereafter shall be borne by the Suppliers. All aspects of safe delivery shall be the exclusive responsibility of the Supplier.
- e. STPI Noida for & on behalf of AIC STPINEXT INITIATIVES will have the right to reject the items supplied, if these do not comply with the specifications at any point of installation / inspection.
- f. STPI Noida for & on behalf of AIC STPINEXT INITIATIVES reserves the right to accept / reject the offers or cancel the whole RFP proceedings without assigning any reason whatsoever.

- g. Bids received through Email / Fax, by post, courier, etc. and open offers shall not be accepted. Late / Delayed bids shall not be accepted under any circumstances. Incomplete offers will be rejected.
- h. **Disclaimer:** This Request for Proposal (RFP) is not an offer by STPI Noida for & on behalf of AIC STPINEXT INITIATIVES but an invitation for supplier's response. No contractual obligation whatsoever shall arise from the RFP process.

SECTION IV

SCOPE OF WORKS

The Scope of Work shall include the following: -

1. Delivery of complete BoQ (mentioned in Annexure-I) at project site (EP 2.0, Delhi) within 60 days from the date of order at EP 2.0, Delhi, 5th Floor, Old Academic Building, Indraprastha Institute of Information Technology Delhi (IIITD), Okhla Industrial Estate, Phase III, New Delhi-110020.
2. Installation, testing and commissioning of all equipment in 'ready-to-work' mode within 90 days from date of order at the above-mentioned project site
3. Providing detailed demo/training about the working, operations and routine maintenance for all the supplied equipment and/or tools as may be required for its safe and normal operations within 90 days of the order. To this effect, necessary documentation, manuals, datasheets, website URLs, etc. are to be provided by the supplier.
4. Facilitating inspection and testing of the tools and equipment by way of supply of samples, etc. during Final Acceptance Report (FAR) and wherever requested by STPI/ AIC STPINEXT INITIATIVES during the contract period of 5 years.
5. Providing comprehensive technical support and continuous engagement for upkeep, operation and maintenance of each of the equipment during the entire contract period of 5 years onsite as per the Service Level Agreement mentioned in the Service Level Agreement, below.
6. **Service Level Agreement**

6.1. SLA related to supply, installation, testing & commissioning of lab equipment

S. No.	Activity	Max. duration from the date of order
1	Delivery of complete BoQ at EP 2.0 Delhi facility	60 Days
2	Installation, testing and commissioning of all equipment in ready to use condition	90 Days
3	Training/ Demonstration of working, operations and routine maintenance of all equipment	90 Days
4	Providing documentary proof of OEM warranty of all equipment	100 Days

6.2. SLA related to comprehensive support for lab equipment

S. No.	Activity	Max. duration from fault reporting time
1	Fault acknowledgement by the supplier with trouble ticket number between 09:00AM to 06:00PM on working days (defined as Monday to Fridays, except on national holidays),	1 Hour
2	Attending the issue remotely or onsite by authorized and trained personnel from OEM/ supplier	3 Hours
3	Fault detection	5 Hours
4	Resolution of minor issues involving the software update, or hardware issue not involving spare replacements	End of Next Working Day
5	Resolution of minor issues the software related issue or hardware issue not involving spare replacements	End of Next 3 Working Days

ANNEXURE-I

Bill of Material (BoM)

CATEGORY A: General Equipment and Software

Pre-Compliance testing equipment

S. No	Product Name	Description	Quantity	Generic Specifications
1	Vibration test equipment	VIBRATION TESTBED	1	1. Sensor Mounting Magnet, -Magnet-20Kg Sr. No. Characteristic Value 1. NDFEB-POT-MAGNET-20KG 2. Magnetic Base Circular Diameter 34 mm 3. Magnetic Base Height 30 mm 4. Weight 0.15 Kg 5. Pull Strength 20 Kg approximate 6. Material Body SS304, Pole piece MS with Nickel plating 7. Centre Stud Thread Size 1/4" - 28 UNF Male Thread for Accelerometers with 4.5mm Height 2. Industrial Vibration Accelerometer, 100mV/g, 2 Pin MS, 1/4"-28UNF Female Thread Sr. No. Characteristic Value 1. EMC EN61326-1:2013 2. Sensitivity 100 mV/g 3. Frequency Response 2Hz (120cpm) to 10kHz (600kcpm) ± 5% 4. Isolation Base Isolated 5. Transverse Sensitivity Less than 5% 6. Electrical Noise 0.1mg max 7. Bias Voltage 10 - 12 Volts DC 8. Settling Time 2 seconds 9. Output Impedance 200 Ohms max. 10. Case Isolation >108 Ohms at 500 Volts 11. Case Material Stainless Steel 12. Sensing Element/Construction PZT/Compression 13. Mounting Torque 8 Nm 14. Weight 125gms (nominal) 15. Mounting Thread 1/4-28" UNF Female 16. Operating Temperature Range -55 to 140°C 17. Sealing IP68 18. Maximum Shock 5000g 3. Cable Assembly, Teflon 3.5mm dia, SS Conduit 5mm ID, 10m, 2 Pin MS, Shielded Sr. No. Characteristic Value 1. Connection 2 PIN MIL Connector at one end / Spade lugs at other end 2. Cable Teflon 3.5 mm 2 core shielded 3. Conduit SS 5 mm ID 4. Length 10 Meter 5. Temperature Up to 260 degree C 4. Poly carbonate JB 160 x 100 x 80 mm with PG11 glands and TB for up to 4 sensors Sr No Characteristics Data 1 Cable Entry Bottom via Glands 2 Material Polycarbonate 3 Dimension 160 X 100 X 80 mm 4 Sealing IP65 5 Cable Glands PG11 6 Function For terminating contact type Accelerometer sensors 7 Mounting Holes 4 Nos. 5. Fully Wired Cabinet/Panel, 1500(H)x600(W)x600(D) mm, IP32 Sr. No. Characteristic Value

