



MAHARANA PRATAP INSTITUTE OF TECHNOLOGY

LACHHIPUR, SONAULI ROAD, GORAKHNATH, GORAKHPUR (U. P.) - INDIA, 273015

महाराणा प्रताप इंस्टिट्यूट ऑफ टेक्नोलॉजी

लच्छीपुर, सोनौली रोड, गोरखनाथ, गोरखपुर, उ. प्र. - भारत, 273015

(UNDER UMBRELLA OF MAHARANA PRATAP SHIKSHA PARISHAD, GORAKHPUR)

Approved by AICTE, New Delhi

Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Lucknow, Uttar Pradesh

Tender Reference No. MPIT/SSL/Tender-12/2026

Dated: 10.08.2026

TENDER DOCUMENT

Tenders, in three separately sealed envelopes (Technical Bid, Financial Bid, Tender Fee and Earnest Money Deposit (EMD)), are invited from reputed Manufacturers /Authorized Dealers / Vendors/ Bidders/ Firms for Development of Space Science & Technology Lab at COE of MPIT, Gorakhpur. The work includes supply, installation, testing and commissioning of Drone Lab Equipment as well as training of manpower (students and instructors) and equipment maintenance for the specified period as given in the Schedule of Requirements. Bidders are requested to submit their sealed bids physically in three separate envelopes as follows: - **Envelope 1:** Technical Bid with all requisite documents in support of all the claims made by the bidder, **Envelope 2:** Financial Bid containing the rates for each items/ service (if applicable) and **Envelope 3:** DD of Tender Fee and EMD. Each envelope has to be sealed separately. Please mention the envelop number (1-Technical Bid, 2-Financial Bid, 3- Tender Fee and EMD), tender reference number, tender title, name of bidder, complete address, telephone number, and e-mail address of the bidder on the envelope.

Sr. No.	Tender Title	Quantity	Tender Fee in Rs.	Earnest Money Deposit in Rs.
01.	Supply, Installation, Testing and Commissioning of Space Science & Technology lab equipment as well as training of manpower (students and instructors) and equipment maintenance for the specified period as given in the Schedule of Requirements	As per Schedule of Requirements	Rs. 5,000/-	Rs. 2,00,000/-

Detailed description and tender documents are available on our website: - www.coempit.com & www.mpit.ac.in.

Date of Publishing Tender:

10.08.2026

Bid Submission start Date:

11.08.2026

Bid Document Download Start Date:

10.08.2026

Bid Submission End Date:

25.08.2026

Bid Document Download End Date:

25.08.2026

Technical Bid Opening Date & Time

27.08.2026, 11.30 am

Financial Bids (Envelope 2) of only those firms will be opened that qualify in the Technical Bid evaluation stage. The date of opening of Financial Bids will be informed only to the technically qualified firms separately. The competent authority of Centre of Excellence of Maharana Pratap Institute of Technology, Gorakhpur reserves the right to reject/cancel any or all the tenders without assigning any reason thereof. Sealed envelopes containing all requisite details and documents should be submitted to the office of the CEO, Centre of excellence, Maharana Pratap Institute of Technology, Lacchipur, Sonauli Road, Gorakhnath, Gorakhpur-273015, UP so that it reaches on or before the stipulated deadline. Bidders sending their documents by registered / speed post only should ensure that the bids are received on or before the last date. Bids received after the due date shall not be entertained in any case.

(Chief Executive Officer)

**(TO BE FILLED UP BY THE BIDDER ON ITS LETTER HEAD AND SUBMITTED WITH
THE TECHNICAL BID)**

(Mention the Bidder Details here)

From:
.....
.....
.....
Phone No.
Fax No

To,

The Chief Executive Officer,
Centre of Excellence,
Maharana Pratap Institute of Technology,
Gorakhpur-273015

**Sub: Submission of Tender (Technical Bid Only) in response to your Tender Reference No.
MPIT/SSL/Tender-12/2026 dated: 07.08.2026**

Dear Sir,

We hereby submit our **Technical Bid** along with proof of Tender Fee and EMD in full compliance of the terms and conditions given in the tender document with all technical specifications.

Thanking you,

Yours faithfully,

Date:.....

(Signature of Bidder)

Authorized Signatory with Seal

Centre of Excellence
Maharana Pratap Institute of Technology, Gorakhpur, U.P.

Form -I

(To be filled in by the Bidder. Enclose necessary documents in support of your claim.)

Bidders Performa

Tender Title	Supply, Installation, Testing and Commissioning of Space Science & Technology Lab Equipment as well as training of manpower (students and instructors) and Equipment maintenance for the specified period as given in the Schedule of Requirements
Name of the firm with full address and contact number	
FOR	Maharana Pratap Institute of Technology, Gorakhpur.
Tender Fee (Non-Refundable)	DD No: Amount: Bank: Date: Drawn in favor of Centre of Excellence of Maharana Pratap Institute of Technology payable at Gorakhpur.
Earnest Money Deposit (Refundable)	DD No: Amount: Bank: Date: Drawn in favor of Centre of Excellence of Maharana Pratap Institute of Technology payable at Gorakhpur.
PAN/TIN/TAN/GST No (Attach copies of all the documents duly signed and stamped by the authorized signatory)	PAN: TIN: TAN: GST:
Original Equipment Manufacturers /Authorization Letter from OEM (Duly signed and stamped by the person authorized to issue such certificates).	Attach proof
Turnover of the last three financial years (Attach CA certified Turnover Certificate)	Attach proof
Past Experience of Setting up similar kind of lab	Attach proof
EPF & ESIC Registration	Attach proof
ISO 9001:2015 Certificate	Attach proof

Date:.....

(Signature of Bidder)
Authorized Signatory with Seal

Centre of Excellence
Maharana Pratap Institute of Technology, Gorakhpur, U.P.

Form -II

(Bidder must sign and enclose this document with Technical Bid)

GENERAL CONDITIONS:

