



**SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE (SITARC)**

83 & 84, Avarampalayam Road, K. R. Puram Post, Coimbatore – 641 006

Phone: 91 9487580473, 0422 2560473, 9487740473

E-mail: sitarcinfo@sitarc.com; sitarclab@gmail.com

Website: [www.sitarc.com](http://www.sitarc.com)

**Notice Inviting Tender**

**Tender Notice No: SLPP/ATSEM-EQPT/2024-25/002**

We are inviting **short term tender** for the Supply, Installation, Commissioning and Maintenance of Fully Automated Test System for Testing of Electric Motors using Regenerative Type Dynamometer for SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE (SITARC), 83 & 84, Avarampalayam Road, K. R. Puram Post, Coimbatore – 641 006.

Regard to the same sealed short-term tenders in two bid cover system - Techno-Commercial bid and Price bid is invited.

The “**Authority**”: The Director, SITARC, Coimbatore, intends to select a firm for the supply of above said items based on the Quality and Cost Based Selection (QCBS) process described in detail in the tender document on the portal [www.sitarc.com](http://www.sitarc.com) & [www.tendersontime.com](http://www.tendersontime.com) as per the timelines given in the schedule in Table 1 of Appendix I.

The tender document can be downloaded from the websites [www.sitarc.com](http://www.sitarc.com) and [www.tendersontime.com](http://www.tendersontime.com) (under the Tenders Categories – Free Tenders). The cost of Tender document downloaded from the website will have to be paid in Demand Draft (DD) in favour of SITARC payable at Coimbatore and submitted along with tender document.

The bidders responding to this Tender Document need to pay Earnest Money Deposit according to the schedule in the TD.

## SITARC

TD process for the Authority shall be valid even if there is only one qualified bidder, provided that the bidder qualifies according to the criteria stated.

The Techno- Commercial Bid shall be kept in Envelope – A and the Price Bid shall be kept in Envelope – B. It may strictly informed that nothing shall be provided except the price details in Envelop – B, all the envelope A and B (Properly Sealed and Signed) are to be kept inside in an outer envelope of bigger size with properly sealed and signed.

The tender may be cancelled, withdrawn or postponed at any time by SITARC without assigning any reason.

The comments and suggestions provided by the Bidder on the Tender Notice/Terms of Reference are not binding and shall not affect the Notice unless the Authority issues a corrigendum or addendum on the web portal / email.

Thanking You

With Regards,

The Director,  
SITARC,  
Coimbatore.

## Appendix I

### Schedule of the selection process and on-boarding of the vendor:

All times are in Indian Standard Time (IST) and no exceptions will be made for late submissions. The Authority will endeavour to follow the schedule below;

**Table - 1**

Sl. No	Description of milestones	Latest by
1.	Date of Invitation for bids	27-07-2024
2.	Pre-bid meeting (PBM) In person	31-07-2024 (11.00 AM)
3.	Due date & time for downloading the bid documents	10.08.2024 (5.00 PM)
4.	Bid Due Date (BDD) & time for submission of bids	12-08-2024 (10.00 AM)
5.	Date of opening of Techno commercial Bid	12-08-2024 (11.00 AM)
6.	Date of opening of Price Bid	19-08-2024
7.	Date of finalising successful bidder	21-08-2024
8.	Communication to successful bidder and commencement of work	22-08-2024
9.	Issue of LOA to successful bidder	23-08-2024
10.	Submission of Security Deposit	26-08-2024
11.	Signing of agreement	30-08-2024
12.	Bid validity	3 months (90 days) from the BDD.
13.	EMD to be paid on DD/Bank Guarantee (BG)	INR 8,00,000/-

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Sl. No	Description of milestones	Latest by
14.	Security Deposit	A security deposit at the rate of 2 % of the total cost quoted in the form of DD/BG.
15.	Cost of the Tender Document	Rs.1000 (Including 18 % GST)
16.	Web Portal	<a href="http://www.sitarc.com">www.sitarc.com</a> & <a href="http://www.tendersontime.com">www.tendersontime.com</a>
17.	Location of Pre-bid Meeting and Submission of Bids	SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE (SITARC),83 & 84, Avarampalayam Road, K. R. Puram Post, Coimbatore - 641 006.
18.	Material Delivery Location	SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE (SITARC),83 & 84, Avarampalayam Road, K. R. Puram Post, Coimbatore - 641 006

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**Bidders must fulfil the following prerequisites:**

Sl. No	Pre-Qualification (PQ) Criteria
1	Bidder should be registered in India under the Companies Act/ LLP Act / Firm Act and should have been in existence for at least three years on the date of publication of tender.
2	The annual turnover of the bidder in any one of the three previous financial years (FY 21-22, FY 22-23, FY 23-24) shall be 3 Crores.
3	The bidder should have completed at least two similar projects in the financial years (FY 21-22, FY 22-23, FY 23-24, FY 24-25).
4	The Bidder should not have been blacklisted by Government of India and any other State Government in India or undertakings/ entities under/ owned by the Government as on bid submission date.
5	EMD/ Bid Security should be submitted Rs.8,00,000/- price through DD or Bank Guarantee (BG). Bidders with a valid Udyam / NSIC certificate will be exempted from the payment of EMD, however, the certificate be valid as on date of bid submission.

**Note:** Compliance statement (as per format in PRE-QUAL-1 Compliance Statement for Prequalification Criteria) needs to be submitted by the bidder along with the tender document.

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## Disclaimer

1. The information contained in this Tender document provided to the Bidders, by the Authority, or any of their employees or advisors, is provided to the Bidder(s) on the terms and conditions set out in this Tender document and all other terms and conditions subject to which such information is provided.
2. The purpose of this Tender document is to provide the Bidder(s) with information to assist in the formulation of Tenders. This Tender document does not purport to contain all the information each Bidder may require. This Tender document may not be appropriate for all persons, and it is not possible for the Authority to consider the business/investment objectives, Commercial situation and particular needs of each Bidder who reads or uses this Tender document. Each Bidder shall conduct its own investigations and analysis and should check the accuracy, reliability and completeness of the information in this tender document and where necessary obtain independent advice from appropriate sources.
3. The SITARC Authority and its employees make no representation or warranty and shall incur no liability under any law, statute, rules or regulations as to the accuracy, reliability or completeness of the Tender document.
4. The Authority may, in its absolute discretion, but without being under any obligation to do so, update, amend or supplement the information in this Tender Document.
5. The Authority accepts no liability of any nature whether resulting from negligence or otherwise however caused arising from reliance of any bidder upon the statements contained in this Tender.
6. The Authority reserves the right to reject all or any of the Tenders and cancel or suspend the bid without assigning any reasons whatsoever.
7. The issue of this Tender does not imply that the Authority is bound to select a bidder or to appoint the selected bidder, as the case may be, for the consultancy.
8. The bidder shall bear all costs associated with or relating to the preparation and submission of its Tender and attending various meetings thereof. The Authority shall not be liable in any manner whatsoever for the same or for any other costs or other expenses incurred by the bidder in preparation or in submission of the Tender, regardless of the conduct or outcome of the selection process.

## SITARC

### Section 1: Introduction

Scientific and Industrial Testing and Research Centre (SITARC), a renowned laboratory is established in the year of 1987.

SITARC is recognized by Bureau of Indian Standards (BIS) in its first year 1987 itself to test pumps and motors, Bureau of Energy Efficiency (BEE) & Ministry of New and Renewable Energy (MNRE).

It is accredited by National Accreditation Board for Testing and Calibration Laboratories (NABL) in accordance with ISO / IEC 17025:2017 for its facilities in the field of Testing and Calibration.

The Department of Scientific and Industrial Research (DSIR), Ministry of Science and Technology (MST), New Delhi is given recognition as a research laboratory from the year of 1988 onwards.

## Section2: Instruction to Bidders (ITB) and Information Sheet

### A. GENERAL PROVISIONS

#### 1. Definitions

- a. "Applicable Law" means the laws and any other instruments having the force of law in India and specifically Tamil Nadu, as they may be issued and in force from time to time.
- b. "Authority" means Tender inviting authority i.e., The Director – SITARC.
- c. "SITARC" means Scientific and Industrial Testing And Research Centre.
- d. "Bidder" means an Entity that submits a bid.
- e. "PBM" means Pre-bid Meeting.
- f. "Contract" means a legally binding written agreement signed between the Authority and the successful Bidder and includes all additional documents as may be specified by the Authority.
- g. "Information Sheet" means an integral part of the Instructions to Bidders (ITB) Section 2 that is used to reflect specific assignment conditions to supplement, but not to over-write, the provisions of the ITB.
- h. "Day" means a calendar day including Sunday and National Holidays.
- i. "Entity" means a Firm/ Company with a distinct legal identity.
- j. "In writing" means communicated in written form (e.g., by letter, e-mail, including, if specified in the Information Sheet, distributed) with proof of receipt;
- k. "ITB" (this Section 2 of the TD) mean the Instructions to Bidders that provides the Bidders with all information needed to prepare their Tenders.
- l. MSME means an industry defined as per the Government of India Classifications.
- l. "TD" means this Tender Document prepared by the Authority for the selection of Vendor.
- m. "TB" means the Techno commercial BID of the bidder.
- n. "PB" means the Price BID of the bidder.
- o. "BG" means Bank Guarantee.
- p. "SD" means Security Deposit.
- q. "Vendor" means a legally established entity/ entities that may supply equipment / instrument / Test System to the SITARC under the Contract / Purchase Order.

## 2. Introduction

2.1. The Authority named in the Information Sheet intends to select a Bidder in accordance with the method of selection specified in the Information Sheet.

2.2. The Bidders are invited to submit a Techno commercial Bid for the items named in the Information Sheet and will be the basis for selection before the commencement of opening Commercial Bid.

2.3. The Bidders should familiarize themselves with the local conditions and take them into account in preparing their bids, including attending a pre-bid meeting if one is specified in the Information Sheet. Attending any such pre-bid meeting is optional and is at the Bidder's expenses.

## 3. Terms and Conditions - General

3.1. Tender documents shall be issued by The Director, SITARC, Coimbatore to manufacturers / authorized agents. The Director, SITARC, Coimbatore will be the tender issuing authority.

3.2. Modifications, if any, made in the tender documents will be by addendum and shall be uploaded in SITARC website, copies of which will be sent in duplicate to each bidder before the due date of the tender. One copy of this Addendum should be signed, sealed and submitted along with the techno commercial bids. The bidder shall not make any additions / deletions to or amend the text of the documents except in so far as may be necessary to comply with any addenda issued. The bidders shall use only tender documents as issued for submitting their bid and shall comply with terms and conditions mentioned therein.

3.3. The tender document shall be duly signed by the authorized person of the supplier on all pages without any deletion or addition other than addenda released.

**Note: The bidder shall submit the bid in duplicate duly signed.**

3.4. The full name of the person authorized to file the tender, designation, current and main office address, Phone/Mobile Number and E-mail shall be indicated in the tender.

3.5. Tenders sent through E-mail and soft copies will not be entertained.

3.6. SITARC will not be responsible for any typographical errors/ ambiguity/ additions / omissions committed by the bidder while filling up of the tender.

**3.7.** Submission of a bid by a tenderer implies that the bidder has read all terms and conditions, and has made himself aware of the scope and specifications of the items to be supplied, availability of materials, local conditions and other factors bearing on the execution of the supply.

**3.8.** The bidder shall be deemed to have full knowledge of documents and no extra charges consequent on any misunderstanding or otherwise shall be allowed.

