

TENDER DOCUMENT

Subject: Supply, Installation, Commissioning, performance testing and validation of Automated Radiated Immunity Test System

TENDER NO.: SMR/PUR/CP009/2023 I/PT

PRE-BID MEETING: DATE: 10/05/2022 TIME: 10:30 AM

DUE ON : 02/06/2022 17:00hrs

EMD: Rs. 1000000

TENDER FEE: Rs. 1500+18% GST



प्रायोगिक सूक्ष्मतरंग इलेक्ट्रॉनिकी इंजीनियरी तथा अनुसंधान संस्था
SOCIETY FOR APPLIED MICROWAVE ELECTRONICS ENGINEERING & RESEARCH
आई आई पी कैंपस, पवई, पुंबई 400076. फोन: 022 25723030/7221 फैक्स : 022 25723254
IIT CAMPUS, POWAI, MUMBAI 400 076. TEL.: 022-25723030/7221, Fax: 022 25723254
WEB SITE : www.sameer.gov.in E-mail : purchase@sameer.gov.in

Table of Contents

INSTRUCTIONS TO BIDDERS (SECTION – I):	5
1. Tender document	6
2. Earnest Money Deposit	6-7
3. Qualification Requirements and Tender Terms:	7
4. Promotion of Industry and Internal Trade	7-8
5. Performance Security	8
6. Purchase Preference (Preference to Make in India)	8
7. Qualification requirements proposal	8-9
8. Terms and conditions on Technical Bid and Price Bid	9-10
9. Submitting Tender/Bids.....	10
10. Pre-bid meeting	10
11. Opening of bids:	10-11
12. Capacity of bidder:	11
13. Intimation to Unsuccessful bidders.....	11
14. Date, Time and Venue for opening Tender:	11
15. Clarification:	11
16. Corrigenda:	11
17. Training	11
18. Installation	11
CONDITIONS OF CONTRACT.....	12
1. Definitions:	13
2. Supplier’s responsibilities:	13
3. Sub-contracts:	13
4. Contract price:	13
5. Copyright:	13
6. Patent rights:	13
7. Inspections and test:	14
8. Packing instructions:	14
9. Delivery and documents:	14-15
10. Insurance:	15
11. Incidental services:	15
12. Warranty terms:	15-16

13. Bank charges:	16
14. Amendments:	16
15. Assignment:	16
16. Extension of time:	16
17. Penalty clause:	17
18. Termination for default:	17
19. Termination for insolvency:	17
20. Settlement of disputes:	17
21. Applicable law:	18
22. Notices:.....	18
23. Site preparation and installation:.....	18
24. Taxes and duties:	18
25. Commercial invoice.....	18
26. Integrity pact and contract:	18
TECHNICAL SPECIFICATIONS (SECTION – II)	19
1. Specifications.....	20
2. General Requirements:	20
3. Detailed Technical requirements.....	20-25
4. Technical Terms and Conditions.....	26-28
COMMERCIAL TERMS & CONDITIONS (SECTION-III).....	29
1 Prices.....	30
2. Taxes, duties and levies applicable.....	30
3 Packing.....	30
4. Freight and insurance.....	31
5. Any other applicable charges	31
6. Mode of delivery	31
7. Delivery schedule.....	31
8. Warranty.....	31
9. Payment terms.....	31
10. Validity of quotation.....	31
11. Tender fee (Including GST).....	31
12. Earnest Money Deposit (EMD)	32
13. Performance security.....	32
14. Exemption for custom duty and excise duty.....	32

15. Sharing land border with India	32
16. Jurisdiction.....	32
Formats for Price bid and forms	33
1. Format for Price Bid (in INR) SECTION –IV.....	34
2. Format for Price Bid (in Foreign currency)	35
Annexure – I	36-37
1. Company Details	36
2. Financial Details of the Organization	37
Annexure – II	38
1. Prior Experiences	38
Annexure – III	39-40
1. Declaration Letter	39-40
Annexure – IV	41
1. Board Resolution form	41
Annexure – V	42
1. Bid Security Declaration Form	42
Annexure – VI	43
1. Self-Certification for Local Content.....	43