1. Tender documents are available for download on our website during the stipulated period. Tenders are invited on the prescribed Tender Forms only. Tender submitted in any other format, or send through e-mail, or any other electronic medium shall not be accepted.
2. Bidders must go through the complete tender documents and read them carefully before submission of their bids. Any clarification regarding the tender terms and conditions, process etc. should be sent to **Chief Executive Officer, Centre of Excellence, MPIT, Gorakhpur, email: coempit@gmail.com or directormpit@gmail.com.**
3. Tender Fee is **Rs. 5,000/-** (Non-refundable), which should be paid by means of Bank Draft favoring **Centre of Excellence of Maharana Pratap Institute of Technology** payable at Gorakhpur. It should be kept separately in Envelope-3 along with the EMD and sealed.
4. An Earnest Money Deposit of **Rs. 2,00,000/-** payable through a Demand Draft drawn in favor of **Centre of Excellence of Maharana Pratap Institute of Technology** payable at Gorakhpur from any of the scheduled banks. The original Demand Draft for Tender Fee and EMD must be submitted separately in Envelope-3 (DD of Tender Fee and EMD). These documents should reach our office before opening of the bids. If the tender fee and EMD are not received before opening technical bids, the technical bids of such vendors shall not be opened.
5. The bidder must be a natural person, private entity, or public entity (state owned institution/ enterprise). The bidder must not be or proposes to be a Joint Venture/ Consortium. The bidder must be a manufacturer of the product offered or be a dealer authorized by the Original Equipment Manufacturer. A declaration stating the same on the bidder's letterhead duly signed and stamped by the authorized signatory should be enclosed with the technical bid.
6. The bidder must not be insolvent, in receivership, bankrupt, or being wound up, not have its affairs administered by a court or a judicial officer, not have its business activities suspended and must not be the subject of legal proceedings. The bidder must not be convicted (within 3 years preceding the last date of bid submission) or stand declared ineligible/ suspended/ blacklisted/ banned/ debarred by appropriate agencies of Govt. of India, and Govt. of Uttar Pradesh. A declaration stating the same on the bidder's letterhead duly signed and stamped by the authorized signatory should be enclosed with the technical bid.
7. The bidder must fulfill all eligibility conditions mentioned here or elsewhere in any documents related to this tender. The bidder must also provide such evidence of continued eligibility to the procuring entity, if requested.
8. Bidders are requested to attend a Pre-Bid Meeting for clarification on the technical and Financial conditions or any other terms and conditions of this tender. Time, date, and place of such meeting will be notified separately on our website. Bidders are requested to regularly visit our website for pre bid meeting notice. Participation in the Pre-Bid Meeting is not mandatory. If a bidder does not participate or submit any query, then no subsequent representations from them regarding the Technical/Financial specifications/conditions shall be entertained.
9. Delegates participating in the Pre-Bid Meeting must provide a Photo ID Card and authorization letter from the prospective bidder on their letterhead; else they shall not be allowed to participate. The Pre-Bid meeting may also be held online at the discretion of the procuring entity
10. The procuring entity reserves the right without assigning any reasons: (a) to reject any or all of the bids; (b) to cancel the tender process; (c) to abandon the procurement of goods; (d) to issue another tender for identical or similar goods; (e) to issue corrigendum/ addendum in the specifications or terms and conditions of the tender; (f) to extend the last date of bid submission. It would have no liability to the affected bidder/ bidders or any obligation to the inform the affected bidder/ bidders of the grounds of such actions.
11. Subject to the provisions of the tender documents, participation in this tender process is open to all bidders who fulfill all the eligibility conditions, technical requirements, and tender terms and

conditions.

12. Any bidder having a conflict of interest, which substantially affects fair competition, shall not be eligible to bid in this tender. Bids found to have a conflict of interest shall be rejected as non-responsive. Bidders are required to declare the absence of such conflict of interest on their letterhead duly signed and stamped by the authorized signatory.
13. The prices should be arrived at independently, without restricting competition, any consultation, communication, or agreement with any other bidder of competitor relating to those prices or the intention to submit an offer, or the methods of factors used to calculate the prices offered. The prices should neither be nor shall be knowingly disclosed by the bidder, directly or indirectly, to any other bidding competitor before bid opening or contract award, unless otherwise required by law.
14. Prices should be mentioned only in Form V (Financial Bid Format). It should be separately sealed in Envelope 2: Financial Bid. Financial Bids (Envelope 2) of only those firms will be opened that qualify in the Technical Bid evaluation stage. The currency of bid and payment shall be quoted by bidder in Indian Rupees. All payment shall be made in Indian Rupees only. Tender where prices are quoted in any other way shall be rejected as non-responsive.
15. All the bidders should ensure that they are GST compliant and their quoted tax structure/rates as per GST Act/ Rules. Bidder should be registered under GST and furnish GSTIN number and GST Registration Certificate along with their Technical Bid.
16. The bidder(s) shall bear all direct or consequential costs, losses and expenses associated with or relating to the preparation, submission, and subsequent processing of their bids. The procuring entity shall not be liable in any manner whatsoever for the same or any other costs, losses, and expenses incurred by Bidder(s) for participation in the Tender process, regardless of conduct or outcome of the Tender process.
17. The tenderer must submit the proof of relevant experience in state/central govt. institutions/ departments, reputed Universities/ Institutions of National Importance.
18. The duration of validity of Tenders/Quotations shall be 90 days from the date of opening of the tenders.
19. No interest shall be payable on the amount of earnest money and the same shall be released within 30 days to the tenderers who fails to qualify after finalization of the tenders.
20. The bidder must submit the Manufacturer's Authorization Form (MAF) from the concerned OEMs for participating in the bid.
21. In the event of the successful tenderer withdrawing his offer within the validity period or fails to accept the offer for any reason whatsoever, the earnest money deposited by him shall be forfeited by Centre of Excellence of Maharana Pratap Institute of Technology , Gorakhpur.
22. Conditional offers/ alternative offers, multiple bids by a bidder shall not be considered.
23. The competent authority/ Director, Maharana Pratap Institute of Technology, Gorakhpur reserves the right for not accepting the lowest or any/all the tenders in whole or in part without assigning any reason for such non-acceptance.
24. The competent authority/CEO/Director, Centre of Excellence of Maharana Pratap Institute of Technology, Gorakhpur reserves the right to increase/ decrease/ remove/ add quantity of the items. Intimation for the same shall be given at the time of placing work/supply order.
25. Full description & specifications of the items offered by the bidder should be clearly mentioned in the tender, failing which the tender will not be considered.
26. Force Majeure: Any failure or omission to carry out the provisions of this supply by the supplier shall not give right for any claim by supplier and purchaser to one against the other, if such failure or omission arises from an act of God which shall include all acts of natural calamities from civil strikes compliance with any statistics and or requisitions of the Government lockout and strikes, riots, embargoes or from any political or other reasons beyond the suppliers control including war (whether declared or not) civil war or state of incarceration provided that notice of the occurrence of any event by either party to the other shall be within two weeks from the date of occurrence of such an event which could be attributed to force majeure. Any delay due to Force Majeure will not be attributable to the either of the parties.
27. Bidder must enclose unconditional Warranty Certificate for all equipment of the duration mentioned in the Schedule of Requirement (Specifications) on OEM letterhead. The warranty shall be effective from the date of acceptance of goods. The warranty must cover all parts of the

equipment. OEM Warranty certificates must be submitted by Successful Bidder at the time of delivery of Goods. The seller should guarantee the rectification of goods in case of any breakdown during the guarantee period. Seller should have well established Installation, Commissioning, Training, Troubleshooting and Maintenance Service group in INDIA for attending the after sales service.

