



MAIT

उद्यमेन हि सिध्यन्ति
कार्याणि न मनोरथैः

MAHARAJA AGRASEN INSTITUTE OF TECHNOLOGY

(ISO 9001:2015 Certified)
APPROVED BY AICTE, MINISTRY OF HRD, GOVT OF INDIA
(AFFILIATED TO GURU GOBIND SINGH INDRAPRASTHA UNIVERSITY, DELHI)

Ref. No. MAIT/IDEALAB/01

Date. 20-08-2025

Tender Document

1.0 INTRODUCTION

Maharaja Agrasen Institute of Technology (MAIT), Delhi, establishing the AICTE IDEA Lab to foster innovation, creativity, and hands-on learning. The lab will provide advance tools for prototyping and product development encouraging students and faculty to transform ideas into reality. It strengthens industry readiness and promotes experiential learning through practical exposure and multidisciplinary collaboration. MAIT requires a **standard set of equipment as prescribed by AICTE** for establishing the IDEA Lab.

2.0 SITE LOCATION

The equipments and all related items shall be delivered and installed by the successful Bidder at the following site:

Maharaja Agrasen Institute of Technology,

MAIT-AICTE IDEA Lab, Block 11, Floor 4th

Sector-22, Rohini, Delhi-110086

3.0 INSTRUCTIONS TO THE BIDDERS

3.1 GENERAL

3.1.1 The BIDDER shall carefully go through all the terms and conditions of this document including Bill of Materials, Scope of Supply and Work, Technical specifications, Functional Requirements and all the Annexure/Formats etc. in this document before submitting the BID at MAIT.

3.1.2 This is a ZERO DEVIATION BID and no deviation shall be accepted.

3.1.3 It shall be deemed that the BIDDER has understood the content and the meaning of all the requirements laid down in this document. Any representation for any revision / modification of the offer, after BID submission, on the grounds of noncompliance of the offer / lack of understanding of this document, in any way, may not be accepted by MAIT.

3.1.4 The BIDDER shall factor-in all the requirements as specified in this document in all respects and accordingly include the response to the same in their techno commercial BID. The BIDDER shall consider and include all components/ cables/ connectors/ modules/ accessories etc. in the offered equipments, which they envisage to be required for successful implementation and maintenance of the equipments and meeting the functional requirements, while responding to this document. This includes, but not limited to, any auxiliary components such as any components/ cables/ connectors/ modules/ accessories etc. without any additional cost.

3.1.5 MAIT reserves the right to seek clarifications on BIDDER's proposal. Failure to provide the information in the manner required within the stipulated time period may result in the disqualification of the BIDDER's proposal without assigning any reason further in this regard.

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3.1.6 The successful BIDDER shall be solely responsible for all products/services offered in the proposal and for the fulfillment of the contract with MAIT.

4.0 TECHNICAL PROPOSAL & EVALUATION

4.1 GENERAL

4.1.1 The BIDDER shall submit the documents duly prepared/ filled-in, signed and stamped as part of their technical BID, as indicated in FORMAT FOR TECHNICAL COMPLIANCE (FORMAT-A). All documents indicated in FORMAT-A are mandatorily required to be submitted by the BIDDER along with the BID.

4.1.2 The BIDDER shall also submit duly filled FORMAT-B along with the BID.

4.1.3 The BIDDER shall provide the required information / documents / clarification / to MAIT in response to MAIT's queries, without any time or cost implication to MAIT.

4.1.4 Failure on the part of the BIDDER to provide the complete technical details / documents / information / demonstration etc. as indicated in this document (including all attachments and documents referred therein), may lead to rejection of the BID.

4.1.5 Submission of any false information by the BIDDER in the proposal, may lead to rejection of the BID (including all attachments and documents referred therein), may lead to rejection of the BID.

5.0 SCOPE OF WORK INCLUDING SUPPLY, IMPLEMENTATION, AND MAINTENANCE SERVICES FOR THE BIDDER

5.1.1 The brief Scope of Work for the SUCCESSFUL BIDDER shall include the following

(i) The BIDDER shall carry out solution implementation and ensure completeness of the proposed Hardware & Software solution.

(ii) The BIDDER shall supply all material as listed in the requirement Bill of Material section of this document as a minimum. The minimum technical specifications have been specified in the "MINIMUM TECHNICAL SPECIFICATIONS" section.

(iii) The BIDDER shall also supply all the material as proposed by them in their Bid and any additional hardware, whether or not explicitly indicated in this document or during the bidding stage by the BIDDER, but which is/are required to meet the functional, technical and performance requirements of the proposed solution as stipulated in this document.

(iv) If any hardware is required with higher specification / configuration, as compared to the minimum technical specifications specified in this document or as proposed by the BIDDER during bidding stage to meet the



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requirements mentioned in this document, the same shall be supplied, implemented and maintained by the BIDDER without any additional cost and/or time implications to MAIT.

The BIDDER shall provide 5 years onsite OEM warranty and support from the date of acceptance of the proposed solution by MAIT.

(xi) BIDDER shall deploy One Technical Support Person at MAIT-Delhi for 5 years from the date of acceptance of the proposed solution by MAIT.

(xii) If case MAIT decides to shift the Equipments (fully or partially) to any other location within the same institute, the BIDDER shall provide all the support for the de-commissioning and commissioning of the supplied equipments as per the instruction of MAIT team and shall also continue to provide warranty support/on-site support at new location.

6.0 SUPPLY/ DELIVERY

6.1 GENERAL

6.1.1 The BIDDER shall Supply proposed hardware/software solution as per the technical specifications, functional requirements, performance requirements, bill of material etc. of this document. The BIDDER shall also indicate and include any other item required for successful implementation of the proposed equipments/items.

6.1.2 The BIDDER shall deliver the proposed hardware/software Solution to MAIT's site as per the location and delivery schedule specified in this document and shall submit a serialized list of all the accessories, documentation, licenses and media as part of items in the scope of supply of the BIDDER.

6.1.3 The BIDDER shall supply only latest models, unused, non-refurbished equipment / devices / components against all line items of the Bill of Material.

6.1.4 Any equipment / device / Operating System / Software which has reached end-of sale as on the date of supply, shall neither be offered nor shall be supplied.

6.1.5 The BIDDER shall take full responsibility of ensuring that there is no short shipment of the equipment and systems; in the event of any parts missing from the shipment, the BIDDER shall ensure that it is supplied with no additional time and cost implications to MAIT. Any delay in this regard shall be to the BIDDER's account.

6.1.6 The BIDDER shall supply all items/ consumables/ components/ cables/ connectors/ modules/ accessories etc. (e.g. including but not limited to labels, screws, straps, nuts, screw drivers, bolts, clamps, ties, supports, grounding strips, wires, network cables, console cables, power chords, anti-static gloves etc.) necessary for the proper installation of the proposed equipments/items as mentioned in this document.



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6.1.7 The BIDDER shall be responsible for arranging the necessary tools and accessories etc. as required for the proper installation of the proposed equipments.

6.1.8 All Hardware and software including Operating System (OS) in the scope of supply of the BIDDER shall be ready without requiring any additional component / license.

6.1.9 The BIDDER shall ensure that the software items in the scope of supply of the BIDDER has the adequate numbers of licenses to meet the MAIT AICTE IDEA LAB requirement and conform to the respective OEMs' licensing policies.

6.1.10 In case it is found at a later date, upon successful award of the order/work, that any new servers, software licenses, racks, components, cables, connectors, modules, accessories or any other items etc. are required for successful deployment of the proposed equipments/items, but were not indicated / included by the BIDDER at the time of bidding, it shall be the BIDDER's responsibility to supply, install, maintain and support the same, without any additional cost and time implication to MAIT as per the requirements indicated in this document.

6.1.11 The quantities and technical specifications of various items indicated in this document & other documents referred herein are minimum requirements which must be complied by the BIDDER. It shall be the BIDDERS' responsibility to ensure that the items in the scope of supply of the BIDDER are in adequate quantities and are adequately sized as per the respective hardware and software OEMs' recommendations for meeting the stipulated functional and performance requirements.

6.1.12 The makes, models, technical specifications and quantities indicated by the BIDDER in their BID will be retained by MAIT for information only. The acceptance of solution including hardware and software by MAIT will be done only after the BIDDER successfully demonstrates the conformance to the stipulated functional and performance requirements in this document during ON SITE ACCEPTANCE TEST.

6.1.13 If the performance level of the hardware items in the scope of supply of the BIDDER is not found satisfactory by MAIT during testing or during the operations of the proposed solution, the BIDDER shall augment the same (replace with higher specification / configuration / model of hardware and/or provide additional hardware, if necessary) to meet the stipulated performance levels and functional requirements prior to acceptance by MAIT.

6.1.15 The proposed hardware shall not be END-OF-SALE as on the bid due date and shall not be END-OF-SUPPORT during next FIVE YEARS from the bid due date.

7.0 DELIVERY LOCATION

All items shall be delivered at MAIT site as specified above.

7.1 BIDDER shall bring its own manpower for unloading of all items and delivering it to the MAIT AICTE IDEA LAB.

7.2 DELIVERY VERIFICATION

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7.2.1 The following activities will be carried out by the BIDDER and shown to MAIT upon delivery and the same are mandatory for completion of delivery:

7.2.2 Submission of delivery document/challan, containing a list of all items indicating BOM item no., item description, supplied quantity, make, model and OEM serial number

7.2.3 Physical verification of items in the scope of supply of the BIDDER as against the bill of material

7.2.4 Verification for make, model, serial number on the items in the scope of supply of the BIDDER
7.2.5 Verification for components, ports, accessories etc. vis-à-vis the technical specifications as per this document

7.2.6 Verification of software media (if any) & licenses

7.2.7 Confirmation/documents from the OEMs of the EQUIPMENTS/ITEMS/SERVICES have not attained end-of-sale as on the date of supply.

8.0 Bidder Qualification Criteria and Evaluation Methodology

8.1 Bidders must demonstrate relevant experience by submitting a minimum of three Purchase Orders (executed within the last five years) for similar equipment supplied to academic, R&D, or industrial institutions. A list of at least five institutional clients (with contact information) must be provided as a reference. It is mandatory that the bidder or OEM has a registered support office in Delhi NCR region to provide warranty and after-sales support. In the case of imported equipment, either the OEM or their authorized seller must submit a certificate confirming the presence of such a service support facility in India. The OEM must also submit a declaration confirming the availability of spare parts for the quoted products for a minimum of five years and authorize the bidder to participate in the tender. The bidder is required to submit the completion certificate from client.

8.2 Each bidder must have an average annual turnover of ₹5 Crores or more over the last three financial years (FY 2022–23, 2023–24, 2024-25). The turnover must be supported by a CA certificate or audited financial statements. Prices quoted must be inclusive of all taxes (GST, customs, etc.), transportation, packaging, insurance, unloading, and installation, commissioning, and training charges. There shall be no extra claim under any circumstances after the finalization of the bid. The quoted prices must be firm and fixed throughout the duration of the contract. No escalation in price will be allowed under any pretext.

