अंतर–विश्वविद्यालय केंद्र : खगोलविज्ञान और खगोलभौतिकी IUCAA
Inter-University Centre for Astronomy and Astrophysics
An Autonomous Institution of the University Grants Commission

Tender for

"Supply, Installation, Testing & Commissioning (SITC) Energy Storage system for Existing Uninterrupted Power System at Aditi, IUCAA, Pune"

Technical Bid

Inter – University Centre for Astronomy and Astrophysics (IUCAA)
Pune

Post Bag - 4, Ganeshkhind, Savitribai Phule Pune University Campus, Pune - 411 007.
Tel. (020) 25604100 Fax: (020) 2560469

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Contact Details of the Bidder for

"Supply, Installation, Testing & Commissioning (SITC) Energy Storage system for Existing Uninterrupted Power System at Aditi, IUCAA, Pune"

Name of Vendor / Firm / Company _____

Postal Address _____

Telephone Off. _____

Telex / Fax _____

Email ID _____

Signature & Seal of the Bidder

Name of the signatory:

Designation:

Date: Place:

Copy of Tender Advertisement

(Tenders Published on Web Portals)

The Estate Manager, IUCAA, on behalf of the Director, Inter-University Centre for Astronomy & Astrophysics, Savitribai Phule Pune University Campus, Ganeshkhind, Pune – 411007, invites technical & financial bids from reputed vendors/bidders for "Supply, Installation, Testing & Commissioning (SITC) Energy Storage system for Existing Uninterrupted Power System at Aditi, IUCAA, Pune"

Interested parties may view and download the tender document from the Government Central Procurement Portal http://eprocure.gov.in/eprocure/app
It is also available on IUCAA's website at https://www.iucaa.in/tenders

IUCAA reserves the right to reject any or all of the tenders without assigning any reason.

Estate Manager, IUCAA

IMPORTANT MILESTONES AND CONTACT INFORMATION

1.	Date of commencement	8th (Eighth) day from the date of receipt of the Letter of Intent or Work Order by the contractor.
2.	Date of completion	60 (Sixty) days from the 8th day of receipt of work order (including holidays).
3.	Defects liability Period	36 (Thirty-six) calendar months from the date of Completion.
4.	The Interim Certificate / Running Bill Value	Minimum assessed bill value should not be less than ₹ 10/- Lakhs.
5.	Period of Honoring Certificate	Thirty days
6.	Tender Fee	Tender fee of Rs. 1,000/- (Rs. One Thousand + GST) plus applicable GST must be paid at the time of tender submission
7.	Earnest money Deposit (EMD)	Rs. 1,11,000/- (Rs. One Lakh, eleven Thousand only) in the form of online payment. Refund: EMD of unsuccessful bidders during first stage (technical evaluation) shall be returned within 30 days of declaration of result of the first stage, i.e. technical evaluation. Bids of the unsuccessful bidders shall be returned to them earliest after expiry of the final bid validity and latest on or before the 30th day after the award of the Contract / Work Order.
8.	Security Deposit (SD)	The Initial Security Deposit (SD) will be 5% of the work order value. At the time of final billing, a revised 5% SD of the final W.O. value will be deducted. The Earnest Money Deposit (EMD) submitted by the bidder shall be adjusted towards the Security Deposit (SD). The balance amount of the Security Deposit, if any, shall be recovered from the first two Running Account (RA) Bill. The Security Deposit shall be released to the vendor in accordance with the provisions stipulated under Point No. 34 of Section-II of this Technical Bid.
9.	Performance Security (PS) / Performance Guarantee (PG)	The Performance Security/Performance Guarantee (PS/PG) shall be 5% of the accepted tender value. In case of delay, a penalty of ₹1,000/- per day will be applicable. It must be submitted within 21 days from the date of award of contract/Letter of Intent/Work Order. The PG will be released after completion of all contractual obligations including Defect Liability Period + 60 days. The PS can also be submitted in the form of Performance Bank Guarantee (PBG) drawn on a Nationalised Bank.
10.	Contact information of IUCAA representative for visit to site, technical information / clarification, etc.	Mr. Nitin Ohol Estate Manager, IUCAA Tel. 020-25604334, Email: nitin_ohol@iucaa.in, tenders.estate@iucaa.in,

SECTION – I

Tender Information

Inter-University Centre for Astronomy and Astrophysics (IUCAA), Post Bag 4, Ganeshkhind, Savitribai Phule Pune University Campus, Pune 411 007, invites tenders in two-bid system, i.e., "Technical Bid" and "Financial Bid" from reputed vendors for "Supply, Installation, Testing & Commissioning (SITC) Energy Storage system for Existing Uninterrupted Power System at Aditi, IUCAA, Pune".

Tender available on CPPP	: 19/10/2026 at 1800 hrs.
Submission of questionnaire for Pre-Bid Meeting	: 24/10/2026 at 1800 hrs
Pre-Bid Meeting	: 04/11/2026 at 1100 hrs.
Closing date & time for receipt of tender	: 11/11/2026 at 1100 hrs.
Tender opening date & time	: 12/11/2026 at 1100 hrs.
Place of tender opening	: IUCAA's office
Earnest Money Deposit (EMD)	: Rs. 1,11,000/- (Rs. One Lakh, eleven Thousand only)

1) Bidders shall ensure that their tenders, complete in all respects, are uploaded at https://eprocure.gov.in/eprocure/app on or before the closing date and time indicated as above.
2) EMD should be paid through **NEFT/RTGS** only. A photocopy of transaction ID or UTR no. should be uploaded along with the technical bid.
3) **Tender fee of Rs. 1,000/- (Rs. One Thousand) plus applicable GST must be paid** through **NEFT/RTGS only at the time of bidding.** A photocopy of transaction ID or UTR no. should be uploaded along with the technical bid.
4) The Minimum turnover of the bidder shall not be less than Rs. **70 Lakhs** (Indian Rupees Seventy Lakhs only) per annum for Three financial years out of last 5 years ending 31st March of previous year, i.e. 2021-2022,2022-2023,2023-2024,2024-2025;2025-2026.
5) In the event of any of the above-mentioned dates being declared as a holiday / closed day for IUCAA, the tenders received will be opened on the next working day at the appointed time.
6) The Estate Manager, IUCAA, Pune - 411007 on behalf of IUCAA reserves the right to postpone the date of opening of tender without assigning any reason thereof.
7) Technical Bid consists of all documents mentioned in the Technical Bid form along with EMD. Financial Bid consists of the prices and for all Commercial Terms and Conditions. A tender in which any of the prescribed condition(s) is not fulfilled or any condition including that of conditional rebate are put forth by any bidder then their bid shall be summarily rejected. However, tenders with unconditional rebate will be considered.
8) IUCAA reserves the right to reject any or all of the tenders without assigning any reason thereof.

Estate Manager
Inter-University Centre for Astronomy and Astrophysics,
Post Bag 4, Ganeshkhind, Pune 411007
Tel. (020) 25604100
Email- tenders.estate@iucaa.in

Technical Bid Form

(To be filled by Bidder)

1.	**Bidder's Name (firm/company Name) and Address**	
2.	**Company Registration / Shop Act License No. and Validity**	
3.	Nature of Business & Establishment Year	
4.	**Telephone Nos.** *Mobil Nos.* *E-mail*	
5.	**Contact Person** *Name Designation* *Mobile* *E-mail*	
6.	EMD Paid (Proof to be Attached)	
7.	Details of the Brand of SMF VRLA Battery quoted for this tender (OEM/ /valid OEM's authorized dealer/Channel Partner)	
8.	**PAN Details** PAN no. (Photocopy to be attached)	
9.	**PF/ESI/GST/Professional Tax details** Reg. no. PF (copy to be attached) Reg. no. ESI (copy to be attached) Reg no. GST (copy to be attached) Reg no. Profession Tax (copy to be attached)	
10.	**Organizational Capability (staff strength)** *No. of Engineers* *No. of Supervisors* --- *No of Technicians…* Quality Engineers …	
11.	**Financial capacity over past 3 years (Income tax return, Certified balance sheet of the firm along with CA's certificate for the respective year's turnover)**	
12.	Last Five years continuous experience of the firm in the field of providing similar services (UPS/ SMF VRLA Battery Storage system for Existing Uninterrupted Power System) in Central Govt. establishment/Autonomous bodies of GOI/Corporation of GOI/Reputed Public or Private Organizations (Provide details in enclosed tabular form)	
13.	Provide following details of Similar type (refer tender requirements) of projects completed within the last 5 years of similar nature only: 1) Minimum three Institutional/Similar type of UPS/SMF-Battery related works costing more than Rs 14 Lakh OR 2) Minimum two Institutional/Similar type of UPS/SMF-Battery related works costing more than Rs. 18 Lakh OR 3) Minimum one Institutional/Similar type of UPS/SMF-Battery related works costing more than Rs. 29 Lakh Client's work completion Certificate to be attached	

	a) Name & address of the project Type of Work Start date Completion date Final Bill Value Scope of work *Client contact details (Name, tele, fax, e-mail).*	
	b) Name & address of the project Type of Work Start date Completion date Final Bill Value Scope of work *Client contact details (Name tele, fax, e-mail).*	
	c) Name & address of the project Type of Work Start date Completion date Final Bill Value Scope of work *Client contact details (Name tele, fax, e-mail).*	
14.	List of Clients for whom the bidder has executed works of similar nature	
15.	List along with details of any arbitration cases / legal disputes on Current / previous projects – (Mention name of project, reason for dispute, party filing the suit and its current status)	
16.	**Is the company ISO Certified?**	
17.	List any awards, recognitions on previously executed projects	
18.	**Address of service office**	
19.	Prepared and submitted by (Name & Signature)	

Notes –

1. The vendor/bidder has to fill/complete the technical bid form and Compliance sheets mentioned in clause no.21 in all respects. Every statement made in the technical bid format should be supported by documentary proof for consideration and all pages of the tender should be verified and signed by the authorized person in this behalf. Otherwise the tender is liable to be rejected.
2. Please support **Completed Work (Form No. I)** and **Work in hand (Form No. II)** information with copy of the Work order/Contract from the client, **Non-compliance will lead to the rejection of the tender.**
3. The Inter-University Centre for Astronomy & Astrophysics, Pune reserves the right to accept or reject any or all applications without assigning any reason

Date: **Yours faithfully,**

Place: **(Signature of the Authorized person)**
Name: Designation:
Seal:

SECTION - II
COMMERCIAL TERMS

1. Introduction

1.1 IUCAA has issued these tender enquiry documents for "Supply, Installation, Testing & Commissioning (SITC) Energy Storage system for Existing Uninterrupted Power System at Aditi, IUCAA, Pune".

1.2 This section provides the relevant information as well as instructions to assist the prospective bidders in preparation and submission of tenders. It also includes the mode and procedure to be adopted by IUCAA for receipt and opening as well as scrutiny and evaluation of tenders and subsequent placement of contract.

1.3 Before formulating the tender and submitting the same to IUCAA, the bidder should read and examine all the terms, conditions, instructions etc. contained in the tender documents. Failure to provide and/or comply with the required information, instructions etc. incorporated in these tender documents may result in rejection of their tender.

2. Language of Tender: The tender submitted by the bidder and all subsequent correspondence and documents relating to the tender exchanged between the bidder and IUCAA shall be written in the English language, unless otherwise specified in the tender enquiry. However, the language of any printed literature furnished by the bidder in connection with its tender may be written in any other language provided the same is accompanied by an English translation and, for purposes of interpretation of the tender, the English translation shall prevail.