28. BIDDER/OEM must have Dedicated / toll Free Telephone No. for Service Support. Details of Service Centers near consignee destinations are to be uploaded along with the bid.
29. After having been notified of the defects/ service requirement during warranty period, Seller must complete the required Service / Rectification within 3 days' time limit. If the Seller fails to complete service / rectification with defined time limit, a penalty of 0.5% of Unit Price of the product shall be charged as penalty for each week of delay from the seller. Seller can deposit the penalty with the Buyer directly else the Buyer shall have a right to recover all such penalty amount from the Retention amount.
30. The bidder should not be under liquidation; court receivership or similar proceedings should not be bankrupt. Bidder should upload an undertaking on its letterhead clearly stating that it is not under liquidation; court receivership or similar proceedings and is not bankrupt. Such undertaking should be enclosed with the Technical Bid.
31. In case any false information/ statements/ documents are furnished along with the bid, such bids shall be liable for rejection and the respective bidder shall be solely responsible for the same.
32. The bidder should upload an undertaking on its letterhead stating his/her acceptance and compliance of all the terms and conditions mentioned in the Bid document.
33. Bidders should ensure that the products being offered by them strictly adhere to the technical specifications, quality, and quantity mentioned in the Schedule of Requirement.
34. The bidder/OEM shall furnish an undertaking on its letterhead stating that the firm has never been blacklisted in the past by any Central/ State Govt. Organization/ PSU/ Public Listed Company/ Reputed University/ Educational Institutions and that there is no vigilance/CBI case pending against the firm/ supplier.
35. In the case of not honoring the supply order within stipulated period as per tender conditions, the Institute will have the right to impose penalty as deemed fit to resort to make purchase at the suppliers cost and risk and may forfeit his/her security/EMD.
36. Legal Jurisdiction:- All disputes and question, if any arising between the Institute and the bidder out of or in connection with the terms and conditions contained herein or as to the construction of application thereof, or the respective rights and obligations of the parties there under or as to any clause or thing herein contained or by reason of the supply or failure or refusal to supply any material or as to any other matter in any way relating to these presents shall be referred to the sole arbitration of the competent authority of the Institute or his nominee. The decision of the sole arbitrator shall be final and binding upon both parties and subject to adjudication of Gorakhpur Court. Place for arbitration shall be at Gorakhpur (U.P.), India.
37. Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. After filling the financial bid format, it should be duly signed and stamped by the authorize signatory and sealed in a separate envelop (Envelope -2 Financial Bid).
38. The estimated value of the tender is **Rs. 2,50,64,251** including all sections. This figure is purely indicative and is an approximation. The actual rates may be lesser than that.
39. The successful bidder must submit performance security (Retention Amount) in the form of Account Payee DD. The amount of performance security shall be equal to 2 % of the total quoted rate. DD should be made in favor of Centre of Excellence of Maharana Pratap Institute of Technology, Gorakhpur payable at Gorakhpur.

I hereby agree with the above conditions.

Date:

(Signature of Tenderer/Authorized Signatory with Seal)

Centre of Excellence
Maharana Pratap Institute of Technology, Gorakhpur, U.P.

Form -III

(Bidder must sign and enclose this document with Technical Bid)

SPECIAL CONDITIONS:

1. Rates quoted for different items in your quotation should be valid for 90 days from the date of opening of the tender. Rates shall remain firm during the execution of the tender.
2. Prices are required to be quoted as per items mentioned in the Financial Bid.
3. The tenders should quote on the basis of 'FOR' destination/delivery at site.
4. All available technical literature, catalogues and other data sheets in support of the specifications and details of the items should be furnished along with the offer.
5. Goods/Materials offered should strictly confirm our specifications. Deviation if any should be clearly indicated by the tenderers in their quotation. The tenderer should also indicate the Make/Mode number of the items offered and provide catalogues of technical literature and samples, wherever necessary along with the quotations.
6. The purchaser shall be under no obligation to accept the lowest or any tender and reserves the right to accept the whole or any part of the tender or portion of the quantity offered, and tenderers shall supply the same at the rates quoted.
7. Corrections if any must be attested. All amounts shall be indicated both in words as well as in figures, where there is difference between the amount quoted in words and figures quoted in words shall prevail.
8. The tenderer should supply along with his tender the name of his bankers as well as the latest Income Tax Clearance Certificate/ Latest Income Tax Return, failing which the tender is liable to be rejected.
9. The Financial bid of those firms will be opened whose technical bids are qualified. The date of opening of financial bids will be informed to the firms whose technical bid is qualified.
10. All the equipment supplied must have a minimum warranty of **3 year** on site from the date of installation, commissioning and acceptance by Centre of Excellence of Maharana Pratap Institute of Technology, Gorakhpur, which will cover free maintenance services, proper functioning and operation of the instruments/materials installed under this project.
11. The quantity of Items may increase / decrease as per requirement.
12. The authority of the person signing the tender if called for should be present.
13. **Financial Bid Evaluation Criteria:** The Financial bids shall be evaluated considering the total value of Supply and Installation.
14. **Supply / Delivery:** Regarding the supply of the materials, the Purchase order will be placed by TCS Foundation. TCS Foundation is the sponsor for the project under its Corporate Social Responsibility (CSR) program. The supplier should deliver goods in sealed and good condition along with the triplicate bills for the same directly to Stores of Centre of Excellence, Maharana Pratap Institute of Technology, Gorakhpur. All the material should be supplied within 8 weeks from the date of placement of the order and installation must be completed within 16 weeks from the date of placement of order by Maharana Pratap Institute of Technology, Gorakhpur.

15. Payment:

- All invoices/bills will be raised on 'TCS Foundation, 9th Floor, Nirmal Building, Nariman Point, Mumbai – 400021'.
- 50% advance payment shall be made upon issuance of purchase order, receipt of proforma invoice and against the submission of Bank Guarantee for the same amount.
- 40% payment against supply & receipt of material and after installation against submission of 100% tax invoice.
- 10% payment will be retained and released after completion of defect liability period or warranty whichever is later.
- All the payment will be made through NEFT or RTGS.
- Payment terms for any other services/deliverables and changes in payment terms mentioned above, if any, will be mutually agreed before the issuance of purchase order.

16. Other Standard Terms and Conditions which will be included at the time of issuance of purchase order.**STANDARD TERMS & CONDITIONS****1. Price Escalation:**

The price specified on the order shall remain fixed and be deemed to be free from escalation of any kind. The price is valid for quantity variation, unit price shall apply and will remain valid till completion of the work. TFND shall not accept for any reason whatsoever, price escalation for any item of work, or any other claim in respect of supply, labour and material unless otherwise agreed in writing by both parties.

2. Specifications:

The material / equipment supplied and the installation & commissioning carried out; and the workmanship/services provided must be as per agreed tender specifications and BOQ of this order. Any change in specifications shall be effected only after obtaining written approval from TCS/TFND Project Director or consultants selected by TFND.

3. Acceptance / Rejection:

- a. Acceptance of any of the goods/work/services, covered by this order shall not discharge Vendor from liability for damages or other legal remedy for any breach of any condition or Defect Liability Period contained herein or implied by law and if after accepting any of the goods/ services, any discrepancies or defects therein either in material, workmanship or otherwise become known to TFND and such defects amount to breach of any condition and Defect Liability Period herein under or implied by law the TFND shall notify the Vendor of such defects and shall (in addition to any other rights and remedies that TFND may possess by contract conditions) be entitled to reject the defective goods/work/services.
- b. In case there is any rejection of goods/work/services, a notification of the rejection will be sent to the Vendor who will arrange the removal of the rejected goods from TFND/Project premises within fifteen days. Until the time, the Vendor, collects these goods, the rejected goods may remain at TFND premises, but they shall be on account of and on the sole risk of the Vendor, TFND shall not be responsible for or accountable for these goods left in TFND premises after an elapsed of three days from the notice of rejection.