				1. Earth Bus 30X6 CU. Earth Bun at both sides of the panel 3. Material 2mm thick CRCA Sheet for Panel Construction 4. Dimensions (mm) 1500 x 600 x 600 in mm 5. Protection IP32 6. Paint Exterior: Grey Shade, shade no. 7035 Interior: Brilliant White (Glossy Finish) Paint Shade: Epoxy Based Powder Coated 7. Construction & finish Corner rounding, weld cleaning, lifting hook, drawing pocket 8. Sealing Gasket on all doors and gland plates 9. Gland Plate Bottom 3 mm thick drilled detachable gland plate 10 Earth Bus 30X6 CU. Earth Bus will run at both sides of the panel 6. 19" Rack, 2 Position, 5U Sr. No. Characteristic Value 1. Tolerance in Dimensions +/- 1% or better 2. Panel Cutout 137 mm (W) x 225 mm (H), 5U High 3. Card Slots 2 Slots 4. Input Power +24 VDC from Selec RPS240 Power Supply Module which works on 90 - 264 VAC, 50/60 Hz, Single Phase Input 5. Dimensions of Rack 178 mm (W) (Flange edge to edge) x 222 mm (H) x 300 mm (D)Casing Vibration Module, 2Ch Vibration Input and 1Ch Keyphasor Input, API Standard 670 Compliant, Input: 24 V DC Sr. No. Characteristic Value 1. Type ● Electronic Microprocessor based Module. ● Each monitor module is an independent monitor with its own power supply, display, keypad for programming, relays etc. 2. Type of Mounting Plug In type to M8800 Main Rack 3. No. of Channels per Module Two Channels per module 4. Programmable from the Front Panel Keypad Programmable from the password protected Front Panel Keypad for- ● Measurement Range & Units. ● Select Sensor &program sensitivity. ● TX Fail settings. ● Alarm/Trip - Time delay (default value 5 seconds,range 0-60 seconds), Hysteresis (default value 02 counts, maximum 30 counts can be set) , FS/NFS, Latching/non latching ● Filter Selection LPF = 1Khz / 5Khz / 10 Khz, HPF = 5Hz / 10Hz / 20Hz ● Trip by-pass. ● RS485 RTU (Modbus) Communication Protocol 5. Inputs Sensor: Accelerometer, Piezo Velometer 6. Outputs ● The measurement units can be in English or Metric. This is fully programmable. ● For the Accelerometer input the module gives velocity or acceleration readout. ● For the Velometer input the module gives velocity or displacement readout. ● Full Scale Range - max 150mm/s pk, 1000 microns pk-pk. ● Isolated 4-20mA one per channel at 600 ohms load resistance. ● 100 segment Bar Graph display per channel and digital 16x2 LCD display. ● Buffered Analyser output one per channel on front panel and backplane. ● RS485 MODBUS RTU protocol. ● LED Indication - Alarm/Trip and Trip by-pass. ● TX Fail indication and its Relay contact output. ● Independent Alarm/Trip Relay potential free contact outputs per channel. 7. 4-20 mA DC Isolated Output ● Linear over the select Full Scale range. ● Automatically set to the select full scale range. ● However, 4mA corresponding to the Zero can be suitably set from the front panel keypad because the signal <4mA is treated as invalid signal input by the DCS: needs to go through programming mode. 8. Unhealthy Conditions During Power ON, TX Fail and Over - range the 4-20mA DC signal output is pulled down below 4mA. 9. Amplitude Linearity Better than +/-1% plus +/-2LC. 10. Accuracy Monitor accuracy is better than 1% +/-2LC 11. AuxiliaryPower (sensor power) 4mA Constant current at @+24V. 12. Relay contact Rating 5 Amp @230V AC Resistive. 13. Power Supply ● +24VDC ● Accepts +24VDC Redundant power supply. ● Each module takes 15VA. 14. OperatingTemperature 0 to 65 degree C 15. Operating Humidity Range 95% non-condensing
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				16. Operator Interface ● Bright Bar Graph display for easy view from a distance. ● Digital display is also provided. ● When programmed to display bar graph as percentage of Alarm or Trip Level set, the Operator can at glance, see how much away the process value is from the present Alarm (or Trip) level. ● LED indications for Alarm/Trip and Start-up. ● Trip bypass LED indication. ● Alarm/Trip Acknowledgement. ● Viewing of pre-set Alarm/Trip levels, Machine speed(if the Tacho input is given) and Sensor Bias Voltage in multiple screen mode from the front panel keypad. 8. 35 mm Din Rail Mount Industrial Grade Power Supply, 240 W, , 24 V DC Output, Dimension: 50 x 136 x 135 mm (W x H x D) Sr. No. Characteristic Value 1. Storage Temperature - 40°C to + 85°C 2. Input Supply 90 - 264 VAC, 50/60 Hz 3. Output 24 to 28 V DC 4. Supported Load 240 W (10 A at 24 V DC) Vibration Software OLIVER BASIC or equivalent Sr. No. Characteristic Value 1. System requirement Computer/Workstation/Laptop with min i7, 8 GB Ram, 500 GB HDD; 1 x or more RJ45 (LAN Port) Port; Minimum 1 x USB 2.0 and 1 x USB 3.0 Port 2. Features of Software Setting and configuring Display Units, Full Scale Range, Alarm settings, Trip settings of each connected Channel of sytem remotely without the need of accessing Push Buttons on Front Panel of system Viewing of Real Time Data as Values, Histogram and Trends, Viewing of Historical Data and Trends, Exporting of Data to Excel 3. Installed On Computer/Workstation/Laptop . System to be provided as per below specs -omputer/Workstation/Laptop with min i7 or equivalent , 8 GB Ram, 500 GB HDD; 1 x or more RJ45 (LAN Port) Port; Minimum 1 x USB 2.0 and 1 x USB 3.0 Port
2 (a)	Impulse tester	impulse and surge tester	1	System for test as per IEC/EN 61000-4-5 Surge Combination Wave 1.2/50µs...8/20µs with). REMOTE CONTROL SOFTWARE, REPORTING SOFTWARE . The data input can either be supplied directly via the remote-control software or when saving the data on a USB drive. the data can be used from the sequence mode menu directly and the report gets generated. Detailed information will be provided with the reporting software tool itself. The reporting software is compatible with Min. Windows 10 (32- and 64-bit. Output Voltage 0.2 – 7.0 kV ±10% Voltage Rise Time / Impulse duration 1.2 µs ±30% / 50 µs ±20% Output Current 0.1 – 3.5 kA ±10% Current Rise Time / Impulse Duration 8 us ±20% / 20 us ±20% Supplied with 1-Phase CDN 16 A INBUILT, System must be compatible with Isolation Test 1.2/50 us up to 14 kV, Selectable source impedances 12 Ohm, 40 Ohm and 500 Ohm, Separate output for each source impedance, Floating output, Turns Ratio 1:2 Impulse Shape 1.2 / 50 µs Voltage impulse, Impulse Output HIGH HV Sockets safety banana socket COMMON terminal with 4 mm banana socket Earth Protection. Control Power 85 V - 264 V; 50/60Hz, Display 7" touch-screen, System must be future upgradable for FT/Burst Voltage Dips ,Ring Wave, Telecom Wave.
2 (b)	DESKTOP	DESKTOP	1	DESKTOP -1 no. Processor 13th Gen Intel® Core™ i7 or equivalent Operating System Windows 11 English Monitor 24 Monitor - Memory 16 GB, Storage 500 Gb SSD, Microsoft Office, Security Software 1-year

3	Programmable Power Supply	DC Power supply	1	DC output Voltage range 0 - 750 V Ripple in CV (rms) ≤ 200 mV (BW 300 kHz), Ripple in CV (pp) ≤ 800 mV (BW 20 MHz) UMin for IMax (sink) 1.2 V. Current range 0 - 120 A Power range 0 - 30000 W. Resistance range 0.2 Ω - 370 Ω Output capacitance 450 μF. Efficiency sink/source (up to) 96.% *1 Insulation .Negative DC pole <-> PE ± 1500 V DC Positive DC pole <-> PE +2000 V DC Battery simulation, Solar array simulation, Parallel operation Yes. Safety and EMC -EN 61010-1, IEC 61010-1, Safety UL 61010-1, CSA C22.2 No 61010-1 BS EN 61010-1, EN 55011, class B, CISPR 11, class B, FCC 47 CFR part 15B, unintentional radiator, class B EN 61326-1 include tests according to: EMC - EN 61000-4-2, - EN 61000-4-3, - EN 61000-4-4, - EN 61000-4-5, - EN 61000-4-6, Safety protection class 1, Ingress Protection IP20, Mechanical construction Cooling Forced air flow from front to rear (temperature-controlled fans), optional water cooling AC input Voltage, Phases "Range 1: 208 V, $\pm 10\%$, 3ph AC, Frequency 45 - 65 Hz Power factor ca. 0.99 , Leakage current <10 mA , Inrush current / Phase current ≤ 56 A Overvoltage category 2 , DC output static Load regulation CV $\leq 0.05\%$ FS (0 - 100% load, constant output voltage and constant temperature) Line regulation CV $\leq 0.01\%$ FS (208 V - 480 V AC +10% supply voltage, constant load and constant temperature) Stability CV $\leq 0.02\%$ FS (during 8 h of operation, after 30 minutes warm-up, at constant output voltage, load and temperature) Temperature coefficient CV ≤ 30 ppm/$^{\circ}$C (after 30 minutes of warm-up) Load regulation CC $\leq 0.1\%$ FS (0 - 100% load, constant output voltage and constant temperature) Line regulation CC $\leq 0.01\%$ FS (208 V - 480 V AC +10% supply voltage, constant load and constant temperature) Protective functions OVP Overvoltage protection, adjustable 0 - 110% UNominal OCP Overcurrent protection, adjustable 0 - 110% INominal OPP Overpower protection, adjustable 0 - 110% PNominal OT Overtemperature protection (DC output shuts down in case of insufficient cooling) DC output dynamic Rise time 10 - 90% CV ≤ 10 ms , Fall time 90 - 10% CV ≤ 10 ms Rise time 10 - 90% CC ≤ 2 ms , Fall time 90 - 10% CC ≤ 2 ms , Insulation AC input to DC output 3750 Vrms (1 minute, creepage distance >8 mm) *1 DC output to interfaces 1000 V DC , Built-in, galvanically isolated USB, Ethernet (100 MBit) for communication, 1x USB host for data acquisition
4 (a)	Datalogger	Recorder and datalogger	1	Base unit should comprise the followings: System should be able to measurement capabilities to measure and capture the data like DC Voltage, AC Voltage, DC Current, AC Current, Resistance (2-wire), Resistance (4-wire), Capacitance, Period, Frequency Diode Digitize Voltage Digitize Current, Thermocouple Thermistor 2-, 3-, 4-Wire RTD. Main Unit should have Large, minimum 5-inch touch screen with graphical display. Measurement Resolution $6 \frac{1}{2}$ Digit or higher. DC Voltage ranges: 100mV to 1000V or better, Voltage resolution 100nV or better. AC Voltage ranges : 100mV to 750V or better: Voltage resolution 100nV or better. Resistance Measurement range : 1Ω - 100MΩ or better: Resistance resolution : 1$\mu\Omega$ or better. DC Current : 10μA-3A or better; current resolution : 10pA or better · AC Current : 100μA-3A or better : Current resolution : 100pA or better. Temperature measurement : From all kind thermocouple, RTD and thermistor. Frequency Measurement up to 300 KHz. Inbuilt Digitizer with Sampling Rate Programmable kS through MS/s · Maximum Resolution 16bits: Minimum Record Time 1 μs. · Maximum Record Length (Volatile) 7 million with standard buffer. Standard LAN/LXI and USB-TMC communication interfaces. System should have provision of measurement of above-mentioned analogue signals via Plug-In Module. There should be minimum slots for 2 plug-in module accommodation so that at least 80 channels of different signals may be recorded simultaneously.