3. Eligibility Criteria for Bidders: The vendors should meet the following criteria to qualify in the tendering process. (Sufficient proof with authorized work order & completion certificate to be submitted)

3.1 The vendor should have completed minimum THREE similar type Projects costing **more than Rs. 14 Lakh (Indian Rupees Fourteen Lakh only) in the last 5 financial years.**

OR

3.2 The vendor should have completed minimum TWO similar type of Projects costing **more than Rs. 18 Lakh (Indian Rupees Eighteen Lakh only) in the last 5 financial years.**

OR

3.3 The vendor should have completed minimum ONE similar Project costing **more than Rs.29 Lakh (Indian Rupees Twenty-nine Lakh only) in the last 5 financial years.**

3.4 The bidder shall be the Original Equipment Manufacturer (OEM) or an authorized dealer, representative, or channel partner of the Battery OEM for a minimum continuous period of three years. Documentary evidence establishing the bidder's status as the OEM or as an authorized dealer, representative, or channel partner shall be submitted along with the bid. The authorization certificate shall be issued by the OEM and shall be valid as on the date of bid submission.

3.5 Experience: Bidder must have at least 5 years of experience in execution of similar type of works.

3.6 The Minimum turnover of the bidder shall not be less than Rs.70 Lakhs (Indian Rupees Seventy lakhs only) per annum for minimum Three years out of last Five financial years.

3.7 The bidder must have valid PAN, PF, GST & Professional tax registration certificates.

3.8 Bidder must submit filled in, signed & stamped compliance letters Annexure-II, III & Annexure-IV on company letter head.

3.9 The Bidder shall submit a declaration on its letterhead confirming that the work shall be carried out in the presence of the ABB UPS technical team.

The bids of those bidders who do not fulfil any of the above-mentioned criterion shall be summarily rejected.

Non-submission of any of the requisite documents, will lead to disqualification from Tender process. Further to this, clarifications on the submitted documents may be sought from buyer.

Submission of fresh (new) documents during the representation period against technical disqualification, requesting re-evaluation may not be entertained. Therefore, it is advised to all bidders to read complete document carefully and submit all requisite documents.

4. **Tendering Expenses:**

4.1 The bidder shall bear all the costs and expenditure incurred and/or to be incurred by it in connection with its tender including preparation, mailing and submission of its tender and for subsequent processing of the same. IUCAA will, in no case be responsible or liable for any such costs, expenditure etc. regardless of the conduct or outcome of the tendering process.

Tender fee of Rs. 1,000/- plus GST must be paid at the time of tender submission.

5. **Content of Tender Enquiry Documents**: The relevant details required for construction & services, the terms, conditions and procedure for tendering, tender evaluation, placement of contract, the applicable contract terms and, also, the standard formats to be used for this purpose are incorporated in the above-mentioned documents. The interested bidders are expected to examine all such details etc. to proceed further.

6. **Amendments to Tender Enquiry Documents:**

6.1 At any time prior to the deadline for submission of tenders, IUCAA may, for any reason it deems fit, modify the tender enquiry documents by issuing suitable amendment(s) to it. All such amendments shall form part of this tender document and shall be binding on all the bidders.

6.2 In order to provide reasonable time to the prospective bidders to take necessary action in preparing their tenders as per the amendments, IUCAA may, at its discretion extend the deadline for the submission of tenders and other allied time frames, which are linked with that deadline.

7. **Clarification of Tender Enquiry Documents & Pre-Bid Meeting:** A bidder requiring any clarification or elucidation on any issue of the tender enquiry documents may take up the same with IUCAA in writing by e-mail. A pre-bid technical meeting will be held at IUCAA, Pune on **04/11/2026 at 11:00 hrs.** to discuss and resolve the queries and doubts, if any from the prospective bidders. Clarifications / questionnaire sought should be sent by email to **tenders.estate@iucaa.in** latest by **11:00 hrs. on 24/10/2026.** Clarifications / discussions / minutes of the pre-bid meeting will form a part of the tender document. Pre-bid meeting will be arranged at IUCAA campus.

8. **Contacting IUCAA:**

8.1 From the time of submission of tender to the time of awarding of the contract, if a bidder needs to contact IUCAA for any reason relating to this tender enquiry and / or its tender, it should do so only in writing to **tenders.estate@iucaa.in**

8.2 In case a bidder attempts to influence IUCAA in its decision(s) during scrutiny, comparison and/or evaluation of tenders and/or awarding the contract, the tender of such a bidder shall be liable for rejection in addition to appropriate legal action(s) being taken against such a bidder at the discretion of IUCAA.

9. **Corrupt or Fraudulent Practices:** IUCAA requires that the bidders who wish to bid for against IUCAA's tender have the highest standards of ethics. IUCAA shall reject bids of those bidders who are found to be engaged in corrupt and/or fraudulent practices. This also applies to a successful bidder who has been awarded the contract and is found to be engaged in corrupt or fraudulent practices during the execution of the contract.

10. **Interpretation of the clauses in the Tender Document/Contract Document:** In case of any ambiguity in or dispute arising out of or related to (including the interpretation of any of the clauses in this tender document/purchase order/contract), decision of the Director, IUCAA or his nominee shall be final and binding on all parties.

11. **Tender currencies:** The bidder shall quote only in Indian Rupees.

12. **Tender Prices:** Bidder has to check and fill all the fields mentioned in the price bid. The quoted rates shall be inclusive of all the relevant taxes excluding GST. The GST shall be calculated automatically on the Gross Total and shown separately at the end in the BOQ sheet. The Net Total shall be the summation of the Gross Total and the GST. All the bidders should ensure that they are GST compliant and their quoted tax structure/rates are as per GST Law.

13. **Taxes:** GST shall be levied as per prevailing rates (Present rate of GST is 18%).

14. **Earnest Money Deposit (EMD):** The Earnest Money is required to protect IUCAA against the risk of the bidder's unwarranted conduct as amplified under GCC.

14.1 The amount of EMD will be Rs. **1,11,000/-** (Rs. One Lakh Eleven Thousand Only).

14.2 The EMD shall be denominated in Indian Rupees.

14.3 Scanned copy of the EMD paid receipt (as the case may be) shall be uploaded along with the Technical Bid.

14.4 The EMD shall be furnished through **NEFT/RTGS** only. IUCAA's bank details for the purpose of payment of EMD are as follows: -
Name of the Beneficiary - Inter-University Centre for Astronomy & Astrophysics Bank Account Number - 98060100000188
Nature of Bank Account - Savings Bank Account, MICR NO. - 411012053 Name of the Bank - Bank of Baroda
Address of the branch - Bank of Baroda, IUCAA Extension counter, Pune University Campus, Pune -411007. Bank Branch Code –EXTPOO, IFSC Code-BARB0EXTPOO,
Swift Code-BAR B IN BB PCB

14.5 Unsuccessful bidder's earnest money shall be returned to them without any interest after issuing the work order / LOI to the successful bidder. In case of the bidder whose offer is accepted, the EMD shall be converted into **Security Deposit**. [Please refer Section III, Clause 35, for further details on Security Deposit.]

14.6 EMD of a bidder will be forfeited, if the bidder withdraws or amends their bid or impairs or derogates from the tender in any respect within the period of validity of their tender. The successful bidder's earnest money shall be forfeited, if they fail to furnish the balance amount of Performance security within the aforementioned period.

14.7 **Security Deposit** will be released upon completion of all contractual obligations including Defect Liability Period + 60 days.

15. **Documents establishing Good's Conformity to Tender Enquiry document:**

15.1 The bidder shall provide in its tender the required as well as the relevant documents like technical data, literature, drawings etc. to establish that the goods and services offered in the tender, fully conform to the goods and services specified by the procuring entity in the tender documents. For this purpose, the bidder shall also provide a clause-by-clause commentary on the technical specifications and other technical details incorporated by the procuring entity in the tender documents to establish technical responsiveness of the goods and services offered in its tender. In case, there is any variation and/or deviation between the goods & services prescribed by the procuring entity and that offered by the bidder, the bidder shall list out the same in a chart form without ambiguity and provide the same along with its tender.

15.2 If a bidder furnishes wrong and/or misguiding data, statement(s) etc. about technical acceptability of the goods and services offered by it, its tender will be liable to be ignored and rejected in addition to other remedies available to the procuring entity in this regard.

16. **Tender (Bid) Validity:**

16.1 The Bids shall remain valid for acceptance for a period of **90 days** from the date of tender opening prescribed in the tender document. Any bid valid for a shorter period shall be treated as unresponsive and rejected summarily.

16.2 In exceptional cases, the bidders may be requested by IUCAA to extend the validity of their bids up to a specified period. Such request(s) and responses thereto shall be conveyed by e-mail followed by registered-post/courier. In all such cases the bidders will (i) have to extend the bid validity without any change or modification in their original tender and (ii) extend the validity period of the EMD accordingly. However, EMDs of those bidders who express their inability to do so shall not be forfeited and their bids shall not be considered for further process.

16.3 In case the day up to which the tenders are to remain valid falls on is subsequently declared as a holiday or closed day for IUCAA the tender validity shall automatically be extended up to the next working day (as per CPPP guidelines).

17. Preparation of Bids:

17.1 For preparation of bids, the bidders shall search the tender from published tender list available on site and download the complete tender document and shall consider corrigendum issued (if any), before submitting their bids. After selecting the tender document, the same shall be moved to the 'My favorite' folder of bidders account from where bidder can view all the details of the tender document.

17.2 Bidder shall go through the tender document carefully to understand the documents required to be submitted as part of the bid. Bidders shall note the number of covers in which the bid documents have to be submitted, the number of documents – including the names and content of each of the document that need to be submitted. Any deviations from these may lead to rejection of their bid.

17.3 Any pre-bid clarifications if required, then same may be obtained online through the tender site, or through the contact details given in the tender document.

17.4 Bidders should get ready in advance the bid documents in the required format (pdf/xls/rar/dwf/jpg formats) to be submitted as indicated in the tender document/schedule. **Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document.**

17.5 Bidders can update well in advance, the documents such as experience certificates, annual report, PAN, GST & other details etc., under "My Space / Other Important Document" option, which can be submitted as per tender requirements. This will facilitate the bid submission process faster by reducing upload time of bids.

17.6 The tender documents may be downloaded from http://eprocure.gov.in/eprocure/app till the last date of submission of tender. The Tender must be submitted online through CPP Portal http://eprocure.gov.in/eprocure/app

17.7 The bidder should submit the bid online in two parts viz. Technical Bid and Financial Bid. Technical Bid in cover-1 & Financial Bid in ".xls" format in Cover-2.

18. Instructions and Conditions for Submission of Bids:

18.1 All pages of the bid (except for un-amended printed literature) shall be initialed by the person or persons signing the bid. The bidder's name stated on the proposal shall be the exact legal name of the firm.

18.2 IUCAA may, at its discretion, extend the deadline for the submission of bids by amending the bidding documents, in which case all rights and obligations of IUCAA and Bidder previously subject to the deadline will thereafter be subject to the deadline as extended.

18.3 Any other condition or guideline for submission of the bids shall be notified by IUCAA if it finds necessary.

18.4 At any time prior to the deadline for submission of bids, IUCAA may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective bidder, notify changes in the bidding documents through an amendment.

18.5 The amendments, if any, shall be notified on the CPP portal and the amendments shall be binding on all the bidders. Hence, the bidders shall view the notification in complete before submitting their bids.

18.6 The bidder responding to announcement shall be deemed to have read and understood the documents in complete. Where counter terms and conditions have been offered by the bidder, the same shall not be deemed to have been accepted by IUCAA, unless a specific written acceptance thereof is obtained.

19. Submission of Bids:

19.1 Bidder should log into CPP Portal well in advance for bid submission so that he/ she upload the bid in time i.e., on or before the bid submission time. Bidder will be responsible for any delay.

19.2 Bidder should submit the EMD along with as per the instructions specified in the tender document. The details of the EMD should tally with the details available in the scanned copy and the data entered during bid submission time. Otherwise, the uploaded bid will be rejected.