8.3 All bidders must be OEMs or authorized partners/distributors with valid authorization for the products they are quoting. Authorization letters must be submitted on the OEM's official letterhead.

8.4 All bids will be evaluated on the basis of compliance with the technical specifications, completeness of submitted documentation, financial eligibility, and price competitiveness. The contract shall be awarded to the bidder whose offer is determined to be technically responsive and lowest in cost.

The purchaser reserves the absolute right to reject any or all bids without assigning any reason. The final decision on selection will be at the sole discretion of the purchaser and shall be binding on all parties.

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9.0 INSTALLATION & IMPLEMENTATION

9.1 GENERAL HARDWARE INSTALLATION REQUIREMENTS

9.1.1 The BIDDER shall be responsible for unpacking and installation of all equipment and devices mentioned in scope of this document.

The BIDDER shall ensure that package for all hardware/ Systems is opened in the presence of designated MAIT representative and maintain an inventory of the same which will be provided to MAIT before acceptance of complete system at MAIT.

9.1.2 The BIDDER shall test all hardware/system operations and accomplish all adjustments/ integration necessary for successful and continuous operation of the hardware/software at sites as per this document.

9.1.3 The BIDDER shall carry out the installation, integration and testing of the equipments/items at the site, as stipulated in this document.

9.1.4 The bidder shall be responsible for mounting all the items, devices, equipment, in their scope of supply in the racks at the site.

9.1.5 The bidder shall bring their own equipment, tools, testers, software, laptops, manpower, consumables etc. required for the installation of the proposed solution at their own expenses.

9.1.6 Installation work, which is likely to disrupt network/server/Internet connectivity to MAIT's network users / resources, shall only be carried out during the allocated period after obtaining prior written permission from MAIT. In case downtime is not available during office hours, the BIDDER shall execute the task after working hours or on weekends or on holidays, as may be approved by MAIT.

9.1.7 BIDDER shall clean the site after installation of the proposed solution. The BIDDER shall also remove all debris from MAIT's premise as per the instructions of MAIT's.

10.0 WARRANTY

The Term "Warranty Period" shall mean period of 5 (FIVE) Years from the date of acceptance of the proposed EQUIPMENTS/ITEMS at MAIT. The warranty has following two components: a) Scope of Hardware Warranty by OEM b) Support during warranty period by BIDDER.

10.1 SCOPE OF HARDWARE WARRANTY BY OEM

10.1.1 All hardware items in the scope of supply of the BIDDER, shall be covered under comprehensive onsite OEM warranty and support as specified in the technical specifications.

10.1.2 The BIDDER shall have back-to-back warranty agreement with OEM for meeting the resolution times during the entire Hardware Warranty Period.

10.1.3 Warranty certificates/documents/website records from OEM must indicate compliance with the warranty requirements stipulated in this document.

10.1.4 OEM Website Screenshot for item wise warranty information (covering serial no., warranty start date, warranty duration etc.) from OEM's Website, if such facility is provided by the OEM, shall also be submitted by the BIDDER.

10.1.5 Warranty documents from OEM shall be furnished by the BIDDER to MAIT prior to acceptance of the proposed EQUIPMENTS/ITEMS by MAIT

10.1.6 Non-fulfillment of terms and conditions of the warranty on the part of the BIDDER/OEM shall be handled as per the "SERVICE LEVEL AGREEMENT AND PENALTIES" section of this document (14.0).

10.2 SUPPORT DURING WARRANTY PERIOD BY BIDDER

10.2.1 The BIDDER shall provide onsite support services as per this document during the Warranty Period i.e. 5 (FIVE) Years from the date of INSTALLATION of the proposed EQUIPMENTS/ITEMS by MAIT.

10.2.2 The BIDDER shall respond to incidents, support calls pertaining to the proposed EQUIPMENTS/ITEMS and resolve the same.

10.2.3 It shall be the BIDDER's responsibility to coordinate with the respective OEMs, escalate calls, log calls with the OEMs in order to resolve the issues to meet SERVICE LEVEL AGREEMENTS and any other requirements as per this document.

10.2.4 The BIDDER shall escalate the issues to the respective OEMs for resolution at the earliest so as to maintain the stipulated availability as per the service level agreement.

10.2.5 The BIDDER shall ensure timely delivery of all parts and services to MAIT from the respective OEMs, including of the hardware parts, replacements, repairs/ rectifications, operating system hotfixes, patches, service packs, troubleshooting support etc. for all items in the scope of supply of the BIDDER. 9.2.6 The BIDDER shall provide the following services to keep the proposed solution covered under support in proper working order: (i) The BIDDER shall attend to and resolve any unscheduled calls pertaining to corrective and remedial maintenance services to set right the malfunctioning of the proposed EQUIPMENTS. BIDDER shall respond immediately to a maintenance call at sites.

(ii) All the scheduled activities shall be completed and reported problems shall be resolved at the earliest so as to maintain the stipulated availability and as per the requirements in the Section pertaining to SERVICE LEVEL AGREEMENT AND PENALTIES.



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10.2.7 In case the proposed system / solution is faulty (fully or partially) and needs replacement, the BIDDER shall ensure that items / parts replaced are new, and of the same make as original part. The replacement shall be carried out to the satisfaction of MAIT.

10.2.8 In case any deployed item is down (not available to users for usage) the same shall be replaced / repaired by the BIDDER as per the SERVICE LEVEL AGREEMENT (14.0).

10.2.9 If the BIDDER requires taking away any faulty unit / item of the proposed solution for repair outside MAIT premises, a standby unit of comparable capacity shall be provided against the faulty unit / item.

10.2.10 A clear information about the unit like Serial No., make and model shall be entered in the service log both at the time of taking away the unit and on return of the same unit after repair. For this, MAIT's representative must be provided with relevant details and MAIT's approval shall be obtained by the BIDDER.

10.2.11 The BIDDER shall provide a helpdesk telephone number & email address to MAIT for logging calls through telephone and email respectively at their helpdesk during MAIT's standard working hours.

10.2.12 The BIDDER shall be responsible for logging helpdesk tickets with the respective OEMs for all incidents. Additionally, the facility to directly log trouble ticket with OEMs by MAIT shall be provided to MAIT. The BIDDER shall follow up for the timely resolution of the trouble ticket.

10.2.13 The BIDDER shall develop and maintain an inventory database to include the registered hardware warranties.

10.2.14 It is the BIDDER's responsibility to ensure the data/configuration on the faulty equipment which is taken out of MAIT's premises for replacement, is securely erased or destroyed and is not recoverable by any of the known data recovery techniques.

10.2.15 The BIDDER shall carry out re-installation of Equipments/Softwares /operating system in case of corruption of operating system / requirement of upgradation of operating system. In case of upgradation of operating system, the licenses of operating system shall be provided to MAIT.

10.2.16 The BIDDER shall carry out installation, reinstallation, update, upgrade of software, reconfiguration, additional configuration, and change management for the items in their scope of supply, as required for proper functioning of the proposed equipments to MAIT's satisfaction during the entire support period on call basis as per the SLA.

10.2.17 Upon completion of Warranty the BIDDER will systematically hand over the responsibilities to the next Successful BIDDER with all hardware, software in perfect working order along with documentation necessary to manage the whole process. Also, the BIDDER shall arrange awareness session to the next BIDDER, in the presence

of MAIT representatives, during the hand over process. All handing over activities shall be to the satisfaction of MAIT.

10.2.18 DIAGNOSTICS TOOLS: The BIDDER shall bring its own diagnostics tools e.g. laptops, diagnostics software etc. as required for acceptance testing and troubleshooting as and when needed during installation and entire on-site support duration. The diagnostics tools shall have the capability to, view diagnostics log/information of the items in the scope of supply of the BIDDER and testing/ troubleshooting etc. as required shall be carried out by the BIDDER.

11.0 SUPPORT DURING WARRANTY PERIOD BY TECHNICAL SUPPORT PERSON

11.1.1 (One) Number technical support person shall be deployed by BIDDER at MAIT, for five years duration from the date of acceptance of the equipments/items by MAIT.

11.1.2 BIDDER shall deploy Technical Support Person as per MAIT's standard working hours i.e. 08:00 hours per day (0900hours to 1700hours) x 5 days per Week.

11.1.3 Technical Support Person shall perform the health monitoring and support activities for the all-equipments supplied under this contract.

The Technical Support Person shall perform monthly preventive maintenance, routine maintenance, monitoring and troubleshooting of the deployed systems at MAIT. Liaising with the respective OEMs or any other third party for any reported issue and other administrative tasks related to Server system under warranty period including but not limited to the following:

- i. Daily health monitoring and reporting of all supplied items.
- ii. Daily monitoring of the Server availability status of the deployed Server System. MAIT shall provide the procedure and console for monitoring.
- iii. System Administration activities as assigned by MAIT related to the Server system supplied by the BIDDER.
- iv. Coordination with OEMs and other Maintenance agencies for resolution of any issue related to items under warranty.
- v. Any other tasks pertaining to maintenance and administration of the items under warranty.

11.1.4 The BIDDER shall ensure the availability of Technical Support person throughout the contract period. In case deployed Technical Support person proceeds on leave, BIDDER shall depute other Technical Support person(s) of equivalent technical capability of deployed Technical Support person for the leave period.

11.1.5 The BIDDER shall furnish the details of the proposed Technical Support person immediately upon award of the contract.



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12.0 ONSITE ACCEPTANCE TEST (OSAT)

12.1 HARDWARE TESTING

On successful completion of the installation, and proper tuning of the proposed solution, the same shall be offered for OSAT to MAIT.

The Hardware Testing shall be conducted as a part of the OSAT.

The BIDDER shall submit the following documents to MAIT prior to the commencement of the Hardware Testing:

- (i) Installation report along with the configuration reports for the proposed hardware,
- (ii) Compliance to any requirements provided by the MAIT,
- (iii) Administration and maintenance documents for the proposed Hardware to MAIT.

It shall be the responsibility of the BIDDER to carry out the Hardware Testing in presence of MAIT, as specified below at the respective sites, after completion of delivery and installation of the proposed hardware.

The Hardware Testing during the OSAT shall consist of completion of following activities at sites:

- (i) Checking of the material against the Bill of Material as per this document by MAIT for the items in the scope of supply of this BIDDER
- (ii) Submission of list of all items along with OEM serial no. by the BIDDER and review of the same by MAIT
- (iii) Checking of the items by MAIT vis-à-vis the technical specifications of this document
- (iv) Running diagnostic tests on the supplied servers by the BIDDER
- (iv) Physical check of the proposed hardware & Accessories by MAIT for the items in the scope of supply of the BIDDER
- (v) Demonstration of various features and proper functioning of the proposed hardware by the BIDDER i.e. hardware, software etc. vis-à-vis the requirements stipulated in this document
- (vi) Submission of warranty certificate by the BIDDER for overall hardware and OEM warranty documents from the respective OEMs for all hardware items (viii) Submission of all OEM License and warranty documents for all software.