				System should have plug-in module of 40 channels and leaving empty slots for future expansion. Operating software should be accompanied with the unit. OEM should have service centre & NABL Accredited Lab facility in India Channels 3 analog Channel & 3 Current Channel with option of channel enhancement in future. Bandwidth Instrument should capable to operate for frequency range DC to 30MHz or more Allowable input Direct Meas. of 250V AC/DC or more without any attenuation Probe Max. Sampling rate 200 MS/s, all channels simultaneously for analog channel Storage words capacity 1 G words or more Recording Method Normal & Envelope Current Measurement Upto 500 A AC/DC or more with 16-bit ADC Additional Feature Instruments should calculate 10 or more waveforms with sampling of 1M points or more. Instrument should able to do basic power analysis calculation, FFT, Mathematics Functions etc Memory 256 GB or more by using internal/SSD Storage Interface USB 3.0, LAN, SD, SATA, Monitor Output Operating Temperature 0 to 40 deg. Celsius
4 (b)	DESKTOP	DESKTOP	1	DESKTOP-1 no. Processor 13th Gen Intel® Core™ i7 or equivalent Operating System Windows 11 English Monitor 24 Monitor - Memory 16 GB, Storage 500 Gb SSD, Microsoft Office, Security Software 1-year
5	High Current range Current Probe	PROBE SET	2	30 A AC/DC current probe, 100 MHz BW or better. Minimum current: 1mA. DC offset adjustment. Safety Certification: UL, CSA, ET.
6	LCR Meter	COMPONENT TESTER AND LCR /IMPEDANCE ANALYZER	1	Measurement of Parameters Z Impedance, Y Admittance, θ Phase angle, Rs(ESR) Series-equivalent resistance = ESR, Rp Parallel- equivalent resistance, Rdc DC resistance, X Reactance, G Conductance, B Susceptance, Cs Series-equivalent static capacitance, Cp Parallel- equivalent static capacitance, Ls Series-equivalent inductance, Lp Parallel-equivalent inductance, D(tanδ) Loss coefficient = $\tan \delta$ ($\delta = \text{delta}$), Q Q factor ($Q = 1/D$). - Equivalent Circuit Analysis should be available - Save / Recall feature for saving Instrument setups. Test Fixture Different kind of Test Fixture like 2/4 Terminal, SMD Fixture etc. should be available and compatible. Test Frequency 5 Hz - 5 MHz – 600 MHz or better Frequency Resolution 10 mHz Z 100 mΩ to 5 KΩ and upto 100 MΩ R, X 100 mΩ to 100 MΩ. (Ranges Depend on operating Frequency) C 0.008pF – 39 F (Ranges Depend on operating Frequency) L 0.0540 nH to 7.90 mH (Ranges Depend on operating Frequency) Basic Accuracy Z: $\pm 0.08\%$ rdg. θ: $\pm 0.05^\circ$ Sweep Parameters Frequency, Signal Voltage/Current, Voltage Signal Level 5 mV rms to 5 V rms / - 40 dBm to +7 dBm Current Signal Level 10 μArms to 50 mArms No. of Measurement Points 800 or better Interface LAN, USB (2.0), GPIB, RS232-C or along with some more interfaces. Cable Length Measurement: 1m or longer Trigger Internal, External, and Manual. With Point Trigger/Sweep Trigger. Mode Impedance Analyzer / LCR Meter Display 5.7-inch color TFT, display / 8.4-inch color TFT with touch panel Power Supply 90 to 264 V AC, 50/60 Hz, 150 VA max. Accessories Test Fixture to be supplied: Axial Radial, 4 Terminal – Crocodile (5 MHz), High Frequency Test Fixture, Calibration Kit. Service OEM should have service centre in India. Ranging Auto/Manual Power Supply 220V/230 V, 50 Hz. AC.

7	Rework station	Soldering and desoldering station	5	Soldering desoldering tool kit Tip for each -5qty. Hote air nozzle 5 pc different size Soldering tip 10 Pc diffrrnt size Bit cleaning pad 10pc Fume Extractor- Voltage 110V / 220V Power 200W Filters 3 layers Ducts 2 Systemic flow 2 x 150 rh Air velocity 2 x 11 m/s Filtering Efficiency 0.3µm 99.97% Length of duct <1>75mm x 1.4m Noise <55dB Specification Input 230 Vac +/-10 % soldering iron 24 VAC / 60 W Hot air gun max power rating 250W Air blower 18 VDC brush less fan Air flow 24 LPM Tip to ground resistance under 2 ohms Tip to ground potential under 2 mv Temperature range 180-480 °C For soldering Temperature range 200-450 °C For Hot air System includes: control unit, soldering iron, hot air gun, single hole nozzles 2 Nos, pick up tool Features Micro processor based pid control digital soldering station Digital display for temperature reading. Japanese ceramic heater with quick heat recovery Wide range of inter changeble soldering bits & nozzles Long life soldering iron bit with oxygen free copper & 300 micron iron plating covered with nickel & chrome Micro control system,digital display,easy to work with Pulses heating method,protect heating element,hot air blower from over heating,thus prolongs the machine's service life. Automatic cool off system,protect the heater from overheating. Sleek & Light weight soldering iron & Hot air handle
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8	High Precision Benchtop Multimeter	Bench Digital Multimeter with 6 and half to 7 and half digit precision or better and wide range measurements (L-C-R) minimum. Temperature by thermocouple(optional)	1	Precision multimeter with 6½- to 7½-digit resolution • Capture and display waveforms or transients with 1 MS/sec digitizer • internal memory buffer; store over 11 million readings in standard mode or 27.5 million in compact mode • 14 PPM basic one-year DCV accuracy • 100 mV, 1 Ω, and 10 μA ranges offer the sensitivity needed for measuring low level signals such as portable device sleep mode currents Auto-calibration feature improves accuracy and stability by minimizing temperature and time drift • Display more with five-inch, high resolution touchscreen interface DMM to provides 15 basic measurement functions. In addition to the digitizing voltage and current functions, it includes capacitance, ACV and ACI, temperature (RTD, thermistor, and thermocouple), 2- and 4-wire resistance, dry circuit ohms, period, frequency, diode test, and DC voltage ratio • Readings and screen images can be saved quickly via the front panel USB memory port • Multiple connectivity options: GPIB, USB, and LXI compliant LAN interfaces • Two-year specifications enable longer calibration cycles Frequency- DC Voltage-100.00000 mV-1000Vat Resolution of (10 nV-100 μV) Resistance-up to 1Gohm@Resolution 0.1 μΩ DC Current-10.000000 μA@ resolution 1 pA True RMS AC Voltage and AC Current-100.0000 mV @0.1 μV resolution. Digitizer Characteristics- Maximum Resolution 18 bits. Measurement Input Coupling DC or AC (voltage only). Sampling Rate 82 Programmable 1 k through 1 million. Volatile Sample Memory with Timestamp27.5 million. Minimum Record Time 1 μs. Timestamp Resolution 1 ns with standard or full buffer style Math Functions Rel, dB, Limit Test, Percentage, 1/x, and mX + b. Remote Interface:LAN,USB,GPIB,USB HOST
9	High Voltage Differential Probe	Isolated measurement by MSO/DSO	3	High voltage differential probe can convert high differential input voltage to low voltage and display the waveform on oscilloscope. General requirements are as follows: Band Width: >100MHz Attenuation Ratio: X100 to X1000 Voltage: < 1000Vpp . ±6 kV, 100 MHz high-voltage differential probe,Rise Time <3.6 ns,Cable Length- 1.5 meter,DC Gain Accuracy ±2%,Input Impedance at the Probe Tip-40 MΩ <2.5 pF,

10	Digital Handheld AC/DC clamp meter	True RMS AC/DC Clamp meter (Battery operated)	4	Specifications AC current Range 40.00 A / 400.0 A Accuracy: 2% $\pm$ 5 digits (45 Hz to 65 Hz) : 2.5% $\pm$ 5 digits (65 Hz to 400 Hz) DC current Range 40.00 A / 400.0 A Accuracy: 2% $\pm$ 5 digits AC voltage Range: 600.0 V Accuracy: 1.5% $\pm$ 5 digits DC voltage Range: 600.0 V Accuracy: 1.0% $\pm$ 5 digits Resistance Range: 400.0 Ω / 4000 Ω / 40.00 kΩ Accuracy: 1.0% $\pm$ 5 digits Continuity $\leq$ 20 Ω Frequency: up to 500.0 Hz AC response True-RMS Backlight: Yes Data hold: Yes Temperature measurement: Yes, by thermocouple Range of temperature: $<-10.0^{\circ}\text{C}$ to $>400.0^{\circ}\text{C}$ Min/Max: Yes Size: Easy to operate by single hand Min wire diameter 30 mm (600 MCM) Weight <300 g Category rating CAT III 600 V CAT IV 300 V Standard Test leads, fuse & other required accessories to be provided.
11	Programmable AC Power Supply 5KVA	19" Rack mount type with built in display	1	Power rating: 4.5kVA/4.5KW or higher Voltage range: 0-350V or more Setting Accuracy 0.1% of RD+0.2% of FS Resolution 0.1 V Line Regulation 0.10% or better Load Regulation 0.20% or better Frequency: 20 Hz-500Hz +DC Single-phase or three-phase output selectable Programmable slew rate setting for changing voltage and frequency. Programmable voltage and current limit High output current crest factor for inrush current testing Turn on and turn off phase angle control. TTL signal which indicates output transient. LIST, PULSE, STEP mode functions for testing Power Line Disturbance (PLD) simulation and inbuilt arbitrary waveform generation. Voltage dips, short interruption, and voltage variation simulation Harmonics and inter-harmonics waveform synthesizer Analog programmable interfaces Remote interfaces: Standard LXI LAN, USB and RS232, optional GPIB. Higher output power capability by implementing master-slave parallel output function up to 100KVA. Voltage Operating Range 3ϕ 200-240V$\pm$10%VLN (WYE) ; 3ϕ 200-400V$\pm$10%VLL (Delta) Power Factor 0.97 (Typical) or better Efficiency $>70\%$ or better Protections: OVP, OCP, OPP, OTP Cooling Forced air cooled (temperature-controlled fans) Built in ON/OFF Power Switch Touch bigger graphic LCD display for easy setting and measurements read back. Soft key should support menu driven interface. Rotary Knob for adjusting voltage, frequency, current & other parameters. Master/Slave Port for parallel application Operating software should be compatible with min Windows 10 Safety & EMC CE mark-CE marked for EMC Directive 89/336/EEC per EN61326-1:2013, Class-A for emissions and immunity as required for the EU CE Mark. Standard power cord, Test leads, Product Warranty Card, backup fuse & other required accessories.