**3.9.** Any queries regarding the tender document and discrepancies shall be directed to the Tender Issuing Authority in writing the letter by registered post / by email before the date of pre-bid meeting. The Tender Issuing Authority may issue all clarifications, interpretations, meanings and specific directions, if any after pre bid meeting, in the form of an addendum in duplicate in writing to all the bidders and shall be uploaded in SITARC website. One copy of the same shall be returned duly signed and seal affixed along with the bids.

**3.10.** Intending bidders, who have downloaded Tender Documents from the said websites are advised either to remain in touch with Tender Issuing Authority, SITARC, through writing or visit said website at intervals deemed fit, so that they will not get left out from being informed as and when addenda / corrigenda/ clarifications, interpretations, meanings and specific directions, if any, are issued.

**3.11.** The bidder shall be deemed to have satisfied himself before tendering as to the correctness and sufficiency of his tender and about the rates quoted by him and cover all his obligations under the tender.

**3.12.** Bids submitted by manufacturer's authorized agents (copy of manufacturer's authorization letter to be enclosed) only shall be considered.

**3.13.** The bidder should have been meritable in last 3 years for supply of tender item from the tender date.

**B. PREPARATION OF TENDER DOCUMENT**

<b>4. General Consideration</b>
4.1. In preparing the TD, the Bidder is expected to examine the TD in detail. Material deficiencies in providing the information requested in the TD may result in rejection of their Tender.
<b>5. Cost of Preparation of Tender</b>
5.1. The Bidder shall bear all costs associated with the preparation and submission of its Tender, and the Authority shall not be responsible or liable for those costs, regardless of the conduct or outcome of the selection process. The Authority is not bound to accept any Tender and reserves the right to annul the selection process at any time prior to Contract award, without thereby incurring any liability to the Bidder.
<b>6. Language</b>
6.1. The Tender, as well as all correspondence and documents relating to the Tender exchanged between the Bidder and the Authority shall be written in the language specified in the Information Sheet.
<b>7. Eligibility Criteria</b>
<b>7.1. In case the bidder is an Original Equipment manufacturer, they shall have to furnish the following:</b> <ul style="list-style-type: none"><li>i. The Tenderer should be a registered legal entity.</li><li>ii. The Tenderer should have minimum three years of experience in manufacturing of item mentioned in the Annexure III. A duly attested photocopy of Manufacturing License for the products approved by the Licensing authority of the country of origin for each and every product quoted. The license must have been renewed up to date and the item quoted shall be clearly highlighted in the license.</li><li>iii. The tenderer should have supplied minimum of two units in India and one during last / current financial year.</li><li>iv. The Tenderer should furnish performance statement/ declaration giving list of major supplies effected to firms in India with supporting documents during the past three years giving</li></ul>

the details of purchaser's name and address, quantity supplied & whether the supply was made within the delivery schedule.

v. The documents in proof of the above shall be attached with the "Techno commercial Bid" envelope.

**7.2. In case the bidder is the Authorized Dealer/ Agent/ Distributor quoting on behalf of their Principal, they shall have to furnish the following:**

- i. The Tenderer should be a registered legal entity.
- ii. The Tenderer should have minimum three years of experience in trading/ selling & distributing of item mentioned in the data sheet. Valid authorization certificate from their principal. Documents to indicate the precise relationship between their principal will be given preference.
- iii. The Tenderer should quote with tender, specific authorization from their principal.
- vi. The tenderer should have supplied minimum of two units in India / Global and one during last / current financial year.
- iv. The Tenderer should furnish performance statement/ declaration giving list of major supplies effected to firms in India with supporting documents during the past three years giving the details of purchaser's name and address, quantity supplied & whether the supply was made within the delivery schedule.
- v. The Tenderer should submit Manufacturer's Test Certificate & Guarantee / Warranty Certificate with each lot of supply. (Note: Enclose certificate of origin of machinery.)
- vi. The documents in proof of the above should be attached with the "Techno commercial Bid" envelope A.

**8. Earnest Money Deposit**

**8.1.** Tender documents must be accompanied by Earnest Money Deposit (EMD) at Rs.8,00,000/- in the form of DD / Bank Guarantee (BG) in favour of payable at SITARC, Coimbatore. In case of bank guarantee, Refer the FORM FIN-5 in this tender document is to be used for furnishing bank guarantee, the same shall only be used without any deviations

whatsoever. Failure to adhere to this norm will lead to rejection of tender. Note that, the bank guarantee format given is to be used only for EMD. EMD shall be paid in Indian currency only.

**8.2.** EMD is exempted for Micro and Small Enterprises (MSEs) as defined in MSE Procurement Policy. The valid Udyam / NSIC certificate shall need to be submitted.

**8.3.** The EMD of unsuccessful bidders will be returned on or before the 30<sup>th</sup> day after the award of the contract without any interest.

**8.4.** The EMD for successful bidder will be returned after receiving the security / performance deposit. (Read the details under the heading on security / performance deposit Clause No. 24).

**8.5.** The EMD shall be forfeited if the bidder withdraws his offer after the tender opening, during the bid validity period or after the award of contract. SITARC, shall not be liable for payment of any interest on EMD any depreciation thereof.

**8.6.** Any offer not accompanied with the EMD shall be rejected summarily as non-responsive.

## **9. Documents Comprising the Tender**

**9.1.** The Tender shall comprise the documents and forms listed in the Information Sheet.

## **10. Tender Validity**

**10.1.** The Information Sheet indicates the period during which the Bidder's bid must remain valid after the Tender submission deadline.

**10.2.** The bidder shall not withdraw or revise or alter any conditions, rate(s) quoted within this stated period.

**10.3.** During this period, the Bidder shall maintain its original techno commercial bid and the Commercial bid without any change.

## **11. Extension of Validity Period**

**11.1.** The Authority will make its best effort to complete the tender process within the Tender's validity period. However, should the need arise, the Authority may inform, in writing, all Bidders who submitted Tenders prior to the submission deadline to extend the Tender's validity.

**11.2.** If the Bidder agrees to extend the validity of its Tender, it shall be done without any change in the original Tender.



11.3. The Bidder has the right to refuse to extend the validity of its Tender (without forfeiture of the EMD) in which case such Tender will not be further evaluated.

**12. Pre-Bid Meeting**

12.1. There will be a Pre-Bid Meeting Refer Table 1 for Date, Time and Location, during which the prospective tenderers can get clarifications about the tender. The tenderers shall send their queries in writing (if any) so as to reach the SITARC at least two days prior to the pre-bid meeting date. The tenderers may also check the website indicated in Table 1 for any up-to-date information like change in date/ time/ venue etc., of pre-bid meeting as the SITARC may not be able to identify and communicate with the prospective bidders at this stage.

**13. Techno commercial Bid Format and Content**

13.1. Techno commercial Bid shall be prepared using the Standard Forms provided in Section 3 of the TD and shall comprise the documents listed in the Information Sheet. The Techno commercial bid shall not include any Price bid information. A Techno commercial bid containing material Price bid information shall not be considered.

13.2. The Price bid shall be prepared using the Standard Forms provided in Section 4 of the TD.

**C. SUBMISSION, OPENING AND EVALUATION**

**14. Submission of Tender**

14.1. The Bidder shall submit a signed and complete bid comprising the documents and forms in accordance with Clause 9 (Documents Comprising the Tender). The submission will be done physically by in- person only.

14.2. An authorized representative of the Bidder shall sign the original submission letter in the required format for the Techno commercial bid and Price bid in the TD.

14.2.1. Techno commercial Bid Submission Form (FORM TECH-1) and Price Bid Submission Form (FORM FIN-1) need to be signed physically by the authorized representative.

14.2.2. The authorization, authorizing the Bidder’s representative to sign the bids shall be in the form of a written Power of Attorney attached to the Techno commercial Bid and Price Bid.

**15. Confidentiality**

15.1. From the time the Tenders are opened to the time the contract is awarded / Issue of Purchase Order, the Bidder should not contact the Authority on any matter related to its Tender. Information relating to the evaluation of Tenders and award recommendations shall not be disclosed to the Bidders who submitted the Tenders or to any other party not officially concerned with the process, until the publication of the Contract award information.

15.2. Any attempt by Bidders or anyone on behalf of the Bidder to influence improperly the Authority in the evaluation of the Tenders or Contract award decisions may result in the rejection of the relevant Tender. Such bidders may be subject to the application of prevailing Authority’s sanctions/ penal procedures.

15.3. Notwithstanding the above provisions, from the time of the Tenders’ opening to the time of Contract award publication, if any Bidder wishes to contact the Authority on any matter related to the selection process, it should do so only in writing.

**16. Withdrawal of Bid**

16.1. The Bidder may modify, substitute or withdraw its Bid after submission, provided that written notice of the modification, substitution or withdrawal is received prior to the BDD and

time. No Bid shall be modified, substituted or withdrawn by the Bidder on or after the BDD and time.

**17. Opening of Tender**

17.1. The tenders shall be opened by the **Purchase Committee of the SITARC**, at the time, date and venue as given in the “Table-1”.

17.2. Tenders will be opened in the presence of tenderers / representatives who choose to attend on the specified date and time.

17.3. The Envelope A superscribed as “Techno commercial Bid” will be opened first. The Envelope “B” superscribed as “Price Bid” will be opened only if the documents required in the “Techno commercial Bid” are found in order as per tender conditions.

17.4. SITARC reserves the right to visit the manufacturer’s / distributor’s premises to verify the authenticity and capability of the Tenderer.

17.5. If “Techno commercial Bid” is not submitted along with the required particulars, then the “Price Bid” envelope will not be opened and the tender will be rejected.

17.6. The Techno commercial Bid in Envelope A will be opened at the time, date and venue as given in the “Table-1” by the SITARC in the presence of such of those tenderers or their representatives. The Tenderers or their Representatives who choose to be present at the time of opening of the Tender should bring a letter of authority from the Tenderers, whom they represent to identify their Bonafide.

17.7. Only after evaluation of the techno commercial bids are completed the Price Bid will be opened. The date of opening of the Price bid is as per the schedule given in Table 1 or any other date as decided by the Purchase Committee of SITARC and whatever the decision regarding the Price bid opening, it will be communicated to the bidders who are qualified for the techno commercial bid.

**18. Techno commercial Bid Details**

18.1. Compliance to technical specifications of the machinery/equipment/items for which bids are submitted as given in Annexure IV. Compliance shall be in same sequence as of specifications mentioned in documents. The range specified in the technical specifications should have min. or max. as the case may be.

18.2. Proof that the bidder is (i) either manufacturer or (ii) an authorized distributor/ authorized dealer or (iii) reputed supplier for the machinery/ equipment/ items for which the bid is submitted. Power of attorney/ authority letter authorizing the person who has filed the tender, if applicable for which the format is given in FORM FIN-6.

18.3. List of customers/ organizations in India, along with Contact Person, address, Tel. No./Mobile No., Fax No., email id, etc., to which similar machinery/ equipment/ items were supplied & successfully commissioned.

18.4. The probable life expectancy of the equipments as specified in the tender under normal conditions of operation should be minimum 15 years.

18.5. All the details of pre-installation requirements including space, power supply, environmental conditions, special structures, standard operating practices / operating manuals, preventive & regular maintenance schedule recommendation charts, if any.

18.6. The Tenders should be accompanied by all the particulars requested in the schedule including process flow chart / techno commercial specifications, specifications of the material used, dimensions, drawings, foundation drawings etc. of the respective item quoted if necessary.

18.7. Tenders are not transferable.

18.8. Unclear tenders will not be accepted.

18.9. Original Tender document duly signed by the authorized person on all pages including addenda without any deletion or addition other than addenda / corrigenda released.

**Compliance to techno commercial specifications of the equipment / item for which bids are submitted:**

18.10. Authorized person shall specify "all the above technical specifications will be complied with" and sign in respective pages of the Tender document, where specification of the equipment / items is given and also give the exact specifications complied with the equipment / item.