12.2 The BIDDER shall maintain documented evidences for all the tests performed and present the same to MAIT.

12.3 The BIDDER shall maintain documented evidences for all the tests performed and present the same to MAIT.

13.0 DOCUMENTATION– HARDWARE AND SOFTWARE

BIDDER shall submit the list of the all documents and CDs/DVD/USB (if any) provided to MAIT and same shall be handed over to MAIT.

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14.0 SERVICE LEVEL AGREEMENT AND PENALTIES

The BIDDER acknowledges that if the system is not performing and the stipulated service levels are not maintained, the same would hamper and affect the day to day functioning of MAIT IDEA Lab and the actual loss resulting there from may not be quantifiable. Therefore, the BIDDER agrees to the deduction of penalty.

Category	Time Taken by BIDDER to Resolve the issue to MAIT's Satisfaction.	Penalty to be deducted
1. Delay in carrying out Monthly Preventive Maintenance	4 Days from the end of the relevant month	Penalty of Rs.1200/- shall be imposed for delay in preventive maintenance beyond the stipulated 4 days from the end of the relevant month
2. Condition of item Level A*	3 days	0.25% of Purchase order of all items per day beyond 3 days
3. Condition of item Level B**	5 days	0.25% of Purchase order of all items per day beyond 5 days

*Condition of item Level A

- **higher-priority issues** with the equipment/items/services as decided by MAIT
- These are conditions that need **faster resolution** as it directly affects essential functioning.

**Condition of item Level B

- **lower-priority issues** with the equipment/items/services as decided by MAIT
- These can be managed a little longer, hence **5 days** are allowed for resolution.

15.0 Payment Terms

Payment shall be released only after the successful supply, installation, and commissioning of the equipment. Final inspection and acceptance will be carried out by the purchaser's technical committee.

No payment shall be made for equipment that is received in damaged condition, is non-functional, or fails to meet the required specifications. The bidder must submit all necessary documentation (delivery challans, installation report, warranty documents, training certificate, invoice, etc.) to process payment.

Payment schedule

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Sl No.	Activity Description	Payment Description
1.	Delivery Schedule - Completion of delivery of all items	<ul style="list-style-type: none"> 70% of the total value of supplied
2.	Implementation and Acceptance Schedule- completion of Implementation and Acceptance by MAIT	<ul style="list-style-type: none"> 25% of the total value of supplied
3.	Onsite warranty Support (by BIDDER) for five years	Quarterly payments: <ul style="list-style-type: none"> 5 % of the total value of supplied items will be paid in equated Quarterly for the entire duration of contract

16.0 DOCUMENTS TO BE SUBMITTED

Technical Documentation and Compliance: The bidder must furnish complete technical documentation for each quoted item. This includes detailed product specifications, installation manuals, operation and maintenance manuals. The bidder is also required to submit a layout/design proposal aligned with the lab setup requirements, highlighting compliance points against the tender specifications. Original technical brochures or scanned versions of product catalogs should be submitted with the bid. Wherever available, URLs to the OEM's official product page should also be provided for crossverification. Each bidder must clearly mention the make, model, and complete technical specifications for the equipment being offered. A compliance sheet responding to each technical requirement outlined in the tender must be prepared and duly signed.

S.no.	Document	Stage
1	Delivery document/challan, containing a list of all items indicating BOM item no., item description, supplied quantity, make, model and OEM serial number	Along with Delivery of material
2	Confirmation/documents from the OEMs of the Equipments those equipments have not attained end-of-sale as on the date of supply.	Along with Delivery of material
3	Warranty documents from OEM	Prior to acceptance of the proposed EQUIPMENTS by MAIT
4	Preventative Maintenance Report	Every quarter

Submission of BIDS

Bids may be submitted either via email (digitally signed) and in hard copy form, as specifically mentioned in the tender notice. All quotations must be printed on the bidder's official letterhead and duly signed by an authorized representative. Each bid must be complete in all respects and must include the following mandatory documents:

- Detailed Profile of the Bidder, highlighting experience and key competencies.
- Copy of the Company/Firm Registration Certificate.
- Copy of valid GST Registration Certificate.
- Copy of submitted GST return (at least up to November 2024).
- Copy of valid PAN Card.
- Chartered Accountant's Certificate for turnover for FY 2021-22, 2022-23, and 2023-24.
- CA-certified and audited Balance Sheets and Financial Statements (Form 3CB/3CA) for the last three financial years.
- Copies of Work Completion or Experience Certificates of similar completed works.
- Valid Shop Establishment License or Factory License.
- Genuine Manufacturer Authorization Form (MAF), which will be subject to verification with the respective OEM.
- Bidder should provide an Escalation Matrix for service and after sales support.
- Valid EPF, ESIC, and Professional Tax Registration Certificates (where applicable).
- Income Tax Return Acknowledgements for FY 2021-22, 2022-23, and 2023-24.
- Declaration/Affidavit (on ₹500/- Stamp Paper) regarding no blacklisting from IITs/NITs/Govt. Offices/PSUs/Autonomous Bodies.
- Complete, signed, and stamped tender document including amendments and deviation sheets, if any (to be uploaded online only).
- Declaration of agreed specifications on company letterhead duly signed and stamped.
- Any other documents in support of technical eligibility. All bidders are required to quote for all the items listed in the List of Equipments and Specification. Partial or item-wise quotations will be summarily rejected. Each bidder is allowed to submit only one quotation per package; multiple submissions from a single bidder will lead to disqualification.



MAIT

उद्यमेन हि सिध्यन्ति
कार्याणि न मनोरथैः

MAHARAJA AGRASEN INSTITUTE OF TECHNOLOGY

(ISO 9001:2015 Certified)

APPROVED BY AICTE, MINISTRY OF HRD. GOVT OF INDIA
(AFFILIATED TO GURU GOBIND SINGH INDRAPRASTHA UNIVERSITY, DELHI)

Ref. No.....

Date.....

Submission Deadline and Contact Details

All quotations must be submitted by **15 September 2025 before 5.00pm** to the email: idealab@mait.ac.in and sent in hard copy to:

Maharaja Agrasen Institute of Technology,
PSP Area, Rohini Sector-22, Delhi-110086

Contact:

1. Prof. (Dr.) Namita Gupta
Coordinator MAIT AICTE IDEA lab
Email: namitagupta@mait.ac.in
2. Dr. Vipin Kumar Sharma
Co-coordinator, MAIT AICTE IDEA Lab
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Prof. (Dr.) Neelam Sharma,
Director, Maharaja Agrasen Institute of Technology
Chief Mentor MAIT AICTE IDEA lab,

Prof. (Dr.) Neelam Sharma
Director
MAIT
PSP Area, Sector-22,
Rohini, Delhi-110086





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FORMAT-A

Documents Required

Annexure	Documents Required	BIDDER's Response Submitted/Not Submitted
Annexure-01	FORMAT FOR TECHNICAL COMPLIANCE (FORMAT – A) this format dully filled-in by the bidder	
Annexure-02	The Bidder shall submit a letter confirming that they shall fully Technically comply with this material requirement and Scope of Work without any deviation.	
Annexure-03	OFFERED MAKES AND MODELS (FORMAT – B) duly filled-in by the bidder	
Annexure-04	COPY of RELEVANT OEM TECHNICAL DATASHEETS/ DOCUMENTS for all Items for Compliance with the Technical Specifications of this document.	
Annexure-05	Letters from OEMs of the offered Equipments indicating that the BIDDER is authorized to BID against this RFQ.	
Annexure-06	Letters from OEM of offered Equipments confirming that the offered SERVERS shall not be END-OF-SALE as on the bid due date and shall not be END-OF-SUPPORT during next 5 YEARS from the bid due date	

Bidder's Name:

Signature:

Name of Authorized Signatory:

Designation:

Mobile No:

Address:

E-Mail:

Company seal / stamp



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FORMAT-B

OFFERED MAKES AND MODELS

The BIDDER shall indicate the offered makes and models against the various items in the following table.

ITEM DETAILS		BIDDER'S RESPONSE		
Item. No.	Description	Offered Make	Offered Model	Remarks

Bidder's Name:

Signature:

Name of Authorized Signatory:

Designation:

Mobile No:

Address:

E-Mail:

Company seal / stamp:



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Format for Providing Details of Technical Support Person (To be submitted by the BIDDER in their letterhead upon award of the contract)

To

The Director

MAIT, Rohini, Setor-22, Delhi-110086

Subject: Technical Support Person

Dear Sir,

In connection with the referred Contract, we hereby propose to deploy the below Technical Support as per the following details at MAIT AICTE IDEA LAB:

Name:

Qualification:

Experience:

We confirm that we have verified the above-mentioned credentials of the proposed Technical Support person. We are attaching the copies of photo identity cards of the proposed Technical Support person, issued by the company, for your reference.

Signature:

Name of Authorized Signatory:

Designation:

Mobile No:

Address:

E-Mail:

Company seal / stamp:

List of Equipments with Specifications

Sr. No	Equipment	Preferred brands if any	Specifications	Qty
1	Single Nozzle 3D Printer	Branded Company Product with at least Five years of product warranty	<p>Printing Technology: Fused Filament Fabrication (FFF) or Fused Deposition Modeling (FDM).</p> <p>Printable Area: The minimum printable area should be at least 310 x 310 x 310 mm or above</p> <p>Printer Design: Core XY or Cartesian.</p> <p>Temperature Range: Hot end: Up to 300°C or above</p> <p>Heat bed: Up to 120°C. or above.</p> <p>Nozzle: Compatible with All polymers, 0.4, 0.6 and 0.8mm</p> <p>Steel Sheet: Provided with satin or smooth PEI surface.</p> <p>Filament Diameter: 1.75mm (supports PLA, PETG, ASA, ABS, etc.). Extruder: Gearbox with 1/10 ratio,</p> <p>Speed : 550 MM/Sec or above</p> <p>Stepper Drivers for smooth motion. or equivalent</p> <p>Stepper Motors: Choose between 1.8° or precise 0.9° X, Y stepper motors.</p> <p>LCD Screen: 3.5" graphic 65k color screen or larger.</p> <p>Connectivity: USB drive, LAN, or internet.</p> <p>Supported Materials: PLA, PETG, ASA, ABS, PP, PC, flexible filaments, and more. Wi-Fi Module:</p> <p>Built-in (network connectivity not required for setup or operation). Compatibility: Windows, macOS, Linux.</p> <p>Printer Dimensions: The maximum physical dimensions of the system 700 X 700 X 700 or above.</p> <p>Fully enclosed Machine.</p>	1
2	PCB Milling Machine	Branded Company Product with at least Five years of product warranty	<p>Cuttible Materials: Modeling Wax, Chemical Wood, Foam, Acrylic, Poly Acetate, ABS, PCB, Copper glad, etc.</p> <p>Table Size: 225(X) × 150(Y)mm or more</p> <p>Drive System: Stepping Motor (X, Y, Z Axis)</p> <p>Operating Speed: 800 mm/min</p> <p>Software Resolution: 0.01mm/step</p> <p>Position accuracy: 0.01 to 0.02mm</p> <p>Max Travel Speed(mm/sec)-58(2.28")</p> <p>Drilling (mm)-0.2 -3.175 (8-125 mil)</p> <p>Maximum Drilling Cycles/ Min-50</p> <p>Spindle Motor: DC Motor Type 380 or More</p> <p>Spindle Speed: Adjustable 20,000 and above rpm or more</p> <p>Tool Chuck Type: Collet Interface: USB or cable</p> <p>Control Commands: RML-1, NC code</p> <p>Power Supply: DC24V,2.5A (viaAC100- 240V, 50/60Hz adapter)</p> <p>Power Consumption: Approx 50W or more</p>	1