- c. In case the rejected goods/ work /services is not collected within stipulated time, TFND shall dispose of the rejected goods/ work/services at the risk of the Vendor and will have no liability whatsoever to the Vendor.

4. Assignments and Sub- contacting:

The Vendor shall not subcontract, transfer or assign any part of this order without the prior written consent of TFND.

5. Indemnification:

Vendor shall, at its sole, expenses, settle or defend and hold TFND harmless from and against any and all claims and liability, including without limitation, damages, awards, expenses, legal fees and court cost by reason of (a)loss, property damage or destruction or personal injury of any nature or is alleged to be caused, in whole or in part, by the acts or omissions of the Vendor, its employees, agents or sub-vendors, or (b)any claim against TFND, its subsidiaries, affiliates, and /or their respective customers alleging that products or services or any part or item thereof furnished under the order or any use thereof ,infringes any patent, copyright, trademark, trade secret, or other intellectual property right of a third party.

6. Confidential Information and Publicity:

The Vendor shall treat the terms, conditions and existence of the work order as confidential information. Vendor shall obtain TFND's written consent prior to any publication, presentation, public announcement concerning its relationship as a Vendor to TFND.

Any drawings, specifications, data, documents and other information provided by TFND to the Vendor in connection with the work order and all intellectual property rights therein shall remain the property of TFND.

The Vendor shall be obliged to keep all information gathered from TFND completely confidential and not to share the same with anyone or organization.

7. Liquidated Damages:

With regard to performance of the work order by the Vendor, time is of the essence. The delivery completion of the work should be performed on or before the date and at the place specified in the work order. Vendor shall immediately inform TFND of any foreseen or foreseeable delay in the delivery and secure further instructions from TFND regarding the delivery. TFND's acceptance of the Vendor's notice will not constitute TFND's waiver of any of Vendor's obligations.

In case of delays, liquidated damages will be applicable 0.5% of work order value per week of delay beyond the date of work stipulated in the work order or beyond the date of extension if granted in writing by TFND, subject to maximum 5% of the work order value.

Liquidated damages shall also become payable by the Vendor in the following circumstances:

- i. Noncompliance by the Vendor to project schedules;
- ii. Non compliances to official project requirements/ and official mail responses;
- iii. Operational/ground commitments as committed by owner are breached.
- iv. Delays caused without any logical/satisfactory reasons to TFND's site management.
- v. All major intermediate milestones, as determined by project manager, will also be assessed and liquidated damages shall be applied for the delay in completion of those milestones, on the percentage rates and delayed periods as mentioned above and, in that case, the date of completion shall be referred to as date of completion of that particular milestone. However, if the Vendor manages to capture part of or complete lost time, a proportionate reduction in already applied liquidated damages may be considered.

8. Force Majeure:

Except for payment obligations, neither party will be liable to the other for any failure to meet its obligations due to any cause beyond the non performing party's reasonable control. If any inability to perform continues for longer than 90 days, either party may terminate this order by providing written notice to the other party and TFND will pay the Vendor for products delivered and services satisfactorily performed prior to termination. Force majeure events may include but are not limited to: (1) Government embargoes, (2) blockades, (3) seizure or freeze of assets, (4) delays or refusals to grant an export license or the suspension or revocation thereof, (5) any other acts of any government that would limit the ability for contract performance, (6) fires, earthquakes, floods, severe weather conditions, (7) any other acts of god, (8) quarantines or regional medical crises, (9) labour strikes or lockouts, (10) riots, strife, insurrection, civil disobedience, armed conflict, terrorism or war, declared or not (or impending threat of any of the foregoing, if such threat might reasonably be expected to cause injury to people or property), (11) inability or refusal by TFND directed third party suppliers to provide the Vendor parts, services, manuals, or other information necessary to the goods or services to be provided by the Vendor under this order.

9. Termination:

- a. TFND may forthwith without notice and without further obligation save as it is herein expressly provided, terminate this work order in the event of the Vendor becoming bankrupt or having a receiver appointed for Vendor assets or any proceedings being commenced for the dissolution, liquidation or bankruptcy of the Vendor being incapacitated for any reason from performance of the work order.
- b. TFND may also terminate the work order in the event of the Vendor fails to commence or complete the work order on time or for work not done to the satisfaction of TFND, after giving fifteen (15) days written note to the Vendor. The Vendor shall reimburse the amount paid to them for the work not completed.
- c. In the event of termination of the work order, TFND shall make payment of the price payable for the items delivered and the services completed by the contactor and accepted by TFND. The Vendor shall not be entitled to any further compensation for any termination of work order.

10. Settlement of Disputes/ Arbitration:

Any disputes or differences arising between the parties hereto as to the effect,

interpretation or application of this order or as to their rights, duties or liabilities thereunder, or as to any act, matter or thing arising out of, or consequent to, or in connection with the transaction herein shall be referred to any finally resolved by arbitration by three arbitrators, one to be appointed by each party and the third to be appointed in accordance with the provision of the arbitration and conciliation act, 1996. The arbitration proceedings shall be in accordance with the provisions of the arbitration and conciliation act, 1996, or any subsequent enactment or amendment thereof. Such arbitration proceedings shall be held in Mumbai, India and shall be conducted in English language.

Any injunctive action or claim arising out of the transactions arising here from shall be subject to the jurisdiction of the courts at Mumbai.

11. Compliance with Laws and Security Policies:

- a. Vendor represents and warrants that it will comply with all applicable local and national laws and regulations pertaining to its performance of its obligations under this work order.
- b. Vendor shall be responsible in respect of persons engaged, for the compliance of all statutory provisions including but not limited to under the contract law/ act, ESIC, PF, etc. The Vendor shall be fully responsible and liable, in respect of persons engaged in the performance of its services and execution of the works, to comply with all applicable rules, regulations or laws including all applicable labour laws. The Vendor shall indemnify TFND and at all times hold TFND fully indemnified and harmless from and against all claims, actions, proceedings or demands whatsoever that may be made or instituted against TFND or its directors, officers or employees resulting from the failure of the Vendor, and/or their sub -Vendors in complying with the applicable rules, regulations or laws and the indemnification herein shall cover all costs, expenses, losses or damages that may be incurred or suffered by TFND.
- c. Vendor will comply with TFND security, HSE, and workplace policies, rules and procedures at TFND's site.