12	Power analyser	Power analyser	1	Channels : 3 Voltage & 3 Current Measurement lines 1-phase-2-wire, 3-phase-3-wire, 3-phase-6-wire, 3-phase-4-wire Measurement range Voltage: 6 V, 15 V, 30 V, 60 V, 150 V, 300 V, 600 V, 1000 V Current Measurement: Direct input 500 mA, 1 A, 2 A, 5 A, 10 A, 20 A, 40 A (for crest factor 3) 250 mA, 500 mA, 1 A, 2.5 A, 5 A, 10 A, 20 A (for crest factor 6) • External sensor input 50 mV, 100 mV, 200 mV, 500 mV, 1 V, 2 V, 5 V, 10 V (for crest factor 3) 25 mV, 50 mV, 100 mV, 250 mV, 500 mV, 1 V, 2.5 V, 5 V (for crest factor 6). Basic accuracy for 50/60 Hz Power $\pm 0.1\%$; Sampling frequency 100Ks/s or better. ADC resolution 16-bit or better, Measurement frequency band DC, 0.1 Hz to 100KHz or better. Maximum input voltage 1000 V AC, peak Maximum rated line-to-ground voltage 600 V CAT III, 1000 V CAT II Measurement parameters voltage (U), current (I), active power (P), apparent power (S), reactive power (Q), power factor (λ), phase angle (ϕ), voltage frequency (fU), current frequency (fI), efficiency (η), loss (Loss), voltage ripple factor (Urf), current ripple factor (Irf), current integration (Ih), power integration (WP), voltage peak (Upk), current peak (Ipk) Harmonics measurement : (Wideband mode: Maximum analysis order 500th, IEC measurement mode) - Waveform recording: recording capacity 5M words $\times$ ([voltage/current]) $\times$ - No. of channels + motor waveforms) Motor analysis ,voltage, torque, RPM, frequency, slip, motor power - FFT analysis (Power spectrum analysis) IEC measurement mode When the measurement line has a frequency of 50 Hz or 60 Hz, the instrument can perform harmonic measurements according to IEC61000-4-7 and voltage fluctuation/flicker measurements according to IEC61000-4-15 IEC-compliant harmonic measurement Compliant with IEC 61000-4-7:2002 Analysis order: Harmonics: 0th to 200th orders, Inter-harmonic: 0.5th to 200.5th orders External interface: USB flash drive, LAN, GPIB, RS-232C, external control, Current Probe: upto 500A AC/DC with frequency range DC to 200KHz with basic Accuracy: DC < f $\leq$ 100 Hz: 0.2% + 0.01% Power supply 100 V to 240 V AC, 50/60 Hz, 230 VA. OEM should have service centre. Safety Certification: UL, CSA, ET.
13	Programmable Electronic Load	Programamable elcronic dc load	2	Product Type: DC Electronic Load Housing: 19" rack Voltage (U): 750 or better Current (I) Ampere: 50.00 Power (P) Watt: 15000.00 Regulation mode CV, CC, CP, CR with fast crossover DC Input static Load regulation CV $\leq 0.05\%$ FS Line regulation CV $\leq 0.01\%$ FS temperature) Load regulation CC $\leq 0.1\%$ FS Line regulation CC $\leq 0.01\%$ FS Stability CC $\leq 0.02\%$ FS Integrated function generator with predefined curves Integrated battery test mode Photovoltaics test mode, MPPT Human Interface: Touch panel & Menu Build-in Interfaces-USB, Ethernet Analog USB Host, Master-Slave-Bus, Share-Bus 5 inch Color TFT display with touch control and intuitive user interface Galvanically isolated Share-Bus for parallel operation. Master-Slave-Bus for parallel operation. Command languages and drivers: SCPI and ModBus, LabVIEW, IVI. AC Input Voltage, Phases 400 V- 480 V $\pm 10\%$, 3ph Frequency 45-66 Hz Power factor > 0.99 Recover DC energy to local grid with efficiency $> 90\%$ Safety Certification: UL, CSA, ET. EMC CISPR 11, class B ,FCC 47 CFR Part 15B, Unintentional Radiator, class B EN 61326-1 include tests according to: - EN 61000-4-2 - EN 61000-4-3 - EN 61000-4-4 - EN 61000-4-5 - EN 61000-4-6

14	Mixed Signal Oscilloscope	MSO	1	Minimum analogue channels-4 Record length (all analog / digital channels)-31.25 M points simultaneously Bandwidth-350 MHz. Sample rate (all analog / digital channels)- Real-time: 6.25 GS/s simultaneously DC Gain Accuracy 50 Ω: $\pm 1.0\%$, 1 MΩ and 250 kΩ: $\pm 1.0\%$, ADC Resolution 12 bits Waveform capture rate->500,000 waveforms/s DVM 4-digit DVM Trigger Frequency Counter 8-digit frequency counter Position range-± 5 divisions Offset accuracy-$\pm (0.010 \times \text{offset} - \text{position} + \text{DC balance})$ DC Balance is 0.2 div (0.4 div in 500 $\mu\text{V/div}$) Sample rate range- 6.25 GS/s simultaneously on all channel . Display/Display type-13.3 in. (338 mm) optically-bonded LCD display Display resolution-1,920 horizontal $\times$ 1,080 vertical pixels AFG (Arbitrary/Function Generator) 50MHz, and power measurements and analysis. Connectivity-USB 2.0 Host, USB 2.0 Device (5 ports); LAN (10/100/1000 Base-T Ethernet); HDMI; Requires connection to high definition display (1,920 x 1,080 resolution) Analog probe 500 MHz probes probe per channel to be provided with Input impedance at the probe tip 10 MΩ, <4 pF, 2. Galvanic isolation between probe tip and the oscilloscope Available in three bandwidths: 500 MHz, Wide current measurement range determined by the shunt used with 1X, 10X or 100X probe tips Noise <4.70 nV / $\sqrt{\text{Hz}}$ (<21 μVRMS at 20 MHz) Up to 90 dB CMRR at 1 MHz Maximum common mode voltage: 1.8 kV; For use in a Pollution Degree 1 environment; transient level not to exceed 5 kVpk 1.5% DC gain accuracy Compatible with MSO instruments, Vertical system - digital channels Number of channels 8 digital Vertical resolution 1 bit Minimum detectable pulse width, typical 1 ns Thresholds One threshold per digital channel Threshold range ± 40 V Threshold resolution 10 mV Threshold accuracy $\pm [100 \text{ mV} + 3\% \text{ of threshold setting after calibration}]$ Input hysteresis, typical 100 mV at the probe tip Input dynamic range, typical 30 Vpp for $F_{in} \leq 200$ MHz, 10 Vpp for $F_{in} > 200$ MHz Absolute maximum input voltage, typical ± 42 V peak Minimum voltage swing, typical 400 mV peak-to-peak Input impedance, typical 100 kΩ Probe loading, typical 2 pF
15	Logic analyser	LOGIC analysers	1	Min digital channels- 48 Record length digital channels)-62 M points simultaneously Sample rate (all analog / digital channels)- Real-time: 6.25 GS/s simultaneously DC Gain Accuracy 50 Ω: $\pm 1.0\%$, 1 MΩ and 250 kΩ: $\pm 1.0\%$, ADC Resolution 12 bits Waveform capture rate->500,000 waveforms/s DVM 4-digit DVM Trigger Frequency Counter, 8-digit frequency counter Offset accuracy-$\pm (0.010 \times \text{offset} - \text{position} + \text{DC balance})$ DC Balance is 0.2 div (0.4 div in 500 $\mu\text{V/div}$) Sample rate range- 6.25 GS/s simultaneously on all channel . Display/Display type-13 optically-bonded LCD display Display resolution-1,920 horizontal $\times$ 1,080 vertical pixels connection to high definition display (1,920 x 1,080 resolution) Vertical system - digital channels Number of channels 8 digital Vertical resolution 1 bit Minimum detectable pulse width, typical 1 ns Thresholds One threshold per digital channel Threshold range ± 40 V Threshold resolution 10 mV Threshold accuracy $\pm [100 \text{ mV} + 3\% \text{ of threshold setting after calibration}]$ Input hysteresis, typical 100 mV at the probe tip Input dynamic range, typical 30 Vpp for $F_{in} \leq 200$ MHz, 10 Vpp for $F_{in} > 200$ MHz Absolute maximum input voltage, typical ± 42 V peak Minimum voltage swing, typical 400 mV peak-to-peak