19.3 While submitting the bids online, the bidder shall read the terms & conditions (of CPP portal) and accept the same in order to proceed further to submit their bid.

19.4 Bidder shall digitally sign and upload the required bid documents one by one as indicated in the tender document

19.5 Bidders shall note that the very act of using Digital Signature Certificate (DSC) for downloading the tender document and uploading their offers is deemed to be a confirmation that they have read all

sections and pages of the tender document without any exception and have understood the complete tender document and are clear about the requirements of the tender document.

19.6 Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document. For the file size of less than 1 MB, the transaction uploading time will be very fast.

19.7 If price quotes are required in .xls format, utmost care shall be taken for uploading Schedule of quantities & Prices and any change/ modification of the price schedule shall render it unfit for bidding.

Bidders shall download the Schedule of Quantities & Prices, in .xls format and save it without changing the name of the file. Bidder shall quote their rate in figures in the appropriate cells, thereafter save and upload the file in financial bid cover (Price bid) only.

If the template of Schedule of Quantities & Prices file is found to be modified/corrupted in the eventuality by the bidder, the bid will be rejected, including forfeiture of EMD.

The bidders are cautioned that uploading of financial bid elsewhere i.e. other than in cover 2 will result in rejection of the tender.

19.8 Bidders shall submit their bids through online e-tendering system to the Tender Inviting Authority (TIA) well before the bid submission end date & time (as per Server System Clock). **The TIA will not be held responsible for any sort of delay or the difficulties faced during the submission of bids online by the bidders at the eleventh hour**.

19.9 After the bid submission **(i.e. after Clicking "Freeze Bid Submission"** in the portal), the bidders shall **take print out of system generated acknowledgement** number and keep it as a record of evidence for online submission of bid, which will also act as an entry pass to participate in the bid opening.

19.10 Bidders should follow the server time being displayed on bidder's dashboard at the top of the tender site, which shall be considered valid for all actions of requesting, bid submission, bid opening etc., in the e-tender system.

19.11 All the documents being submitted by the bidders would be encrypted using PKI (Public Key Infrastructure) encryption techniques to ensure the secrecy of the data. The data entered cannot be viewed by unauthorized persons until the time of bid opening. The confidentiality of the bids is maintained using the secured Socket Layer 128-bit encryption technology.

19.12 Technical & Financial bids has to be uploaded on or before **Bid Submission End Date & Time** mentioned in the tender documents.

20. Assistance to Bidders :

20.1 Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contract person indicated in the tender. The contact number for the IUCAA helpdesk is 020-25604134/35 between 09:30 hrs to 17:30 hrs.

20.2 Any queries relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24X7 CPP Portal Helpdesk. The 24 x 7 Help Desk Number 0120-4200462, 0120-4001002 and 0120-4001005. The helpdesk email id is support-eproc@nic.in

20.3 All interested eligible bidders are requested to submit their bids online on CPP Portal http://eprocure.gov.in/eprocure/app as per the criteria given in this document:

a) Technical Bid should be upload online in cover-1.

b) Financial Bid should be upload online in cover-2

Both Technical and Financial Bid covers should be placed online on the CPP Portal (http://eprocure.gov.in/eprocure/app).

21. Technical Bid (Cover-1) :

Signed and Scanned copies of the Technical bid documents as under must be submitted online on CPPP Portal: http://eprocure.gov.in/eprocure/app . The following documents shall be scanned and uploaded under Cover-1: Technical Bid within the bid submission period. **Failure to upload these documents shall render the bid liable for rejection.**

i. Scanned Copy of Tender Fee Paid Receipt.

ii. Scanned Copy of EMD paid receipt

iii. Scanned copy of duly filled **Technical Bid form (Section I)** along with supporting documents &

commercial / legal terms & conditions with proper seal and signature of authorized person on each page of bid documents.

iv. Scanned copy of completion certificate(s) of works for Completion of One Similar type of UPS/SMF-Battery Project work of costing more than Rs. 29 Lakh or Two, more than 18 Lakh, Or Three, more than 14 Lakh in last Five financial years (i.e. 21-22, 22-23, 23-24, 24-25, 25-26) from Government / Semi-Government / Public Sector or Reputed Private Bodies (to be mentioned in Form I). The contractor shall produce a certificate from an officer not below the rank of Deputy Engineer for running works pertaining to Government / Semi-Government / Public Sector or reputed Private Bodies, or an equivalent certificate from their respective Heads. Details of ongoing works shall be provided in **Form II**.

v. Scanned copy of turnover of the firm **shall be more than Rs 70 Lakhs (Seventy Lakhs Lakh) per annum** in similar (as tender's requirement) classes of UPS/SMF Battery works during three financial years out of last five financial years (i.e., 21-22, 22-23, 23-24, 24-25, 25-26). The work done certificates issued by Govt./Semi Govt./Reputed private bodies to be attached in support of turnover. The certificate shall have name of work, date of start, date of completion and amount of work done of in last three financial years as above. A turnover certificate with UDIN (Unique Document Identification Number), issued by a Chartered Accountant, clearly mentioning year-wise turnover, net worth, and profit/loss, shall be submitted. Copies of Income Tax Return acknowledgements for the corresponding years should also be attached along with Balance sheets.

vi. Scanned copy of duly filled Undertaking / Acceptance Letter (Form III).

vii. Scanned copies of the duly filled Forms IV & V

viii. Scanned copy of Partnership Deed / Certificate of Registration in case of Pvt. Ltd. Company with list of Directors, their names and address with telephone numbers, if the tenderer is a partnership firm / Pvt. Ltd. Company, Power of Attorney / Resolution of Board of Director's for authorized signatory.

ix. Scanned copy of Declaration regarding any ongoing disputes/litigations (or any history thereof) with respect to any work executed / being executed by the tenderer with details of disputes/litigations, if applicable.

x. **Duly filled Scanned copy of: Annexure-II, III & Annexure-IV on company letter head.**

xi. **Annexure-V: Approved Make List.**

22. Financial Bid (Cover-2)

22.1 The currency of all quoted rates shall be Indian Rupees.

22.2 In preparing the financial bids, bidders are expected to consider the requirements and conditions laid down in this Tender document. The financial bid should be uploaded online as per the specified **".xls"** format i.e. Price Bid Excel sheet attached as **'.xls'** with the tender and based on the scope of work, service conditions and other terms of the tender document. It should include all costs associated with the Terms of Reference/Scope of Work of the assignment.

23. Withdrawal of Tender: No tender shall be allowed to be withdrawn after the deadline for submission of tender and before expiry of the tender validity period. If a bidder withdraws the tender during this period, IUCAA shall forfeit the earnest money (EMD) furnished/deposited by such a bidder.

24. Tender Opening:

24.1 IUCAA will open the tenders at the specified date and time and at the specified place as indicated. In case the specified date of tender opening falls on declared holiday or closed day for the purchaser, the tenders will be opened at the appointed time and place on the next working day.

24.2 In the case of two-bid system mentioned above, the technical bids are to be opened in the first instance, at the prescribed time and date. These bids shall be scrutinized and evaluated by the competent authority / committee with reference to parameters prescribed in the tender document. Thereafter, in the second stage, the financial bids of only the technically qualified / acceptable offers (as decided in the first stage) shall be opened for further scrutiny and evaluation by giving an advance intimation to the technically successful bidders. IUCAA reserves the right to select the vendor on the basis of past performance and experience of the firm. The decision of IUCAA shall be final and representation of any kind shall not be entertained on the above. IUCAA shall have no obligation to convey reason for rejection of any bid.

25. Preliminary Scrutiny of Tenders:

25.1 The tenders will first be scrutinized to determine whether they are complete and meet the essential and important requirements, conditions etc. as prescribed in the tender enquiry document. The

tenders, which do not meet the basic requirements, are liable to be treated as unresponsive and shall be ignored.

25.2 The following are some of the important aspects, for which a tender may be treated to be unresponsive and shall be ignored;

a) Tender is unsigned and incomplete.
b) Tender is submitted without necessary supporting papers.
c) Tender validity is shorter than the required period.
d) Required tender fee and EMD have not been submitted/paid.
e) Bidder has not agreed to give the required performance security and SD.
f) Bidder has not agreed to essential condition(s) specially incorporated in the tender enquiry.
g) Tender is conditional tender.
h) Annexures –II, III, IV & V are not filled completely and not submitted with the technical bid.

26. Minor Informality / Irregularity / Non-Conformity;

26.1 If during the preliminary examination, IUCAA finds any minor informality or irregularity or non-conformity in a tender, IUCAA may waive the same, provided it does not constitute any material deviation or financial impact and, also, does not prejudice or affect the ranking order of the bidders. In case, if IUCAA conveys its observation on such 'minor' issues to the bidder by asking the bidder to respond by a specified date, and the bidder does not reply by the specified date or gives evasive reply without clarifying the point at issue in clear terms, such tender will be liable to be ignored.

26.2 If IUCAA observed, that contractor had inadvertently missed out to submit some documents asked in the technical bid form, then IUCAA may ask contractor to submit the same. IUCAA may convey its observation on such 'minor' issues to the bidder by registered/speed post/email/fax etc. asking the bidder to respond by a specified date. If the bidder does not reply by the specified date or gives evasive reply without clarifying the point at issue in clear terms, such tender shall be liable to be rejected/ignored.

27. Code of Integrity in Public Procurement; Misdemeanors and Penalties: -

27.1 **Code of Integrity:** Procuring authorities as well as bidders, suppliers, contractors, and consultants - should observe the highest standard of ethics and should not indulge in following prohibited practices, either directly or indirectly, at any stage during the Tender Process or during the execution of resultant contracts:

i **"Corrupt practice"** - making offer, solicitation or acceptance of a bribe, reward or gift or any material benefit, in exchange for an unfair advantage in the Tender Process or to otherwise influence the Tender Process;

ii **"Fraudulent practice"** - any omission or misrepresentation that may mislead or attempt to mislead so that financial or other benefits may be obtained or an obligation avoided. Such practices include a false declaration or false information for participation in a tender process or to secure a contract or in the execution of the contract;

iii **"Anti-competitive practice"**- any collusion, bid-rigging or anti-competitive arrangement, or any other practice coming under the purview of the Competition Act, 2002, between two or more bidders, with or without the knowledge of the Procuring Entity, that may impair the transparency, fairness, and the progress of the Tender Process or to establish bid prices at artificial, non-competitive levels;

iv **"Coercive practice"** - harming or threatening to harm persons or their property to influence their participation in the Tender Process or affect the execution of a contract;

v **"Conflict of interest"** –participation by a bidding firm or any of its affiliates who are either involved in the Consultancy Contract to which this procurement is linked; or if they are part of more than one bid in the procurement; or if their personnel have a relationship or financial or business transactions with any official of procuring entity who are directly or indirectly related to tender or execution process of contract; or improper use of information obtained by the (prospective) bidder from the Procuring Entity with an intent to gain unfair advantage in the Tender Process or for personal gain;

vi **"Obstructive practice"** - materially impede procuring entity's investigation into allegations of one or more of the above mentioned prohibited practices either by deliberately destroying, falsifying, altering; or by concealing of evidence material to the investigation; or by making false statements to investigators and/ or by coercive practices mentioned above, to prevent it

from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation; or by impeding the procuring entity's rights of audit or access to information;

27.2 **Obligations for Proactive Disclosures:**

a) Procuring authorities, bidders, suppliers, contractors, and consultants are obliged under this Code of Integrity to *suo-moto* proactively declare any conflict of interest (coming under the definition mentioned above - pre-existing or as and as soon as these arise at any stage) in any Tender Process or execution of the contract. Failure to do so shall amount to a violation of this code of integrity.

b) Any bidder must declare, whether asked or not in a bid-document, any previous transgressions of such code of integrity during the last three years or of being under any category of debarment by the Central Government or by the Ministry/ Department of the Procuring Organisation from participation in Tender Processes. Failure to do so shall amount to a violation of this code of integrity.