12. Safety Code:

- a. All the safety codes and the preventive measures for the work shall be strictly followed. All the personnel and staff shall be under the Vendor, authority and it shall be the responsibility of the Vendor, for all insurance, accident claims etc., at the site. The Vendor shall strictly abide by the labour laws in force from time to time and comply with the same and will co-ordinate directly with the concerned authorities.
- b. The Vendor shall at all times hold TFND and its representatives harmless and effectively indemnified against any claims that may rise out of such non - compliance of applicable law by the Vendor, and their sub-Vendors including without limitation, any claim relating to death or injury to any person, and such indemnification shall extend to the reasonable attorney's fees that may be spent by TFND its representative to defend such a claim. This clause shall survive the termination of this order.

13. Site office and Storage Yard:

Vendor will be solely responsible for protection and security of the materials starting from material receipt and unloading at the site, storage at the site, transportation, handling, installation, commissioning and handing over the works of TFND. The Vendor shall set up suitable stores for itself at its own cost and shall be responsible for the safe custody of

its goods, equipment, materials in premises till the entire tenure of the project.

14. Co- ordination of Work:

The Vendor shall co-ordinate with other Vendors selected and appointed by TFND for other works of the project during the course of executing the contract.

15. Insurance:

All insurance policies related to transit insurance, workmen compensation, CAR policy, third party liability etc., under separate policies for relevant amount shall be taken by the Vendor. These policies must remain in force at all times during the execution of the work. These policies should be in the joint name of TFND and the Vendor as applicable. During the contract period, CAR policy should be 110% of the contract value at any point of time.

Any insurance required under law-Vendor shall at its own cost carry and maintain any and all other insurance which may be required under any law or regulation from time to time. Availing, insurance policies shall not be construed as relieving the obligation described under indemnity clause except to the extent of utilization of the proceeds of the claim for the intended purpose.

16. Site Clearing:

On completion of the work, the site of works and installation shall be cleared of all plants, equipment, debris, etc. of any kind pertain to Vendor's scope of work. If it is noticed that the Vendor does not clean/maintain the place of work appropriately, then TFND reserves the right to get the area cleaned and unilaterally debit the cost of cleaning to the Vendor, or deduct the same from any amounts due to the Vendor as deemed fit.

17. Continuity of Services:

The Vendor must have in place at all times a detailed contingency and business continuity plan that covers situations where the services cannot be provided by the Vendor including due to force majeure events, malfunction or unavailability of the Vendor's personnel and resources and any other causes. The Vendor must ensure that the contingency and business continuity plan and each update to, and revised version of the contingency and business continuity plan is approved by TFND. In the event that the Vendor is unable to provide any services for any reason including a force majeure event, malfunction or unavailability of the Vendor resources or any other cause, the Vendor must immediately notify TFND and comply with the current approved contingency and business continuity plan to ensure continuity of the services. The Vendor confirms that its contingency and business continuity plan will be such that notwithstanding non availability of its resources for any reason whatsoever, the Vendor is able to continue to provide the services in accordance with the agreed service levels and otherwise perform all its obligations under this order without interruption.

18. Right to Audit:

Vendor shall provide access to TFND, its internal and external auditors, inspector's regulators and other representatives that TFND may designate from time to time, at reasonable hours to Vendor personnel and to Vendor records and other pertinent

information, all to the extent relevant to the performance of Vendor's financial obligations under this work order. Such access shall be provided for the purpose of performing audits and inspections to (i) verify the accuracy and completeness of Vendor's invoice; (ii) verify the accuracy and completeness and pass-through expenses; (iii) examine the financial controls, process and procedures utilized by Vendor in connection with the obligations under the agreement (iv) enable TFND to meet applicable legal, regulatory and contractual requirements. Vendor shall provide any assistance reasonable during the term and up to 10 (ten) years thereafter. Vendor shall not be required to provide any of its internal or external auditors to participate in such audit unless specifically requested by TFND in writing, in which case TFND shall be responsible for any incremental cost for such auditor's participation.

19. Ownership / Proprietary Rights:

Vendor agrees and acknowledges that any customized Goods or Services specifically and exclusively developed for TFND hereunder shall be the sole and exclusive property of TFND upon receipt of payment of full Price/Service fee by the Vendor. Upon TFND's written request, Vendor shall execute and deliver to TFND all instruments and other documents and shall take such other reasonable actions as may be necessary or reasonably requested by TFND, so that TFND may protect and defend its rights in and to such Supply(ies) and Associated Proprietary / Intellectual Property Rights.

All the Intellectual Property Rights and Ownership of all tools, processes, software, utilities and methodology including any of the Vendor proprietary products or components thereof used in the any customized Goods or Services including related services or all modifications, enhancements or customization made thereto, other than any customized Goods or Services including related services developed specifically and exclusively for the TFND, even if form part of or incorporated into the any customized Goods or Services referred above shall remain the sole and absolute property of the Vendor, with full ownership rights therein ("Vendor Property"). The Vendor shall grant in favor of the TFND a non-exclusive, royalty free, worldwide user license to use the Vendor Property to the extent they form part of the any customized Goods or Services and will be required for the proper functioning of the any customized Goods or Services, provided that the rights of the TFND to use such the Vendor Property does not include the rights to (a) sell, lease, exchange, mortgage, pledge, license, sub-license, assign or in any other way convey, transfer or alienate the Vendor Property in favor of any person (either for commercial consideration or not (including by way of transmission)) and/or (b) reverse compile or in any other way arrive at or attempt to arrive at the source code of the Vendor Property.

20. Limitation of Liability:

Neither Party shall be liable to the other Party for any indirect, incidental, contingent, consequential, punitive, exemplary, special, or similar damages, including but not limited to, loss of profits or loss of data, whether incurred because of negligence or otherwise, irrespective of whether either Party has been advised of the possibility of the incurrence by the other Party of any such damages.

TFND's liability arising out of or in connection with this Work Order, whether based in contract, tort (including negligence and strict liability) or otherwise, shall not exceed the amount of fees paid by TFND to Vendor during the tenure of the Work Order.

Nothing in this order shall operate so as to exclude or in any way limit Vendor's liability whether based in contract, tort (including negligence and strict liability) or otherwise for (a) material breach of its obligations under this order (b) fraud, misrepresentations (c) negligence or misconduct of Vendor or its Personnel (d) for death or personal injury caused by the Vendor's negligence during transportation and delivery of Goods or provision of Services at the TFND Facility/TFND Customer Facility (e) violation of the TFND's intellectual property rights, or breach of confidentiality obligations (f) security breaches committed by Vendor or its Personnel using embedded tools in the Goods/Services connected to and interoperating with TFND's IT systems and (g) any other liability that may not be excluded or limited in law.

21. Non solicitation:

The Vendor agrees that it shall not entice, solicit, or seek directly or knowingly with a view to offer employment to any of TFND's employees or representatives during the Supply Term and Service Term of the Work Order and for a period of one (1) year after the expiry, cancellation, or termination of this order.

22. Waiver:

No forbearance, indulgence, relaxation by any party at any time to require performance of any provision of this Work Order shall in any way affect, diminish or prejudice the right of such party to require performance of that provision and any waiver by any party or breach of any provisions of this Work Order shall not be construed as a waiver or an amendment of the provisions itself, or a waiver of any right under or arising out of this Work Order.