3	CO ₂ Laser Cutting Machine	Branded Company Product with at least Five years of product warranty	Working Area: Min 600 x 900 mm or above Laser Type: CO ₂ DC Glass Laser Tube/RF Metal Laser Tube Laser Power: 80/100W Wave Length: Up to 10.6 Micrometer Cutting Speed: 30000 mm/min or more Engraving Speed: 64000 mm/min or more XY Axis: LM Guide Rail or equivalent Cooling: Air/ Water Cooling Supply Voltage: 230V/415 V Accessories: CO ₂ Focus Lens: 1 No. Mirror 25 mm: 3 Nos. Acetone: 1 litre acrylic sheet: 2 No's	1
4	Vinyl Printer	Branded Company Product with at least Five years of product warranty	Dimensions: 50 cm x 15 cm x 15 cm or above Weight: 15.4 lbs. or less Max cut size using machine mat: 11.5-inch x 23.5 inch or more Cut speed: up to 14.1 ips	1
5	3D Scanner	Branded Company Product with at least Five years of product warranty	Technology: Stereo camera, structured light with focusable cameras or equivalent CPU: Quad-core 64-bit SoC, 1.5 GHz with integrated GPU RAM: 4 GB Projector: DLP MEMS mirror or equivalent Camera Sensor: Sony 13 MP or better Scan Speed: 4 seconds or more Working Distance: Effective Working Distance: 160mm-1400mm Scan Speed: 980,000 points/s, up to 14FPS Align Modes: Feature Alignment, Hybrid Alignment, Texture Alignment, Global Markers Safety: Eye-safe Texture Scan: Yes Interface: USB 2.0 or above Outdoor Scanning: Yes Output Formats: OBJ; STL; PLY; P3; 3MF Scanning Environment: Indoor and outdoor (shaded) Texture / Color Scanning: Yes Minimum Capturable Feature Size: 0.2 mm or less Scanner Weight: 500 grams or less Scanner Dimensions: Up to 240 x 60 x 60 mm Compatible OS: Any OS supporting a modern web browser	1



6	Lathe Machine cum milling	Branded Company Product with at least Five years of product warranty	<p> Centre Width: Up to 400 mm or better Height of Centers: Up to 88 mm Maximum Work piece Diameter: Up to 100 mm Machine Base: Cross-ribbed surface, high-quality cast iron with ground prismatic guide, capable of fitting milling/drilling attachment Spindle: Supported with adjustable taper roller bearings Spindle Receiver: MK3 or compatible Spindle Drill Hole: Up to 22 mm or better Spindle Concentricity: Up to 5 microns or better Chuck: 3-jaw chuck as per DIN 6386, centrally clamped, 100 mm diameter or better Run Out (without Chuck): Up to 10 microns Sleeve Receiver: MK2, retractable sleeve with scale Spindle Speed Range: Between 50 to 2500 rpm Speed Stages: 6-8 Motor Rating: 550W or better, induction motor, single phase 230V Traverse Cross: Up to 70 mm or better Traverse Longitudinal: Up to 300 mm or better Weight (Complete): Up to 55 kg or more Additional Accessories: Splash guard and chip collecting tray: 1 No. Cutter set with tungsten inserts: 2 Nos. Milling Attachment: 1nos Tungsten disposable tips ten-piece set: 1 No. Sample workpieces (Nylon Rod, Aluminum Rod) Desktop: 1 No. </p>	1
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7	CNC Router	Branded Company Product with at least Five years of product warranty	<p>X, Y, Z, Working Area (Minimum): 1300x2500x200 mm X, Y, Z Positioning Accuracy: $\pm 0.03/300$ mm X, Y, Z Repeatability: ± 0.05mm X,Y, Accuracy < 0.01mm Structure: Ground Stress - Relieved Steel Base X, Y, Axis: Imported Guide ways & Rack & Pinion Z Axis Imported Guide ways & Ball bearing Screws with anti-backlash ball nut Spindle Power (Minimum): 3.0 Kw HSD - Italy servo-spindle Travel Speed: 0-32,000mm/min Cutting Speed: 0-20,000mm/min Spindle Speed: 0-18000 rpm Drives: All 3-axis micro stepper or Servo Japan Voltage: AC220V/50-60Hz Interface & Flash Memory: Printer Port 50pin and USB, 32MB Collets: $\emptyset 3.175$, $\emptyset 4$, $\emptyset 6$ & 12.75 (Minimum) Cutters: 20 Nos (Minimum) Software: Compatible Software with Perpetual License Spindle cooling: Air cooled/ water cooled Working table: Aluminum profile with T slot Control system: DSP A11 and higher Guide rail: 20mm linear square guide rail Dust collector system Motor Power: 2.2kw Air Delivery(m³/h): 2300 Air Speed(m/s): 20-25 Inlet Size(mm): $\Phi 4$"x3 Collect Bag(pcs): $\Phi 480$x2 Overall Size (mm): 1000x500x2050</p>	1
8	Belt and Disc Sanding Machine	Branded Company Product with at least Five years of product warranty	<p>Motor: 230V 50Hz Power: 380W S2 30min No-load Speed: 1450 rpm or more Belt Size: 100 x 914 mm or less Disc Size: 150mm or better Table Tilting Range: 0°-45° Belt Tilting Range: 0°-90° Table Size: up to 190 x 125 mm</p>	1
9	Scroll Saw	Branded Company Product with at least Five years of product warranty	<p>Power input: 50 Watt Thickness of Cut: 50 mm (2 inch) Throat: 406 mm (16 inch) Length of Stroke: 18 mm (11/16 inch) Strokes Per Minute: 400-1,600 SPM Overall Length: 600 mm (23-5/8 inch)</p>	1
10	Wood Turning Lathe	Branded Company Product with at least Five years of product warranty	<p>Motor: 230V~50Hz, 550W, S2: 15min or above Max. Disc Diameter: min 75 mm Max. Cutting Length: 450 mm or more Spindle Speed: 5 speeds such as 1600 / 2600 / 3200 RPM etc. Material: Cast Iron Bed Height: 0.2 m Cable Length: 0.850 m</p>	1

11	Bench Top Drill Machine	Branded Company Product with at least Five years of product warranty	Continuous rating input: Max. 250 W Capacity: Steel: Min 13 mm (1/2") Wood: Min 24 mm (15/16") No Load Speed (RPM): 570, 890, 1,300, 1,900, 2,670(50 Hz), 690, 1,070, 1,560, 2,280, 3,200(60 Hz) Net weight: Max. 20 kg (44.1 lbs.) Power supply cord: 1.75 m (5.7 ft) Additional Accessories: Bench Vice: 1 No., Drill Bit Set 10 Pcs: 1 No	1
12	Portable Welding Machine	Branded Company Product with at least Five years of product warranty	Welding Current (at 40°C, 10 min cycle): 120A @ 100%, 150A @ 60%, 200A @ 35% Supply Voltage: 240V +10%, -15%, 1 Phase, 50/60 Hz Open Circuit Voltage: 55V DC ±5V Welding Current Range: 15200 Amps DC Insulation Class: F Type Ingress Protection: IP21 Dimensions (L×W×H) with Handle: Up to 320×120×195 mm Weight (Approx.): 4.3 kg or less	1
13	Computerized Sewing Machine	Branded Company Product with at least Five years of product warranty	Motor: 120 W Max Sewing Speed: 860 SPM Power: 220 - 240 V Automation Grade: Automatic Max Stitch Length: 4mm Thread Type: Computerized Weight:7.6 kg Number of Stitches:120 Size/Dimension: 50.8 cm x 29.464 cm x 40.64 cm Maximum Stitch Width: 7 mm Number of Buttonhole Styles: 7 LCD Screen Display: Yes Bed Type:Free Arm/Flatbed convertible Bobbin Type: Drop & Sew Bobbin System	1
14	Filament Dehydrator	Branded Company Product with at least Five years of product warranty	Operating Temperature Range: Min 45°C– 70°C Drying Time Setting: 0–48 hours or higher Hot-Air Heating: Up to 360° Circulation Moving Speed: 300 mm/s or more Power Rating: 160 W Shipping Weight: 2.5 kg	1
15	Reflow Oven	Branded Company Product with at least Five years of product warranty	No. of Waves: 7 or higher Heating Type: Infrared IC Heater Max. PCB Width: 300×320 mm or more Power Supply: AC 220V / 50Hz Peak Power: 1500W Cycle Time: 1–8 min or less Temperature Range: 0°C–280°C Overall Dimensions: min 350×450 mm Machine Weight: Up to 25 kg	1

16	Digital multimeter	Branded Company Product with at least Five years of product warranty	<p>Display Count: Up to 4000 DC Voltage Range: Up to 1000 V AC Voltage Range: Up to 1000 V DC Voltage Accuracy: $\pm 0.5\%$ or ± 3 digits, whichever is higher AC Voltage Accuracy: Within $\pm 1\%$ + 3 digits DC Current Measurement: Up to 10 A AC Current Measurement: Maximum 10 A DC Current Accuracy: $\pm 1.5\%$ + 3 digits (approximate) AC Current Accuracy: $\pm 1.5\%$ + 3 digits (typical) Resistance Measurement: Up to 40 MΩ Resistance Accuracy: Estimated at $\pm 1.5\%$ + 3 digits Capacitance Measurement: Up to 1000 μF Capacitance Accuracy: $\pm 5\%$ or ± 5 digits Operating Temperature Range: From 0°C up to approximately 40°C Storage Temperature Range: Between -30°C and 60°C Overall Dimensions (H×W×L): Approximately 183×91×49.5 mm Unit Weight: Around 455 grams Safety Compliance: As per IEC 61010-1 & IEC 61010-2-030 standards, suitable for CAT III 600V and CAT II 1000V environments with Pollution Degree 2 classification</p>	5
17	MSO 100 MHz	Branded Company Product with at least Five years of product warranty	<p>Bandwidth: Up to 100 MHz Analog Channels: 4 or more Real-Time Sampling Rate: Maximum 1 GSa/s per channel Memory Depth: 10 Mpts per channel Waveform Update Rate: Approximately 120,000 wfms/s Vertical Resolution: 8 bits Vertical Scale: Ranging from 1 mV/div to 10 V/div Horizontal Scale: Spanning 1 ns/div to 100 s/div Spectrum Analyzer Frequency Range: DC to 500 MHz FFT Points: Up to 1M points for enhanced frequency domain resolution Waveform Math Functions: Includes addition, subtraction, multiplication, division, minimum, maximum, root, square, absolute, inverse, derivative, integral, and low-pass filter Trigger Types: Edge, Pulse Width, Video, Pulse Runt, Rise & Fall (slope), Alternate,</p>	1