**Covering letter, in the letter head of the bidder, providing confirmation to the following:**

18.11. The Guarantee / Warranty period mentioned as per the Cl.No.33 after installation and commissioning of the equipment/item.

18.12. Confirmation about the supply of Certified Reference Materials / Samples for checking the performance of the item wherever appropriate.

18.13. The details regarding the service centres, stocking of spares etc.,

18.14. Addenda / clarification issued by SITARC before due date of tender, duly signed by the authorized person.

18.15. A letter indicating assumptions, criterion, techno commercial alternative etc., if any. However, the alternatives suggested by the bidder may not be taken as the basis for techno commercial / commercial evaluation of the bids.

18.16. A copy of the certificate for the calibration of the similar makes and model of equipment / item for which bid is submitted from an accredited calibration laboratory or National Physical Laboratory wherever applicable.

18.17. Profile of bidder's organization.

18.18. Complete Bill of Material without cost for which the format is given in FORM TECH -8.

### **19. Price Bid Details**

19.1. The rates should be quoted in Indian Rupees (INR), both in figures and words. The rates quoted shall be inclusive of Cost, Packaging, Freight, Insurance, erection & commissioning, testing, training to techno commercial staff to operate the machinery/ equipment etc. up to our premises, Basic price of supply to be mentioned with GST/ Customs duty, freight and forwarding charges, handling charges and any other tax/ charge as applicable to be mentioned separately.

19.2. The bidder shall also show the amount of each item, the total of each section and the grand total of the whole tender as specified. Corrections (if any) shall be made out by crossing out, initialling, with date and rewriting and overwriting if any, shall also be initialled. If the bidder does not accept the correction of the errors, his/her/its tender documents will be rejected.

### **20. Tender Evaluation**

20.1. The Bidder is not permitted to alter or modify its Tender in any way after the BDD and time. While evaluating the Tenders, the technical committee will conduct the evaluation solely on the basis of the submitted Techno commercial Tenders, initially.

**21. Evaluation of Techno commercial Tenders**

21.1. The Technical committee shall evaluate the Techno commercial Tenders on the basis of their responsiveness to the TD applying the pre-qualifying criteria, evaluation criteria, and point system specified in the Information Sheet. Each responsive Tender will be given a techno commercial score. A Tender shall be rejected at this stage if it does not respond to important aspects of the TD.

21.2. The bidders will be shortlisted based on their techno commercial scores. The shortlisted bidders will be contacted for document verification with originals wherever required.

**22. Price Bid and Overall Evaluation**

22.1. The Purchase Committee shall open the Price Bid only for those bidders who are techno commercially qualified on the basis of the scores evaluated by the technical committee.

22.2. The overall score of the bidders will be a weighted average of their techno commercial bid and price bid scores as per the criteria specified in the Information Sheet Clause 21.1.

**D. AWARD OF CONTRACT AND AGREEMENT**

**23. Acceptance Award of Purchase Order**

23.1. A Letter of Acceptance (LOA) will be issued to the successful bidder in the format prescribed in the FORM TECH-7 along with Security Deposit (SD) before releasing of the Purchase Order (PO) by SITARC.

The details about the Security Deposit (SD) are prescribed in Clause no. 24.

23.2. An agreement shall be signed upon furnishing of the SD between SITARC and the successful bidder.

23.3. The SITARC reserves all rights to reject any tenderer without assigning any reasons thereof and the same shall not be questioned on any ground, the SITARC reserves the right to cancel any or all tenders without showing any specific reason.

**24. Performance Security Deposit**

24.1. A security deposit at the rate of 2 % of the total cost quoted in the form of DD/BG shall be collected from the successful bidder and shall be held back as security deposit till successful installation, trial and training and subsequently as performance security deposit till the end of completion of the free services.

24.2. In case of bank guarantee, the format given under the heading of "PROFORMA FOR BANK GUARANTEE FOR SECURITY DEPOSIT AND PERFORMANCE SECURITY" shall be issued. The amount shall be returned after 60 days, after the completion of all contractual obligations including Guarantee / Warranty obligations or completion of the free services.

24.3. If the performance is not satisfactory or warranty obligation or free service are not completed, the security deposit amount will not be returned. SITARC shall not be liable for payment of any interest on security/performance deposit or any depreciation thereof.

**25. Authority of Signing**

25.1. If the tender is submitted by an individual, it shall be signed by him. If the tender is submitted by a proprietary firm, it shall be signed by the proprietor.

If the tender is submitted by a partnership firm, it shall be signed by all the partners of the firm or by a partner holding the power of attorney for the firm for signing the tender, in which case, a certified copy of power of attorney shall accompany the bid as prescribed in FORM FIN-6.

If the tender is submitted by a limited company or a corporation, it shall be signed by a duly authorized person or the person holding the power of attorney for signing the tender, in which case a certified copy of the power of attorney shall accompany the bid as prescribed in FORM FIN-6.

25.2. The Tenderer must sign and affix their seal in every page of the tender document and the complete signed original tender documents must be submitted in the envelopes. Refer Section 5.

**26. Inspections**

26.1. Pre-dispatch inspection should be arranged by supplier before clearing dispatch of quoted item with his own all expenses (which includes travel and accommodation) during visit by purchaser.

26.2. The supplier shall ensure and demonstrate the system/instrument/equipment's (or mutually agreed between purchaser and supplier) at the supplier's premises.

26.3. However, final acceptance of the system/instrument/equipment's would be done only after successful installation, commissioning and training at Purchaser premises.

**27. Delivery Terms**

27.1. The respective item should be installed and commissioned within the schedule given Annexure III from the date of receipt of the Purchase Order. If the above item is not installed and commissioned within the period specified, the security deposit amount will be forfeited and the tender will be cancelled and loss if any for inviting fresh tenders will be made good from the defaulter.



27.2. However, the bidder has an option to submit the best delivery time prior to the schedule mentioned in Annexure III for the respective item.

27.3. The bidder shall deliver the equipment/items (Door delivery) inside the premises of SITARC, 83 & 84, Avarampalayam Road, K. R. Puram Post, Coimbatore – 641 006, Tamil Nadu, INDIA at good conditions.

27.4. However, the Purchase Committee may provide extension of time if the delay is due to valid reasons as prescribed in Clause 38 under Force Majeure.

## **28. Installation**

28.1. The Equipment/item and accessories are to be installed at Purchaser's Premises.

28.2. The firm has to make the required arrangement for unloading the equipment/ item at site, shifting to the location of installation etc., for which the firm has to bear all the cost. Representative of the firm may visit to quoted equipment/item installation location with prior approval of competent authority to assess these requirements only after receipt of supply/purchase order.

28.3. Supplier shall mention the pre-installation requirements before supply of the equipment/item. SITARC has to do the necessary arrangements for installation of equipment/ item.

28.4. All software / firmware supplied shall be licensed with license key and shall have the licence at free of cost for three years from the date of commissioning. Software / firmware updating option shall be provided.

**Note:** Software / Firmware upgradation support will be also taken into consideration while evaluating the bidder as given in clause 21.1 and information sheet.

28.5. Safety Compliance to international standards/directives on mechanical, electrical and electronics. Provide list of safety standards/directives for which quoted equipment/item.

28.6. All the deliverables should be compatible with equipment/ item for smooth functioning.

28.7. All the deliverables shall be enlisted in a Packing List which shall be attached with Invoice Copy, Delivery Note and shall be affixed on the packing case of main equipment.

<b>29. Commissioning</b>
29.1. Firm has to provide manuals for commissioning, operating, programming and maintenance in English language.
29.2. The firm has to arrange necessary instruments/Equipment's/System to demonstrate the specified accuracies of equipment/item with no cost to Purchaser.
29.3. Commissioning should include demonstration of features and operational features.
<b>30. Service</b>
30.1. The supplier shall have the company trained engineers and should have technical expertise and trained personnel to render "After Sales Service" within 2 days of request.
<b>31. Insurance Commercial details</b>
31.1. Insurance during transportation to be covered from the time of dispatch of asset till the completion of Installation at the buyer premises. The cost incurred towards insurance shall be considered and included while providing commercial bid.
<b>32. Training of Technical Personnel</b>
32.1. The suppliers of the machinery/ equipment should provide adequate training free of cost for technical personnel (minimum of 2 persons) of the SITARC per equipment including trouble shooting etc., and making them confident of operating the equipment independently.
32.2. Training shall be provided at SITARC, 83 & 84, Avarampalayam Road, K. R. Puram Post, Coimbatore - 641 006.
32.3. After final commissioning of equipment/item at premises of Purchaser, a complete training for technical persons (for minimum of 5 Days) in the area of operation, preventive maintenance of system, calibration, installation, customization of software and samples preparation for different items at purchaser's location. The training shall be given at free of cost from the date of commissioning. completion certificate and balance payment as per the terms will be issued on completion of the training as indicated above.

**33. Guarantee/Warranty Period**

33.1. The bidder shall give warranty for **at least one year** in respect of items quoted.

33.2. During the warranty period, regular servicing/ maintenance should be undertaken free of charge, including replacement of defective parts/ travel cost, etc. Subsequently, servicing/ maintenance should be undertaken every **3 months** by the authorized agency of the manufacturer / supplier.

33.3. Delivery of the full replacement or repaired parts shall be provided at free of cost at the factory site without loss of time so that the down time is minimized.

**Note:** Provision of warranty and additional warranty will be also taken into consideration while evaluating the bidder as given in clause 21.1 and information sheet.

**34. Annual Maintenance Contract (AMC)**

**Free AMC:** The bidder shall cover the system, instrument, equipment and items under maintenance contract for one year after the expiry of warranty period without claiming any additional financial charges from the purchaser.

**Chargeable AMC:** Annual maintenance contract (AMC) with spares available and price breakup of AMC for additional 3 years must be quoted along with the offer.

**Note:** It may be noted that the charges towards AMC will be also taken into consideration while evaluating the bidder as given in clause 21.1 and information sheet.

**35. Terms and Conditions**

35.1. In view of high accuracy requirement, it is mandatory that equipment / item should be assembled in original equipment/item manufacturer's own plant. All the bought-out items shall be of standard/OEM make.

35.2. Machine should be brand new and modified equipment/item will not be acceptable. Such case, if it is found at any point of time, Purchaser will reject the equipment/item and will be intimated to the respective authorities.

35.3. The successful bidder has to provide total weight, power supply requirement & layout drawings showing overall dimensions of equipment/item within 30 days after receiving supply purchase order.

## SITARC

<b>36. Additional Specifications/Feature</b>
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36.1. Any specifications or features provided over and above the requirements of SITARC, should be clearly highlighted by the supplier in the attached format in the TD Annexure II and submitted with the bidding document. Due consideration shall be provided for additional specification/features.
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<b>37. Compliance Statement</b>
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37.1. Compliance statement (as per format in FORM TECH-4 Compliance Statement for Technical Specifications) needs to be submitted by the bidder along with the tender document.
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**E. OTHER TERMS AND CONDITIONS**

**38. Force Majeure**

38.1. Failure or delay in the part of tenderer for supply due to force majeure causes enumerated here under shall be considered, provided the supplier produces documentary evidence.

38.2. Any cause which is beyond the reasonable control of the tenderer.

38.3. Natural phenomena, such as floods, drought, earthquakes and epidemics.

38.4. Act of any Govt. Authority, domestic or foreign, such as wars declared or undeclared quarantines, embargoes licensing control on production or distribution restrictions.