SECTION – I

INSTRUCTIONS FOR SUBMITTING THE OFFER

INSTRUCTIONS FOR SUBMITTING THE OFFER

1. Tender Document: Interested bidders who meet the qualification criteria may submit their tender (both **Technical** and **Price bid**) in the manner mentioned in Para 9 of this chapter. Tender document can be purchased from the Accounts Section of SAMEER located at IIT Campus, Powai, Mumbai-76, between 1.30 pm to 4.30 pm, on cash payment, on all days except Saturdays, Sundays and public holidays. If the Tender document is downloaded from our website <http://www.sameer.gov.in> or <https://eprocure.gov.in/eprocure/app>, then **the Tender Fee is not applicable.**

2. Earnest Money Deposit (EMD):

A. Earnest Money Deposit should be submitted in the form of Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque or Bank Guarantee from any commercial bank of India, drawn in favour of "**Society for Applied Microwave Electronics Engineering and Research**". If the EMD is given in the form of Bank Guarantee or Fixed Deposit, then it should be valid for minimum 15 days beyond the validity of the quotation. EMD also can be paid through online payment mode. Intimation should be sent to SAMEER once the online payment is done. A copy of the Transaction details should be enclosed with Technical Bid.

For online payment our banker's details are as below:

Beneficiary Name: **Society for Applied Microwave Electronics Engineering and Research (SAMEER)**

Name and address of the Bank: Canara Bank, IIT Powai Branch Mumbai 400 076.

Account Number: 2724101086829, Type of the Account: Saving,

IFS Code: CNRB0002724, MICR: 400015129

B. **Refund of EMD:** Unsuccessful tenderer's earnest money will be returned to them **without any interest** once the tender is finalized. Successful bidder's earnest money will be returned **without any interest** only after submission of Security Deposit (Performance Security).

C. **Forfeiture of EMD:** Earnest money of a tenderer will be forfeited, if the tenderer withdraws or amends its tender or impairs or derogates from the tender in any respect within the period of validity of its tender. Successful tenderer's earnest money will be forfeited if tenderer does not execute purchase order / contract as per the terms and conditions mentioned therein.

D. **Exemption from submission of EMD :** Firms which are registered with Ministry of Electronics and Information Technology (MeitY) or All MSEs having registration as per provisions of the MSME Policy i.e. registration with District Industries Centre (DIC) or Khadi and Village Industries Commission (KVIC) or Khadi and Industries Board (KVIB) or Coir Board or National Small Industries Commission (NSIC) or directorate of Handicrafts and Handlooms or UdyogAadhaar Memorandum or any other body specified by Ministry of MSME are also exempt from payment of EMD. Proof of valid registration should be attached along with the Technical Bid, failing which the Tender will be rejected.

E. **Bid Security Declaration for EMD:** In lieu of submission of EMD, vendor may submit the "Bid Security Declaration" as per Annexure V, on their letterhead. It may be noted that the

Ministry of Finance had introduced the submission of Bid Security Declaration in lieu of the EMD, for a limited period only. If at any time the Ministry of Finance withdraws the facility of the submission of Bid Security Declaration or the relevant order of the said Ministry providing for the submission of Bid Security Declaration in lieu of the EMD ceases to be in force, the bidder will have to submit the EMD.

F. SAMEER is registered with Department of Scientific and Industrial Research (DSIR) for the purpose of availing custom duty exemption in terms of Government of India Notification No. 51/96-customs amended to 24/2007- customs dated 1st March 2007. **{approx. 5.20 % duty is applicable under this notification (5% Basic + cess/surcharge)}** and central excise duty exemption in terms of Government Notification no. 10/97-central excise amended to 16/2007-central excise dated 1st March 2007.

G. Concessional GST (5%) Rates will be applicable to SAMEER as per GOI, Ministry of Finance, Notification No. 47/2017-Integrated Tax (Rate) date. 14/11/2017. It is certified that SAMEER is an Autonomous Institute of the Ministry of Electronics & Information Technology, Govt. of India and it is registered with the (DSIR) Department of Scientific & Industrial Research, Government of India vide their Registration No. F.No.11/354/1997/-TU-V dated 18th March 2019, Valid up to 31.03.2022. It is also certified that the material/goods purchased is required for Research & Development in SAMEER. Duly signed GST concessional Certificate will be provided along with PO