23. Illegal Gratification:

The Vendor hereby represents that it has not and shall not itself or through any of its representatives given or give or promise to give any money or gift to any employee/official of TFND to influence their decision regarding this Work Order, nor shall it exert or utilize any unlawful influence through a promise to pay a commission, percentage, brokerage, or contingent fee to secure or solicit any extension hereof.

The Vendor acknowledges and agrees that it has not, and will not, make or promise to make corrupt payments of money or anything of value, directly or indirectly, to any government or public international organization officials, political parties, or candidates for public office, or employee of a commercial customer or supplier, for the purpose of obtaining or retaining business or securing any improper advantage.

The Vendor agrees that breach of this clause shall be adequate ground for TFND to terminate this Work Order immediately without prejudice to the Agency's liability under applicable laws. Further, breach of this clause shall also be adequate ground for TFND to withhold all payments, which may be due to the Vendor and for TFND to initiate appropriate legal actions against the Agency.

24. Independent Vendor:

In performing its obligations under this Work Order, Vendor shall be deemed to be acting as an Independent Vendor and shall not be deemed an agent, legal representative, joint venture, or partner of TFND. Neither party is authorized to bind the other to any

obligation, affirmation, or commitment with respect to any other person or entity.

25. Severability:

Any provision of this Work Order, that is determined to be invalid or unenforceable in any jurisdiction shall be ineffective to the extent of such invalidity or unenforceability in such jurisdiction, without rendering invalid or unenforceable the remaining provisions of this Work Order or affecting the validity or enforceability of such provision in any other jurisdiction.

26. Entirety:

This Work Order contains the entire understanding of the Parties relating to supply of Goods and Services and supersedes all previous correspondence, proposals, representations, agreement, or memorandum of understanding.

I hereby agree to the above conditions.

Date:.....

**(Signature of Tenderer)
Authorized Signatory with Seal**

Centre of Excellence
Maharana Pratap Institute of Technology, Gorakhpur, U.P.

Form -IV

(Bidder must sign and enclose this document with Technical Bid)

Eligibility of Bidder

1. The Bidder/OEM must have turnover not less than Rs. 4.5 Crore per year in each of the last 03 Financial Years i.e. 2023-24, 2024-25 and 2025-26.
2. The Bidder/OEM must have executed same or similar works in Govt./ Public Sector organizations in any of the 4 Financial Years i.e. 2022-23, 2023-24, 2024-25 and 2025-26, as per the following:
 - Three works each costing not less than the amount equal to 30% of advertised value of the tender, or
 - Two works each costing not less than the amount equal to 40% of advertised value of the tender, or
 - One work costing not less than the amount equal to 60% of advertised value of the tender.
3. The Bidder/OEM should be an experienced supplier of Drone, Drone Components or similar work having at least 5 years' experience of supply, installation, testing and commissioning of same/ similar works in Govt. Department/ PSU/ reputed Universities/ Educational Institutions
4. The Bidder/OEM should be and ISO 9001:2015 certified vendor.
5. The Bidder must be registered with the Employee Provident Fund and Employees State Insurance Scheme (ESIC) department.
6. Bidder (if not OEM) must submit valid authorization for this tender from the OEM's of the quoted equipment.
7. The Bidder should not have been blacklisted or banned by any State / Central Government Department or PSU.
8. The bidder should enclose copy of the GST registration certificate with technical bid.
9. The bidder should have prior experience of setting up similar kind of lab, documentary proof or MOU to be submitted.
10. The Bidder should have Course Curriculum Development & Training Expertise.

I hereby certify that I fulfill the above conditions, and I have enclosed documentary evidence for the same with the Technical Bid documents.

Date:.....

(Signature of Tenderer)
Authorized Signatory with Seal

Centre of Excellence
Maharana Pratap Institute of Technology, Gorakhpur, U.P.

Form -V

FINANCIAL BID FORMAT

**(MUST BE COMPLETELY FILLED UP AND SIGNED BY THE BIDDER. SHOULD BE
SEALED IN ENVELOPE -2 FINANCIAL BID)**

Tender Inviting Authority: CEO, Centre of Excellence of Maharana Pratap Institute of Technology, Gorakhpur

Name of Work: Supply, Installation, Testing and Commissioning of Space Science & Technology Lab Equipment as well as training of manpower (students and instructors) and Equipment maintenance for the specified period as given in the Schedule of Requirements

Tender Reference No.: MPIT/SSL/Tender-12/2026

SECTION A. SATELLITE LAB — 3U Satellite Bus (Engineering Models) & AIT Test Equipment				
S. No.	NAME & SPECIFICATION	Required Quantity	All-inclusive rate in figure (incl. of all taxes/charges /duties etc.)	Total amount in words
1	CMCube — OBC (Engineering Model)	02		
2.	PowerDrive — EPS (Engineering Model)	02		
3.	PowerBank — 50Wh Battery Pack (Engineering Model)	04		
4.	AeroMagControl — ADCS Driver Board (Engineering Model)	01		
5.	SunSense — Coarse Sun Sensor (×5)	05		
6.	Reaction Wheel Assembly — 4×SpaceWheel30 (EM)	01		
7.	HyperMagCoil — Magnetorquer (×4, EM)	04		
8	AirCoil — Air Torquer (×2, EM)	02		
9.	xHF UHF/VHF Communications Board + Antenna (×2, EM)	02		
10	CubeFrame — 3U CubeSat Chassis	01		
11.	FlatSat — PC-104 Development & Test Baseboard	01		
12.	Electronic & Mechanical Tools Kit	01		
13.	Soldering Station (×4)	04		
14.	Vector Network Analyser (VNA)	01		
15.	Oscilloscope — 4-Channel	01		
16.	Software-Defined Radio — Pluto SDR (×2)	02		
17.	High resolution Spectroradiometer	01		
Total Estimated Price with GST				
Minimum three years onsite warranty 10-15 Minutes videos demonstrating brief theory and procedure to perform each device. Training during the procurement phase six months.				

**SECTION B. SKILLING & CURRICULUM CENTRE — 3D Printing · IoT Lab ·
Course Content · MANHA Kits**

S. No.	Name of Equipment & Specification	Required Quantity	All-inclusive rate in figure (incl. of all taxes/charges /duties etc.)	Total amount in words
1.	3D Printer with Consumables	01		
2	Makerspace / IoT Lab Kit (×4 Sets)	04		
3	Space Technology Course Content (Levels 1–3)	01		
4	MANHA Nano-Satellite Educational Kit (×10)	10		
5	Hands on training for the foundation of space image processing and object detection	-		
Total Estimated Price with GST				
Minimum three years onsite warranty 20-30 Minutes video demonstrating brief theory and procedure to operate the equipment's Training during the procurement phase six months.				