38.5. Accident and disruptions such as fire, explosion, increase in power cut with respect to date of tender opening etc.,

38.6. Strikes, slow down and lockouts.

38.7. The cause of force majeure condition will be taken into consideration only if the supplier notifies within 30 days from the occurrence of such eventualities. The purchaser shall verify the facts and grant such extension as the facts justify. For extension due to force majeure conditions, the supplier shall submit his representation with documentary evidence for scrutiny by the purchaser and decision of the purchaser shall be binding on the time. However, the price quoted by the bidder and accepted by the Purchaser shall remain firm during such extended period.

38.8. For the matter of clarity, Force Majeure shall not have any bearing on the price.

**39. Payment Procedure**

39.1. Cost details are to be filled up in the prescribed format as given in FIN - 4 for the equipment and items as applicable, imported / indigenous as the case may be, indicating therein total charges.

39.2. All accessories and startup kit required for installation and commissioning of the equipment are to be specified and to be included in the INR value on door delivery basis. (The equipment/ item will be placed in SITARC. If any short supply is noticed at a later stage, the supplier will take responsibility for supply of the same at free of cost which includes packing and forwarding charges).

39.3. All consumable and spare parts for 3 years and replacement of the broken/damaged parts during the Guarantee / Warrantee period without any charge.

39.4. Broken / damaged parts shall be replaced by the supplier with no additional charges during the guarantee / warrantee period. The list of those items should clearly mention in a separate sheet with cost. These items should not be included in the CIF value.

**39.5. The Terms of Payment:**

The payment will be released as mentioned below.

- 10% of Basic price shall be released as a mobilization advance subject to the submission of BG by the tenderer equivalent to the amount to be paid.
- 40% of the payment shall be released after supply of the equipments at site and acceptance by the authority, Tenderer shall submit the BG equivalent to the amount to be paid.
- 30% of the payment shall be released against successful installation of the equipment at site and acceptance by the authority. Tenderer shall submit the BG equivalent to the amount to be paid. However, the BG obtained towards the amount paid for mobilization advance and supply of equipment shall be released proportionately.
- 10% of the payment shall be released after successful commissioning, performance testing and training at site and accepted by the authority. Tenderer shall submit the BG equivalent to the amount to be paid. However, the BG obtained towards the amount paid for successful installation of the equipment shall be released proportionately.
- 5% of the payment shall be released after completion of three months trail run. Tenderer shall submit the BG equivalent to the amount to be paid, for release of payment immediately after completion of three months trail run. However, the BG obtained towards the amount paid for successful commissioning, performance testing and training shall be released proportionately.
- 5% of the payment shall be released after the completion of warranty period of one year. However, the BG obtained towards the amount paid for successful completion of the trail runs shall be released proportionately.

**40. Saving Clause**

40.1. No suit, prosecution or any legal proceedings shall lie against SITARC for anything that is done in good faith or intended to be done in pursuance of tender. In the event of any dispute arising out of the tender such dispute would be subject to the jurisdiction of the Civil Court Coimbatore.

40.2. If any dispute arises in the contract, the same will have to be finalized in the court of Coimbatore jurisdiction.

**41. Penalty Clause**

41.1. If the bidder fails to install and commission the respective item within the stipulated time or perform the services within the time period specified in the contract, the penalty at 1 % per week or part thereof will be imposed subject to a maximum of 10 % of the total cost of work order unless the delay is due to recognised force majeure conditions.

41.2. Any amendments in the purchase order are addressed to the purchase committee within 5 days from the date of issue of purchase order. Delivery period will be remaining unchanged.

**42. Disputes Resolution**

**Amicable Settlement** - The parties shall use their best efforts to settle amicably all disputes arising out of or in connection with this Agreement or the interpretation thereof. In the event a dispute, differences or claim arises in connection with the interpretation or implementation of this agreement, the aggrieved party shall issue a written notice setting out the Dispute/ differences or claim to the other party, parties shall first attempt to resolve such dispute through mutual consultation. If the dispute is not resolved as aforesaid within 15 days from the date of receipt of written notice, the matter will be referred to the Purchase Committee, whom will take decision within 30 days after such reference. If the dispute is still not resolved the matter will be referred for Arbitration.

**Arbitration** - In case the dispute is not resolved, any party may issue a notice of reference, invoking resolution of disputes through arbitration in accordance with the provisions of the Arbitration Conciliation Act, 1996. Arbitration proceedings shall be conducted in and the award shall be made in English language. Arbitration proceedings shall be conducted in Coimbatore, Tamil Nadu and following are agreed. The arbitration award shall be final and be binding on the Parties, and the Parties agree to be bound thereby and to act accordingly.

The arbitrator may award to the Party that substantially prevails on merit, its costs and reasonable expenses (including reasonable fees for counsel). When any dispute is under arbitration, except for matters under dispute, the Parties shall continue to exercise their remaining respective rights and fulfil their remaining respective obligations under this Agreement.

**43. Disqualification**

**The bid is liable to be disqualified if:**

- 43.1. Not submitted in accordance with this Tender document.
- 43.2. During validity of the bid or its extended period, if any, the bidder increases his quoted prices.
- 43.3. During the bid process, if a bidder indulges in any such deliberate act as would jeopardize or unnecessarily delay the process of bid evaluation and finalization.
- 43.4. Bid received in incomplete form or not accompanied by bid security amount/all requisite documents.
- 43.5. Bid received after due date and time.
- 43.6. Bidder submits conditional bids.
- 43.7. Bidder indulges in canvassing in any form to win the contract and/ or breaches the Integrity and Avoidance of Conflict-of-Interest Pact.
- 43.8. SITARC reserves the right to accept or reject any tender or reject all tenders without giving any reason whatsoever for their decision.
- 43.9. Tenders liable to be rejected are those in which any of the prescribed particulars / information is either missing or incomplete in any respect and / or if the prescribed conditions are not fulfilled. Tenders which are found to be techno commercially non-responsive shall be rejected and their commercial details shall not be considered.
- 43.10. Canvassing in connection with tender is strictly prohibited and tender submitted by bidder who resorts to canvassing will be liable to rejection. Tenders containing specific conditions of the bidder, other than the terms and conditions given in the tender document, and not acceptable to SITARC, are liable to be rejected.
- 43.11. If the validity of the tender is not up to 90 Days from the date of submission of tender document, the tender is liable for rejection.
- 43.12. If the tender document is not duly signed by the authorized person on all pages, the tender is liable for rejection.
- 43.13. SITARC caters to a wide range of customers / stake holders including manufacturers / exporters.



## SITARC

43.14. Before submission of the tender, the prospective bidders are expected to examine techno commercial specifications of the equipment / items required, terms and conditions, etc., given in this tender document. Failure to furnish all information required in the tender document may result in the rejection of the bid.

43.15. It should clearly be noted that all contracts resulting out of entering into a formal agreement / issue of a purchase order for procurement of any item will be interpreted under Indian Laws and for all disputes the jurisdiction will be Coimbatore only.

## F. INFORMATION SHEET

I.General	
ITB Clause	Description
2.1	<p><b>Name of the Authority:</b> The Director, SITARC.</p> <p><b>Address:</b> 83 &amp; 84, Avarampalayam Road, K.R. Puram Post, Coimbatore - 641 006.</p> <p><b>Method of selection:</b> Quality and Cost Based Selection (QCBS)</p>
2.2	<p><b>The name of the assignment is: -</b></p> <p>Supply Installation and Commissioning of Fully Automated Electric Motor Test System Using Regenerative Type Dynamometer.</p>
2.3	PBM will take place in person or through online.
II.Preparation of Tenders	
6.1	English language.
9.1	The Tender shall comprise the following:
13.1	<p>Compliance sheet to prequalification criteria (Form Pre-Qual-1)</p> <p>Supporting documents for pre-qualification criteria if any</p> <p>FORM TECH-1</p> <p>FORM TECH-2</p> <p>FORM TECH-3</p> <p>FORM TECH-4</p> <p>FORM TECH-5</p> <p>FORM TECH-6</p> <p>FORM TECH-7</p> <p>FORM TECH-8</p> <p>Annexure I</p> <p>Annexure II</p> <p>Annexure III</p>
13.2	<p>Annexure IV</p> <p>FORM FIN-1</p> <p>FORM FIN-2</p> <p>FORM FIN-3</p> <p>FORM FIN-4</p>

	FORM FIN-5 FORM FIN-6						
10.1 10.2	Tenders must remain valid for 3 months after the Bid Due Date (BDD).						
III.Submission, Opening and Evaluation							
21.1	Criteria, sub-criteria, and point system for the evaluation of the Full Techno commercial Tenders:						
	<u>Pre-qualification criteria:</u> As mentioned in the Letter of Invitation.						
	The bids submitted by the bidders who clear the pre-qualification round only will be evaluated as per the criteria provided below:						
	<b><u>Evaluation Criteria (100 Points)</u></b>						
	<b>A. <u>Experience (10 Points)</u></b>						
	<table border="1"> <thead> <tr> <th style="background-color: #e0e0e0;">Sl.</th> <th style="background-color: #e0e0e0;">Criteria</th> <th style="background-color: #e0e0e0;">Scoring</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Executing / Installation of two such systems of equal rating (or) specification. The Bidder has to attach the copy of previous supply order for the corresponding equipments / system in India in any one of the three financial years. The Purchaser reserves the right to depute committee / representatives to check the equipment capabilities as per the purchaser's specification during evaluation of Techno commercial Bid.</td> <td> <ul style="list-style-type: none"> <li>• 2 projects (2 points)</li> <li>• 3 projects (6 points)</li> <li>• ≥ 4 projects (10 points)</li> </ul> </td> </tr> </tbody> </table>	Sl.	Criteria	Scoring	1	Executing / Installation of two such systems of equal rating (or) specification. The Bidder has to attach the copy of previous supply order for the corresponding equipments / system in India in any one of the three financial years. The Purchaser reserves the right to depute committee / representatives to check the equipment capabilities as per the purchaser's specification during evaluation of Techno commercial Bid.	<ul style="list-style-type: none"> <li>• 2 projects (2 points)</li> <li>• 3 projects (6 points)</li> <li>• ≥ 4 projects (10 points)</li> </ul>
Sl.	Criteria	Scoring					
1	Executing / Installation of two such systems of equal rating (or) specification. The Bidder has to attach the copy of previous supply order for the corresponding equipments / system in India in any one of the three financial years. The Purchaser reserves the right to depute committee / representatives to check the equipment capabilities as per the purchaser's specification during evaluation of Techno commercial Bid.	<ul style="list-style-type: none"> <li>• 2 projects (2 points)</li> <li>• 3 projects (6 points)</li> <li>• ≥ 4 projects (10 points)</li> </ul>					

<b>B. Sales &amp; Service Support (40 Points)</b>		
<b>Sl.</b>	<b>Criteria</b>	<b>Scoring</b>
1.	On site Guarantee / Warranty (@ free of cost) (Max. 10 Points)	1 <sup>st</sup> year: 2 Points 2 <sup>nd</sup> year: 6 Points 3 <sup>rd</sup> year: 10 Points
2.	Annual Maintenance (@ free of cost) (Max. 10 Points)	1 <sup>st</sup> year: 2 Points 2 <sup>nd</sup> year: 6 Points 3 <sup>rd</sup> year: 10 Points
3.	Calibration of instruments & equipment's (@ free of cost) - (Max. 10 Points)	1 <sup>st</sup> year: 2 Points 2 <sup>nd</sup> year: 6 Points 3 <sup>rd</sup> year: 10 Points
4.	Software Upgradation Support (Max. 10 Points)	Three Years – 4 Points Fourth year – 7 points Five years- 10 Points
<b>C. Class of Accuracy of the Instrument / Equipment's (20 Points)</b>		
<b>Sl.</b>	<b>Criteria</b>	<b>Scoring</b>
1	Torque and Speed Measurement & Control Accuracy (Max. 10 Points)	For 0.2 Class – 2.5 Points For 0.1 Class – 5 Points For 0.05 Class – 7.5 Points For 0.02 Class – 10 Points
2	Power Measurement Accuracy (Max. 10 Points)	For 0.2 Class – 2.5 Points For 0.1 Class – 5 Points For 0.05 Class – 7.5 Points For 0.02 Class – 10 Points