3. Qualification Requirements and Tender Terms:

- A.** In a tender, either the Indian Agent on behalf of the Principal / OEM (Original Equipment Manufacturer) or Principal/OEM itself can bid but both cannot bid simultaneously for the same item/product in the same tender.
- B.** If an agent submits bid on behalf of the Principal/OEM, the same agent shall not submit a bid on behalf of another Principal/OEM in the same tender for the same item/product.
- C.** Failure to adhere to the above conditions will lead to automatic disqualification of the bid. Tenders submitted by the Indian agent on behalf of his principal /OEM should be supported with a letter of authority from the Principal/ OEM.
- D.** In case the manufacturer does not have an authorized representative in India at the time of submission of the bids and the company appoints a representative later on, SAMEER will only correspond with the manufacturer.

4. Promotion of Industry and Internal Trade:

Any bidder from a country which shares a land border with India will be eligible to bid in any procurement whether of goods, services or works only if they are registered with the Registration Committee, constituted by the Department of Promotion of Industry and Internal Trade (DPIIT). A valid registration certificate is to be attached. "Bidder from a country which shares a land border with India" means: -

- a. An entity incorporated, established or registered in such a country; or
- b. A subsidiary of an entity incorporated, established or registered in such a country; or
- c. An entity substantially controlled through entities incorporated, established or registered in such a country; or
- d. An entity whose beneficial owner is situated in such a country; or
- e. An Indian (or other) agent of such an entity; or

- f. A natural person who is a citizen of such a country; or
- g. A consortium or joint venture where any member of the consortium or joint venture falls under any of the above.

The Successful bidder shall not be allowed to sub-contract works to any contractor from a country which shares a land border with India, unless such contractor is registered with the Registration Committee, constituted by the DPIIT.

5. Performance Security:

- a. The successful bidder has to give Performance Security Deposit in the form of an Account Payee Demand Draft / Fixed Deposit Receipt from an Indian commercial bank / Bank Guarantee from an Indian commercial bank / a counter Letter of Credit (LC) from our bankers (in case of foreign order), for 3 % of Order Value, immediately after receiving the purchase order. Performance Security should remain valid for a period of sixty days beyond the date of all contractual obligations including warranty obligations.
- b. **Forfeiture of Security Deposit:** Successful tenderers Performance Security will be forfeited if the purchase order / contract is not executed as per the terms and conditions mentioned therein.
- c. **Refund of Security Deposit:** Performance Security Deposit without any interest will be returned only after complete execution of purchase order (including warranty period), as per purchase order terms and conditions.

6. Purchase Preference (Preference to Make in India):

As prescribed in “Public Procurement (Preference to Make in India) order 2017 of GOI, Department of Industrial Policy and Promotion” (OM No. P-45021/2/2017-PP (BE-II dated 15th June 2017 as amended from time to time), purchase preference will be given to the bidder. Necessary certification for local content must be submitted by the prospective bidders strictly as per Annexure VI”, on their letterhead.

7. Qualification requirements proposal

The qualification requirement proposal consisting of following details should be submitted along with the technical bid. Bidders are requested to submit their responses for the qualification requirements in four (4) parts, clearly labeled according to the following categories:

Part I –Board Resolution

- a. Board resolution authorizing the Bidder to sign/ execute the proposal as a binding document and also to execute all relevant agreements forming part of Tender document (Annexure-IV)

Part II – Details of the Organization

- a. This part must include a general background of the bidder organization (limited to 400 words) along with other details of the organization as per the format provided in Annexure–I (1). Enclose the mandatory supporting documents listed in format.
- b. The bidder must also provide the financial details of the organization as per format provided in Annexure – I (2). Enclose the mandatory supporting documents listed in format.

Part III – Relevant Project Experience of similar EMI/EMC Turnkey Projects

- a. Bidders must provide details (client organization, nature / scope of the project, project value) of **Supply, Installation, Commissioning, performance testing and validation of Automated Radiated Immunity Test System** as per the format provided in Annexure – II. The projects mentioned here should match with the projects quoted by the bidder in order to satisfy the qualification requirements. Enclose the mandatory supporting documents listed in format.

Part IV – Proof of Certification

Assessment and Certification of the required following letters

1. Declaration Letter

Declaration Letter on official letter as stated in Annexure III.