27.3 **Misdemeanors and Penalties:**

The following shall be considered misdemeanors - if a bidder/ contractor either directly or indirectly, at any stage during the Tender Process or during the execution of resultant contracts:

i. violates the code of Integrity mentioned herein or the Integrity Pact, if included in the Tender/ Contract;

ii. has been convicted of an offence:
   a. under the Prevention of Corruption Act, 1988; or
   b. the Indian Penal Code or any other law for the time being in force for causing any loss of life or property or causing a threat to public health as part of the execution of a public procurement contract.

iii. It is determined by the Government of India to have doubtful loyalty to the country or national security consideration.

iv. Employs a government servant, who has been dismissed or removed on account of corruption or employs a non-official convicted for an offence involving corruption or abetment of such an offence, in a position where he could corrupt government servants or employs a government officer within one year of his retirement, who has had business dealings with him in an official capacity before retirement.

27.4 **Penalties for Misdemeanors:** Without prejudice to and in addition to the rights of the procuring entity to other remedies as per the Tender-documents or the contract, if the procuring entity concludes that a (prospective) bidder/ contractor directly or through an agent has violated this code of integrity or committed a misdemeanor in competing for the tender or in executing a contract, the procuring entity shall be entitled to take appropriate measures, including the following:

(a) **If his bids are under consideration in any procurement:**

- Enforcement of Bid Securing Declaration in lieu of forfeiture or encashment of Bid Security.
- calling off of any pre-contract negotiations, and;
- rejection and exclusion of Bidder from the Tender Process

(b) **If a contract has already been awarded:**

- Termination of Contract for Default and availing all remedies prescribed thereunder;
- Encashment and/ or Forfeiture of any contractual security or bond relating to the procurement;
- Recovery of payments including advance payments, if any, made by the procuring entity along with interest thereon at the prevailing rate (MIBID - Mumbai Interbank Bid Rate);

(c) **Remedies in addition to the above:** In addition to the above penalties, the procuring entity shall be entitled, and it shall be lawful on his part to:

- File information against Bidder or any of its successors, with the Competition Commission of India for further processing, in case of anti-competitive practices;
- Initiate proceedings in a court of law against Bidder or any of its successors, under the Prevention of Corruption Act, 1988 or the Indian Penal Code or any other law for

transgression not addressable by other remedies listed in this sub-clause.

- Remove Bidder or any of its successors from the list of registered suppliers for a period not exceeding three years. Suppliers removed from the list of registered bidders or their related entities may be allowed to apply afresh for registration after the expiry of the period of removal.
- Initiation of suitable disciplinary or criminal proceedings against any individual or staff found responsible.

28. Opening of Financial bids:

28.1 The Financial bids of all eligible, technically qualified and shortlisted bidders will be opened. The date and time of opening of financial bids shall be informed only to the shortlisted bidders.

28.2 IUCAA- reserves the right to accept the offer in full or in parts or reject summarily or partly & cancel the bid without giving any reason.

29. Bidder's capability to perform the contract:

29.1 IUCAA, through the above process of tender scrutiny and tender evaluation will determine to its satisfaction whether the bidder, whose tender has been determined as the lowest evaluated responsive tender is eligible, qualified and capable in all respects to perform the contract satisfactorily.

29.2 The above-mentioned determination will, inter alia, consider the bidder's financial, professional capabilities for satisfying all the requirements of IUCAA as incorporated in the tender document. Such determination will be based upon scrutiny and examination of all relevant data and details & supporting document submitted by the bidder in its tender as well as such other allied information as deemed appropriate by IUCAA.

30. Notification of Award: IUCAA will notify the successful bidder that its tender for 'SITC Energy Storage system for Existing Uninterrupted Power system at Aditi, IUCAA, Pune' has been accepted. The notification of award shall constitute the conclusion of the contract. IUCAA will inform the successful bidder in due course by e-mail.

31. Issue of Contract: After notification of award, IUCAA will send the duly executed contract/work order to the successful bidder by email, registered post, speed post, or other appropriate means. The successful bidder shall return a copy of the order, duly signed and dated, to IUCAA either in person, by registered post, speed post, or courier within fifteen (15) days of receipt. Failing this, IUCAA may treat the contract as repudiated.

32. Taxes and Duties, Fees etc.: Bidder shall be entirely responsible for payment of all taxes, duties, fees, levies, applicable cess etc. during the contract period.

33. ESI, PF & other regulatory rules & laws: The Contractor shall cover all workers and staff engaged in the work under the ESI and PF schemes and shall strictly comply with all applicable local laws and statutes relating to employment. The Contractor shall also submit all necessary statutory reports and records as required by law.

34. Security Deposit (SD)/ Retention Money: Initially, a Security Deposit (SD) of 5% of the awarded work order value shall be applicable. At the time of final billing, 5% of the revised final work value shall be deducted (i.e., 5% of the total billed value). The Earnest Money Deposit (EMD) already submitted shall be converted into part of the Security Deposit, and the balance SD amount shall be recovered from the first two RA bills. The one-half of the retention money shall be released on the issue of the taking-over certificate; if the Taking Over Certificates (TOCs) are issued in parts, then in such proportions as the engineer may determine, having regard to the value of such part or section. The other half of the retention money (or BG, which replaced the retention money) shall be released upon expiration of 365 days after the DLP of the works or final payment, whichever is earlier, on certification by the engineer. Subject to above, IUCAA will release the SD without any interest to the bidder.

35. Performance Guarantee / Performance Bank Guarantee: Within 21 days from the date of receipt

of letter of intent/Work Order, the successful bidder shall submit a Performance Security for 5% amount of the accepted contract value and it should remain valid for a period of 60 (sixty) days beyond the date of completion of all contractual obligations of the contractor, including Defect Liability Period (DLP). The PG shall be paid through NEFT/RTGS/PBG. Photo copy of transaction ID or UTR no. must be provided. In the event of any amendment issued to the contract, the bidder shall, within 21 days of issue of the amendment, furnish the performance guarantee of the corresponding amendment value, rendering the same valid in all respects in terms of the contract, as amended. If bidder fails to submit balance performance guarantee amount within 21 days, from the date of award of Contract / Work Order / Amendment, there shall be a penalty of Rs.1000/- per day (Rupees One thousand only per day) up to a maximum of 5% of the WO/Contract value.

35.1 Subject to above, IUCAA will release the performance guarantee without any interest to the bidder on completion of the bidder's all contractual obligations including Defect Liability Period + 60 days.

35.2 Failure of the successful bidder in providing performance guarantee and/ or returning contract copy duly signed in terms of GCC above shall make the bidder liable for forfeiture of its EMD and, also, for further actions by IUCAA against it.

35.3 If the bidder furnishes Performance Bank Guarantee (PBG) to IUCAA for an amount equal to five per cent (5%) of the total value of the contract, valid up to contract period (including Defect Liability Period) + sixty days, then the amount of Performance Guarantee will be refunded. Performance Bank Guarantee must be issued by a **Nationalized Bank** in India and in the prescribed form.

35.4 In the event of breach of contract or any loss due to contractor's failure to fulfill its obligations in terms of the contract, the amount of the performance guarantee (security) will be forfeited and credited to IUCAA's account. IUCAA shall have the right to deduct full or part of the performance guarantee and shall refund the balance amount, if any, to the Agency on the termination/completion of the term of the Contract including DLP.

36. <u>Payment:</u>

36.1 The payment will be made as per the exact measurement basis.

36.2 The minimum Running Account (R.A) certified bill value shall be of minimum Rs 10/- Lakh. In order to facilitate the speed of works, IUCAA will offer 75% Ad-hoc payment on assessed RA bill from the contractor. The advance will be adjusted against final certification of RA bill. The final bill payment will be made within 30 days after satisfactory completion of the work. All payments shall be made through RTGS/NEFT/LC.

36.3 GST will be paid as per prevailing rates & TDS, Labour, Cess & other taxes will be recovered as per prevailing rates of Income tax act.

36.4 Payment of Wages and other conditions of employment of workers should be not inferior to as stipulated in the Minimum Wages Act. All formalities and procedures prescribed under the Contract Labour Act, Minimum Wages Act and other related acts should be strictly adhered to IUCAA's responsibility as Principle Employer should be fully protected. The necessary legal registers, forms, returns, and liaison with local (concerned authorities) etc. required as per the law of the land are to be maintained by the Agency and should be made available for inspection by the Inter-University Centre for Astronomy and Astrophysics at any time. The Agency will have its workers covered under ESI, PF and other Acts as applicable from time to time at its own cost.

37. <u>Termination and Penalty/Liquidated Damage (LD):</u> It shall be the primary responsibility of the contractor that work contract is executed as per terms and conditions stipulated under this contract to the complete satisfaction of IUCAA. If the completion of project is delayed beyond stipulated time period, then the penalty shall be applicable at the rate of 0.5% per week of incomplete project cost, up-to maximum of 5% of the work order value. In extreme cases, IUCAA may issue show cause notice to Agency giving 15 (fifteen) days for improvement, failing which the work contract shall be liable to be terminated along with forfeiture of the performance guarantee. Decision of IUCAA in this regard shall be treated as final and binding on the Agency. If the Agency refuses to carry out the work under this contract at any stage before the expiry of the period of contract, the work contract shall be liable to be terminated by IUCAA without giving any notice along with forfeiture of the performance guarantee. In such situations IUCAA may get the work done from any other person/firm at the risk and cost of the Agency till new contract is awarded or 60 days period whichever is earlier. An expenditure so incurred by IUCAA shall be deducted from the payments due to the Agency.

38. **Termination for insolvency:** If the bidder is declared by any competent authority/court as bankrupt or otherwise insolvent, the contract shall be deemed to be terminated from the date of such declaration however, such termination will not prejudice or affect the rights and remedies which have accrued and / or will accrue thereafter to IUCAA.

39. **Termination for convenience**: IUCAA reserves the right to terminate the contract, in whole or in part, by serving written notice to the contractor at any time during the currency of the contract. The notice shall specify that the termination is for the convenience of IUCAA. The notice shall also indicate inter alia, the extent to which the bidder's performance under the contract is terminated, and the date with effect from which such termination will become effective.

39.1 The goods and services which are complete and ready in terms of the contract for delivery and performance within thirty days after the bidder's receipt of the notice of termination may be accepted by IUCAA following the contract terms, conditions and prices. For the remaining goods and services, IUCAA may decide:

a) to get any portion of the balance completed and delivered at the contract terms, conditions and prices; and / or

b) to cancel the remaining portion of the goods and services and compensate the bidder by paying an agreed amount for the cost incurred by the bidder towards the remaining portion of the goods and services.

39.2 IUCAA, reserves the right to terminate the said contract at any time on the ground of ineffective services rendered by the agency. IUCAA will be the sole judge to determine the facts.

40. **Force Majeure:** Notwithstanding the provisions contained in tender document clauses, the bidder shall not be liable for imposition of any such sanction so long the delay and/or failure of the bidder in fulfilling its obligations under the contract is the result of an event of force majeure.

40.1 For purposes of this clause, force majeure means an event beyond the control of the bidder and not involving the bidder's fault or negligence and which is not foreseeable. Such events may include, but are not restricted to, acts of IUCAA either in its sovereign or contractual capacity, wars or revolutions, hostility, acts of public enemy, civil commotion, sabotage, fires, floods, explosions, epidemics, quarantine restrictions, strikes, lockouts, and freight embargoes.

40.2 If a force majeure situation arises, the bidder shall promptly notify IUCAA in writing of such conditions and the cause thereof within twenty-one days of occurrence of such event. Unless otherwise directed by IUCAA in writing, the bidder shall continue to perform its obligations under the contract as far as reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the force majeure event.