	<b>D. <u>Maximum Rating of Test Beds Covered (30 Points):</u></b>	
	Sl. No	Criteria
	1	Up to 55 kW, 4 Pole
	2	Up to 110 kW, 4 Pole
	3	Up to 160 kW, 4 Pole
	4	Up to 200 kW, 4 Pole
	5	Up to 250 kW, 4 Pole
	Scoring	
		10
		15
		20
		25
		30
	The above-mentioned ranges are indicative only. While evaluation, the maximum rating offered by the bidder will be considered.	
22.2	<ul style="list-style-type: none"> <li>• Tenders for the “Qualified Vendor” during the process of evaluation will finally be ranked accordingly to their combined score of Techno commercial evaluation (Tc) and Price bid offer (Pb) scores.</li> <li>• <b>Pb</b> will be calculated based on project cost as shown in FORM FIN-2.</li> <li>• The weightage given to techno commercial (Tw) and price bid (Pw) offers are as follows: Tw =80% and Pw = 20%.</li> <li>• Combined Total Score = (Tc x Tw) + (Pb x Pw).</li> <li>• The finalizing of the first eligible bidder shall be based on the combined total score. The second, third, fourth and fifth as the case may be highest bidders shall be kept in reserve and may be invited for negotiation in case the first ranked or higher ranked bidder withdraws or fails to comply with requirements, as the case may be.</li> <li>• In the event, if the combined total score is tied then bidder securing the higher techno commercial score will be considered for award of the project.</li> <li>• The Purchase Committee reserves the right, if desires, to negotiate with the bidders for finalization of the bidder for award of purchase order.</li> </ul>	

### Section3: Techno commercial Tender – Standard Forms

FORM	DESCRIPTION
PRE-QUAL-1	Compliance sheet to Prequalification Criteria
TECH-1	Techno commercial Bid Submission Form.
TECH-2	Tender Information Sheet
TECH-3	Bidder's Organization & Experience
TECH-4	Compliance sheet to Technical Specification
TECH-5	Details of the test beds to be offered
TECH-6	Guarantee / Warranty of Affirmation
TECH-7	Letter of Acceptance (LOA)
TECH-8	Bill of Material without Cost
Annexure I	Declaration
Annexure II	Additional Specification / Features
Annexure III	List of Items to be Procured under this tender
Annexure IV	Technical Specification / Requirements of Fully Automated Test System for Testing of Electric Motors using Regenerative Type Dynamometer

**Note:** The bidders may note that their submissions should be arranged appropriately and pages numbered continuously by hand or electronically before submitting the Tender Document. The accuracy and non-repetitive page numbering are crucial in helping the Authority to navigate through the documents easily. If the pages are not numbered and noted correctly in the forms in the submissions, the Authority is not responsible if some detail of relevance is missed while evaluating the submission.

**PRE-QUAL-1**  
**Compliance Sheet to Pre-Qualification Criteria**

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SI No	Descriptions	Compliance to conditions (YES or NO)	In case of non-compliance deviation from the conditions to be indicated in unambiguous term
1.	Bidder should be registered in India under the Companies Act/ LLP Act / Firm Act and should have been in existence for at least three years on the date of publication of tender.		
2.	The annual turnover of the bidder in any one of the three previous financial three years (FY 21-22, FY 22-23, FY 23-24, FY 24-25) shall be 3 Crores.		
3.	The bidder should have completed at least two similar projects in the financial years (FY 21-22, FY 22-23, FY 23-24, FY 24-25).		
4.	The Bidder should not have been blacklisted by Government of India and any other State Government in India or undertakings/ entities under/ owned by the Government as on bid submission date.		

**FORM TECH-1**  
**Techno - Commercial Bid Submission Form.**

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Date:

To:

Scientific and Industrial Testing And Research Centre (SITARC),  
83 & 84, Avarampalayam Road, K.R. Puram Post,  
Coimbatore – 641 006.

Ref: SITARC - Tender No. SLPP/ATSEM-EQPT/2024-25/002.

Dear Sir,

We, the undersigned, declare that:

- a. We have examined and have no reservations to the Tender Documents, including Addenda;
- b. Our Tender shall be valid for a period of 90 (Ninety) days from the date fixed for the Tender submission deadline in accordance with the Tender Documents, and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
- c. If our Tender is accepted, we commit to accept terms with regard to Performance Guarantee/Warranty in accordance with the Tender Documents;
- d. We are not participating, as a Tenderer, in more than one Tender in this Tender process for the same item in any conflict of interest with regard to the project;
- e. Our firm, its affiliates or subsidiaries, including any subcontractors or suppliers for any part of the Contract, has not been declared ineligible by SITARC;
- f. We understand that this Tender, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us.
- g. We understand that you are not bound to accept the highest ranked Tender or any other Tender that you may receive;
- h. We declare that the certified Photostat copies of documents and certificates submitted to support our Tender are true copies of the originals of such documents and certificates. Also, in case of ISO 9001/ BS EN ISO 9001/ IS certificates, we confirm that we have verified that the certificate issuing authority has the accreditation to issue the same and the materials offered conform to the above specified product standard certificate;
- i. We further agree to the right of SITARC to debar us from participating in all future Tenders in the event that the copies of certificates or documents are found to be forged or tampered with;



**SITARC**

j. We also undertake that, in competing for (and, if the award is made to us, in executing) the above contract, we will strictly observe the laws against fraud and corruption in force in India namely "Prevention of Corruption Act 1988", and

k. We hereby confirm that this Tender complies with the Eligibility, Tender Validity and EMD required by the Tender documents.

l. We here by confirm that we have enclosed two copies of tender document duly signed with office seal in all pages.

Dated this \_\_\_ day of 2024 Signature \_\_\_\_\_ in

the capacity of \_\_\_\_\_

Duly authorized to sign the Tender for and on behalf of \_\_\_\_\_

---

(in BLOCK Letters)

Address: \_\_\_\_\_

---

Company Seal: \_\_\_\_\_

**Witness 1**

**Witness 2**

Name :

Name:

Address:

Address:

Occupation:

Occupation:

**FORM TECH-2  
Tender Information Sheet**

All individual firms partner of the bidding firm for this Contract should complete the information in this sheet.

Firm / Company		
Name of firm/ company		
Place of incorporation/ registration of firm		
Year of incorporation/ registration of firm / company		
Head Office Address (incl. Contact, Tel, Mail) of firm / company		
Regional Office Address (incl. Contact, Tel, Mail) of firm / company		
Local Office Address (incl. Contact, Tel, Mail) of firm / company		
<b>Main Lines of Business</b>		
1.		Since:
2.		Since:
3.		Since:
4.		Since:
5.		Since:

**FORM TECH-3  
BIDDER'S ORGANIZATION AND EXPERIENCE**

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Form TECH-3: a brief description of the Bidder's organization and an outline of the recent experience of the Bidder that is most relevant to the assignment. For each assignment, the outline should indicate the names of the Bidder's Key Experts and Sub-consultants who participated, the duration of the assignment, the contract amount (total and, if it was done in a form of a joint venture or a sub-consultancy, the amount paid to the Bidder), and the Bidder's role/ involvement.

**A - Bidder's Organization**

1. Provide here a brief description of the background and organization of your company.
2. Attach the copy of firm registration certificate / organization's incorporation certificate as proof of existence.

**B - Bidder's Experience**

1. List only previous similar assignments successfully completed (as per requirements specified in Information Sheet).
2. List only those assignments for which the Bidder was legally contracted by the Client as an entity. The Bidder should substantiate the claimed experience by presenting copies of purchase orders as an annexure to the Tender.

SITARC

Sl.	Start and Finish Date	Name & brief description of main deliverables/ outputs	Name of Client & Country of Assignment	Approx. Contract value (in Rs.)	Description of assignment and work carried out	Is this project submitted to meet the Pre - Qual criteria (Yes/ No)	Is this project submitted to meet Evaluation Criteria as per Clause 21.1 of Information Sheet Evaluation Criteria (A) (Yes/No)	Reference to the documentary proof submitted for the assignment (mention ref. page no.)	Self-assessed score by bidder

## FORM TECH - 4

## Compliance sheet to Technical Specifications

SI No	Specifications	Compliance to specification (YES or NO)	In case of non-compliance Deviation from the specification to be indicated in unambiguous term
1.	<b><u>1.Type of the Test System:</u></b> <b>Type:</b> Fully Automatic Regenerative type electrical dynamometer with torque sensor and torque indication facility. <b>Cooling Type:</b> Forced Air Cooling (or) Water Cooling.		
2.	<b><u>2.Test Requirements:</u></b> The tests as per IS 12615, IEC 60034, IEEE 112, CSA 390 and IS 996 standards for rotating electrical machines. And reference standard as mentioned in the above are product standards.		
3.	<b><u>3.Range of Motors to be tested:</u></b>		
	3.1. For three phase motors to be tested		
	3.2. For single-phase motors to be tested		
4.	<b><u>4.Accuracy of the Equipment &amp; Instruments:</u></b> Over all Instrument accuracy: Minimum 0.2 CLASS		
5.	5. Test bed Requirements		
	5.1.Couplings for the motor under test		
	5.3. Locked rotor test facility		
	5.4. Protection guard for the coupling shaft		
6.	7.Electrical Power Supply		
7.	8.Motor Power Source		
8.	9.Electrical measuring equipments		
9.	10.Software and test reports		
10.	11.Automation system components		
11.	12.Calibration of Dyno		
12.	15.General		

## FORM TECH-5

**Details of the test beds to be offered**

The bidder shall provide the number of test beds according to the requirement indicated using the below format.

The measuring instrument accuracy shall be minimum of 0.2 class of accuracy.

Sl. No	Range of Test Beds	Max. Torque range (Nm)	Rating of the Motor Under Test (MUT) in kW			
			2 Pole	4 Pole	6 Pole	8 Pole
1.						
2.						
3.						
4.						
5.						
6.						
7.						
8.						
9.						
10.						

The bidder shall provide a provision for testing of two motors simultaneously.

The bidder shall provide the appropriate supporting documents such as technical specification, catalogue, brochure, drawing, etc for the tendered item.

FORM TECH-6  
GUARANTEE / WARRANTY OF AFFIRMATION

---

Date:

To:

Scientific and Industrial Testing And Research Centre (SITARC),  
83 & 84, Avarampalayam Road, K.R. Puram Post,  
Coimbatore - 641 006.

Tender No. SLPP/ATSEM-EQPT/2024-25/002

We, the undersigned, hereby well and truly affirm that the information provided in the Tender documents and the supporting documentary evidence submitted along with the tender are true and correct to the best of our knowledge and belief.

We also affirm that our supplier of goods or works to this project is no party to consulting services for this project, either to the parent company or its affiliates.

We understand that, in the event it is proved that the documents submitted by us stated above are not authentic, fraudulent, falsified and forged or tampered to misrepresent facts or the supplier of goods or works is a party to consulting services of the project either as parent company or its affiliates, our tender will be rejected and the Tender security will be fortified.

---

Authorized Signatory

---

Seal

Date

FORM TECH-7  
LETTER FOR ACCEPTANCE (LOA)

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Scientific and Industrial Testing And Research Centre (SITARC)

Tender No. SLPP/ATSEM-EQPT/2024-25/002

The parties to the awarding procedure emphasize the importance of a free, fair and competitive awarding procedure that precludes abuse. In this respect our company thus far have not offered or granted any inadmissible advantages either directly or indirectly to public servants or other persons in connection with this Tender, nor shall it offer or grant any such incentives or rewards in the present awarding procedure or, in the case of an award, during the subsequent execution of the Agreement.