				Input impedance, typical 100 kΩ Probe loading, typical 2 pF Below decoded to be tested. NFC serial decoding and analysis Aerospace serial bus triggering and analysis (MIL-STD-1553, ARNIC 429) Audio serial triggering and analysis (I2S, LJ, RJ, TDM) Automotive serial triggering and analysis (CAN, CAN FD, CAN XL, LIN, FlexRay) SENT serial decoding and analysis CXPI serial decoding and analysis Ethernet serial triggering and analysis (10BASE-T, 100BASE-T) eSPI serial decoding and analysis EtherCAT serial decoding and analysis eUSB 2.0 serial decoding and analysis I3C serial decoding and analysis Manchester serial decoding and analysis MDIO serial decoding and analysis NRZ serial decoding and analysis 1-Wire serial decoding and analysis Power Management serial triggering and analysis (SPMI) PSI5 serial decoding and analysis SDLC Serial decoding and analysis SMBus serial decoding and analysis Spacewire serial decoding and analysis SVID analysis USB 2.0 serial triggering and analysis (LS, FS, HS)
16	Frequency Counter	Frequency Counter	1	Key Performance Specifications • 20 GHz Models • Up to 3 Input Channels • 50 ps , 100 ps, Single-shot Time Resolution • 12 Digit/s Frequency Resolution • 0.001° Phase Resolution , 3 mV or better Voltage Resolution • Optional 5×10⁻⁸ High-stability Oven Time Base Measurement Throughput • 250k Sample/s Data Transfer Rate to Internal Memory (Up to 3.75M samples stored) • Up to 15k Sample/s Data Transfer Rate over USB/GPIB Bus (Block mode) • Up to 650 Individually Triggered Measurements/s Available Functions and Features • Automated Measurements: Frequency, Period, Ratio, Time Interval, Time Interval Error, Pulse Width, Rise/Fall Time, Phase Angle, Duty Cycle, Maximum Voltage, Minimum Voltage, Peak-to-Peak Voltage • Totalize Measurement • Multi-parameter Display • Trend Plot Mode • Measurement Statistics Mode • Histogram Mode • Allan Deviation • Zero Dead-time Frequency/Period Measurements • Continuous Data Streaming over USB/GPIB Bus during Measurement • Programmable Pulse Output from 0.5 Hz to 50 MHz Connectivity • Optional Rear-panel Inputs • USB Device and GPIB Ports on Rear Panel for Quick PC Connectivity • GPIB Interface Supports Full SCPI-compatible Programmability and offers an Emulation Mode for Plug-and-Play Replacement in Existing ATE Systems • External Arming Input • 10 MHz Reference Oscillator Output

Other equipment / Prototyping Fabrication Equipment, Development Kits and Components

S. No	Product Name	Description	Quantity	Generic Specifications
17 (a)	NI (Multisim Power Pro)	Simulation Software tool	1	Electronic circuit design and simulation software used primarily in academia, research, and industry for prototyping and analyzing electronic circuits. Capability to combine schematic capture, SPICE simulation, and analysis tools to enhance productivity and accuracy in circuit design. Key Features: 1. Schematic Capture • Intuitive drag-and-drop interface for building circuit diagrams. • Extensive component library with thousands of components including analog, digital, power electronics, and mixed-signal devices. • Support for custom components and subcircuits. 2. SPICE Simulation • Industry-standard SPICE (Simulation Program with Integrated Circuit Emphasis) for simulating electronic circuits. • Real-time interactive simulation to observe circuit behavior as components are adjusted. • Comprehensive support for transient, AC, DC, noise, and parametric sweeps. 3. Analysis and Visualization • Integrated measurement tools for analyzing voltage, current, frequency, and more. • Graph plotting and real-time data visualization. • Advanced analysis features such as Fourier analysis, Bode plots, and worst-case analysis. 4. Power Electronics Design • Specialized features for power electronics including IGBT, MOSFET, transformers, and more. • Modeling and simulation of switching power supplies, motor drives, and converters. • Accurate thermal and transient behavior modeling for power components. 5. Fault Simulation and Education Features • Fault insertion for educational purposes and reliability testing. • Built-in virtual instruments (oscilloscopes, signal generators, multimeters). • Supports teaching circuits concepts with interactive features. 6. Design Validation • PCB layout integration with tools like Ultiboard for end-to-end design flow. • Verification of design rules and constraints for manufacturing readiness.
17 (b)	DESKTOP	DESKTOP	1	DESKTOP-1 no. Processor 13th Gen Intel® Core™ i9 or equivalent Operating System Windows 11 English Monitor 24 Monitor - Memory 64 GB, Storage 2TB SSD, 12GB graphics. Microsoft Office, Security Software 1-year
18	Analog Signal Generator	Analog Signal Generator	1	Frequency Range 9 KHz to 18 GHz Frequency setting Resolution 0.001 Hz Aging < $\pm 5 \times 10^{-7}$/year Provision for reference frequency input & output 10 MHz SSB Phase Noise declared "1 GHz offset 10 KHz < -139dBc/Hz 10 GHz offset 10 KHz < -126dBc/Hz 20 GHz offset 10 KHz < -120dBc/Hz or better " Maximum Output Level (dBm): 20 GHz +20 dBm Minimum Output Level (dBm) : 20 GHz -15 dBm Non Harmonics declared at >10 KHz carrier offset, CF=1 GHz < -70 dBc Sub Harmonics at level >-10 dBm -60 dBc Output level setting Resolution 0.01 dB Accuracy declared at Levels >- 75 dBm ± 1 dB (Flatness is included within the accuracy specification.) RF output connector SMA/3.5/2.92 mm Power Requirements as per Indian standard Interface GPIB, LAN, USB Remote programming language SCPI Operating Temperature (Degree C) 0 °C to +50 °C Operating Humidity 5 % to 95 % at 40 °C (non-condensing)
19	FDM 3D	FDM 3D	1	FDM 3D Printer Industrial Grade with 3D scanner

	Printer Industrial Grade	Printer Industrial Grade with 3D scanner		
20	IOT Kits	IoT Integration Board	2	Multi Wireless IoT Kit Specifications: Multiple Micro-controllers & Board • STM32WLE5JC from ST microelectronics • ESP32 • Multiprotocol LPWAN • 32-bit Arm Cortex-M4 • Modulation: LoRa (SoC), (G)FSK, (G)MSK & BPSK • Memory: Up to 256KB Flash, 64KB SRAM ESP32 WROOM-32E from Espressif • SoCs, Xtensa® dual core 32-bit LX6 microprocessor • 4MB flash available • Communication Interfaces: 2.4 GHz Wi-Fi +Bluetooth® • Bluetooth LE module 5.0 On board devices IO Peripherals • 3x RGB • 2x Push Button • 2x Slide Switch • 1x TFT Display • 1x Buzzer • 2x Relays • 0-10V PWM Output • USB to UART Converter • Mini Breadboards 2 No's • GPIO's (Directly from the MCU chipsets) Sensor & modules • SHT31 - Temperature & Humidity • TFT Display General Sensors • IR Sensors, • Stepper Motor • Ultrasonic sensor • Soil Moisture • Servo Motor • Multi-meter Onboard Industry Embedded Interfaces: • RS485 • RS232 • I2C • SPI • UART • CAN Industry Embedded Interfaces • RS485 • RS232 • I2C • SPI • UART • CAN • 0-30v • 4-20mA • PWM- Pulse width modulation Wireless Communication Interfaces • ZigBee • NB-IoT • LoRa & LoRaWAN • Wi-Fi • Bluetooth & Bluetooth Low Energy • GSM 2. LPWAN Gateway Specifications: • 1 x SX1308 + 2 x 1257 LoRa® Transceiver • Frequency Band: IN865 • Up to -140 dBm sensitivity • Protocol: Class A/Class B/Class C • 10M/100M RJ45 Ports x 1 • 1 x 2.4G WiFi (802.11 bgn) • 1 x USB host port • Power Input via USB Type-C: 5V, 2A • 70 dB CW interferer rejection at 1 MHz offset