2. Relationship Declaration Letter:

If the bidder or any employee of the bidder or any person acting on behalf of the bidder, either directly or indirectly is closely related to any of the officers of the purchaser or alternatively, if any close relative of an officer of the purchaser has financial interest/stake in the bidder's firm, the same shall be disclosed by the bidder at the time of filling of Tender. Any failure to disclose the interest involved shall entitle the purchaser to rescind the contract without payment of any compensation to the Bidder.

The term close relative for this purpose would mean any person related by blood or marriage to the government servant.

8. Terms and conditions on 'Technical Bid' and 'Price Bid':

A. Technical Bid:

- ❖ Original manufacturer's technical specification sheet must support details provided in the technical bid with all the specifications/ relevant technical Literatures/Brochures/Catalogues for the item. Bids received without the printed technical specification sheet/brochures/catalogues for item will be technically disqualified.
- ❖ The Technical Bid should not contain any **price information**.
- ❖ The item and accessories quoted must be from original manufacturer and must be new (**No second-hand item/sub-item will be accepted**)
- ❖ In case the bidder is the authorized representative of a foreign manufacturer/supplier, a certificate from the principal must be included along with the technical bid.
- ❖ In case of deviation or substitution from the particular specification contained in the tender document, please indicate clearly as 'Alternative offer' and should contain sufficient details to show that the alternative would equally serve the purpose. All relevant technical data should be enclosed. In case of equipment, the itemized cost of essential accessories, optional accessories and spares required need to be specified.
- ❖ **Technical Bid should contain the following:**
 - a. **Earnest Money Deposit (EMD) / valid certificate for exemption or Bid Security Declaration.**
 - b. Tender Fee Receipt Number (if the tender document is purchased from Accounts Section, SAMEER, Mumbai)
 - c. Qualification requirement documents
 - d. Manufacturer's authorization letter
 - e. Technical Specification

- f. Technical Terms and Conditions of the tender (**Section II**) duly filled stamped and signed
 - g. Commercial Terms & Conditions (**Section III**) duly filled, stamped and signed.
 - h. A copy of '**Price Bid**' with all financial figures **suppressed/deleted**.
 - i. Technical compliance statement
 - j. Certification for local content (Annexure VI)
 - k. A valid registration certificate from DPIIT as per Sr. No. 4 of section I, if applicable
- *Note:** Technical Bid without the above information will not be considered.

B. Price Bid:

Price bid shall contain the following information:

- a. Quotation for the items (including the price break up for all options and accessories).
- b. TAXES, DUTIES AND LEVIES if applicable should be clearly specified.
- c. Discount offered on quoted price (considering that SAMEER is a R&D organization).
- d. Total price should be mentioned in both figures and words. Alterations, if any, should be attested/initiated
- e. The bid shall be free of hidden cost / ambiguity.
- f. There shall be no overwriting.

9. Submitting Tender/Bids

Tender is to be submitted in **two separate sealed covers, superscripted as 'Technical Bid' and 'Price Bid'** respectively and both these sealed covers are to be put in a bigger cover which should also be sealed and duly super scribed. Tender should be addressed to '**The Purchase Officer, SAMEER, IIT Campus, Powai, Mumbai 400 076**'. Tender reference number including 'Due Date' should be clearly mentioned on all covers. Name, Address and contact details of the vendor should be mentioned at back side of all covers.

Tenders/Bids should be dropped in Tender Box only. Tender box is placed at **SAMEER, Mumbai office.**

Note: Tender received via email, fax and Late Tenders will not be considered.

10. PRE-BID MEETING:

The Pre-bid meeting will be held in online mode on **10-05-2022** Interested vendors should send an email to purchase@sameer.gov.in for registration before the pre-bid meeting date, the link will be shared with registered vendors only. During the meeting bidders will have opportunity to discuss their technical proposal before submitting the actual bids.

11. OPENING OF BIDS:

The Technical Bids will be opened on the next working day after due date. Final selection of the Technical Bids will be based on the technical evaluation by **SAMEER**. Bidders may be invited to give a presentation if required by **SAMEER's technical evaluation team**. The Price Bid will not be opened on the day of opening of Technical Bids. The Price Bid of only those tenderers whose Technical Bid(s) are found technically suitable will be opened subsequently with intimation to the short-listed tenderers. The presentation may have to be made at SAMEER, Mumbai.