40.3 If the performance in whole or in part or any obligation under this contract is prevented or delayed by any reason of force majeure for a period exceeding sixty days, either party may at its option terminate the contract without any financial repercussion on either side.

40.4 In case due to a force majeure event IUCAA is unable to fulfill its contractual commitment and responsibility, IUCAA will notify the bidder accordingly and subsequent actions taken on similar lines described in above sub-paragraphs.

41. **Settlement of Disputes:**

41.1 Any dispute arising out of the terms of this contract or in the interpretation of any clause herein shall be settled by mutual discussion between the nominated authorities of IUCAA and the Agency or their authorized representatives. The Director of IUCAA will be the final authority in resolving such disputes.

41.2 In the event of a dispute or difference which cannot be resolved by mediation, the same shall be referred to an Arbitration Tribunal consisting of three members. Either party shall give notice to the other regarding its decision to refer the matter to arbitration. Within 30 days of such notice, one Arbitrator shall be nominated by each party and the Umpire Arbitrator shall be nominated by agreement between the parties to this agreement. The venue of the arbitration will be Pune. Subject to the aforesaid, the Arbitration and Conciliation Act, 1996 with amendments and the rules there under and any statutory modification thereof for the time being in force shall apply to the Arbitration proceedings.

42. **Governing language:** The contract shall be written in English language following the provision as contained in tender document. All correspondence and other documents pertaining to the contract, which the parties exchange, shall also be written accordingly in English language.

43. **Applicable Law:** The contract shall be interpreted in accordance with the laws of India.

44. **Contacting IUCAA Authorities:** No bidder shall contact any of the IUCAA authorities on any matter relating to their bid, from the time of the opening of the bids to the time the contract is awarded.

45. **Committee Duly Constituted by IUCAA Reserves the Right to Accept any Bid and to Reject Any or All Bids:** A committee duly constituted by IUCAA reserves the right to reject, accept or prefer any bid and to annul the bidding process and reject all bids at any time prior to award of contract, without thereby incurring any liability to the affected bidder or bidders or any obligation to inform the affected bidder or bidders of the ground for its actions and decisions. IUCAA also reserves the right to accept any bid in part or split the contract between two or more bidders.

46. **Comprehensive Warranty:**

The bidder shall provide a comprehensive warranty of 36 (Thirty-six) months from the date of successful commissioning/acceptance of all products, equipment, and items supplied under this tender. The warranty shall cover free replacement/repair of any defective parts, materials, or workmanship, including associated labor, transportation, and incidental costs. The bidder shall ensure that the equipment remains in satisfactory working condition throughout the warranty period without any additional cost to the purchaser.

47. **Quality of Workmanship:**

- All the equipment supplied and materials used shall be new and best of their respective kinds and shall comply with the latest revision of relevant Indian/International standards. They shall also comply with all statutory requirements of Government of India and Maharashtra state.
- The contractor shall submit necessary testing and inspection certificates for the materials under contractor's scope of supply.
- Quality of workmanship shall be in accordance with proven engineering practices. Any defects / deficiencies pointed out by Employer / consultant during or after commissioning shall be made good as directed without any extra cost to Employer.

48. **Inspection and Testing:**

- The contractor shall furnish in their offer a quality assurance plan (QAP) with complete list of tests proposed to be conducted at the factory site. The tests are required to be conducted as per relevant Indian/international standards and as per requirement of central and state government authorities must also be included.
- The manufacturer shall conduct all the tests and inspection (including stage inspections, as necessary) required to ensure that the equipment offered by him conforms to the requirement of this specification. The particulars of the proposed tests and the procedures for the tests shall be submitted to the employer for approval before conducting such tests.
- The contractor has to give sufficient time for inspection at the time of giving "inspection call" and date of inspection should be mutually agreed to. If inspection team of employer finds on arrival at vendor's premises that equipment under inspection is not ready, it shall be dealt with as per prevailing practice towards financial loss to the employer.
- All material used for various equipment shall be of tested quality. Physical and chemical tests on materials shall be done to ensure the quality of the material used. The procedures and sampling shall be guided by the applicable test codes and standards, components for which material test has been done and approval shall be stamped for identification.

49. **Insurance:**

The Contractor shall be responsible and take a comprehensive Insurance Policy (MCE) for "transit-cum-storage-cum-erection" in the joint name of Purchaser and Contractor for the contract value covering all risks and liabilities for supply, storage at site up to erection, testing & commissioning and handing over of the Plant to Purchaser as per terms of Contract. The Contractor shall take insurance for Third Party Liability

covering loss of human life (engineers and workmen belonging and not belonging to Contractor) of deployed personnel and also covering the risks of damage of other's material/ equipment/ properties during execution of the Contract and should be borne by the contractor. However, the value of third-party liability for compensation for loss of human life shall be as per prevailing Rules and Regulations and for damage of equipment/property shall be mutually discussed and finalized. The various insurance policies shall be taken from one agency only.

50. Testing of Tender items at the Manufacturer's Premises:

50.1 Test certificates for all tests shall be submitted to the Employer prior to inspection call.

50.2 All equipment shall be tested in presence of Employer's representative in accordance with the standards specified to determine its performance. Prior to performance tests, the supplier(s) shall furnish the procedures and methods of testing to the Employer for approval. No equipment shall be dispatched without taking clearance from the Employer.

50.3 The contractor shall include and provide in contractor's offer all facilities, which shall enable inspection by the Employer or contractor's authorized representative in accordance with the clauses of contract.

50.4 The Employer reserves the right to inspect all the equipment / items or part of them and give waiver for the rest.

50.5 Inspection to focus on individual working of each type of the modules, integrated system working with simulated fault conditions, and working.

50.6 The inspection by the Employer or contractor's authorized representative shall not relieve the contractor of liability for rectification of any defects, which may subsequently appear or be detected during or after commissioning or during the guarantee period. The contractor shall rectify all such defects without any extra cost to the Employer.

50.7 The tendered shall submit test certificates for all the tests conducted during manufacture and inspection in Three (3) copies along with the supplies.

51. Tests at Site of Installation:

51.1 After Factory Acceptance test in presence of employer, all equipment's shall be subjected to testing at site after installation in presence of Employer's representative. The contractor shall furnish all necessary instruments, accessories and personnel for site testing. If the site performance test and result are unsatisfactory, the contractor shall rectify the same at contractor's own cost.

52. Handing over of site / Equipment:

52.1 On completion of work, all rubbish, debris, temporary supports enabling structures etc. shall be removed from the site and the site shall be handed over in a tidy and workman like manner. All scrap, muck etc. shall be dumped suitably as directed by the Employer. The maximum distance for disposal shall be 1 km.

52.2 Any existing underground cable, pipe etc. encountered during course of execution shall be suitably taken care of by the contractor and diverted if necessary in consultation with the Employer. All modification drawings / schemes so prepared shall be submitted for approval of the employer prior to implementation with no cost and time implications.

53. Drawings/Documents of entire Works:

53.1 Approval of all the drawings and coordination of all the design and engineering activities shall be done by the IUCAA.

53.2 All drawings / documents / specifications / standards shall be in English language only. Translation of any of these into English language, if supplied in any other language is the responsibility of the contractor.

- Single line diagram for the system.
- Test and inspection certificates. Instruction manuals of each system/subsystem/equipment covering erection, testing & commissioning, operation, maintenance, repair, list of spare parts with ordering specifications and list of consumables.
- Maintenance instructions manuals shall contain diagnostic trouble shooting, fault location charts and tests for checking of proper functioning.

53.3 The contractor shall also submit operation, maintenance, repair, testing and inspection manuals for the complete system in 1 copies.

SECTION -III

GENERAL RULES AND DIRECTIONS FOR THE GUIDANCE OF BIDDERS

1. The IUCAA authority competent to dispose of the tender shall have the right of rejecting all or any of the tender.

2. In the event of the tender being submitted by a firm, it must be signed separately by each partner thereof, and in the event of the absence of any partner, it shall be signed his behalf by a person holding a **power of attorney** authorizing him to do so.

3. No receipt for any payment, alleged to have been made by a contractor in regard to any matter relating to his tender or the contract, shall be valid and binding on IUCAA of Pune unless it is signed by the Estate Manager.

4. All works shall be measured net by standard measures and according to the rules and customs of the Public Works Department and their rates shall be without references to any local custom.

5. Under no circumstances shall any contractor be entitled to claim enhanced rates for any items in this contract.

6. The measurements of work shall be taken in accordance with the standard methods specified in the relevant I.S. Codes and as per the prevailing practices of CPWD/PWD. No alternative methods shall be accepted. The decision of the Engineer-in-Charge regarding the applicable standard method in use in the Department shall be final.

7. Successful tenderer will have to produce PAN-Card, GST certificate issued by Income Tax Department otherwise their R.A. Bills will not be paid by the IUCAA, Pune

8. The contractor will have to construct shade for storing controlled and valuable materials brought by the contractor at the work site, having double locking arrangements at contractor's cost. The materials will be taken for use in the presence of the departmental person. No material will be allowed to be removed from the site of works.

9. In case any non-tendered item is required to be executed during the course of the work, the contractor's profit on such item shall be deemed as 10%.

10. The contractor will have to make his own security arrangement for the protection of material and the equipment. The purchaser /IUCAA will be not responsible for any theft.

11. Tap off's for temporary water and electricity shall be provided on site at single source (free of cost). The Contractor shall make its own arrangement thereafter from the Tap off's for Works and all costs in relation thereto shall be borne solely by the Contract.

SECTION-IV

Technical Requirements

1. **1 Core × 95 Sq.mm AC Cable:** 1100 V grade, HR-FR-LSH power cable, comprising plain annealed high-conductivity flexible circular copper conductor conforming to Class 5 of IS 8130:2013 (latest), with maximum DC resistance of 0.21 Ω/km at 20°C, insulated with FR-LSH PVC Type C material conforming to IS 5831:1984 (latest), maximum conductor operating temperature of 85°C. The cable shall have high-voltage test of 3 kV, continuous current-carrying capacity of approximately > 300 A in air at 40°C, and minimum bending radius of 8 times the overall diameter. The cable shall comply with applicable requirements of IS 8130, IS 5831, IS 694 and relevant latest amendments/standards. The cable shall be complete with all necessary accessories, identification, termination/lugs/glands wherever required, and shall be supplied, laid, tested and commissioned complete in all respects. Manufacturer's datasheet, type-test/routine-test certificate and cable-sizing/voltage-drop calculation to be submitted

2. **Uninyvin Cables:**

Parameter	Technical Requirement
Cable type	Single-core flexible **Uninyvin cable**
Application	UPS-Switchgear–battery and battery-to-battery interconnection
Conductor	**Annealed tinned copper**, flexible conductor
Conductor class	**Class-5 flexible conductor**
Conductor standard	**IEC 60228 / IS 8130**
Minimum current rating	**340 A DC continuous**
Duty	Suitable for **10-minute discharge duty of 12 V, 160 Ah SMF VRLA battery**
Insulation	**105°C heat-resistant HR-PVC insulation**
Reinforcement/braiding	**Fibreglass/nylon braided construction**
Outer protection	**Nylon lacquered finish**
Voltage grade	Suitable for the applicable UPS DC system voltage; **minimum 600 V grade preferred**
Temperature rating	Continuous conductor operating temperature: **105°C**
Flexibility	Highly flexible and suitable for battery-bank interconnections

Polarity identification	Red/black or equivalent permanent +/− **identification**
Termination	Heavy-duty **tinned copper compression lugs** at both ends
Crimping	Hydraulic/powered crimping with proper die corresponding to cable/lug size
Fasteners	Suitable SS/brass nuts, bolts, flat washers and spring/locking washers
Cable protection	Heat-shrink sleeves/insulation at terminations
Current carrying capacity	340 A minimum after considering applicable installation/derating conditions
Voltage-drop requirement	Cable size shall be selected to satisfy the **maximum permissible DC voltage drop specified by the UPS manufacturer**
Bending	Cable installation shall comply with manufacturer's minimum bending radius
Installation	Properly routed, dressed, supported and secured without mechanical stress on battery terminals
Identification	Permanent cable identification at both ends and suitable intermediate locations
Testing	Continuity, insulation resistance, polarity and termination integrity tests
Documentation	Manufacturer's datasheet, type-test/routine-test certificate and cable-sizing/voltage-drop calculation to be submitted

Approval: The contractor shall submit the proposed **cable size, length, routing/layout and termination arrangement** to IUCAA for review and approval before execution. Final cable size, routing and installation arrangement shall be subject to approval of the IUCAA Engine

Length of Interlinks

Length shall be selected considering **feasibility, minimum practical voltage drop, ease of handling, accessibility and future maintenance requirements**. Excessive cable length and unnecessary loops shall be avoided.