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\_\_\_\_\_ [name of the company] shall inform the employees of their respective duties and their commitment to observe this self-imposed obligation and to abide by the laws of Union of India and countries of origin of procurements and services.

---

Authorized Signatory

Seal

Date



FORM TECH-8  
BILL OF MATERIAL (WITHOUT COST)

The Techno commercial offer to execute the supply as per the tender:

Supply of \_\_\_\_\_ to Scientific and Industrial Testing And Research Centre (SITARC),83 & 84, Avarampalayam Road, K.R. Puram Post, Coimbatore - 641 006, techno commercial offered for the supply, installation, commissioning and maintenance of the equipment/item as per Technical Specifications.

The bidder shall provide the BOM details as per the below categories A, B, C and D.

**A. Ranges of Test beds**

Sl. No	Range of Test beds	Item Qty
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		

**B. Measuring Instrument and Equipments:**

**i. Torque Transducer:**

Sl. No	Make	Model	Range (Nm)	Class of accuracy	Item Qty
1.			0-10		
2.			0-50		
3.			0-100		
4.			0-500		
5.			0-1000		
6.			0-2000		
7.			0-5000		

**ii. Control Panels:**

Sl. No	Description	Range	Item Qty
1.	Control Panel - 1		
2.	Control Panel - 2		

## SITARC

### iii. Power Analyser with Current Sensor:

Sl. No	Make	Model	Range	Class of accuracy	Item Qty
1.					
2.					

### C. Software:

The bidder shall provide details mentioned below, if any items which are not mentioned below the bidder shall be submit those details also.

Sl. No	Descriptions	Item Qty
1.	Software & Data Acquisition System	
2.	Programmable Logic Controller (PLC)	
3.		
4.		
5.		

### D. Other Equipments & Accessories:

The bidder shall provide details mentioned below, if any items which are not mentioned below the bidder shall be submit those details also.

Sl. No	Descriptions	Item Qty
1.	Milli Ohm Meter	
2.	Vibration Sensor	
3.	Noise Sensor	
4.	Temperature Sensor	
5.	Drive Panel, Inverters / Regenerative units	
6.	Pull up Torque test set up	
7.	Locked Rotor test set up	
8.	Motorised Variable Voltage Transformer	
9.	L - Bracket for mounting of flange & face motors	
10.	Coupling Sets	
11.	Laser shaft alignment tool	
12.	Standard accessories	
13.	Pre-installation tool kit	
14.		
15.		
16.		
17.		
18.		
19.		
20.		

ANNEXURE I  
DECLARATION

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I / We \_\_\_\_\_ having our office at declare that I / We have never been blacklisted by any State Government / Central Government / or any State / Central PSU. Further certify that I/We give our acceptance for all tender conditions. The Tender copy is attached duly signed in all the Pages with Seal.

Signature:

Name:

Designation:

Address of the Tenderer:

Seal of Tenderer:

Date:

Place:

ANNEXURE II  
ADDITIONAL SPECIFICATION / REQUIREMENTS

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Sl. No.	Additional Specifications/Features Provided

## ANNEXURE III

List of Item to be Procured under this tender

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Sl. No	Name of the Equipment's / System	Qty	Delivery Schedule from the date of issue of PO	For Techno commercial Specification / Requirements Refer
1	Fully Automated Test System for Testing of Electric Motors using Regenerative Type Dynamometer		Maximum of 6 Months	ANNEXURE IV

ANNEXURE IV  
 TECHNICAL SPECIFICATION / REQUIREMENTS OF FULLY AUTOMATED TEST  
 SYSTEM FOR TESTING OF ELECTRIC MOTOR USING REGENERATIVE TYPE  
 DYNAMOMETER

The test system shall consist the following instruments, equipment and supporting items:

<b>Technical Specification for Fully Automated Test System for Testing of Electric Motors (ATSEM) using Regenerative Type Dynamometer.</b>	
Sl. No	Description
1.	<p><b>1. <u>Type of the Test System:</u></b></p> <p><b>Type:</b> Fully Automatic Regenerative type electrical dynamometer with torque sensor and torque indication facility.  <b>Cooling Type:</b> Forced Air Cooling (or) Water Cooling.</p> <p>Dynamometer should be suitable for bi-directional operation.</p>
2.	<p><b>2. <u>Test Requirements:</u></b></p> <p>The tests as per IS 12615, IEC 60034, IEEE 112, CSA 390 and IS 996 standards for rotating electrical machines. And reference standard as mentioned in the above are product standards.</p> <p>2.1. <u>Reference:</u></p> <p>a) IS 12615-Line Operated Three Phase A.C. Motors (IE CODE) "Efficiency Classes and Performance Specification"          b) IEC 60034-2-1-Standard methods for determining losses and efficiency from tests (excluding machines for traction vehicles)          c) CSA – C390-93 – Energy Efficiency Test Methods for Three Phase Induction Motors –Performance of electrical products.          d) IEEE 112 Standard Test Procedure for Poly-phase Induction Motors and Generators.          e) IS 996- Single Phase Motors- General Purposes.</p>
3.	<p><b>3. <u>Range of Motors to be tested:</u></b></p> <p><b>3.1. Three phase Motor to be tested:</b>          Rated output power of motors shall be <b>0.1 to 250 kW, 4 pole, 415 V / up to 1000 V, 50 &amp; 60 Hz.</b></p> <p>For 2 pole motors- 0.12 kW to 500 kW, Frame Size 56 to 355, Rated torque 0.40 Nm to 1600 Nm          For 4 pole motors- 0.12 kW to 250 kW, Frame Size 56 to 355, Rated torque 0.8 Nm to 1615 Nm</p>

Technical Specification for Fully Automated Test System for Testing of Electric Motors (ATSEM) using Regenerative Type Dynamometer.	
Sl. No	Description
	<p>For 6 pole motors- 0.12 kW to 160 kW, Frame Size 63 to 355, Rated torque 1.4 Nm to 1560 Nm            For 8 pole motors- 0.12 kW to 110 kW, Frame Size 63 to 315L, Rated torque 1.9 Nm to 1440 Nm</p> <p><b>3.2. Single-phase Motors to be tested:</b>            Rated output power of motor shall be of <b>0.1 to 2.2 kW,4 pole,115 V / 230 V, 50 &amp; 60 Hz.</b></p> <p>For 2 pole motor-0.25 kW to 2.2 Kw, Rated torque 0.88 Nm to 7.50 Nm            For 4 pole motor - 0.25 kW to 2.2 kW, Rated torque 1.66 Nm to 15.20 Nm            For 6 pole motor - 0.18 kW to 1.5 kW, Rated torque 1.86 Nm to 26.30 Nm.</p> <p><b>The bidder can offer the multiple test beds for the entire specified ranges. The relevant details are to be provided as per the format given in TECH FORM-5 and the bidder shall annex all the supporting documents.</b></p>
4.	<p><b>4. Accuracy of the Equipment &amp; Instruments:</b></p> <p>Over all Instrument accuracy: Minimum 0.2 CLASS</p> <p><b>For Induction and other type Motors:</b> The measuring equipment/instrument shall confirm to the requirements of IS 12615, IEC 60034 and IS 996 any other suitable standards etc., Test equipment must meet the IEC 60034, IS 12615, IS 996 recommendations.</p>
5.	<p><b>5. Test Bed Requirements:</b></p> <p>Test bed shall be motorized with up/down and axial movement for different heights. Load carrying capacity of the Device Under Test bed: 750 - 1000 kg load maximum. Provisions to mount the motors of foot, flange and face mounted constructions of IEC frame sizes 56 to 355.</p> <p>All mechanical arrangements shall ensure perfect alignment for vibration free running. A laser tool and vibration sensor embedded arrangement for ensuring the perfect alignment is preferable.</p> <p>Suitable sensors shall be embedded for real time monitoring of vibration and noise of the MUT and Test bed while system is in operation.</p> <p><b>5.1. Couplings for the motor under test:</b>            Motor shaft half couplings with necessary adapter plates to accommodate the coupling shaft should be provided to suit IEC frame sizes 56 to IEC 355. Special mounting and dismantling tools for easy assembly and dismantling of the couplings should be provided by the supplier.</p>

Technical Specification for Fully Automated Test System for Testing of Electric Motors (ATSEM) using Regenerative Type Dynamometer.	
Sl. No	Description
	<p><b>5.2. Coupling shaft:</b> Coupling shaft to suit speed and torque ratings of motor under test should be provided.</p> <p><b>5.3. Locked rotor test facility:</b> Heavy duty and rugged Locked rotor test facility should be provided to conduct the locked rotor test.</p> <p><b>5.4. Protection guard for the coupling shaft:</b> Heavy duty fabricated guard with safety switch should be provided by the supplier. The interlock should be provided such that testing will not start unless the protection guard is closed properly. The electronic control system shall have the protection functions such as short circuit, leakage, power failure, overcurrent, and overvoltage. The system software must have the safety detection function. (i.e., Alarm when the monitoring value exceeds the threshold value).</p>
6.	<p><b>6. Site Ambient Conditions:</b> Ambient Temperature: 40 °C (max) AC room temperature: 25 ± 2 °C Atmosphere Pressure: 732 mmHg Altitude: 450 m</p>
7.	<p><b>7. Electrical Power Supply available at SITARC:</b></p> <p>Mains input supply:</p> <ol style="list-style-type: none"> <li>415 Vac, 3 - Phase, 50 Hz Electricity Board power supply.</li> <li>415 Vac, 3-Phase, 60 Hz MG set power supply.</li> <li>Servo Stabilizer controlled Electrical Power Supply available with Voltage Variation: ± 1% &amp; Frequency Variation: ± 3%</li> <li>Isolation transformer and harmonics filter are not available Separate earthing facility is available.</li> <li>Other than single phase 230 V &amp; three phase 415 V AC power source to be supplied by the bidder to meet the applicable standard requirements.</li> <li>The bidder shall be providing the provision for measuring the both - three phase &amp; single-phase power measurement in the control panels.</li> </ol>
8.	<p><b>8. Motor power source:</b></p> <p>Three phase Motor under test will run on variable voltage variable frequency power supply specifically designed to each test bed capacity, generated from a motor alternator set and the motorized auto transformer.</p>



Technical Specification for Fully Automated Test System for Testing of Electric Motors (ATSEM) using Regenerative Type Dynamometer.	
Sl. No	Description
	<p>Single phase Motor under test will run on variable voltage variable frequency power supply specifically designed to each test bed capacity, generated from a motor alternator set and the motorized auto transformer.</p> <p>Bidder should specify the ratings of power source considered for each test bed if multiple test beds are offered, considering that all the sets are running simultaneously.</p>
9.	<p><b>9. <u>Electrical measuring equipment:</u></b></p> <p>Bidder should provide the following instruments with PC interface.</p> <p>Micro ohm meter Power analyser Current transformer Temperature sensors with indicator for temperature rise test at 5 locations Winding and bearing temperature measurement Vibration sensor with indicator and PC interface Torque sensors</p> <p>The supplier should provide the details of various sensors with their accuracy class used for measurement / control of each parameter to meet the testing standard requirement.</p>
10.	<p><b>10. <u>Software and Test Reports:</u></b></p> <p>Software with data logging for generating characteristics graphs (speed Vs Torque, Output Vs efficiency &amp; power factor, Current Vs speed, Current Vs acceleration time, time Vs temperature), test report format (confirmed to IS 12615, IEC 60034-2-1, IEEE 112, CSA 390 with complete integration of all measuring instruments to conduct performance tests. Induction motor performance test, efficiency calculation as per the latest version of IEC 60043-2-1 and IS 12615 Summation of losses, Residual losses methods.</p> <p>Supplier needs to modify their reporting format as per SITARC recommendation if any. Supplier should provide the list of parameters with type of measurement whether manual entry or automatic data acquisition for each parameter.</p>
11.	<p><b>11. <u>Automation system components</u></b></p> <p>Industrial PC with windows operating system with licensed MS office and antivirus software installed on it. UPS system for PC. Laser Printer A4 size monochrome. Application software to conduct the test in fully automated manner with generation of test report.</p> <p>Electronics hardware system to control, measure and automate the system, consisting of data concentration unit with digital communication port output for PC interface. This system will collect the data from in line torque sensor, reaction type torque sensor,</p>