				• Able to operate with negative SNR, CCR up to 9dB • Emulates 49 x LoRa demodulators and 1 x (G)FSK demodulator • Dual digital TX & RX radio front-end interfaces • 10 programmable parallel demodulation paths • Dynamic data-rate (DDR) adaptation • True antenna diversity or simultaneous dual-band operation Interface: • 10M/100M RJ45 Ports x 1 • WiFi: 802.11 b/g/n • LoRaWAN Wireless • Power Input: 5V DC, 2A, Type C • USB 2.0 host connector x 1 • Mini-PCI E connector x 1 • SX1302 + 2 x SX1250 WiFi Spec: • IEEE 802.11 b/g/n • Frequency Band: 2.4 ~ 2.462GHz • Tx power: • 11n tx power : mcs7/15: 11db mcs0 : 17db • 11b tx power: 18db • 11g 54M tx power: 12db • 11g 6M tx power: 18db • Wifi Sensitivity • 11g 54M : -71dbm • 11n 20M : -67dbm Features • Open Source OpenWrt system • Managed by Web GUI, SSH via WAN or WiFi • Remote access with Reverse-SSH or remote.it • Emulates 49x LoRa demodulators • 10 programmable parallel demodulation paths • Pre-configure to support different LoRaWAN regional settings. • Allow to customize LoRaWAN regional parameters. • Support Local decode ABP end node info and transfer to MQTT server • Support Semtech Packet Forwarder 3. IoT cloud platform (1year validity) • Integrated LPWAN Network and Application Server with unified network management and application handling. • Web Application and Android Mobile Application to visualize the Sensor Data and to control the actuators • Supported a Wide range of Technologies including LPWAN, MQTT, and HTTP • Long-Range IoT Device Class Support: Class A & Class C • Long-Range IoT Activation Method Support: ABP & OTAA • Cloud Hosted with data security, and internal protocol adherence. • Multi-channel notifications (E-Mail & Mobile App etc.) for efficient critical information dissemination. • Versatile data export (Excel, CSV, PDF) for seamless data use across business processes. • Real-time device monitoring and control through intuitive dashboards. • Scheduled and data-driven automated downlink to the devices. • Streamlined device and gateway management for registration, administration, and oversight. • Proactive gateway status alerts for quick responsiveness to changes. • Communication failure alerts for proactive intervention and maintenance. • Application Specific data analytics dashboards. • User-friendly widgets visually represent contextual device application data
21	Agritech Kits	Development boards and kits	Consumables	2. 0.5HP Monoblock water Pump – 1 No's 3. IoT Pump Controller with Starter Panel – 1 No's 4. 50 Liter Water storage – 1 No's 5. agriculture sensore 5no each with node and must be compatable to lora. 6. Plumbing with Drip Irrigation – 1 No's 7. IoT Water Level Sensor with Valve Controller – 1 No's 8. & 9. IoT Soil Moisture, Temperature and EC Sensor (Dual Probe) – 2 No's 10. IoT Soil pH Sensor – 3No's 11. IoT Gateway with Solar Panel and SIM Card with 1 Year Data pack – 1 No's

22	Drone kits	Development boards and kits	Consumables	Pixhawk 2.4.8 Basic Flight Controller kit with GPS Module Tarot Multirotor UAV/8-Axis/frame X8-Lite Quadcopter DIY Drone Combo Kit F450 Quadcopter Frame Kit with A2212 KV1000 Brushless Motor and 4 30A ESC and 2 Pair 1045 Propeller DIY Drone Kit with WiFi and Camera QWinOut 450mm Airframe 2.4G 6CH GPS APM2.8 Flight Control RC Quadcopter ARF Combo DIY Full Set Drone with 920KV Motor (Unassembly RTF) QWinOut 330mm DIY RC Drone Kit F330 Frame RC Quadcopter 4-Axle UFO Unassembly Kit 6M GPS APM2.8 Flight Control for Beginners (No Battery and Remote Controller) Parts The essential parts required to build a DIY drone are: 1. Frame: The frame serves as the backbone of the drone and provides stability and support for the other components. -5Pc 2. Flight Controller: The flight controller is the brain of the drone that controls its movement and stability. -1Pc 3. Motors: The motors provide the necessary thrust to lift the drone off the ground and control its movements. -1Pc 4. Electronic Speed Controllers (ESC): The ESC controls the speed of the motors and translates the signals from the flight controller into motor movements. -1Pc 5. Propellers: The propellers are the wings of the drone that generate the lift required for flying. -1Pc 6. Battery: The battery powers the drone and provides the necessary energy for the motors to operate. -1Pc 7. Radio Controller: The radio controller is used to remotely control the drone's movements. -1Pc
23	Active & Passive Component Bank	Various components	Bundle of items	Arduino Uno or equivalent 2 Arduino Nano or equivalent 2 Arduino Mega or equivalent 2 Raspberry Pi 3 Model 1 Solderless 400 pin breadboard 2 Solderless 800 pin breadboard 2 SelfAdhesive Proto Shield 2 USB Cables 2 USB Cables 2 ESP32 2 GSM kit module 1 GPS kit module 1 Jumper cable MaleMale 100 Jumper cable MaleFemale 100

ANNEXURE-II

FORMAT OF TECHNICAL COMPLIANCE

To be printed on Company Letter Head

Tender Inviting Authority : Director, Software Technology Parks of India, Noida

GeM Bid No. : **Dated.....**

Name of Bidder Company :

(i) Checklist of Submitted Document in Technical Bid

S. No.	List of Submitted Document	Compliance (Yes or No)	Remarks, (in any)
1	Copy of certificate of incorporation/ registration of the company, firm, proprietorship, etc.		
2	The bidder should have an average Annual turnover of 4 Cr.during the last three years (FY 2021-22, 2022-23& 2023-24). CA certified copy/ copies of annual turnover statement or copies of audited balance sheet of the bidder for FY 2021-22, 2022-23 & 2023-24.		
3	Copies of executed atleast 3 contract orders of similar nature of worth Rs 2.00 Cr. or more each with at least one contract awarded and completed for Central Government/Autonomous Body/Ministries/ Departments/ PSU's) in the last three financial years ending 31st March 2024. The submitted copies of work order should not be altered, redacted or tempered with in any manner. The copies must clearly mention description and scope of order, name of client, order number and date, order amount, delivery period, etc.		
4	Copy of letter of authorization (on company letter) to signatory, issued by the bidder company, firm, etc.		
5	Copy of Authorized Partnership/ distributorship certificate, issued by OEM to bidder.		
6	Copy of the PAN Card and GST Registration certificates.		
7	Copy of EMD Transaction (NEFT/RTGS) details/Certificate of Udyam Registration for EMD exemption.		
8	Data Sheet of the product(s) offered in the bid are to be uploaded along with the bid documents.		
9	Copy of cancelled cheque or bank passbook of the bidder for refund of EMD amount (Not applicable for EMD exempted bidders).		
10	Any other relevant document.		

(ii) Information of Offered Product

S. No	Lab Equipment	Required Specification	Make & Model No. of Offered Product	Whether Datasheet uploaded (YES/ NO)

I/We hereby certify that

1. I/We have read the complete bid document and corrigendum, if any, complete and understood and accept the complete scope of work and terms and conditions.
2. I/We also have the complete capability to carry out the complete work, defined in this bid document under the mentioned terms and conditions.
3. I/we/our company/firm/organization has/have not been barred/blacklisted by any Government/Public Sector/Private Company, firm or organization.
4. I/We understand that in case any deviation is found in the above statement at any stage, I/we/our company/firm/organization will be blacklisted and will not be permitted to have any dealing with the STPI/ AIC STPINEXT INITIATIVES in future.
5. I/We understand that the quantity provided above is subject to change. I/we agree that in case of any change in the quantities required, I/ we would be supplying the same at the rates as specified in this price bid. I /we agree to adhere to the prices given above even if the quantities undergo a change.

Name:

Signature of Authorized Person

Designation:

Date:

Place:

Company Seal

ANNEXURE-III

BREAK-UP OF COMMERCIAL PROPOSAL

To be printed on Company Letter Head

Tender Inviting Authority : Director, Software Technology Parks of India, Noida
GeM Bid No :**Dated**.....
Name Of Bidder Company :

Break-up of Commercial Offer/Price Schedule

Table - A

No	Equipm ent Categor y	Item Descripti on	Applicable Warranty (in Years)	Units Price (INR)	Units	Total Price (INR)	Total Comprehen sive AMC Cost (In Rs.)	Total in Rupees
A	B	C	D	E	F	G = E x F	H	G+H
1.								
2.								
3.								
4.								
5.								