18	Digital oscilloscope	Branded Company Product with at least Five years of product warranty	<p>Timeout, Event-Delay, Time-Delay, and Bus Arbitrary Waveform Generator (AWG): Dual-channel, 25 MHz, supporting various waveforms such as sine, square, pulse, ramp, DC, noise, sinc, Gaussian, Lorentz, exponential rise/fall, haversine, and cardiac AWG Sample Rate: 200 MSa/s AWG Vertical Resolution: 14 bits Display: 8-inch WVGA TFT LCD (800 × 480 pixels) Data Logging Capability: Up to 1000 hours Segmented Memory: Supports up to 29,000 segments for efficient waveform storage and retrieval Connectivity: USB 2.0 (host and device), Ethernet (RJ45), and Go-NoGoBNC. Dimensions (W × H × D): 380×200×125 mm or above Weight: 2 Kgs or above Safety Compliance: Conforms to IEC 61010-1 and IEC 61010-2-030 standards, suitable for CAT III 600V and CAT II 1000V environments with Pollution Degree 2 classification. Number of Channels: Up to 2 independent analog inputs Memory Record Length: Up to 10 Mpts for extended waveform capture Bandwidth Limiting: Selectable 20 MHz bandwidth filter Sampling Rate: Maximum of 1 GSa/s real-time equivalent per channel Rise Time: ≤ 3.5 ns, depending on probe and settings Display: 7" TFT color LCD with 800×480 resolution Time Base Range: From 5 ns/div to 100 s/div, user-adjustable Vertical Resolution: 8-bit digital resolution Trigger Modes: Automatic, Normal, and Signal-dependent triggering Maximum Input Voltage: 300 Vrms (within safety limits) Input Sensitivity: Within the range of 1 mV/div to 10 V/div Input Coupling Options: Selectable among AC, DC, and Ground Trigger Coupling Modes: Configurable as AC, DC, High-pass, or Low-pass Physical Dimensions: Approximately 350 × 200 × 120 mm or above Unit Weight: 2.5 kg or above Input Impedance: Nominal 1 MΩ // 16 pF Measurement Capabilities: Equipped for automatic parameter extraction, background noise filtering, and AUTOSET configuration for display scaling (time base/gain) Protocol Decoding Support: Capable of analyzing I2C, SPI, UART, CAN, and LIN communication protocols Standard Accessories: Includes mains power cable, user manual (digital format), and one GTL-16E probe per input channel</p>	1
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19	Power supply	<p>Branded Company Product with at least Five years of product warranty</p>	<p>Output Configuration: 4-channel design with independent electrical isolation across all outputs</p> <p>Channel Output Ranges:</p> <ul style="list-style-type: none"> • CH1 & CH2: Adjustable output voltage from 0 to 32V with a current delivery capacity up to 3A • CH3: Variable range 0 to 5V supporting up to 1A • CH4: Output adjustable from 0 to 15V with a load current of up to 1A <p>Constant Voltage Operating Mode Line Regulation: $\leq 0.01\% + 3 \text{ mV}$ (approximate value within rated voltage range)</p> <p>Load Regulation: $\leq 0.01\% + 3 \text{ mV}$ (across rated load variation)</p> <p>Ripple & Noise: $\leq 1 \text{ mVrms}$ across full bandwidth</p> <p>Constant Current Operating Mode Line Regulation: $\leq 0.2\% + 3 \text{ mA}$</p> <p>Load Regulation: $\leq 0.2\% + 3 \text{ mA}$ Ripple Current: $\leq 3 \text{ mArms}$ (typical)</p> <p>Safety & Operational Features</p> <p>Output Control: Independent output ON/OFF switching functionality is required</p> <p>Voltage Resolution: Approximately 100 mV (*1)</p> <p>Current Resolution: Approximately 10 mA (*1)</p> <p>Display Parameters</p> <p>Display Units: Four separate displays required for individual channel status visualization</p> <p>Display Type: 4.3-inch LCD (color or monochrome as applicable)</p> <p>Functional Features</p> <p>Tracking Operation: Supported (required for synchronizing output behavior)</p> <p>Auto Series/Parallel: Supported (automatic internal reconfiguration required)</p> <p>Power Requirements</p> <p>Supply Input: 230V AC $\pm 10\%$, 50 Hz</p> <p>Mechanical Specifications</p> <p>Maximum Dimensions (W x H x D): Within 200 mm x 100 mm x 200 mm</p> <p>Maximum Weight: 10 kg or less</p>	1
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20	Function Generator	Branded Company Product with at least Five years of product warranty	<p>Output Function: The equipment shall provide output waveforms including sine, square, triangle, and TTL signals as required.</p> <p>Frequency Range: For sine and square waveforms: approximately 0.1 Hz up to 3 MHz.</p> <p>For a triangle waveform: approximately 0.1 Hz up to 1 MHz.</p> <p>Frequency Resolution: Frequency resolution shall be maintained within a maximum of 0.1 Hz.</p> <p>Frequency Stability: The frequency stability shall be within ± 20 ppm (parts per million).</p> <p>Frequency Accuracy: The frequency accuracy shall be maintained within ± 20 ppm.</p> <p>Frequency Aging: Frequency aging shall not exceed ± 5 ppm per annum.</p> <p>Amplitude Range: Output amplitude shall be up to 10 V peak-to-peak (Vp-p) into a 50 Ω load.</p> <p>Amplitude Accuracy: Amplitude accuracy shall be within $\pm 20\%$ at the maximum amplitude setting.</p> <p>Output Impedance: Nominal output impedance shall be 50 Ω with a tolerance of $\pm 10\%$.</p> <p>Attenuator: A single-step attenuator of -40 dB ± 1 dB shall be provided.</p> <p>Display: A 6-digit LED display shall be incorporated for parameter indication.</p> <p>Output Control: Output shall be controlled via an ON/OFF selector switch.</p> <p>Power Source: The device shall operate on an AC supply of 240 V, 220 V, or 110 V $\pm 10\%$, with frequency 50/60 Hz.</p> <p>Ambient Operating Temperature: Normal operation shall be ensured within the ambient temperature range of 0 $^{\circ}$C to 40 $^{\circ}$C.</p> <p>Dimensions: Maximum dimensions shall not exceed 255 mm (W) \times 95 mm (H) \times 295 mm (D).</p> <p>Weight: The Maximum device weight shall be within 2.5 kg.</p>	1
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21	Bench Top Multimeter	Branded Company Product with at least Five years of product warranty	<p>DC Voltage: Range: 500 mV to 1000 V across 5 ranges. Accuracy: $\pm (0.03\% \text{ rdg} + 4 \text{ digits})$. Input impedance: 10 M$\Omega$. AC Voltage (True RMS): Range: 500 mV to 1000 V across 5 ranges. Accuracy: $\pm (0.5\% - 5\% \text{ rdg} + \text{digits})$ depending on frequency and range. Input impedance: 10 MΩ. DC Current: Range: 500 μA to 20 A across 6 ranges. Accuracy: $\pm (0.02\% - 0.3\% \text{ rdg} + 2 \text{ digits})$ depending on range. AC Current (True RMS): Range: 500 μA to 20 A across 6 ranges. Accuracy: $\pm (0.5\% - 1\% \text{ rdg} + \text{digits})$ depending on frequency. Resistance: Range: 500 Ω to 20 MΩ across 6 ranges. Accuracy: $\pm (0.1\% - 0.3\% \text{ rdg} + \text{digits})$ depending on range. Diode Test: Max forward voltage 1.5 V, open voltage 2.8 V. Capacitance: Range: 5 nF to 50 μF. Accuracy: $\pm (2\% \text{ rdg} + 4 \text{ digits})$. Frequency: Input level varies by range; functions include Auto/Manual Range, Max, Min, dBm, Rel, Hold. Continuity Beep: Threshold <5 Ω. Display: Dual 7-segment LED, 0.4" and 0.5". Power Source: AC 100/120/230 V $\pm 10\%$, 50/60 Hz. Dimensions & Weight: Approximately 251 \times 91 \times 291 mm; 2.6 kg.</p>	1
22	Non-Contact Voltage Tester	Branded Company Product with at least Five years of product warranty	<p>Function: Non-contact AC voltage detection tester. Voltage Detection Range: Approximately 90 V to 1000 V AC. Detection Method: Capacitive, with visual and audible indication. Sensitivity: Adjustable sensitivity for different voltage ranges. Response Time: Instantaneous detection within standard operating conditions. Indicators: Bright LED indicators and an audible beep for voltage presence. Operating Environment: Suitable for use in ambient temperatures from 0 $^{\circ}\text{C}$ to 40 $^{\circ}\text{C}$. Power Source: Powered by standard batteries (typically 2 \times AAA or equivalent). Safety Standards: Complies with IEC/EN 61010-1 CAT III 1000 V safety standards. Dimensions: Compact, handheld design suitable for field use (approx. 150 mm \times 30 mm \times 25 mm). Weight: Lightweight, approximately 150 g for ease of portability.</p>	5



23	LCR Meter	Branded Company Product with at least Five years of product warranty	<p>Display: Approximately 2.8" TFT touch LCD screen. Resolution: 25,000 or above counts resolution on both primary and secondary displays. Basic Accuracy: Within $\pm 0.2\%$ under standard conditions. Test Frequencies: Six or eight selectable frequencies depending on model variant. Measurement Combinations: Up to 15 different measurement combinations available. Test Level: Selectable AC test levels approximately 0.3 V, 0.7 V, and 1 V rms; DC test level selectable at ± 1 V. Measurement Speed: Selectable measurement speeds of approximately 10 measurements per second (fast) and 2.5 measurements per second (slow). Auto LCR Mode: Automatic identification and measurement of component types within supported ranges. Data Hold: Feature available to hold measured data on display. Interface: USB virtual COM port provided for remote communication capabilities. Software: Data logging software is available for data capture and analysis.</p>	1
24	Soldering Station	Branded Company Product with at least Five years of product warranty	<p>Power Rating: Approximately 60 W maximum output power. Temperature Range: Adjustable from approximately 200 °C up to 480 °C. Temperature Stability: Within ± 2 °C under normal operating conditions. Heating Element: Ceramic heating element for rapid heat-up and efficient temperature maintenance. Display: Digital or analog temperature display (depending on variant) for precise temperature control. Temperature Control: Adjustable via knob or digital interface with fine resolution. Power Supply: AC 220 V $\pm 10\%$, 50/60 Hz. Safety Features: Thermal cutoff and overload protection within required standards. Dimensions: Compact design with 100 mm \times 100 mm \times 90 mm (W \times H \times D) or above Weight: Approximately 1.5 kg for ease of portability and bench use.</p>	3
25	Digital Microscope	Branded Company Product with at least Five years of product warranty	<p>Specification: Magnification: 1600X Light source: 8 LED lights Resolution: 1920\times1080, 640*480 Pixel: 30W Focal length: 3-40mm manual adjustment. Support Android 4.2 or above/Windows/Mac systems</p>	1