ADDITIONAL GENERAL CONDITIONS AND SPECIFICATIONS

1. These are to apply as additional specifications and conditions unless otherwise already provided for contradictorily elsewhere in his contract.

2. CONTRACTOR TO STUDY SITE CONDITIONS:

The contractor shall be deemed to have carefully examined the work and site conditions including labour, the general and the special conditions, specifications, schedules and drawings and shall be deemed to have visited the site of the work and to have fully informed himself regarding the local conditions and carried out his own investigations to arrive at rates quoted in the tender. In this regard, he will be given necessary information to the best of knowledge of Department but without any guarantee about it.
If he shall have any doubt as to the meaning of any portions of these general conditions or the special conditions, or the scope of work or the specifications and drawings or any other matter concerning the contract, he shall in good time, before submitting his tender, set forth the particulars thereof and submit them to the Engineer-in-charge, IUCAA, Pune in writing in order that such doubts may be clarified authoritatively before tendering. Once a tender is submitted, the matter will be decided according to tender conditions in the absence of such authentic pre-clarification.

3. DECLARATION OF THE CONTRACTOR

The contractor should sign the declaration form.

4. INDEMNITY:

The contractor shall indemnity the IUCAA against all actions, suits, claims and demands brought or made against him in respect of anything done or committed to be done by the Contractor in execution of or in connection with the work of this contract and against any loss or damage to the IUCAA in consequence of any action or suit being brought against the Contractor for anything done or committed to be done in the execution of the work of this contract.

5. DEFINITIONS:

(a) The expression “IUCAA” as used in the tender papers shall mean the IUCAA, Pune – 411 007.
(b) The expression “Architect” as used anywhere in the tender papers shall mean the Architect appointed by the IUCAA for this work.
(c) The expression the “Department” as used in the tender papers shall mean the Estate Department of IUCAA.
(d) Project Management Consultant (PMC) means project manager team appointed by IUCAA for day-to-day supervision, recording measurements for bills and monitoring time, cost & quality.
(e) The expression “Engineer” or “Engineer-in-Charge” as used in the tender papers shall mean the Estate Manager, IUCAA, Pune - 7.
(f) The expression “Contractor” used in the tender papers shall mean the successful tenderer whose tender has been accepted, and who has been authorized to proceed

6. PROTECTION OF UNDERGROUND TELEPHONE CABLE AND AERIAL TELEPHONE WIRES AND POLES, TRANSMISSION TOWERS, ELECTRIC CABLES AND WATER SUPPLY LINES.

During the execution of work, it is likely that the contractor may meet with telephone cable, electrical cables, water supply lines etc. It will therefore be the responsibility of the contractor to protect them carefully. All such cases should be brought to the notice of the Engineer-in-charge/ Architect by the contractor and also to the concerned Department. Any damage what-so-ever done to these cables and pipe lines by the Contractor shall be made good by him at his cost.

7. EXTRA ITEMS:

All extra items shall be approved in advance before construction. Extra items must be approved before claiming in the R. A. Bill. Unapproved extra items should be removed from the R. A. Bill.

Maximum 10% overheads & profit shall be chargeable on the actual cost, material labour & overheads. Rate analysis with all supporting documents of purchase of material shall be submitted for approval.

8. Drawings and Final documents

8.1 Preparation and Approval of Drawings

- The Contractor shall prepare and submit the General Arrangement (GA) drawings and Single Line Diagram (SLD), along with all relevant technical details, for IUCAA's review and approval before commencing any work.
- The drawings shall include all necessary dimensions, equipment layouts, mounting arrangements, cable entry/exit details, electrical connections, ratings, protection devices, and other relevant information required for proper execution of the work.
- The Contractor shall commence the work only after obtaining written approval of the submitted drawings from IUCAA. No manufacturing, procurement specific to the approved design, installation, or execution shall be undertaken before such approval, wherever applicable.
- Any comments, corrections, or modifications suggested by IUCAA shall be incorporated by the Contractor, and the revised drawings shall be resubmitted for approval without any additional cost to IUCAA.
- Approval of the drawings by IUCAA shall not relieve the Contractor of its responsibility for the correctness, completeness, technical compliance, and proper execution of the work as per the tender specifications and applicable standards.

8.2 Submission of As-Built Drawings

- Upon completion of the work, the Contractor shall prepare and submit the final as-built GA drawings and SLD, incorporating all actual modifications, changes, and deviations made during execution.
- The as-built drawings shall accurately represent the final installed arrangement, including equipment details, ratings, cable sizes, routes, termination details, protection devices, control wiring, and other relevant information, as applicable to the scope of work.
- The Contractor shall submit the as-built drawings in both hard-copy and editable digital formats, such as PDF and DWG, wherever applicable, as specified by IUCAA.
- The final as-built drawings shall be submitted to IUCAA for review and acceptance within the stipulated period after completion of the work and before final bill settlement, wherever specified in the contract.
- The cost of preparation, revision, printing, and submission of all drawings shall be deemed included in the quoted contract price. No additional payment shall be admissible on this account.

9. Safety, Risk, and Responsibility During DC Power and Battery Handling:

- The Contractor shall ensure that all personnel engaged in the work involving DC power systems, UPS batteries, battery banks, and associated electrical equipment possess the necessary technical qualifications, competence, training, and experience to perform the work safely.

- The Contractor shall be solely responsible for identifying, assessing, and controlling all risks associated with the handling, installation, connection, disconnection, testing, maintenance, and commissioning of batteries and DC electrical systems, including risks arising from electric shock, short circuits, arc flash, high fault currents, fire, chemical leakage, and other electrical or physical hazards.
- The Contractor shall implement all necessary safety precautions and comply with applicable electrical safety regulations, statutory requirements, relevant standards, and the manufacturer's instructions. Appropriate personal protective equipment (PPE), insulated tools, suitable lifting and handling equipment, insulated covers, and other necessary safety arrangements shall be provided by the Contractor at its own cost.
- Before commencing the work, the Contractor shall plan and implement a suitable risk assessment and method statement, including the safe isolation of electrical supplies, verification of the absence of hazardous voltage wherever applicable, prevention of accidental energization, and safe handling of battery terminals and interconnecting cables. Particular care shall be taken to prevent short circuits across battery terminals and DC busbars.
- The Contractor shall be responsible for the safety and conduct of its personnel and for any injury, damage to property or equipment, fire, electrical incident, or other loss arising from its acts, omissions, negligence, or failure to comply with applicable safety requirements during execution of the work, subject to applicable law and the terms of the contract.
- The Contractor shall immediately report any accident, near miss, unsafe condition, or damage to IUCAA and shall take prompt corrective action. The Contractor shall not proceed with any activity considered unsafe and shall follow the safety as per standards/rules.
- All costs associated with safety measures, risk assessment, trained personnel, PPE, tools, protective equipment, and compliance with applicable safety requirements shall be deemed included in the quoted contract price. No additional payment shall be admissible on this account.

SECTION-V

List of Approved Brands/Manufacturer

The Engineer-In-charge is at liberty to select any of the brands indicated below. The Contractor should obtain prior approval from Engineer-In-charge before placing the order for any specific material. Engineer/ Architect may approve any of the "Makes" or "Brands" out of the list below.

2. All material should confirm to relevant standards and codes of BIS and shall have ISI mark.

3. In the case of items for which approved make / vendor is not given below. The Contractor shall with the prior approval of the Engineer-In-charge/Architect procure the same of the first quality and satisfy the Engineer-In-charge/ Architect before use in the works.

4. In case of Contradiction between the approved makes vendors specified below and mentioned in the Specifications / Bill of quantities. The decision of the Engineer-In- charge/Architect shall be final and binding on the Contractor.

Item	Approved Brands
SMF VRLA Batteries	Amaron Quanta, Panasonic, Exide NXT+
DC Uninyvin cables	IGI Cables, Apar, Polycab, Miracle
AC Power, communication & Control Cables	Polycab, Gloster, Finolex, KEI
Lugs & Glands	Braco, Dowell's
Fuse	Eaton Bussmann, Mersen
MS/carbon steel	SAIL, JSW, TATA Steel, JSPL

FORM - I

DETAILS OF WORKS OF ALL SIMILAR TYPE AND MAGNITUDE CARRIED OUT BY THE CONTRACTOR (REFER ELIGIBILITY CRITERIA (SECTION II – Point No. 3) OF COMPLETED WORKS)

(DETAILS OF PROJECTS SHALL BE FILLED IN THE CHART AS PER REQUIREMENT WITH PROOF)

NAME OF THE CONTRACTOR:

Sr. No. No.	Name of work	Name and address of the organization from whom the work was done	Place and Country	Agreement No.	Date of commen-cement	Tendered cost (In lakhs)	Total cost of work done (In lakhs)	Date of Completi on	Principle Features in brief
1	2	3	4	5	6	7	8	9	10

Signature of Contractor

Note: - This is a standard form. The details are to be furnished in this format as typewritten statements, which shall be scanned and attached in COVER No. I. Work done certificates/Work Orders, and Completion Certificates shall be attached in support of the works claimed in this form. The Work Done Certificates shall be duly signed by an officer not below the rank of Deputy Engineer.

FORM - II

STATEMENT SHOWING **ON-GOING WORK** IN ALL CLASSES OF SIMILAR UPS/SMF-BATTERY WORK (DETAILS OF PROJECTS SHALL BE FILL IN THE CHART AS PER REQUIREMENT WITH PROOF)

NAME OF CONTRACTOR: -

Sr. No.	Name of work	Amount Put to Tender/ Tendered cost	Agreement No.	Date of Commen-cement And Date of Completion (If work completed)	Amount of work still remaining to be executed (Rs. In lakhs)	Remarks
1	2	3	4	5	6	7

Signature of Contractor

Note: - This is a standard form. The details are to be furnished in this format as typewritten statements, which shall be scanned and attached in COVER No. I. Work Orders shall be attached in support of the works claimed in this form. The Work Done Certificates shall be duly signed by an officer not below the rank of Deputy Engineer.

FORM – III

UNDERTAKING/ACCEPTANCE

(To be given on Bidder's Letter Head)

1. I,_____son/ daughter/ wife of Shri. _____
   Proprietor /Director / authorized signatory of the Company / Firm mentioned above, is competent to sign this declaration and execute this tender document.

2. I have carefully read and understood all the terms and conditions of the tender and undertake to abide to them.

3. The information / documents furnished along with the above tender form are true and authentic to the best of my knowledge and belief. I am well aware of the fact that furnishing of any false information / fabricated document would lead to rejection of my tender at any stage besides liabilities towards prosecution under appropriate law.

Place: Pune **Authorised Signatory**

Date: **Sign and Seal**

FORM - IV

Declaration

(To be given on Bidder's Letter Head)

Declaration letter on official letter head stating the following:

1. We are not involved in any major litigation that may have any impact of affecting or compromising the delivery of services as required under this tender.