NET PAYABLE AMOUNT (in words)

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Table B – Yearwise CMC cost of equipment

Sr. No	Name of Equipment	No. of years of warranty	CMC Amount (In Rupees)				Total (in rupees)
			Year 2	Year 3	Year 4	Year 5	
1.	Vibration test equipment	2	Nil	C	D	E	
2. (a)	Impulse tester	5	Nil	Nil	Nil	Nil	
2. (b)	Desktop						
3.	Programmable Power Supply						
4. (a)	Datalogger						
4. (b)	Desktop						
5.	High Current range Current Probe						
6.	LCR Meter						

7.	Rework station						
8.	High Precision Benchtop Multimeter						
9.	High Voltage Differential Probe						
10.	Digital Handheld AC/DC clamp meter						
11.	Programmable AC Power Supply 5KVA						
12.	Power analyser						
13.	Programmable Electronic Load						
14.	Mixed Signal Oscilloscope						
15.	Logic analyser						
16.	Frequency Counter						
17. (a)	NI (Multisim Power Pro)						
17. (b)	Desktop						
18.	Analog Signal Generator						
19.	FDM 3D Printer Industrial Grade						
20.	IOT Kits						
21.	Agritech Kits						
22.	Drone kits						
23.	Active & Passive Component Bank						
	Total (In rupees)	Total Year 2	Total Year 3	Total Year 4	Total Year 5		

I/We hereby certify that

1. All the prices mentioned above are fixed, firm, final, complete and inclusive of all applicable taxes, charges, etc. for complete scope of work, defined in this bid document for all the items listed above.
2. The validity of the bid is 120 days from last date of bid submission.
3. The quantity provided above is subject to change. I/we agree that in case of any change in the quantities required, I/we would be supplying the same at the rates as specified in this price bid. I /we agree to adhere to the prices given above even if the quantities undergo a change.

Name:

Signature of Authorized Person

Designation:

Date:

Place:

Company Seal

Annexure -IV

NON-DISCLOSURE AGREEMENT

To be printed on Non-judicial stamp paper

THIS AGREEMENT is valid till 5 years from the date of work order, and is made by and between AIC STPINEXT, an autonomous body under Ministry of Electronics & Information Technology, Govt. of India herein referred to as 'DISCLOSING PARTY' whose address is C/o STPI, 1st floor Plate-B, Office Block-I, East Kidwai Nagar, New Delhi -110023

M/s.

Both the parties shall mean and include their successors at Office from time to time, legal representatives, administrators, executors and assigns, etc.

This agreement shall govern the conditions of disclosure by disclosing party to Recipient of certain confidential and proprietary information that is oral, written, or in computer file format. Examples of Confidential Information include the identities of companies, consultants and other service providers used by disclosing party, both foreign and domestic, in connection with disclosing party's business, supplier lists, supplier information, computer databases containing customer, product and vendor information, designs, drawings, specifications, techniques, models, documentation, diagrams, flow charts, research and development process and procedures, 'know-how', new product or new technology information, financial, marketing and sales information and projections, product pricing, profitability, marketing techniques and materials, marketing timetables, strategies and development plans, trade names and trademarks not yet disclosed to the public, business methods and trade secrets, and personnel information.

1. **Purpose of Disclosure:** Disclosing party is disclosing the Confidential Information to Recipient in order for Recipient to evaluate the possibility of using disclosing party's services like Call Centers/Contact Centers Projects, Business Process Outsourcing covering all different kind of Verticals, Information Technology Services, Back and Transaction Processing Services, Business Analysis, Business Process Re-engineering, Data Analysis, Quality Analysis and the Statutory & Datacom services etc.
2. Confidentiality Obligations of Recipient. Recipient hereby agrees:
 - (a) Recipient will hold the Confidential Information in complete confidence and not to disclose the Confidential Information to any other person or entity, or otherwise transfer, publish, reveal, or permit access to the Confidential Information without the express prior written consent of Disclosing Party.
 - (b) Recipient will not copy, photograph, modify, disassemble, reverse engineer, decompile, or in any other manner reproduce the Confidential Information without the express prior written consent of disclosing party.

If any Confidential Information is delivered to Recipient in physical form, such as data files or hard copies, recipient will return the Confidential Information, together with any copies thereof, promptly after the purpose for which they were furnished has been accomplished, or upon the request of disclosing party. In addition, upon request off

disclosing party in writing/email Recipient will destroy materials prepared by Recipient that contain Confidential Information.

- (c) Recipient shall use Confidential Information only for the purpose of evaluating Recipient's interest in using disclosing party's services, and for no other purpose. Without limiting the generality of the previous sentence, Recipient specifically agrees not to sell, rent, or otherwise disclose any of disclosing party's Confidential Information either in full or part to any competitor of disclosing party, nor will Recipient use the Confidential Information to directly or indirectly contact or contract with any of disclosing party's employees, vendors, contractors and agents who carry out or otherwise fulfill the services on behalf of disclosing party (its 'Affiliates'). Recipient shall promptly notify disclosing party of any disclosure or use of Confidential Information in violation of this Agreement for which disclosing party shall indemnify the Recipient for that part.

3. **Exclusions.** None of the following shall be considered to be 'Confidential Information':

- (a) Information which was in the lawful and unrestricted possession of Recipient prior to its disclosure by disclosing party;
- (b) Information which is readily ascertainable from sources of information freely/easily available in the general public;
- (c) Information which is obtained by Recipient from a third party who did not derive such information from disclosing party.

4. **Remedies.** Recipient acknowledges that disclosing party's Confidential Information has been developed or obtained by the investment of significant time, effort and expense and provides disclosing party with a significant competitive advantage in its business, and that if Recipient breaches its obligations hereunder, disclosing party will suffer immediate, irreparable harm for which monetary damages will provide inadequate compensation. Accordingly, the disclosing party will be entitled, in addition to any other remedies available at law in equity, to injunctive relief to specifically enforce the terms of this Agreement. Recipient agrees to indemnify disclosing party against any losses sustained by disclosing party, including reasonable attorney's fees, by reason of the breach of any provision of this Agreement by Recipient. Recipient further acknowledges that disclosing party's business would be severely hurt if Recipient were to directly contract with its Affiliates without the participation of disclosing party. Therefore, if Recipient directly or indirectly contracts with any of disclosing party's Affiliates whose identity and/or particulars are disclosed to Recipient pursuant to this Agreement (Except Affiliates with whom Recipient had a demonstrable prior existing business relationship). In the event of circumvention, by the Recipient whether directly or indirectly, the disclosing party shall be entitled to a legal monetary penalty award, equal to the maximum consulting service/consulting fee, commission/profit originally expected or contemplated to be realized from such transaction(s). This payment levied against and paid immediately by the party engaged in circumvention and also in addition includes all legal expenses in the recovery of these funds if collected through legal action by either party. This penalty shall not apply when the alleged Circumventure does not result in a transaction being concluded. The parties acknowledge it would be extremely difficult or impossible to accurately it would be extremely difficult or impossible to accurately fix the actual damages that disclosing party would suffer in the event of a breach of the aforementioned obligations, and that the liquidated damages provided for herein are a reasonable estimate of disclosing party's actual damages, which shall be fixed by the arbitrator who shall also be in the same business.

5. No Rights Granted to Recipient. Recipient further acknowledges and agrees that the furnishing of Confidential Information to Recipient by disclosing party shall not constitute any grant or license to Recipient under any legal rights now or hereinafter held by disclosing party.
- 6. Miscellaneous Provisions:**
- (a) This Agreement sets forth the entire understanding and Agreement between the parties with respect to the subject matter hereof and supersedes all other oral or written representations and understanding. This Agreement may only be amended or modified by a writing signed by both parties.
 - (b) If any provision of the Agreement is held to be illegal, invalid or unenforceable, the legality, validity and enforceability of the remaining provisions will not be affected or impaired.
 - (c) This Agreement is binding upon the successors, assigns and legal representatives the parties hereto, and is intended to protect Confidential Information of any successors or assign of disclosing party.
 - (d) Each Provision of this Agreement is intended to be valid and enforceable to the fullest extent permitted by law. If any provision of this Agreement is determined by any court of competent jurisdiction or arbitrator to be invalid, illegal, or enforceable to any extent, that provision shall, if possible, be construed as though more narrowly drawn, if a narrower construction would avoid such invalidity, illegality, or unenforceability, be served, and the remaining provisions of this Agreement shall remain in effect/force.
 - (e) The terms and conditions governing the provision of the agreement shall be governed by and construed in accordance with laws of the union of India and shall be subject to the exclusive Jurisdiction of the courts of Noida.
 - 1. Any or all disputes arising out or in connection with this agreement shall so far as may be possible to settled amicably between the parties within a period of thirty days from such dispute(s) arising.
 - 2. In the event of any queries, dispute or difference arising out of the agreement or in connection there-with (except as to the matters, the decision to which is specifically provided under this agreement), the same shall be referred to arbitration of a sole arbitrator to be appointed by the Director General, STPI.
 - 3. The provisions of the Arbitration and Conciliation Act, 1996 shall be applicable and the award made there under shall be final and binding upon the parties hereto, subject to legal remedies available under the law. Such differences shall be deemed to be a submission to arbitration under the Indian Arbitration and Conciliation Act, 1996, or of any modifications, Rules or re-enactments thereof.
 - 4. The parties shall mutually ensure and co-operate with each other in the arbitral proceedings, so that the same can be concluded and awarded within a period of six months from the date of commencement of the arbitral proceedings.
 - 5. The arbitral proceedings shall be conducted in English, both parties shall be bound by the award passed and delivered by the arbitral tribunal and shall not attempt to challenge the authenticity of the award, before any authority or courts or any other statutory body.
 - 6. The venue of arbitration shall be Noida, India.
 - (f) If any litigation is brought by either party regarding the interpretation or enforcement of this Agreement, the prevailing party will recover from the other all costs, attorney's fees and other expenses incurred by the prevailing party from the other party.