26	Soldering Rework Station	Branded Company Product with at least Five years of product warranty	<p>Soldering Iron Power: Up to approximately 60 W output power with temperature adjustable within approximately 200 °C to 480 °C range. Heating Element: Needle bit with MCH heater providing rapid heat-up and stable temperature control within ± 2 °C.</p> <p>Hot Air Blower Power: Up to approximately 500 W output power with temperature adjustable within approximately 200 °C to 450 °C range, multiple nozzles included.</p> <p>Hot Air Features: Auto-pause function on placement in cradle, airflow adjustable within operational limits.</p> <p>DC Power Supply: Provides output voltage approximately 15 V up to 2 A maximum current, plus 5 V USB output for auxiliary power.</p> <p>Control: Microcontroller-based system with LED indicators for temperature and mode selection.</p> <p>Safety: ESD-safe design compliant with applicable standards.</p> <p>Build: Metallic body with powder coating, approximate dimensions 280 mm \times 180 mm \times 140 mm (W \times H \times D).</p> <p>Weight: Approximately 3.5 kg.</p> <p>Power Source: AC 220 V \pm10%, 50/60 Hz.</p> <p>Accessories: Includes soldering iron with needle bit, hot air blower with 3 nozzles, iron stand with sponge, hot air cradle, patch cord, and power cord.</p> <p>Operating Temperature: Suitable for ambient temperature approximately 0 °C to 40 °C</p>	1
27	Hand Drill Machine	Branded Company Product with at least Five years of product warranty	<p>Rated Input Power: Approximately 500 W or above, maximum power consumption.</p> <p>Bit Holder: Standard 1/2"-20 UNF thread type.</p> <p>No-Load Speed (1st Gear): Adjustable from 0 up to approximately 3,000 rpm.</p> <p>Power Output: Approximately 300 W continuous output power.</p> <p>Weight: Approximately 1.7 kg total device weight.</p> <p>Impact Rate at No-Load Speed: Variable from 0 up to approximately 48,000 bpm.</p> <p>Rated Torque: Approximately 1.4 Nm maximum torque output.</p> <p>Drill Spindle Connecting Thread: Standard 1/2"-20 UNF thread.</p> <p>Chuck Capacity (Min/Max): Approximately 1.5 mm minimum to 13 mm maximum.</p>	2
28	Cordless drill	Branded Company Product with at least Five years of product warranty	<p>Torque (soft/hard/max.): Min 21/50/- Nm</p> <p>No-load speed (1st gear / 2nd gear): Min 0 – 500 / 0 – 1,900 rpm</p> <p>Weight incl. battery: 1.3 kg or less Max. impact rate: 27,000 bpm</p> <p>Battery type: Lithium-Ion or equivalent</p> <p>Chuck capacity, min./max.: 1.5 / 13 mm</p> <p>Weight excl. battery: 0.99 kg</p> <p>Torque settings: 20+2 or better</p>	2

29	Jig Saw	Branded Company Product with at least Five years of product warranty	<p>Rated Input Power: Approximately 500 W maximum power consumption.</p> <p>Voltage, Electrical: Nominal 230 V AC supply.</p> <p>Saw Stroke Length: Approximately 20 mm stroke length.</p> <p>Stroke Rate at No Load: Adjustable within approximately 800 to 3,100 spm (strokes per minute).</p> <p>Weight: Approximately 2.08 kg total weight. Bevel Angle: Adjustable within approximately -45° to 45° range.</p>	1
30	Miter Saw	Branded Company Product with at least Five years of product warranty	<p>Rated Input Power: Approximately 1,750W maximum power consumption.</p> <p>Saw Blade Diameter: Approximately 254 mm nominal diameter.</p> <p>Mitre Setting: Adjustable up to approximately 47° left and 52° right.</p> <p>Bevel Setting: Adjustable up to approximately 45° left and 0° right.</p> <p>Saw Blade Bore Diameter: Approximately 25.4 mm standard bore.</p> <p>Cutting Capacity at 0°: Approximately 90 mm × 130 mm maximum cross-section.</p> <p>Cutting Capacity at 45° Meter: Approximately 90 mm × 91 mm maximum cross-sections.</p> <p>Cutting Capacity at 45° Bevel: Approximately 60 mm × 130 mm maximum cross-sections.</p> <p>Tool Dimensions (W×L×H):</p> <p>Approximately 477 mm × 559 mm × 567 mm.</p> <p>No-Load Speed: Fixed at approximately 5,000 rpm.</p> <p>Weight: Approximately 11.1 kg.</p>	1
31	Hot Air Gun	Branded Company Product with at least Five years of product warranty	<p>Rated Input Power: Approximately 1,800 W maximum power consumption.</p> <p>Voltage, Electrical: Nominal 230 V AC supply. Weight: Approximately 0.75 kg.</p> <p>Working Temperature Range: Adjustable within approximately 60 °C to 550 °C.</p> <p>Heat-Up Time: Approximately 1 second to reach target temperature.</p> <p>Airflow: Adjustable within approximately 350 to 550 liters per minute.</p> <p>Airflow Control: Three selectable airflow settings.</p>	2



32	Table saw	Branded Company Product with at least Five years of product warranty	Rated input power: Max 1800 W Incline setting: 45 ° L / 0 ° R Table size: Up to 555 x 555 mm Saw blade diameter: 254 mm Cutting height 90°: 80 mm Cutting height 45°: 55 mm Saw blade bore diameter: 30 mm, Weight 24.4 kg or less Max. cutting capacity on the right: 545 mm No-load speed: 4300 rpm Cutting height 90°: 80 mm Cutting height 45°: 55 mm	1
33	Bench grinder	Branded Company Product with at least Five years of product warranty	Grinding wheel diameter: min 150 mm Rated input power: 350 W or more Grinding wheel widths: 20 mm or more No-load speed: Up to 3,000 rpm Grinding wheel bore: 20 mm/2cm Grit 24, 60 or more Weight: 10 kg or less	1
34	Angle Grinder	Branded Company Product with at least Five years of product warranty	Rated Input Power: Approximately 670 W maximum power consumption. No-Load Speed: Approximately 11,000 rpm. Disc Diameter: Approximately 100 mm nominal diameter. Grinding Spindle Thread: Standard M10 thread. Weight: Approximately 1.5 kg. Switch: Lockable switch for operational safety.	1
35	Straight Grinder	Branded Company Product with at least Five years of product warranty	Rated Input Power: Max 300 W power consumption. No-Load Speed: Up to 28,000 rpm. Voltage, Electrical: Nominal 230 V AC supply. Spindle Collar Diameter: Approximately 41 mm. Weight: Around 1.4 kg. Maximum Grinding Tool Diameter: Up to 25 mm. Maximum Collet Diameter: Up to 8 mm. Switch: Lockable switch for enhanced safety.	1
36	Circular Saw	Branded Company Product with at least Five years of product warranty	Rated Input Power: Approximately 1,400 W maximum consumption. Saw Blade Diameter: Nominal 184 mm diameter. Saw Blade Bore Diameter: About 20 mm standard bore size. Guide Rail Compatibility: Not compatible with guide rails. No-Load Speed: Typically, 5,200 rpm. Weight: Around 4.1 kg	1
37	Blower	Branded Company Product with at least Five years of product warranty	Rated Input Power: Max 650 W power consumption. Weight: Approximately 1.7 kg. Voltage, Electrical: Nominal 230 V AC supply. Sound Pressure Level: Around 103 dB(A). Sound Power Level: Approximately 95 dB(A). Uncertainty (K): Within ±3 dB	1

38	Cordless Screwdriver	Branded Company Product with at least Five years of product warranty	<p>Battery Capacity: Around 1.5 Ah nominal capacity.</p> <p>Torque (Soft/Hard/Max): Approximately 14 Nm / 30 Nm / Maximum not specified.</p> <p>No-Load Speed (1st Gear / 2nd Gear): Ranges from 0 up to 400 rpm and 0 up to 1,500 rpm respectively.</p> <p>Battery Type: Rechargeable Lithium-Ion battery.</p> <p>Chuck Capacity (Min/Max): From approximately 0.8 mm up to 10 mm. Weight (Excluding Battery): About 0.8 kg.</p> <p>Torque Settings: 20 plus 1 adjustable setting.</p>	1
39	Vacuum Cleaner	Branded Company Product with at least Five years of product warranty	<p>Rated Input Power: Approximately 1,100 W maximum power consumption.</p> <p>Weight: Around 6 kg total weight. Container Volume (Net): Approximately 10 liters capacity.</p> <p>Voltage, Electrical: Nominal 230 V AC supply.</p> <p>Container Volume (Gross): Approximately 15 liters total volume.</p> <p>Container Volume (Net, Water): About 8 liters of capacity for water.</p> <p>Filter Surface Area: Around 2,300 cm² effective filtration area.</p> <p>Airflow Rate (Turbine): Approximately 53 liters per second.</p> <p>Vacuum Pressure (Turbine): Up to 270 mbar vacuum pressure.</p> <p>Number of Wheels: Four wheels for mobility.</p>	1
40	Random orbit sander	Branded Company Product with at least Five years of product warranty	<p>Rated Input Power: Up to 280 W maximum consumption.</p> <p>Sanding Pad Diameter: Nominal 125 mm diameter.</p> <p>Orbit Diameter: Approximately 2.6 mm orbital diameter.</p> <p>Weight: Around 1.4 kg.</p> <p>No-Load Speed: Adjustable within a 7,500 to 12,000 rpm range.</p> <p>Orbital Stroke Rate: Between 15,000 and 24,000 orbits per minute (opm).</p> <p>Eccentricity: Approximately 1.3 mm.</p>	1
41	Planer	Branded Company Product with at least Five years of product warranty	<p>Rated Input Power: Not exceeding 710 W under nominal operating conditions.</p> <p>Planer Width: Approximately 82 mm effective width capacity.</p> <p>Planer Depth: Within the range of up to 2.6 mm maximum depth per pass.</p> <p>Weight: Circa 2.8 kg total unit mass.</p> <p>Adjustable Rebating Depth: Maximum adjustable depth of approximately 9 mm.</p> <p>No-Load Speed: Operating speed is typically around 18,000 rpm.</p>	1