2. We are not black-listed by any Central / State Government / Public Sector Undertaking in India.

3. I/ We hereby declare that I/ We have read and studied in detail the all instructions and conditions of this Contract in the above Clauses, and understood the scope of the project/ work and my/our fundamental duties and responsibilities under this Contract. I/ We unconditionally accept and agree to abide by them.

Yours faithfully, (Signature of the Authorized person)

Date: Name:

Place: Designation:

Seal:

FORM - V

(To be given on Bidder's Letter Head)

1.1 EMD Refund Request

To
Estate Manager
Inter-University Centre for Astronomy & Astrophysics Post bag -4, Ganeshkhind,
Pune University Campus, Pune - 411007.

Sub: - Request for refund of EMD deposited for tender for "……..."

Sir,

I/We request you that EMD deposited by me/ us against the tender above tender due on …….. vide UTR No dated for **Rs. 111000/-** for providing **"**Supply, Installation, Testing & Commissioning (SITC) Energy Storage system for Existing Uninterrupted Power System at Aditi, IUCAA, Pune**",** may kindly be refunded.

Yours faithfully, (Signature of the Authorized person)

Date: Name:

Place: Designation:

Seal

FORM-VI

NO RELATIONSHIP CERTIFICATE

(On Company Letterhead)

I/We hereby certify that I/We* am/are* related/not related (*) to any officer of IUCAA Pune. (If related provide the details of the employee)

I/We* am/are* aware that, if the facts subsequently proved to be false, my/our* contract will be rescinded with forfeiture security deposit and I/We* shall be liable to make goods the loss or damage resulting from such cancellation.

I//We also note that, non-submission of this certificate will render my / our tender liable for rejection.

Authorized Signatory

Name:

Designation:

Contact No.:

Date:

Place:

FORM-VII

TENDER ACCEPTANCE LETTER

(To be given on Bidder's Letter Head)

To, Date:

_____
_____
_____

Sub: Acceptance of Terms & Conditions of Tender.

Tender Reference No: __
Name of Tender / Work: -_____
Dear Sir,

1. I/ We have downloaded / obtained the tender document(s) for the above mentioned 'Tender/Work' from the web site(s) namely: _____ as per your advertisement, given in the above-mentioned website(s).
2. I / We hereby certify that I / we have read the entire terms and conditions of the tender document (including all documents like annexure(s), schedule(s), etc.), and I / we shall abide hereby by the terms / conditions / clauses contained therein.
3. The corrigendum(s) issued from time to time by IUCAA too have also been taken into consideration, while submitting this acceptance letter.
4. I / We hereby unconditionally accept the tender conditions of above-mentioned tender document(s) / corrigendum(s) in its totality / entirety.
5. I / We do hereby declare that our Firm has not been blacklisted/ debarred/ terminated/ banned by any Govt. Department/Public sector undertaking.
6. I / We certify that all information furnished by our Firm is true & correct and, in the event, that the information is found to be incorrect/untrue or found violated, then your department/ organization shall without giving any notice or reason therefore or summarily reject the bid or terminate the contract, without prejudice to any other rights or remedy including the forfeiture of the full said earnest money deposit absolutely.
7. Restrictions on procurement from bidders from a country or countries, or a class of countries under Rule 144 (xi) of the General Financial Rules 2017: We certify as under:
   "We have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India and on sub-contracting to contractors from such countries, and solemnly certify that we fulfil all requirements in this regard and are eligible to be considered. We certify that:
   i. we are not from such a country or, if from such a country, we are registered with the Competent Authority (copy enclosed). and;
   ii. we shall not subcontract any work to a contractor from such countries unless such contractor is registered with the Competent Authority.

Yours Faithfully,
(Signature of the Bidder, with Official Seal)

FORM – VIII

IMPORTANT NOTICE

TENDERERS RESPONDING TO THIS ENQUIRY SHALL BE DEEMED TO BE AGREEABLE TO THE TERMS AND CONDITIONS HEREIN CONTAINED. THESE TERMS AND CONDITIONS SHALL BE BINDING ON THE SUCCESSFUL TENDERER.CONDITIONAL TENDERS ARE LIABLE TO BE REJECTED. IUCAA PUNE WILL PROCESS THE TENDER AS PER IUCAA PUNE STANDARD PROCEDURES. THE DIRECTOR OF THE INSTITUTE RESERVES THE RIGHT TO REJECT ANY OR ALL OR PART OF TENDER WITHOUT ASSIGNING ANY REASON AND SHALL ALSO NOT BE BOUND TO ACCEPT THE LOWEST TENDER. IUCAA PUNE WOULD NOT BE UNDER ANY OBLIGATION TO GIVE ANY CLARIFICATIONS TO THE AGENCIES WHOSE BIDS ARE REJECTED**.**

I agree to all terms and conditions mentioned in the tender document of the Institute

Signature of the Tenderer

Annexure -I

BOQ			
Sr. No	**Description**	**Qty.**	**Unit**
1	Design, manufacture, supply and irection of structurally sound, high-load-bearing and modular battery rack systems fabricated from Mild Steel (MS)/Carbon Steel sections, using L-angle/square sections of size 40 × 40 × 4 mm or suitable equivalent section as per the required load capacity and site compatibility. The scope shall include cutting, drilling, welding, grinding, fabrication, leveling, alignment, provision of suitable supports/bracing and anchoring arrangements, as required at site. Suitable heavy-duty rubber pads of adequate thickness and load-bearing capacity shall be provided below the battery rack/supporting contact points to provide load isolation, minimize vibration and prevent direct metal-to-floor contact. The complete rack shall be properly surface-prepared, treated against corrosion and finished with durable powder coating. The rack shall be designed to safely accommodate the specified battery quantity and load, with adequate structural strength, stability, ventilation and accessibility for inspection and maintenance. The work shall be complete in all respects as per the approved design, site conditions and Engineer-in-Charge's instructions.	495	KG.
2	Supply, laying & testing of Single Core, 95 sq. mm, 1100 V grade, FRLSH, multi-stranded, flexible copper conductor cable conforming toIS 5831:1984 (latest) with ISI mark, PVC insulated, sheathed, erected on provided wall/ trusses/pole/cable trays /trench/ pipe suitable for industrial use, including necessary fixing arrangements, Cable ties & Cable management, ferrules, dressing, and testing as required at site.	240	Mtr.
3	Termination of Single Core, 95 sq. mm, 1100 V grade, FRLSH, flexible copper conductor cable using suitable tinned copper crimping lugs & heavy duty cable gland (IS:12943) at panel end (IS:8309/IS:8337), including cutting, stripping, dressing of cores, crimping, fixing, earthing, tagging, and making complete termination at both panel and user end as required at site.	34	Nos.
4	Supply, Installation, Testing & Commissioning of 12 Volt, 160Ah, Factory charged SMF VRLA Batteries including all required connectors/fastners for interlinks, battery tags, seperators, terminal covers etc. complete as instructed by the engineer In-charge.	100	NOS.

5	Supply, Installation, Termination & Testing of interlinks of single Core, Annealed Tinned Copper Conductor, Uninyvin cables rated for constant discharge current of 10 min of 160Ah battery & at least rated for 340 Ampere DC current conforming to IEC 60228 / IS 8130. Interlinks should be Heat Resistant for 105°C HR-PVC insulation cables with Fiber Glass, Nylon Braided Nylon Lacquering complete **with appropriately sized crimped copper lugs at both ends**, suitable fasteners (SS/brass as required) such as nuts, bolts, washers, etc. and all necessary accessories for secure termination and interconnection between individual batteries and battery banks, including routing, dressing, identification and making the system complete in all respects as required at site. (The length of the Interlinks shall be selected based on feasibility, ease of maintenance & handling, accessibility. The proposed cable routing/layout shall be submitted to IUCAA for review and approval prior to execution. The final cable size, length, routing, and installation arrangement shall be approved by the IUCAA Engineer, considering future maintenance requirements and ease of handling.)	1	Lumpsum
6	Supply, Laying & Testing of single Core, Annealed Tinned Copper Conductor, Uninyvin cable rated for constant discharge current of 10 min of 160Ah battery & at least rated for 340 Ampere current, conforming to IEC 60228 / IS 8130, including routing, dressing, identification marking/tagging into the provided cable trench/trays and making the system complete in all respects as required at site. The cables should be Heat Resistant for 105°C HR-PVC insulation cables with Fiber Glass, Nylon Braided Nylon Lacquering	250	Meter
7	Supply, termination and installation of appropriately sized crimped copper lugs for the Uninyvin cables provided under the **BoQ item number 6** above, including suitable SS/brass nuts, bolts, washers and other necessary accessories for secure termination and interconnection between switchgears, UPS systems and battery banks. The work shall also include the supply and installation of suitable PVC/brass cable glands at panel end cable terminations, complete in all respects as per cable size, equipment requirements and site conditions.	38	NOS.
8	Disassembling, Shifting, Transportation & erection of two (2) ABB make 250 kVA UPS racks with loaded modules and one (1) Electrical DC Fuse Board (approx. 5 ft × 4 ft) from IUCAA to the Aditi Basement Room, approximately 800 Mtr. distance, including all necessary manpower, tools & tackles, crane/ lifting equipment, transportation, loading/unloading, handling, shifting and required accessories for safe execution of the work. The work shall be completed in all respects as per site conditions and requirements.	1	Job

9	Overhauling of 2 Nos. ABB make, 250 kVA UPS systems along with all installed/loaded power modules, including complete cleaning, tightening of all electrical and mechanical connections, modules, control cards, cooling fans, busbars, terminals, cables and associated components; internal and external inspection of UPS panels, identification and rectification of loose connections, dust accumulation and other minor defects; and carrying out necessary servicing in accordance with the manufacturer's recommendations/guidelines and applicable relevant standards,	1	Job
10	Positioning, Assembly, Reconnection, Commissioning, Synchronisation & Testing of the two (2) ABB make 250 kVA UPS systems with loaded modules, along with the associated supplied battery banks, at the designated shifted location. The work shall include all equipment and accessories required for commissioning & synchronisation as per applicable UPS/OEM standards and site requirements. The work shall be executed in presence of the OEM/authorised ABB service representative, including necessary functional checks, checking of electrical parameters, health condition and functional performance of individual modules, and battery systems. The work shall be completed in all respects to run both UPS in parallel.	1	Job
11	Installation on wall, positioning, assembly and reconnection of the existing Electrical DC Fuse Board (approx. 5 ft × 4 ft) at the designated shifted location. The DB shall be installed with required fastners and as per applicable electrical safety standards and site requirements, followed by checking, testing, insulation resistance testing and functional verification of all outgoing/incoming circuits.	1	Job
12	Supply, laying & testing of Single Core, 70 sq. mm, 1100 V grade, FRLS multi-stranded, flexible copper conductor cable conforming to IS 5831:1984 (latest) with ISI mark, Green colour, PVC insulated, sheathed, erected on provided wall/ trusses/pole/cable trays /trench/ pipe suitable for industrial use, including necessary fixing arrangements, Cable ties & Cable management, ferrules, dressing, and testing as required at site.	30	Mtr.
13	Termination/Jointing of Single Core, 70 sq. mm, 1100 V grade, FRLS flexible copper conductor cable using single compression cable gland (IS:12943) at panel end and suitable tinned copper crimping lugs (IS:8309/IS:8337), including cutting, stripping, dressing of cores, crimping, fixing, earthing, tagging, and making complete termination at both panel and user end as required at site.	12	Nos.
14	Providing & erecting hot dipped galvanised perforated/ ladder type cable tray manufactured from 16 SWG (1.6 mm thick) GI sheet of 150 mm width & 75 mm height complete with necessary coupler plates & hardware.	20	Meter