Technical Specification for Fully Automated Test System for Testing of Electric Motors (ATSEM) using Regenerative Type Dynamometer.	
Sl. No	Description
	<p>temperature sensors, vibration sensors, speed sensors, current transducer, power analysers and all other connected sensors etc.</p> <p>All the control panels should be housed in a standard rack system.</p> <p>Data captured should be stored in MS Excel spread sheet.</p> <p>The loss calculations shall be done by a software as per IEC 60034-2-1.</p> <p>Interlocks should be provided to ensure safe operation of various equipments to avoid any accident or damage of test equipments / set up.</p> <p>Provision for Interlocking the changeover switches and tests configuration shall be from the control desk.</p>
12.	<p><b>12. Calibration of Dyno:</b> A Suitable reference motor shall be provided for Dyno Calibration.</p> <p>Calibration kit consisting of a torque arm and standard weights shall be supplied for calibration of the contact / non-contact type torque sensor and torque indicator of the dynamometer (where ever applicable).</p>
13.	<p><b>13. Floor Space Requirement:</b> Supplier should provide general layout drawing specifying details like foundation, electrification, earthing, plumbing, crane structure etc within 6 to 8 weeks from the date of receipt of supply order.</p>
14.	<p><b>14. Civil work:</b> All civil work, electrification work, cable trenches with covers, crane facility, plumbing work, and any other work which is not specified by the supplier will be in the scope of customer.</p>
15.	<p><b>15. General:</b></p> <ul style="list-style-type: none"> <li>➤ Selection and justification of instrument ranges and accuracy limitations for rating of the motor under test shall be provided (Refer applicable National/ International standards for the above said end products testing)</li> <li>➤ Supplier shall provide evidences like technical writes up, test templates, performance calculations, pictures, videos, IEC / IS standards reference clause / sections to justify the supplier technical offer against specification for the supplied item.</li> <li>➤ The loading motors devices, measuring instruments / equipment, power supply (harmonic filter), torque sensors are selected based on MUT (Motor under test).</li> </ul> <p>Current valid calibration certificate/report through accredited calibration lab as per ISO/IEC 17025:2017 standard for all measuring instruments shall be provided at the time of commissioning.</p>

**Section4: Commercial Bid – Standard Forms**

Commercial Tender Standard Forms Shall be used for the preparation of the Commercial Tender according to the instructions provided in Section 2.

<b>FORM</b>	<b>DESCRIPTION</b>
FIN-1	Price Bid Submission Form.
FIN-2	Summary of Price Schedule.
FIN-3	Historical Financial Performance
FIN-4	Proforma For Bank Guarantee for Earnest Money Deposit
FIN-5	Proforma For Bank Guarantee for Security Deposit and Performance Security
FIN-6	A power of attorney for the authorized representative of each consortium member of the bidder.

**FORM FIN-1**  
**Price Bid Submission Form**

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Date:

To:

Scientific and Industrial Testing And Research Centre (SITARC),  
83 & 84, Avarampalayam Road, K.R. Puram Post,  
Coimbatore – 641 006.

TENDER No. SLPP/ATSEM-EQPT/2024-25/002

Dear Sir,

Having examined the Instructions to Tenderers, Specifications, Drawings, Schedule of Rates and Prices and Addenda Nos. \_\_\_\_\_ for the supply, installation and commissioning of equipment/item as per tender, we the undersigned, offer to complete such order and remedy any defects therein in conformity with the Tender Specifications, Drawings, Schedule of Rates and Prices and Addenda for the sums of money as indicated below in words.

Indian Rupees (figures & words) \_\_\_\_\_

We understand that SITARC is at liberty to decide on prices detailed out in the Schedule of Rates and Prices.

We acknowledge that the Preamble to Schedule of Rates and Prices, and Schedule of Rates and Prices form part of our Tender.

We agree to abide by this Tender for the period of 90 (Ninety) days from the date fixed for the Tender submission deadline in accordance with the Tender Documents, and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

If our Tender is accepted, we commit to obtain a Performance Deposit in accordance with the Tender Documents.

We understand that this Tender, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us.

**SITARC**

We understand that you are not bound to accept the highest ranked Tender or any other Tender that you may receive.

We agree to SITARC's right to award the Tender in full.

Dated this \_\_\_\_\_ day of \_\_\_\_ 2024 Signature \_\_\_\_\_ in the capacity of \_\_\_\_\_

Duly authorized to sign the Tender for and on behalf of \_\_\_\_\_  
(in BLOCK Letters)

Address: \_\_\_\_\_

Company Seal: -----

**Witness 1**

Name :

Address:

Occupation:

**Witness 2**

Name:

Address:

Occupation:

**FORM FIN-2**  
**Summary of Price Schedule**

TENDER No. SLPP/ATSEM-EQPT/2024-25/002

**Item:** Supply Installation, Commissioning and Maintenance of Fully Automated Test System for Testing of Electric Motors using Regenerative Type Dynamometer.

The bidder shall be provided the separate price details as per the below categories A, B, C, D and E.

**E. Ranges of Test beds**

The bidder shall be provided the Price as per the details of the test beds to be offered in FORM TECH- 5

Sl. No	Range of Test beds	Item Qty	Basic Rate (INR)	GST %	GST Amount (INR)	Net Rate (INR)
1.						
2.						
3.						
4.						
5.						
6.						
7.						
8.						
9.						
10.						

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### F. Measuring Instrument and Equipments:

#### ii. Torque Transducer:

The bidder shall provide the Price for required torque transducers as per the details of the test beds to be offered in FORM TECH- 5.

Sl. No	Make	Model	Range (Nm)	Class of accuracy	Item Qty	Basic Rate (INR)	GST %	GST Amount (INR)	Net Rate (INR)
1.			0-10						
2.			0-50						
3.			0-100						
4.			0-500						
5.			0-1000						
6.			0-2000						
7.			0-5000						

#### iv. Control Panels:

The bidder shall provide the Price details for required two control panels as mentioned below

Sl. No	Description	Range	Item Qty	Basic Rate (INR)	GST %	GST Amount (INR)	Net Rate (INR)
1.	Control Panel - 1						
2.	Control Panel - 2						

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### v. Power Analyser with Current Sensor:

The bidder shall provide the Price details for power analyser along with the current sensor as mentioned below

Sl. No	Make	Model	Range	Class of accuracy	Item Qty	Basic Rate (INR)	GST %	GST Amount (INR)	Net Rate (INR)
1.									
2.									

### G. Software:

The bidder shall provide the price as per the details mentioned below

Sl. No	Descriptions	Item Qty	Basic Rate (INR)	GST %	GST Amount (INR)	Net Rate (INR)
1.	Software & Data Acquisition System					
2.	Programmable Logic Controller (PLC)					

### H. Other Equipments & Accessories:

The bidder shall provide the price as per the details mentioned below, if any items which are not mentioned below the bidder shall be submit price details also.

Sl. No	Descriptions	Item Qty	Basic Rate (INR)	GST %	GST Amount (INR)	Net Rate (INR)
1.	Milli Ohm Meter					
2.	Vibration Sensor					
3.	Noise Sensor					
4.	Temperature Sensor					
5.	Drive Panel, Inverters / Regenerative units					
6.	Pull up Torque test set up					
7.	Locked Rotor test set up					



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Sl. No	Descriptions	Item Qty	Basic Rate (INR)	GST %	GST Amount (INR)	Net Rate (INR)
8.	Motorised Variable Voltage Transformer					
9.	L - Bracket for mounting of flange & face motors					
10.	Coupling Sets					
11.	Laser shaft alignment tool					
12.	Standard accessories					
13.	Pre-installation tool kit					
14.						
15.						
16.						
17.						
18.						
19.						
20.						

**I. External Service & Support**

The bidder shall provide the Price as per the details mentioned below

Sl. No	Descriptions	Criteria	Basic Rate (INR)	GST %	GST Amount (INR)	NETT Rate (INR)
1.	<u>AMC Details:</u> Rate per year for the next 3 years. (after the expiry of warranty as per the TD conditions, free AMC as per the TD conditions and free additional AMC given if any).	1 <sup>st</sup> Year				
		2 <sup>nd</sup> Year				
		3 <sup>rd</sup> Year				

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Sl. No	Descriptions	Criteria	Basic Rate (INR)	GST %	GST Amount (INR)	NETT Rate (INR)
2.	<u>Warranty Details:</u> Rate per year for the next 3 years. (after the expiry of warranty as per the TD conditions, additional warranty given if any, free additional warranty given if any).	1 <sup>st</sup> Year				
		2 <sup>nd</sup> Year				
		3 <sup>rd</sup> Year				
3.	<u>Calibration Details:</u> Rate per year for the next 3 years. (after the expiry of calibration as per the TD conditions, additional calibration given if any, free additional calibration given if any).	1 <sup>st</sup> Year				
		2 <sup>nd</sup> Year				
		3 <sup>rd</sup> Year				

Name of the Authorized Signatory: \_\_\_\_\_ in the capacity of [*Designation*] \_\_\_\_\_

Signed: \_ \_\_\_\_\_

Duly authorized to sign the Tender for and on behalf of: \_\_\_\_\_

Date: \_\_\_\_\_ Company Seal: \_\_\_\_\_

**FORM FIN-3**  
**Historical Financial Performance**

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**A. Information from Financial Statements**

Descriptions	FY 21-22	FY 22-23	FY 23-24
Total Assets (TA)			
Total Liabilities (TL)			
Net Worth = TA - TL			
Current Assets (CA)			
Current Liabilities (CL)			
Working Capital = CA - CL			

**B. Information from Income Statements**

Descriptions	FY 21-22	FY 22-23	FY 23-24
Total Revenues			
Profits Before Taxes			
Profits After Taxes			

**FORM FIN-4**

**Proforma for Bank Guarantee for Earnest Money Deposit**

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**PROFORMA FOR BANK GUARANTEE FOR EARNEST MONEY DEPOSIT**

(TO BE OBTAINED FROM A NATIONALISED BANK IN INDIA)

Ref: \_\_\_\_\_ Date: \_\_\_\_\_ Bank Guarantee No: \_\_\_\_\_

In accordance with invitation to TENDER No. SLPP/ATSEM-EQPT/2024-25/002 for procurement of equipment/item and accessories for Scientific and Industrial Testing And Research Centre (SITARC),83 & 84, Avarampalayam Road, K.R. Puram Post, Coimbatore – 641 006 (herein after referred to as SITARC),