42	Cordless Vacuum Cleaner with Starter Kit	Branded Company Product with at least Five years of product warranty	Battery Voltage: Rated at approximately 18.0 V nominal voltage. Weight Excluding Battery: Around 1.3 kg without battery attached. Container Volume: Approximately 0.7 liters net capacity. Filter Surface Area: Roughly 55 cm ² filtration surface. Maximum Airflow Rate (Turbine): Up to 10 liters per second. Maximum Vacuum Pressure (Turbine): Not exceeding 60 mbar under standard conditions. Operating Time (18 V Battery): Typically, 7 minutes per Ah of battery capacity.	1
43	Rotary Tool Kit	Branded Company Product with at least Five years of product warranty	Rated Power Input: Approximately 175 W within the nominal voltage range. Voltage: Operates within a 220 to 240 V AC supply. Weight: Around 0.66 kg total mass. Length: Approximately 24 cm overall length. Width: About 4.1 cm nominal width. Depth: Roughly 4.3 cm depth dimension. No-Load Speed: Variable speed ranging from 5,000 up to 35,000 rpm. Battery Technology: Not applicable (n.a.). Speed Setting: Fully variable speed control as required. Accessory Quick-Change System: Equipped with a multi-chuck for rapid accessory interchange. Vibration Level: Approximately 18 m/s ² measured vibration	2
44	Rubber Grip Hacksaw	Branded Company Product Very Good Quality	Depth of Throat: Approximately 98 mm (3.85 inches) nominal depth. Blade Length: Around 254 mm (10 inches) standard length.	2
45	Hacksaw Mini	Branded Company Product Very Good Quality	Blade Length: Approximately 10 inches nominal length. Handle Material: Constructed from metal as standard. Overall Length: Around 11 inches total length.	2
46	Claw Hammer Steel Shaft	Branded Company Product Very Good Quality	Weight: Approximately 8 oz (220 grams) nominal weight. Dimensions: Around 27.8 cm × 12.4 cm × 3.6 cm (L × W × H) overall size	2
47	Ball Pein Hammer	Branded Company Product Very Good Quality	Weight: Approximately 110 grams nominal weight. Dimensions: Around 32.6 cm × 10 cm × 2 cm (L × W × H) overall measurements.	2
48	Rubber mallet	Branded Company Product Very Good Quality	Weight: Approximately 450 grams nominal weight. Dimensions: Around 33.6 cm × 9.6 cm × 6.2 cm (L × W × H) overall size.	2

49	Ring spanner set 12Pcs	Branded Company Product Very Good Quality	Weight: 3.08 Kg nominal weight. Quantity: 12 pcs per set. Size: 6 mm to 32 mm overall range.	1
50	Open-end spanner set 12Pcs	Branded Company Product Very Good Quality	Weight: Approx 1.74Kg nom.wt Qty: 12pcs/set. Size: 6mm-32mm overall dims.	1
51	Combination Spanner set 8Pcs	Branded Company Product Very Good Quality	Weight: Approx 649g nom.wt Qty: 8pcs/set.	1
52	Allen key set 10pcs	Branded Company Product Very Good Quality	Hex Key Size: 1.5,2,2.5,3,4,5,5.5,6,8,10mm; Qty:10pcs/set	2
53	Allen key set 12pcs	Branded Company Product Very Good Quality	BallKeySize:1/16",5/64",3/32",7/64",1/8",9/64",5/32",3/16",7/32",1/4",5/16",3/8" Qty:12pcs/set	2
54	Combination plier	Branded Company Product Very Good Quality	Weight: Approx 422g nom. wt Size: 8"/200mm nominal	2
55	Long nose plier	Branded Company Product Very Good Quality	Weight: Approx 399g nom. wt Size:180mm/6" nominal	2
56	Circlip straight 5"	Branded Company Product Very Good Quality	Weight: Approx 399g nom. wt Size:130mm/5" nominal	2
57	Circlip bent	Branded Company Product Very Good Quality	Weight: Approx 399g nom. wt Size: 130mm/5" nominal"	2
58	Diagonal Cutter	Branded Company Product Very Good Quality	Weight: Approx 239g nom .wt Size:180mm nominal"	2
59	Wire Stripper	Branded Company Product Very Good Quality	Weight: Approx 281g nom. wt Size:130mm nominal	2

60	Adjustable spanner	Branded Company Product Very Good Quality	Size: Up to 150 mm	2
61	Pipe wrench	Branded Company Product Very Good Quality	Size: Max 300 mm	2
62	C - clamp	Branded Company Product Very Good Quality	Size: Up to 75 mm	4
63	C-clamp	Branded Company Product Very Good Quality	Size: Up to 150 mm	4
64	Snap- off Knife	Branded Company Product Very Good Quality	Size:18 mm	2
65	16pcs screw driver set	Branded Company Product Very Good Quality	Pieces Per Set: 16 pcs	5
66	6pcs precision screw driver set	Branded Company Product Very Good Quality	Pieces Per Set: 16 pcs	5
67	Max steel snip cutter	Branded Company Product Very Good Quality	Length: 250 mm	2
68	PVC Pipe cutter	Branded Company Product Very Good Quality	Length: 42 mm	2
69	Hot Glue Gun	Branded Company Product Very Good Quality	Power: 40 W	4
70	Small file set	Branded Company Product Very Good Quality	Length: 160 mm	2

71	Big file set	Branded Company Product Very Good Quality	Length: 200 mm	2
72	Chisel set	Branded Company Product Very Good Quality	Weight: 340 gm	2
73	Punch set	Branded Company Product Very Good Quality	Weight: 390 gm	2
74	Bench wise	Branded Company Product Very Good Quality	Base Type: Fixed Size: 2-3½" nominal Jaw Width: 60mm	2
75	Router Bit Starter Kit	Branded Company Product Very Good Quality	Pieces Per Set: 15 pcs	1
76	Drill bit set	Branded Company Product Very Good Quality	WAF (mm): 1,1.5,2,2.5,3,3.5,4,4.5,5,5.5,6,6.5,7,7.5,8,8.5,9,9.5,10,10.5, 11,11.5,12,12.5,13 Wt.: ~1.3Kg nom. wt Sz(mm): 205×115×55 overall	2
77	Baby wise	Branded Company Product Very Good Quality	Vice Type: Bench Size: 2" nominal Jaw Width: 50mm	2
78	Ratchet Set	Branded Company Product Very Good Quality	Vice Type: Bench Size: 2" nominal; Jaw: 50mm	2
79	Pegboard	Branded Company Product Very Good Quality		5
80	Digital Vernier Caliper	Branded Company Product Very Good Quality	Product Type: Digital Caliper Meas. Range: 0-150mm / 0-6" Resolution: 0.01mm	2
81	Micrometer	Branded Company Product Very Good Quality	Resolution: 0.001mm/0.00005" Meas. Range: 0-25mm/0-1"	1

82	Steel Rule 300mm	Branded Company Product Very Good Quality	Product Type: Steel Rule Scale Size:12"/300mm Material: Stainless Steel	5
83	Steel Rule 600mm	Branded Company Product Very Good Quality	Product Type: Steel Rule ScaleSize:24"/600mm Material: Stainless Steel	5
84	Engineering Square	Branded Company Product Very Good Quality	Size:150 × 80 mm nominal Material: Carbon Steel	2
85	Meter Tape 30m	Branded Company Product Very Good Quality	Length: 30 m	1
86	Measuring Tape 3M	Branded Company Product Very Good Quality	Length: 3 m	3
87	Measuring Tape 5M	Branded Company Product Very Good Quality	Length: 5 m	3
88	Spirit Level	Branded Company Product Very Good Quality	Vials: 3 Accuracy: 0.5mm/m Length: 300 mm Product Type: Level	3
89	Goggle	Branded Company Product Very Good Quality	Goggle – Industrial Standard Make	5
90	Apron	Branded Company Product Very Good Quality	Apron - Standard Make	5
91	Ear Muff	Branded Company Product Very Good Quality	Earmuff – Industrial Standard Make	5
92	Mask	Branded Company Product Very Good Quality	Mask – Industrial Standard Make	50

93	Fire Extinguisher	Branded Company Product Very Good Quality	Fire Extinguisher- Industrial Standard Make	6
94	First Aid Kit	Branded Company Product Very Good Quality	First Aid Kit - Industrial Standard Make	2
95	Gloves Pair	Branded Company Product Very Good Quality	Gloves - Industrial Standard Make	10
96	Normal Oven	Branded Company Product with at least five years product warranty	Oven Cap: 20L or more Type: Solo Door: Side Swing Child Lock: Yes Completion Beeper: Yes Power Levels: Up to 5 Control: Membrane Type Cavity Mat: Anti-Bacterial Dims(mm): 455 × 252 × 320 PowerOut: 700W or less	1
97	Refrigerator	Branded Company Product with at least five years product warranty	Capacity: 183L or more Annual Energy Consumption: 148kWh/Year or less Refrigerator Fresh Food Capacity: 165L or more Freezer Capacity: min 18L Bottle Count: 5 or more Noise Level: 40dB or less Installation Type: Free-standing	1
98	Smart Board	Branded Company Product with at least five years product warranty	Display Size: Approx 75Inch (190 cm) Up to Resolution: 4K UHD or higher Brightness: Min 350 nits; Typ 400 nits Approx Contrast Ratio: Typ 1200: 1 Upto Response Time: Approx 8ms Viewing Angle: Approx 178 Degrees Wide Working Frequency: 1.5GHz Nominal RAM: 4 GB or More Internal Storage: 32 GB Min OS: Android-based HDMI: 3Ports USB: 2 Ports Sensing Type: Infrared Touch Frame Surface Protection: 4mm Toughened Glass or Equivalent Infrared Touch Points: 20 Approx Voltage: DC +5V ±5% Range OPS: Optional	1