SECTION C. INSTALLATION, COMMISSIONING, TRAINING & STUDENT PROGRAMME

S. No.	Items Description	Required Quantity	All-inclusive rate in figure (incl. of all taxes/charges /duties etc.)	Total amount in words
1	Installation & Commissioning			
2	Faculty & Staff Training Program			
3	Student Training Program — 500 Students, 6 FDP per year			
4	Lab manual and experiment guide 10+ structured experiments			
6	Lab furniture — workbenches, stools, cabinets, shelves (satellite lab)	as per requirement		
7	Computers — Student Workstations (×10) + Instructor Workstation (x1)	11		
8	Electronic workbenches (×2) for satellite lab	as per requirement		
9	Workshop consumables & tooling Wiring, connectors, assembly tools	as per requirement		
Total Estimated Price with GST				
Minimum three years onsite warranty Training during the procurement phase three months.				

I hereby certify that I have filled up the above rates keeping in view all the tender terms and conditions as well as technical requirements.

Date:.....

**(Signature of Tenderer)
Authorized Signatory with Seal**

Schedule of Requirements/ Scope of Supply

S. No.	Name & Specification
1	CMCube — OBC (Engineering Model) Raspberry Pi Compute Module 4 with RS485 / CAN / I ² C / UART interfaces for command & data handling and payload control. Two units support simultaneous student team working and redundancy demonstration.
2.	PowerDrive — EPS (Engineering Model) Electrical power system with integrated power conditioning and ten regulated output channels distributing power across all subsystem rails. Two units enable parallel bench testing and team working.
3.	Power Bank — 50Wh Battery Pack (Engineering Model) 50Wh Li-ion energy-storage pack (2S2P / 4S1P) with cell protection and balancing. Four units support two satellite buses and spare testing.
4.	AeroMagControl — ADCS Driver Board (Engineering Model) ADCS driver board providing stabilisation with on-board drivers for magnetorquers and air torquers plus ADCS sensor interfaces.
5.	SunSense — Coarse Sun Sensor (×5) Coarse sun sensor for attitude determination. Five sensors support full 3-axis sensing on a 3U bus plus spares.
6.	Reaction Wheel Assembly — 4×SpaceWheel 30 (EM) Four SpaceWheel30 wheels (30 mNm momentum each) for three-axis attitude actuation and single-wheel redundancy. Complete ADCS momentum exchange demonstration capability.
7.	HyperMagCoil — Magnetorquer (×4, EM) Magnetic torque rod for momentum dumping and coarse attitude control. Four units enable full 3-axis magnetic actuation plus redundancy.
8	AirCoil — Air Torquer (×2, EM) Air-core torque rod for fine magnetic attitude actuation in field-free environments.
9.	XHF UHF/VHF Communications Board + Antenna (×2, EM) UHF/VHF transceiver (Rx/Tx) radio with up to 9.6 kbps data rate. Two units enable full-duplex ground-to-satellite link simulation and backup comms training.
10	CubeFrame — 3U CubeSat Chassis 3U CubeSat primary structure machined with PC-104-compatible rail/stack architecture. Students assemble full satellite bus into this frame during AIT practical.
11.	FlatSat — PC-104 Development & Test Baseboard PC-104 baseboard for flat integration to validate subsystems electrically and functionally before stacking into the chassis. Essential AIT tool.
12	Electronic & mechanical Tools Kit Precision hand tools, crimping tools, wire strippers, PCB handling tools, ESD-safe toolkit — for satellite AIT activities.
13	Soldering Station (×4) Temperature-controlled precision soldering stations for PCB-level satellite integration work. Four stations support concurrent student team working.
14.	Vector Network Analyser (VNA) 2-port VNA for RF characterisation of communications board, antenna return loss measurement, and S-parameter analysis.
15.	Oscilloscope — 4-Channel Digital storage oscilloscope with protocol decode (I ² C, SPI, UART, CAN) for signal analysis across OBC, EPS, and COMM sub-system boards.
16.	Software-Defined Radio — Pluto SDR (×2) Pluto SDR units for RF signal-chain simulation, satellite ground-station pass exercises, and GNURadio-based comms link demonstrations.

17.	High resolution Spectroradiometer–Core Remote Sensing Laboratory Instrument It should be able to measure material-specific spectral signatures (350–2500 nm, Spectral Range 1-3nm) by capturing sunlight–surface interactions across wavelengths. These spectral fingerprints underpin satellite sensor design, image classification, object detection, and quantitative analysis. It should be a foundational instrument for teaching, research, algorithm development, and hands-on understanding of how remote sensing transforms spectral measurements into actionable Earth observation insights.
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NOTE: Although the approximate sizes, shapes, weights, and other related physical quantities are specifically mentioned for each product and its parts, and are desirable, a variation up to 10% may be granted, provided that the screening/purchase committee approves the same based on the quality and purpose and/or the committee finds better than the mentioned ones.

B. SKILLING & CURRICULUM CENTRE — 3D Printing · IoT Lab · Course Content · MANHA Kits	
S. No.	Name of Equipment & Specification
1.	3D Printer with Consumables Professional FDM 3D printer (build volume 300×300×350mm), multi-material capable for rocket fin fabrication, satellite structural prototyping, custom component housings, and student design projects. Includes 10 kg filament stock (PLA/ABS/PETG) and annual maintenance kit.
2.	Makerspace / IoT Lab Kit (×4 Sets) Each set includes: Raspberry Pi 5 (8 GB), STM32 Nucleo development board, Arduino Mega 2560, JTAG/SWD firmware debugger, environmental sensors (9-axis IMU, temperature, humidity, barometric pressure, GPS, LoRa communications module) — full embedded systems development environment for satellite firmware training.
3.	Space Technology Course Content (Levels 1–3) Professional development of structured 3-level space technology curriculum — Level 1: Foundational Space Science & Awareness for 10th to 12 th Std. (40 hrs); Level 2: Applied Space Technology for Diploma/ITI (120 hrs.); Level 3: Nano-Satellite Engineering for B.Tech./ M.Tech. (200 hrs). English + Hindi. Includes digital content, student workbooks, instructor guides, assessment tools, and NSQF alignment documentation.
4.	MANHA Nano-Satellite Educational Kit (×10) 1U educational nano-satellite kit: representative OBC, EPS, battery pack, communications board, sensors, camera module, and 1U aluminum structure — supports the complete assemble–test–operate workflow. Ten kits enable 10 concurrent student teams. ISRO-aligned educational standard.
5.	This is geared towards understanding the foundations of space image processing and object detection etc., which will feed into the other capabilities available at the COE of MPIT such as Compute

NOTE: Although the approximate sizes, shapes, weights, and other related physical quantities are specifically mentioned for each product and its parts, and are desirable, a variation up to 10% may be granted, provided that the screening/purchase committee approves the same based on the quality and purpose and/or the committee finds better than the mentioned ones.