15	Providing & erecting hot dipped galvanised perforated/ ladder type cable tray manufactured from 16 SWG (1.6 mm thick) GI sheet of 300 mm width & 75 mm height complete with necessary coupler plates & hardware.	35	Meter
16	Providing & erecting hot dipped galvanised cover suitable for perforated type Cable tray manufactured from 18 SWG (1.2 mm thick) GI sheet of 150 mm width & 20 mm height complete with necessary hardware.	40	Meter
17	Providing & erecting hot dipped galvanised cover suitable for perforated type Cable tray manufactured from 18 SWG (1.2 mm thick) GI sheet of 300 mm width & 20 mm height complete with necessary hardware.	40	Meter
18	Supply, installation, testing and commissioning of an integrated UPS Remote Alarm Panel, suitable for receiving potential-free contact signals from the UPS and providing local audible and visual alarm indications. The panel shall operate on 100–270 V AC supply and shall be suitable for wall mounting in a metal enclosure. The system shall include potential-free contact inputs for visual LED indications of Load ON Battery, Mains ON, Inverter ON and Inverter Trip status/alarm signals from the UPS, with suitable interface circuitry, indication LEDs, buzzer and alarm acknowledgement facility. The complete system shall include all necessary SMPS/power supply, relays/interface modules, terminal blocks, wiring, MCBs, connectors, push buttons, LEDs, buzzer and internal accessorie as required for complete and reliable operation	2	NOS.
19	Supplying Two sets of all required advanced Communication cables From UPS units to Remote Alarm Panels (suitable for or supplied UPS Remote Alarm Panel in BoQ item no. 18) with laying, crimping, terminating at both ends with all required lugs and gland.	60	Meters
20	Supplying and fixing PVC synthetic elastomer electrically insulating mat with class A insulation conforming to IS: 15652 – 2006 having 2 mm thickness up to 3.3 kV (Raychm, Jyoti Duratuf or equivalent)	10	Sq.Mtr.
21	Supply of NH FUSE 500A 500V, 500NHG3B LV, NH3, gL/gG	3	Nos.

ANNEXURE-II

	Compliance Sheet for 160Ah Battery	
	Aproved Brands : (Make: Amaron Quanta, Panasonic, Exide NXT+) Only one Make & Model is to be mentioned for offered product	
Sr. No.	**Requirements**	**Yes/No**
1	**Scope of work:** The scope of work includes Supply, Installation, Testing & Commissioning of SMF VRLA batteries at Aditi IUCAA, Pune (Basement room) (All Batteries Must be of same Make)	
2	Single Battery shall be Factory Charged 13V, 6 cells, 160Ah rated (20 hour rate), factory test shall be carried. (The supplier shall make all necessary arrangements for factory testing of the batteries prior to dispatch. The batteries shall be supplied only after successful completion of the prescribed factory tests and submission of the relevant test reports.).	
3	Resistance of a Single battery should be less than 4.5 mΩ (fully charged at 27°C) (Proof shall be attached)	
4	Short Circuit Current: Minimum 2900 A as per IEC requirements.	
5	All Batteries Should be of single (same) Manufacturing/ production batch/lot and within the 45 days of production at the time of delivery at IUCAA, Pune.	
6	**Warranty:** 36 months from the date of satisfactory Installation & Commissioning at site.	
7	In case of defective Batteries, the supplier will have to replace it with new of same specifications within 24 hrs during warranty period.	
8	24*7 Support shall have to be available during the warranty period. Battery replacement shall have to be done within 38 hrs from the time of lodging of complaint.	
9	The project shall have to be completed latest by 60 days from the date of receipt of Purchase order.	
10	An authorized official of 'IUCAA' should acknowledge delivery of the Batteries.	
11	Installation and commissioning is deemed to be completed when Batteries as specified in the Purchase Order are connected to the UPS and becomes fully functional.	
12	In case of failure on the part of the Supplier to adhere to the time schedule, the Liquidated Damage condition shall be invoked by 'IUCAA' as per tender conditions.	
13	The Batteries shall be supplied, installed and commissioned under the supervision and guidance of ‘IUCAA’ officials and the UPS OEM.	

14	Acceptance Testing: The Supplier will deliver the Batteries as advised at the time of placing the Purchase Order.	
15	The installation certificate containing particulars of the Batteries, capacity, etc., signed by the supplier will also be signed by authorized 'IUCAA' official and that installation certificate will be handed over to the 'IUCAA' after the Installation.	
16	Safety: The contractor is fully responsible for safety precautions and any accident that may take place to his staff during the execution of the work and all expenses for his medical treatment are to be borne by the contractor.	
17	**Damage to IUCAA Property:** All required repairs, patchwork, etc. to restore any damages caused to IUCAA property during the execution of work or during the warranty period shall be carried out by the contractor.	
18	**Testing/Commissioning:** On successful completion of Supply, Installation and Testing, document (Installation report) needs to be submitted by the bidder. The same document will be signed by the bidder and IUCAA representatives.	
19	The bidder shall submit the manufacturer's datasheet for the quoted batteries, clearly indicating the internal resistance, short-circuit current rating, and operating temperature range of the offered battery.	
20	Operating Temperature Range: -5°C to + 45°C.	
21	The bidder shall comply with the requirement for the design, fabrication, supply and installation of new battery racks as specified in the relevant BOQ item. The proposed racks shall be suitable for accommodating the proposed batteries, including all associated materials, hardware, accessories and installation works required for proper fitment, without any additional cost to the Client. The rack design and arrangement shall be subject to the approval of the Client, whose decision regarding suitability and acceptability shall be final and binding.	
Note	**The above-requested data shall be filled in completely and accurately. Partial, incomplete, or insufficient information may result in the rejection of the bid.**	

Seal & Signature of Bidder

ANNEXURE-III

Sr. No.	General Requirements	Compliance (YES/NO)
1	Battery container and cover shall be made of flame-retardant material conforming to UL 94 V. The offered SMF VRLA batteries shall conform to IEC 60896-21, IEC 60896-22, IS 15549 (latest editions), and shall be suitable for stationary UPS applications.	
2	The work herein specified shall be performed by fully competent workmen in a thorough professional manner. All materials furnished by the contractor shall be new, and shall conform to applicable Indian standards or any international standard. Cleaning of premises after completion of work.	
3	The complete responsibility of completion of scope of work shall be of the bidder firm only to carry out works as per the scope of tender. No bidder firm or its subsidiary firm or its parent firm shall be allowed to submit alternate or partial bids. The bidder shall produce a authorisation certificate for installation from the OEM.	
4	The warranty period of entire work shall be minimum for **thirty six calendar months (Minimum 3 year)** from the date of successful completion of **commissioning.**	
5	All goods or material shall be supplied strictly in accordance with the specifications. No deviation from such specifications of these conditions shall be made without IUCAA's agreement in writing. All materials furnished by the successful bidder pursuant to the Order (irrespective of whether engineering/design or other information has been furnished, reviewed or approved by IUCAA) are required to be guaranteed to be of the best quality of their respective kinds (unless otherwise specifically authorized in writing by IUCAA) and shall be free from faulty design to the extent such design is not furnished by IUCAA. The goods/material used by the successful bidder and its workmanship should be of proper quality so as to fulfill in all respects, the operating conditions and other requirements specified in the order.	
6	If any trouble or defect originating from the design, materials, workmanship or any materials arise during warranty period and bidder firm is notified thereof, the bidder at his own expense (including freight, duty and customs for items sent for repair) and at no cost to IUCAA, as promptly as possible make such alterations, repairs and replacement as may be necessary to permit facilitate the functioning of the equipment in accordance with the specifications. The warranty period of repaired or replaced goods shall be extended for a period equal to the turnaround time (out of service period).	

7	Bidder firm shall obtain guarantee/warranty certificates and declaration from Original Manufacturer for requisite period and provide /extend all guarantee/warranty certificates from Original Manufacturer in case of supplies to IUCAA.	
8	Bidder firm shall be overall responsible for guarantee/ warranty to IUCAA and shall coordinate with respective Original Manufacturer and suppliers for effective guarantee/warranty at its own cost.	
9	The Bidder shall replace any parts/accessories, found defective during the warranty period without any charges whatsoever to IUCAA.	
10	During the warranty period bidder shall replace the damaged battery within 24 Hrs. If any delay in replacing of a damaged battery is beyond this period, IUCAA will take suitable action.	
11	The Contractor shall replace all the faulty & functionally not acceptable components/ parts/ at contractor's cost.	
12	The Contractor shall use valid calibrated tools, equipment, etc.during project execution.	
13	Contractor shall attend the remedial job immediately on observation /receipt of complaint.	
14	The contractor shall comply with all labour regulations and is required to follow all the guidelines prescribed by concerned authority i. e. Regional Labour Commissioner/Central Advisory Contract Labour Board, etc.	
15	The contractor is fully responsible for safety precautions, and any accident that may take place to his labour during the execution of the work and all expenses for his medical treatment is to be borne by the contractor. Provision of Contractor All Risk Insurance Policy must be adhered in this regard.	
16	Mention a Brand/Model& attach manufacturer's datasheet for the quoted AC Cables.	
17	Mention a Brand/Model& attach manufacturer's datasheet for the quoted Cable Trays	
18	Mention a Brand/Model& attach manufacturer's datasheet for the quoted Remote Alarm Panel	
Note	**The above-requested data shall be filled in completely and accurately. Partial, incomplete, or insufficient information may result in the rejection of the bid.**	

The terms and conditions given under Annexure-III are here by complied and agreed.

Seal & Signature of Bidder

ANNEXURE-IV

Sr. No.	Technical Parameter	Tender Requirement	Bidder Compliance (Yes/No)	Offered Specification / Remarks
1	Cable Type	Single-core flexible Uninyvin cable, suitable for UPS/battery-bank interconnection.		
2	Conductor	Annealed tinned copper, Class-5 flexible conductor, conforming to IEC 60228 / IS 8130 or equivalent applicable standard		
3	Insulation	Heat-resistant PVC insulation suitable for continuous operation up to 105°C		
4	Protective Layer	Fiberglass and nylon yarn braided protective layer, providing suitable mechanical and thermal protection		
5	Outer Finish	Nylon lacquered finish or equivalent protective coating		
6	Voltage Rating	Suitable for 600 V DC nominal & 750V max. UPS battery system, with adequate voltage margin and as recommended by the UPS manufacturer		
7	Flexibility	Suitable for battery-to-battery and battery-bank interconnections and routing within battery racks		
8	Application	Suitable for UPS battery-bank interconnection / DC power applications		
9	Standards & Testing	Conforming to relevant applicable Indian/IEC standards; manufacturer's test certificate/report shall be provided wherever applicable		
10	Manufacturer	Approved cable manufacturer; manufacturer's datasheet shall be submitted with the offer		
11	Cable Size	As specified in BOQ, with adequate current-carrying capacity and conductor resistance suitable for the application		
12	Make/Model	Make and exact cable type/model shall be clearly indicated by the bidder		
	Note: The above requirements specify the minimum technical characteristics of the cable. Equivalent or superior construction and performance shall be acceptable, subject to submission of the manufacturer's technical datasheet and supporting documents. The bidder shall clearly indicate compliance against each parameter. Mere mention of "Complied" without supporting technical details may not be considered sufficient.			

ANNEXURE-V		
Sr. Nos.	**Item**	**Approved Brands**
1	**SMF VRLA Batteries**	Amaron Quanta, Panasonic, Exide NXT+
2	**DC Uninyvin cables**	IGI Cables, Apar, Polycab, Miracle
3	**AC Power, communication & Control Cables**	Polycab, Gloster, Finolex, KEI
4	**Lugs & Glands**	Braco, Dowell's
5	**Fuse**	Eaton Bussmann, Mersen
6	**MS/carbon steel**	SAIL, JSW, TATA Steel, JSPL