99	Projector	Branded Company Product with at least five years product warranty	Projection Tech: RGB liquid crystal shutter projection (3LCD) Up to Connectivity: USB Type B: 1 Port (Firmware Update/Copy OSD) Approx Analog Input: D-Sub 15pin:1 Port Digital Input: HDMI:1 Port Projection Lens: Type: No Optical Zoom/Focus (Manual)Nominal Focal Length:16.70 mm Approx FNumber: 1.44 Nominal Zoom: 1.44 – 1.95 Ratio (Wide to Tele) Throw Ratio Range: 1.00 – 1.35 (Digital Zoom Approx)	1
100	Printer	Branded Company Product with at least five years product warranty	Functions: Print, Scan, Copy Printer Type: Laser Nominal Dims(mm): 409 × 398.5 × 267 Approx Weight: 9.7 Kg Nominal Print Speed: Up to 30 ppm(A4Size) Approx Warranty: 1 Year On-Site Print Resolution: 600 × 600dpi, HQ1200(2400 × 600dpi) Quality Approx 2 Sided-Duplex Paper Type: Plain, Thin, Recycled, Approx 2 Sided-Duplex Paper Size: A4 Paper Handling: Tray #1 Paper Type: Plain, Thin, Recycled Tray #1 Max Capacity: Up to 250Sheets(80g/m ²) Approx Paper Output: Up to 100 Sheets(80g/m ²) Face Down Tray; One Sheet Face Up Tray Approx Copy-Color /Mono: Yes/Yes Multiple Copies: Sorts/StacksUpto99PagesApproxEnlarge/Reduce:25% 400 % (In1%Steps) Approx CopyResolution:600×600dpi 2Sided-Duplex Copy Paper Type: Plain, Thin, Recycled 2-sided-Duplex CopyPaperSize:A4 Scan ResolutionInterpolated: Up to 19200 ×19200 dpi Approx-Scan Resolution Glass: Up to 600 × 2400 dpi Approx Connectivity: Hi-Speed USB 2.0 Display Type: 16 Chars × 2 Lines Memory Capacity: 32MB Approx Power Source: 220 - 240 VAC 50/60Hz Power Consumption-Ready: Approx 60W Power Consumption-Sleep: Approx 6.6W Power Consumption-Off: Approx 0.08W Noise Level: 50dB(A) Approx	1
101	Desktop	Branded Company Product with at least five years product warranty	CPU: INTEL CORE i7-12th Gen or Higher RAM: 8 GB + 512 GB SSD or more Conn:LAN + WIFI + BLUETOOTH + KEYMOUSE Display: 20" DESKTOP MONITOR	5

102	3D printer Filament	Branded Company Product Very Good Quality	Weight Kg: 1 Approx Melt Flow Index: 2 (190°C/2.16kg) Nominal Filament Length: 330 m Approx Dim Accuracy: +/-0.1 mm Approx Roundness Accuracy: +/-0.5 mm Approx Spool Inner Dia: 55 mm Nominal Spool Outer Dia: 20 mm Approx Spool Weight: 300 g Nominal Spool Width: 65 mm Approx	10
103	Acrylic Sheet 3mm, 4ft x 4ft	Branded Company Product Very Good Quality		20
104	Acrylic Sheet 4mm, 4ft x 4ft	Branded Company Product Very Good Quality		20
105	Acrylic Sheet 5mm, 4ft x 4ft	Branded Company Product Very Good Quality		20
106	Foam Sheet 8mm, 4ft x 4ft	Very Good Quality		2
107	Foam Sheet 10mm, 4ft x 4ft	Branded Company Product Very Good Quality		1
108	Foam Sheet 12mm, 4ft x 4ft	Branded Company Product Very Good Quality		1
109	Foam Sheet 15mm, 4ft x 4ft	Branded Company Product Very Good Quality		1
110	Ply Board 5mm, 2ft x 4ft	Branded Company Product Very Good Quality		12
111	Nylon Rod 10mm, 1m	Branded Company Product Very Good Quality		5
112	Nuts (3mm,4mm, 5mm,6mm, 8mm, 10mm, 12mm) Pack of 100	Branded Company Product Very Good Quality		1

113	Bolts (3mm,4mm, 5mm, 6mm,8mm, 10mm, 12mm) Dia 1" Inch Pack of 100	Branded Company Product Very Good Quality		1
114	Screws (3mm, 4mm, 5mm) Pack of 100	Branded Company Product Very Good Quality		1
115	Washers (3mm,4mm, 5mm, 6mm, 8mm, 10mm, 12mm) Pack of 100	Branded Company Product Very Good Quality		1
116	Studs (6mm,8mm) 1 Meter	Branded Company Product Very Good Quality		2
117	Nails (1",2",3",1.5",5") Pack of 100	Branded Company Product Very Good Quality		1
118	Fevicol 2Kg	Branded Company Product Very Good Quality		1
119	2 Way Tape	Branded Company Product Very Good Quality		10
120	PVC Pipe .75", 10ft	Branded Company Product Very Good Quality		10
121	PVC Pipe 1",10ft	Branded Company Product Very Good Quality		10
122	PVC Pipe 1.5", 10ft	Branded Company Product Very Good Quality		10

123	PVC Pipe 2.0", 10ft	Branded Company Product Very Good Quality		10
124	Aluminum channels (L, C, Box, strip length 12 ft)	Branded Company Product Very Good Quality		2
125	PCB Drill Bit 0.4mm	Branded Company Product Very Good Quality		10
126	PCB Drill Bit 0.8mm	Branded Company Product Very Good Quality		10
127	PCB Drill Bit 1mm	Branded Company Product Very Good Quality		10
128	Drill Bit 4mm	Branded Company Product Very Good Quality		10
129	Drill Bit 5mm	Branded Company Product Very Good Quality		10
130	Drill Bit 6mm	Branded Company Product Very Good Quality		10
131	Arduino UNO R3	Branded Company Product Very Good Quality		5
132	Arduino NANO	Branded Company Product Very Good Quality		5
133	ESP Wi-Fi Camera	Branded Company Product Very Good Quality		5
134	Raspberry Pi Model 4B, 4GB	Branded Company Product Very Good Quality		3
135	ESP8266 Node MCU	Branded Company Product Very Good Quality		2
136	ESP32 Development Board	Branded Company Product Very Good Quality		2

137	Beagle bone blue	Branded Company Product Very Good Quality		1
138	Beaglebone Black	Branded Company Product Very Good Quality		1
139	Voltage Regulator Module	Branded Company Product Very Good Quality	3V, 5V and 12V	5
140	Mini Micro submersible Water Pump	Branded Company Product Very Good Quality		2
141	Piezoelectric Plate	Branded Company Product Very Good Quality		2
142	8*8 LED Matrix Module	Branded Company Product Very Good Quality		2
143	Bluetooth	Branded Company Product Very Good Quality		2
144	7-Segment LED Display	Branded Company Product Very Good Quality		2
145	GSM/GPRS /GPS Module	Branded Company Product Very Good Quality		2
146	Laser Module	Branded Company Product Very Good Quality		2
147	LDR Module	Branded Company Product Very Good Quality		2
148	4*4 Matrix Keypad	Branded Company Product Very Good Quality		2
149	Joy Stick Module	Branded Company Product Very Good Quality		2
150	Active Buzzer (BIG)	Branded Company Product Very Good Quality		2
151	Active Buzzer (SMALL)	Branded Company Product Very Good Quality		2

152	Motor Driver	Branded Company Product Very Good Quality		2
153	Sound Playback Module	Branded Company Product Very Good Quality		2
154	BO Motors	Branded Company Product Very Good Quality		10
155	Vibrating Motor	Branded Company Product Very Good Quality		10
156	Capacitive Touch Switch	Branded Company Product Very Good Quality		2
157	IR Sensors (Obstacle Sensors)	Branded Company Product Very Good Quality		2
158	Triple Axis Magnetometer	Branded Company Product Very Good Quality		2
159	Humidity Sensor	Branded Company Product Very Good Quality		2
160	MQ-2	Branded Company Product Very Good Quality		2
161	MQ-3	Branded Company Product Very Good Quality		2
162	MQ-4	Branded Company Product Very Good Quality		2
163	MQ-5	Branded Company Product Very Good Quality		2
164	MQ-7	Branded Company Product Very Good Quality		2
165	Ultrasonic Sensor Module	Branded Company Product Very Good Quality		2
166	Triple Axis accelerometer	Branded Company Product Very Good Quality		2
167	PIR Motion Detector Module	Branded Company Product Very Good Quality		2

168	Pulse Rate Heart Sensor	Branded Company Product Very Good Quality		2
169	Relay Module	Branded Company Product Very Good Quality	5V, 9V and 12V	5
170	Soil Moisture Sensor	Branded Company Product Very Good Quality		2
171	Touch Sensor	Branded Company Product Very Good Quality		2
172	Rain Drop Sensor	Branded Company Product Very Good Quality		2
173	Flex Sensor	Branded Company Product Very Good Quality		2
174	Temperature Sensor	Branded Company Product Very Good Quality		2
175	Force Pressure Sensor	Branded Company Product Very Good Quality		2
176	Color Recognition Sensor	Branded Company Product Very Good Quality		2
177	Water Flow Sensor	Branded Company Product Very Good Quality		2
178	Sound Sensor	Branded Company Product Very Good Quality		2
179	IR Sensor Array for Line Following	Branded Company Product Very Good Quality		2
180	RFID Reader-Tags	Branded Company Product Very Good Quality		2
181	RF Modules Tx & Rx 315 MHz ASK	Branded Company Product Very Good Quality		2
182	Stepper motor with Driver Board	Branded Company Product Very Good Quality		2

183	Servo Motor 360 rotation	Branded Company Product Very Good Quality		10
184	Servo Motor 180 rotation	Branded Company Product Very Good Quality		10
185	Metal Gear Servo Motor (180°Rot ation)	Branded Company Product Very Good Quality		10
186	Solder Wire 100grm	Branded Company Product Very Good Quality		10
187	Solder Flux	Branded Company Product Very Good Quality		10
188	830 Points Solderless Breadboard	Branded Company Product Very Good Quality		5
189	400 Points Solderless Breadboard	Branded Company Product Very Good Quality		5
190	Copper Clad Board single side	Branded Company Product Very Good Quality		10
191	Copper-clad board double- sided	Branded Company Product Very Good Quality		10
192	Male to Male Breadboard Jumper	Branded Company Product Very Good Quality		100
193	Female to Female Breadboard Jumper	Branded Company Product Very Good Quality		100
194	Male to Female Breadboard Jumper	Branded Company Product Very Good Quality		100
195	Push Button Switch	Branded Company Product Very Good Quality		20



Maharaja Agrasen Institute of Technology

(ISO 9001:2015 Certified)

APPROVED BY AICTE, MINISTRY OF HRD, GOVT OF INDIA
(AFFILIATED TO GURU GOBIND SINGH INDRAPRASTHA UNIVERSITY, DELHI)

Other Terms and Conditions

The following Terms and Conditions apply to all bidders participating in the tender for the supply, installation, and commissioning of equipment, tools, and machines for the establishment of an AICTE IDEA Lab. All prospective vendors are required to read and comply with these terms in their entirety.

1. General Information

All equipment and materials must be delivered in the quantities and specifications as mentioned in the purchase order issued by the purchaser. The delivery location MAIT AICTE IDEA Lab, Maharaja Agrasen Institute of Technology, PSP Area, Rohini Sector-22, Delhi-110086 will be specified in the purchase order. The entire contract shall remain valid for a period of three (3) months from the date of award.

Quotations submitted by bidders must remain valid for a minimum of 90 days from the final date of submission. Any quotation that does not meet this validity period will be considered non-compliant.

2. Warranty and After-Sales Service

All equipment must carry a minimum onsite warranty of at least Five years from the date of successful installation and commissioning. During this warranty period, the bidder shall repair or replace any defective items at no additional cost to the purchaser. All associated transportation, testing, and labor costs shall be borne by the bidder.

In case of any service delay or failure to resolve issues during the warranty period, the purchaser reserves the right to invoke penalties or reject future business from the vendor.