Signed on behalf of

Software Technology Parks of India Noida/

AIC STPINEXT

.....

Signed on Behalf of

.....

.....

.....

Signature:

Name:

Designation:

Date:

Signature:

Name:

Designation:

Date:

ORIGINAL EQUIPMENT MANUFACTURER (OEM) AUTHORIZATION FORMAT
(Applicable in case of OEM authorized supplier is participating in the tender)

Ref :

Date :.....

To, Director
STPI
Ganga Software Technology Complex, Sector-29 Noida-201303

Sub : Manufacturer Authorization for Tender No:

Dated:

Sir,

We, <OEM/ Manufacturer name> manufacturer, having our registered office at <OEM/Manufacturer address>, are an established and reputed manufacturer of GBFS System.

We confirm that <Bidder Name> having its registered office at <Bidder Address> is our authorized partner/distributor cum service provider for supply and installation of since last years as per the tender requirements.

We authorize them solely to quote equipment in the above mentioned tender having our equipment. Our full support is extended to him in all respects for supply, warranty and maintenance of our products. We also ensure to provide the onsite warranty service support for the supplied equipment for a period of ONE year from date of completion of the Acceptance Test of the equipment.

We undertake that the quote equipments of latest manufacture conforming to the current production standard and the equipment shall not reach end of support for the period of at least SIX (6) years from date of completion of the Acceptance Test of the equipment.

We also undertake that in case of default in execution of this tender by the <Bidder Name>, the

<OEM/Company Name> will take all necessary steps for successful execution of services & support as per the terms and conditions of the tender.

Thanking You

For <OEM/ Manufacturer name>

<(Authorized Signatory)> Name

Designation: Country Head/Legal Head

ORIGINAL EQUIPMENT MANUFACTURER (OEM) CERTIFICATE

(Applicable in case of OEM directly participating in the tender)

Ref :

Date :

To Director

STPI, Ganga Software Technology Complex, Sector-29 Noida-201303

Sub : Manufacturer Authorization for Tender No:

Dated:

Sir,

We, <OEM/ Manufacturer name> manufacturer, having our registered office at <OEM/Manufacturer address>, are an established and reputed manufacturer of since last years.

We are authorized to quote equipment in the above mentioned tender having our equipment. We undertake to supply, install & provide warranty and maintenance services of our products. We also ensure to provide the on- site comprehensive warranty service support for the supplied equipment for a period of ONE year from date of completion of the Acceptance Test of the equipment. We also undertake that the quote equipments of latest manufacture conforming to the current production standard and the equipment shall not reach end of support for the period of at least SIX (6) from date of completion of the Acceptance Test of the equipment.

We also undertake to take all necessary steps for successful execution of services & support as per the terms and conditions of the tender.

Thanking You

For <OEM/ Manufacturer name>

<(Authorized Signatory)> Name

Designation: Country Head/Legal Head

FORM A- Format of Technical Bid		
Sr. No	Item	Details
A.	FIRM/COMPANY PROFILE	
1.	Name & Address of the Firm/Company	
2.	Telephone: Fax numbers: Email Id:	
3.	Name & Designation of the Authorized Signatory: Contact number: Email Id:	
4.	PAN of the Firm/Company	
5.	GST No. of the Firm/Company	
6.	Registration no. of the Firm/Company	
B.	Details of Experience/Projects of the Firm/Company	
1.		
C.	Details of Turnover - CA Certified Copy (Year Wise)	
1.		
D.	Copies of Purchase Order	
1.		
E.	Technical Compliance	
F.	Bid Security Declaration	
G.	Any other Information	

	I have carefully gone through the Terms & Conditions (T&C) of the RFP. I, on behalf of the bidder, declare that all the T&C of this RFP are acceptable and will be binding on the bidder. I further certify that I am an Authorized Signatory of the company and competent to make this declaration. Authorized Signatory <u>OFFICE SEAL</u> Date: _____ Name: _____ Place: _____ Designation: _____	

FORM B

UNDER TAKING REGARDING BLACKLISTED

(To be uploaded by the Bidder on its Letter Head)

We declare and confirm that (i) we have not been blacklisted by any Central/ State Government department or Public Sector Undertaking or Autonomous Body and none of our works had ever been terminated by client after award of contract during last three years; and (ii) no agent, middleman or any intermediary has been, or will be engaged to provide any services, or any other item of work related to the award and performance of this Contract. We acknowledge the right of the STPI, if STPI finds to the contrary, to declare our Tender to be non-compliant and if the Contract has been awarded to declare the Contract will be null and void.

We also declare that the data provided by STPI in support to their query will be used only for the defined scope of work and it will not be shared with any other person/institution/firm/company/corporation/body etc. unless specifically permitted by STPI. We acknowledge the right of the STPI, to claim appropriate damages/compensation from us on account of breach of this declaration and the decision of STPI in this regard shall be final.

Authorized Signatory with Seal

FORM C

BID-SECURINGDECLARATION

Date:

Bid No.:

To: Software Technology Parks of India, Noida

We, the undersigned, declare that:

We understand that, according to your conditions, bids must be supported by a Bid-Securing Declaration. We accept that we will automatically be suspended from being eligible for bidding in any contract with the Co. for the period of 5 years, if we are in breach of our obligation(s) under the bid conditions, because we:

- a) have withdrawn our Bid during the period of bid validity specified in the Letter of Bid; or
 - b) having be unnotified of the acceptance four Bid by the Co. during the period of bid validity,
-
- I. fail or refuse to execute the Contract, if required, or
 - II. fail or refuse to furnish the Performance Security.

We understand this Bid-Securing Declaration shall expire if we are not the successful Bidder.

Signature:

Name & Designation of Authorized Signatory Date:

Place:

FORM D

FORMAT OF THE BANKGUARANTEE FOR PERFORMANCESECURITY
(in non judicial stamp paper)

To,

Software Technology Parks of India Noida

WHEREAS (Name and address of the supplier) (hereinafter called “the supplier”) has undertaken, in pursuance of contract no dated to supply (description of goods and services) (herein after called “the contract”).

AND WHEREAS it has been stipulated by you in the said contract that the supplier shall furnish you with a bank guarantee by a scheduled commercial recognized by you for the sum specified there in as security for compliance with its obligations in accordance with the contract;

AND WHEREAS we (Name of the Bank) have agreed to give the supplier such a bank guarantee;

NOW THEREFORE we hereby affirm that we are guarantor sand responsible to you, on behalf of the supplier, up to a total of (amount of the guarantee in words and figures), and we (Name of the Bank) undertake to pay you, upon your first written demand declaring the supplier to be in default under the contract and without cavil or argument, any sum or sums within the limits of (amount of guarantee) as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

We (Name of the Bank) hereby waive the necessity of your demanding the said debt from the supplier before presenting us with the demand.

We (Name of the Bank) further agree that no change or addition to or other modification of the terms of the contract to be performed thereunder or of any of the contract documents which may be made between you and the supplier shall in any way release us from any liability under this guarantee and whereby waive notice of any such change, addition or modification.

This guarantee shall be valid upto the.....dayof,20.....

(Signature of the authorized officer)
address of the Branch

Name and designation of the officer Seal, name & address of the Bank and

WITNESS1

WITNESS2

.....(Signature)

.....(Signature)

Attorney as per Power of Attorney:

Attorney number and Date:

FORM E
BID ACCEPTANCE LETTER
(To be given on Company's Letter Head)

Date: _____

To,
The Director,
STPI-Noida

Sub: Acceptance of Terms & Conditions of Bid.

Bid Reference No: _____

Name of Bid / Work: - Supply, Installation, Testing and Commissioning of Lab Equipment for Electopreneur Park (EP) 2.0 with total comprehensive support for 5 years

Sir,

I/ We have downloaded / obtained the Bid document(s) for the above mentioned 'Bid/Work' from the web site(s) namely: _____ 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), schedule(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 has also been taken into consideration, while submitting this acceptance letter.

Yours Faithfully,

(Signature of the Bidder, with Official Seal)

(On Company letter head)

DECLARATION

We declare and confirm that (i) we have not been blacklisted or deregistered by any central/ state government department or public sector undertaking and none of our works had ever been terminated by client after award of contract, during last three years; and (ii) no agent, middleman or any intermediary has been, or will be engaged to provide any services, or any other item of work related to the award and performance of this Contract. We acknowledge the right of the Employer, if he finds to the contrary, to declare our Bid to be non-compliant and if the Contract has been awarded to declare the Contract null and void.

We also declare that we had not been indulged or no case pending with the police against the Proprietor/Firm/ Partner or the Company (Agency).

Signature & Seal of the Bidder