C. INSTALLATION, COMMISSIONING, TRAINING & STUDENT PROGRAMME	
S. No.	Name of Equipment & Specification
1.	Installation & Commissioning Complete installation, integration testing, zone-by-zone commissioning, cable management, equipment labelling, and safety documentation for all vendor-supplied items across both the Satellite Lab and Skilling Centre.
2.	Faculty & Staff Training Program 5-day intensive hands-on training programme for 5 faculty members + 2 support staff covering: satellite sub-system AIT procedures, avionics test equipment operation (VNA, oscilloscope, SDR), MANHA kit assembly and curriculum delivery, 3D printer operation, IoT kit programming, and open-source software stack (GMAT, GNURadio, Python/Skyfield, QGIS).
3.	Student Training Program — 700 Students Inaugural hands-on student training: 2 batches of 50 students each, 5-day program per batch. Covers satellite sub-system identification and handling, MANHA kit assembly, embedded systems basics (IoT lab), orbital mechanics simulation (GMAT), RF signal demonstration (SDR), and space technology career orientation. Delivered by vendor's space technology trainers. Minimum training of students for different levels as: Level 1: 500 students, Level 2: 120 students, Level 3: 80 students
	Lab manual and experiment guide 10+ structured experiments
4	Lab furniture — workbenches, stools, cabinets, shelves (satellite lab) 2×6'×4' workbenches, 8 stools, 2 storage cabinets, 2 storage shelves
5	Computers — Student Workstations (×10) + Instructor Workstation (×1) Student workstations running open-source stack: Ubuntu, GMAT, GNU Radio, Python, QGIS, VS Code, Free CAD + Instructor PC
6	Electronic workbenches (×2) for satellite lab ESD-safe workbench with power strip for satellite AIT zone
7	Workshop consumables & Tools Wiring, connectors, assembly tools

1. Technical Specifications for High-Performance Desktop Computer (Workstations) (For AI, Remote Sensing, GIS, Satellite Image Processing, Drone Data Analysis, and Space Science Applications)	
Component	Preferred Specification
Processor	Intel Core i9 (13th/14th Generation) or AMD Ryzen 9 7900X/9900X or higher
Graphics Card (GPU)	NVIDIA GeForce RTX 4060 (8 GB GDDR6) or higher (RTX 4070 or equivalent preferred for AI workloads)
Memory (RAM)	128 GB DDR5 (Expandable up to 192 GB or higher)
Primary Storage	2 TB NVMe PCIe Gen4 SSD
Secondary Storage	4 TB SATA HDD (7200 RPM)
Motherboard	High-performance motherboard supporting DDR5, PCIe Gen5, multiple M.2 NVMe slots, TPM 2.0, and future expandability
Power Supply	750 W, 80+ Gold Certified
Cabinet	Premium Mid-Tower ATX Cabinet with optimized airflow and cable management
Cooling System	High-performance Liquid Cooling (AIO) or premium air cooling solution
Operating System	Microsoft Windows 11 Pro (64-bit), Genuine Licensed

Monitor	27-inch IPS Display, QHD (2560 × 1440), Anti-glare, ≥99% sRGB Color Accuracy
Keyboard & Mouse	USB Wired Full-size Keyboard and Optical Mouse
Networking	Integrated Gigabit Ethernet, Wi-Fi 6/6E, Bluetooth 5.2 or higher
Ports	USB Type-C, USB 3.2 Gen2, HDMI, DisplayPort, RJ-45 Gigabit LAN, Audio In/Out
Audio	Integrated High-Definition Audio
Accessories	All required power cables, display cable, and standard installation accessories

2. Technical Specification for 10KVA Online UPS

	Model	10KVA (3P X 1 / 1 X 1)	
	Rating	10KVA (3in-1out, 1in -1 out)	
System parameter	Technology	IGBT based Double conversion PWM based online UPS	
	Installation mode	Rack/Tower	
	Volatge Range	220/230/240VAC 1-Phase, 2Wire 380/400/415VAC 3-Phase, 4Wire	
	Rated Frequency	50Hz/60Hz	
	Frequency Range	40Hz ~ 70Hz	
	Power factor	0.95 for Three Phase	
OUTPUT	Rated power	10KVA/10kw	
	Voltage	220/230/240 (1-phase)	
	Frequency synchronization range	Rated frequency±3Hz. Configurable range: ±0.5Hz ~ ±5Hz	
	Rated Power Factor	Unity	
	Crest Factor	3:1'	
	Voltage harmonic distortion	< 2% (linear load)	
	Voltage Regulation	0.01	
	Dynamic response recovery time	60ms	
	Inverter Overload Capability on utility mode	At 25°C: 105% ~ 125%- 5min; 125% ~ 150%-1min; 150%- more than 200ms	
	Programmable Outlet	Available	
	Inverter Overload Capability on battery mode	At 25°C :105% ~125%-60~ 30 s; >125%- more than 200ms	
	Bypass	Seprate bypass	Yes
		Static bypass	Inbuilt
	Efficiency	ECO Mode	0.99
		Online mode (AC-AC)	up to 95.8%
		Inverter Efficiency (DC-AC)	>92%
BATTERY	Type	Sealed Maintenance-Free battery	
	No's of Batteries	20	
	Battery charging capacity	8A	
	VAH	Min. 10000 VAH	
Transfer Time	Mains - Battery	0ms	
	Inverter-Bypass	Synchronous transfer: ≤0ms	
		Asynchronous transfer (default): ≤20ms	
Noise	at 1 m(dBA)	55	
Panel display mode	Display type	Graphical LCD display	
	No of events stored	Max 256	

	Orientation	Gravity sense	
Environmental parameter	Operating temperature	0°C ~ 50°C	
	Storage temperature	-40°C ~ +70°C (battery excluded); -25°C ~ +55°C (battery included)	
	Relative humidity	5%RH ~ 95%RH, non-condensing	
	Altitude	≤3000m; derating when higher than 3000m	
Mechanical parameter	W*D*H (mm)	430x560x85	
	Weight (Kg)	15	
	Ventilation	Forced -air cooled	
	Ingress protection level	IP20	
	Color	Powder coated Black Texture finish	
	Cable entry	Rear	
Network Management	Smart RS232/USB	Supports Windows 2000/2003/XP/Vista/2008, Windows 7, Linux, unix and MAC	
	SNMP Card	Inbuilt for web monitoring	All these features will work simultaneously
	MODBUS	Inbuilt for BMS connectivity	
	Remote alarm	Inbuilt	
	Optional SNMP	Power management from SNMP manager and web browser	
	Management software	Site monitor	
	Modbus	Inbuilt via multifunction port	
Certifications	Safety (CE)	IEC/EN62040-1-1	
	Electromagnetic Compatibility(EMC)	IEC/EN62040-2, IEC/EN61000-3-11, IEC/EN61000-3-12, YD/T1095-2008	
	Surge Protection	IEC/EN62040-2, meeting IEC/EN61000-4-5	
	Energy star	As per UL approved	
	ROHS	Yes	
	Govt approved NABL lab test report	Available	
	Top 5 company in terms of revenue	Yes	
	Quality standard	IS 9001-2015	
	Environment standard	ISO 14001	
	OSHAS	ISO 45001	
	IT security management	ISO 27001	
Test report	NABL Approved Government lab test report	YES	
Warranty	2 years on UPS and batteries	1 year onsite warranty on UPS and 2 years on batteries	

The bidders are requested to look into above requirements carefully & quote the suitable products accordingly.