M/s-\_\_\_\_\_

BIDDER'S Name & Address (herein after referred to as BIDDER) wish/wishes to participate in the said tender and a Bank Guarantee for the sum of Rs.\_\_\_\_\_ (Rupees\_\_\_\_\_ ) valid up to 90 Days from the date of submission of tender document is required to be submitted by the Bidder toward the Earnest Money Deposit for -----(Item Name)

a) We the (Banker's Name \_\_\_\_\_) (Indicate the Name of the Bank) (Hereinafter referred to as 'the Bank') at the request of the BIDDER do hereby unequivocally and unconditionally guarantee and undertake to pay during the above said period, on written request by SITARC, an amount not exceeding Rs. \_\_\_\_\_ to the SITARC, without any reservation. The guarantee would remain valid up to 90 Days from the date of submission of tender document and if any further extension to this is required, the same will be extended on receiving instruction from the BIDDER on whose behalf this guarantee has been issued.

b) We the bank do hereby further undertake to pay the amounts due and payable under this guarantee without any demur, merely on a demand from the SITARC, stating that the amount claimed is due by way of loss or damage caused to or would be caused to or suffered by the SITARC, by reason of any breach by the said BIDDER of any of the terms or conditions or failure to perform the said bid. Any such demand made on the bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. \_\_\_\_\_ (in words).

c) We, the bank undertakes to pay to SITARC, any money so demanded not withstanding any dispute or disputes so raised by the supplier(s) in any suit or

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proceeding instituted/pending before any court or Tribunal relating thereto, our liability under this agreement being absolute and unequivocal. The payment so made by us under this bond shall be a valid discharge of our liability for payment there under and the supplier(s) shall have no claim against us for making such payment.

d) We the bank or our local branch at Coimbatore further agree that the guarantee herein contain shall remain in full force and effect during the aforesaid period i.e. 90 Days from the date of submission of tender document and it shall continue to be so enforceable till all the dues of the SITARC, under by virtue of the said Bid have been fully paid and its claims satisfied or discharged or till SITARC, certifies that the terms and conditions of the said bid have been fully and properly carried out by the said BIDDER and accordingly discharges in guarantee. Unless a demand or claim under this guarantee is made on us in writing on or before the 90 Days from the date of submission of tender document, we shall be discharged from all liability under this guarantee thereafter.

e) We, the bank or our local branch at Coimbatore further agree that the SITARC, shall have the fullest liberty without our consent and without affecting in any manner our obligations here under to vary any of the terms and conditions of the said bid or to extend time of performance by the said BIDDER from time to time or to postpone for any time or from time to time any of the powers exercisable by the SITARC, against the said BIDDER and to forbear or enforce any of the terms and conditions relating to the said bid and we shall not be relieved from our liability by reason of any such variation, postponement or extension being granted to the said BIDDER or for any forbearance act or omission on the part of the SITARC or any indulgence by the SITARC, to the said BIDDER or by any such matter or thing whatsoever which under the law relating to sureties would but for this provision, have effect of so relieving us.

f) This guarantee will not be discharged due to the change in the name, style and constitution of the Bank or the BIDDER.

g) We, the bank or our local branch at Coimbatore lastly undertake not revoke this guarantee during its currency except with the previous consent of the SITARC, in writing.

h) We, the bank further agree that this guarantee shall also be inviolable at our place of business at \_\_\_\_\_ in the state of \_\_\_\_\_ dated \_\_\_\_\_ day of 2024.

i) Notwithstanding anything contained herein above.

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- (i) Our liability under this Bank guarantee shall not exceed Rs. \_\_\_\_\_/-  
(Rupees\_\_\_\_\_ only)
- (ii) This Bank guarantee shall be valid up to 90 Days from the date of submission of tender document
- (iii) We are liable to pay the guaranteed amount or any part thereof under this Bank guarantee only and only if you serve upon us a written claim on or before 210 Days from the date of submission of tender document and
- (iv) Witness (signature, name & address) for \_\_\_\_\_ (Indicate the name of bank)

1. Power of Attorney No. \_\_\_\_\_

2. Date: \_\_\_\_\_

SEAL OF BANK

**FORM FIN-5**  
**Proforma for Bank Guarantee for Security Deposit and Performance Security**

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**PROFORMA FOR BANK GUARANTEE FOR SECURITY DEPOSIT AND PERFORMANCE SECURITY**

To: \_\_\_\_\_ (Name of Purchaser)

WHEREAS ..... (Name of Supplier) hereinafter called "the supplier" has undertaken, in pursuance of Tender No ..... Dated ..... and purchase order No ..... Dated ..... 2024 to Supply..... (Description of Goods and Services) hereinafter called "the order".

AND WHEREAS it has been stipulated by you in the said order that the Supplier shall furnish you with a Bank Guarantee by a recognized bank for the sum specified therein as security for compliance with the Supplier's performance obligations in accordance with the order.

AND WHEREAS we have agreed to give the Supplier a Guarantee:

THEREFORE we hereby affirm that we are Guarantors and responsible to you, on behalf of the supplier, up to a total of ..... (Amount of Guarantee in words and Figures) and we undertake to pay you, upon your first written demand declaring the Supplier to be in default under the order and without cavil or argument, any sum or sums within the limit of ..... (Amount of Guarantee) as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

This guarantee is valid until the ..... day of .....2024 (Ref purchase order)

Signature and Seal of Guarantors

.....  
.....  
.....

Date .....2024.....

Address .....

.....  
.....

**FORM FIN-6  
POWER OF ATTORNEY**

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**A power of attorney for the authorized representative of each consortium member  
of the bidder**

**(To be signed by each Firm that is a part of a consortium)**

Know all men by these presents, \_\_\_\_\_ (Name of Company with registration number) do hereby irrevocably constitute, nominate, appoint and authorize \_\_\_\_\_ (Name of the person) and presently residing at \_\_\_\_\_ (Complete Address) who is presently employed with us and holding the position of \_\_\_\_\_ (Title/Designation), as our true and lawful attorney \_\_\_\_\_ (hereinafter referred to as the "Attorney") to do in our name and on our behalf, all such acts, deeds and things as are necessary or required in connection with or incidental to submission of our Proposals[s] for providing \_\_\_\_\_ (Title of the project) including but not limited to signing and submission of all applications, Proposals and other documents and writings, participate in Pre-Applications and other conferences and providing information/responses to SITARC, representing us in all matters before SITARC, including negotiations, signing and execution of all Agreements and undertakings consequent to acceptance of our Proposal, and generally dealing with to SITARC, in all matters in connection with or relating to or arising out of our Proposal for the said tender and/ or upon award thereof to us and/or till the entering into Agreements with to SITARC.

AND we hereby agree to ratify and confirm and do hereby ratify and confirm all acts, deeds and things lawfully done or caused to be done by our said Attorney/ pursuant to and in exercise of the powers conferred by this Power of Attorney and that all acts, deeds and things done by our said Attorney in exercise of the powers hereby conferred shall and shall always be deemed to have been done by us.

IN WITNESS WHERE OF WE, \_\_\_\_\_ (NAME OF THE COMPANY) THE ABOVE-NAMED PRINCIPAL HAVE EXECUTED THIS POWER OF ATTORNEY ON THIS DD/MM/YYYY

This Power of Attorney shall be effective, binding, and operative till DD/MM/YYYY (for 1 year) if not revoked earlier or as long as the said Attorney is in the service of the Company, whichever is earlier



**SITARC**

I accept,

Name:

Title:

Date:

Place:

Witness:

## Section 5: Check List to The Bidders

### I. Envelope A – Techno commercial Bid

Sl. No	Form	Descriptions	Page No
1.	-	The Original Tender Document has published full copy shall be duly signed in all the pages with office seal.	
2.	-	Tender Document Charges (Cash or DD in favour of SITARC)	
3.	PRE-QUAL-1	Compliance sheet to Prequalification Criteria	
4.	TECH-1	Techno commercial Bid Submission Form.	
5.	TECH-2	Tender Information Sheet	
6.	TECH-3	Bidder's Organization & Experience	
7.	TECH-4	Compliance sheet to Technical Specification	
8.	TECH-5	Details of the test beds to be offered	
9.	TECH-6	Guarantee / Warranty of Affirmation	
10.	TECH-7	Letter of Acceptance (LOA)	
11.	TECH-8	Bill of Material (without Cost)	
12.	Annexure I	Declaration	
13.	Annexure II	Additional Specification / Features	
14.	Annexure III	List of Items to be Procured under this tender	
15.	Annexure IV	Technical Specification / Requirements of Fully Automated Test System for Testing of Electric Motor Using Regenerative Type Dynamometer.	
16.	FIN-3	Historical Financial Performance	
17.	FIN-4	Proforma For Bank Guarantee for Earnest Money Deposit	
18.	FIN-6	A power of attorney for the authorized representative of each consortium member of the bidder.	
19.	-	Memorandum of Understanding / Articles of Association / Partnership Deed	
20.	-	EMD (DD / Bankers Cheque) Exemption for NSIC (applicable to all MSE units) and UDYAM Registration / UAM	
21.	-	Authorisation letter for participating at the time of opening the bids	

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Sl. No	Form	Descriptions	Page No
22.	-	Detailed techno commercial specification, catalogue, brochure, drawing, etc.	
23.	-	Pre-Installation Requirements of the Quoted System/ Item	
24.	-	Calibration Reports of the Quoted System / Item	
25.	-	GST Registration Certificate, PAN Card	
26.	-	Authorisation letter for participation	
27.	-	Certificate of Authorized Distributorship/ Dealership/ Retailer ship from the Bidder/ Manufacturer	
28.	-	<b>Eligibility: Original Manufacturer</b>	
29.	-	Experience	
30.	-	Performance statement showing major supplies effected during the past 3 years	
31.	-	Turnover with audited Balance Sheet (last 3 years)	
32.	-	Manufacturer's License (Duly attested)	
33.	-	<b>Eligibility: Non-Manufacturer</b>	
34.	-	Experience	
35.	-	Authorization/ Distribution rights from manufacturer	
36.	-	Performance statement showing major supplies effected during the past 3 years	
37.	-	Turnover with audited Balance Sheet (last 3 years)	
38.	-	In case of dealers/ distributors turnover over and experience	
39.	-	Principal's invoice along with their quotation & also current and valid Authorization/ Dealership Certificate of the Foreign Manufacturer/ Principal	
40.	-	Submission of certificate of registration of firm authorization letter from the manufacturer/ bidder to quite the submit letter	
41.	-	Photocopy of Warrantee Agreement between the Bidder and the Service Provider, if applicable.	
42.	-	List of users with contact Address, Phone and Email ID	

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Sl. No	Form	Descriptions	Page No
43.	-	Profile of bidder's organization	
44.	-	Descriptive leaflet / brochure of the equipment/item quoted are to be enclosed along with the techno commercial details.	
45.	-	Ensure that User certificates from at least two users, on their letter head stating that the performance of similar make and model supplied to them is satisfactory is enclosed.	
46.	-	Any other details pertaining to techno commercial bid.	

### II. Envelope B – Commercial Bid

Sl. No	Form	Descriptions	Page No
1.	FIN-1	Price Bid Submission Form.	
2.	FIN-2	Summary of Price Schedule.	
3.	FIN-6	A power of attorney for the authorized representative of each consortium member of the bidder.	

**Note:**

**Ensure the following;**

- ❖ Seal & Signature in all pages.
- ❖ Provide page numbers to all the documents attached in ascending order. Page number shall be clearly mention in the above check list table.

**# All the envelopes A and B (Properly Sealed and Signed) are to be kept inside in an outer envelope of bigger size with properly sealed and signed.**

**# The following information are to be written in each of the three covers.**

- ❖ Tender Ref No with last date of submission.
- ❖ Item with name
- ❖ Bidders complete postal address with contact person name and phone number.
- ❖ Purchaser complete postal address

**# All the envelops are to be clearly marked as**

“Envelop A”- Techno commercial Bid, “Envelop B”- Price Bid, it is to be ensured that all the documents are kept inside the relevant envelopes.

-----End of the Document-----