IMPORTANT NOTE:

- a. Participation in Public Tender Opening will be STRICTLY via ONLINE VIRTUAL PLATFORM.
- b. Vendors interested must fill the ONLINE FORM available at <http://publictender.sameer.gov.in/>, two working days before the tender opening date.
- c. On the day of tender opening, a virtual meeting link will be provided through mail to the vendors who have registered for participating in the tender. Only the vendors who have submitted the offer can participate in the online tender opening.
- d. It will be assumed that those Vendors who did not fill in the form are not interested in joining the Tender Opening Process.

12. CAPACITY OF BIDDER:

Any person signing a Tender shall submit documentary evidence that his signature on the Tender, submitted by him, is legally binding upon himself, his firm. If it is detected that the person so signing the Tender has no authority to do so, the Director General, SAMEER may, without prejudice to other civil and criminal remedies, not consider the Tender and hold the signatory liable for all costs and damages. The bidder shall produce a certificate from the Manufacturer of the offered product that they are the authorized dealer in India.

13. Intimation to Unsuccessful bidders

Unsuccessful bidders will not be formally informed of the result of their tender.

14. Date, Time and Venue for opening Tender:

Next working day after due date at 10.30 AM at SAMEER, IIT Campus, Powai, Mumbai – 400 076

15. Clarification:

For any clarification, please mail at purchase@sameer.gov.in

16. Corrigenda:

Corrigenda, if any, to the tender document will be published on our website www.sameer.gov.in. The bidders are advised to check our website, before submitting the bid

17. Training

The supplier should provide detailed onsite training at SAMEER EMC Center Navi Mumbai at free of cost, after installation and commissioning of the said AUTOMATED TEST SYSTEMS at SAMEER-EMC Center. This training shall be to the satisfaction of SAMEER- EMC Center Scientists.

18. Installation

Installation, commissioning, performance testing and validation of Radiated Immunity Test System will be the sole responsibility of the Supplier / Indian Agent. Installation with all infrastructural works have to be done by the supplier. The bid must include pre-requisite for installation of the system at SAMEER-EMC Centre Navi Mumbai. Bidders shall also indicate in their offer the total expected time required for installation/commissioning and testing of Radiated Immunity test system. However, the successful bidder shall arrange and complete the installation of the Radiated Immunity test system within 60 days from the date of arrival of the Radiated Immunity test system at SAMEER-EMC Centre Navi Mumbai.

CONDITIONS OF CONTRACT

1. DEFINITIONS:

In this Contract, the following terms shall be interpreted as indicated. The following words and expressions shall have the meanings hereby assigned to them:

- a) "Contract Price" means the price payable to the Supplier as specified in the Purchase Order, subject to such additions and adjustments thereto or deductions there from, as may be made pursuant to the Contract
- b) "Day" means calendar day.
- c) "Completion" means the fulfillment of the Related Services by the Supplier in accordance with the terms and conditions set forth in the Purchase Order.
- d) "Goods" means all of the commodities, raw material, machinery and equipment, and/or other materials that the Supplier is required to supply to the Purchaser as per the Purchase Order.
- e) "Related Services" means the services incidental to the supply of the goods, such as transportation, insurance, installation, commissioning, training and initial maintenance and other such obligations of the Supplier as per the Purchase Order.
- f) "Supplier" means the natural person, private or government entity, or a combination of the above, whose bid to perform the Contract has been accepted by the Purchaser and is named as such in the Purchase Order.
- g) "The final destination", where applicable, means the place of delivery as indicated in the Purchase Order.

2. SUPPLIER'S RESPONSIBILITIES:

The Supplier shall supply all the Goods and Related Services included in the Scope of Supply and the Delivery and Completion Schedule, as per Purchase Order Terms.

3. SUB-CONTRACTS:

The Supplier shall notify the Purchaser in writing of all subcontracts awarded under this Contract if not already specified in the bid. Such notification, in his original bid or later, shall not relieve the Supplier from any liability or obligation under the Contract. Sub-contract shall be only for bought-out items and sub-assemblies.

4. CONTRACT PRICE:

Prices charged by the Supplier for the Goods supplied and the Related Services performed under the Purchase Order shall not vary from the prices quoted by the Supplier in its bid.

5. COPYRIGHT:

The copyright in all drawings, documents, and other materials containing data and information furnished to the Purchaser by the Supplier herein shall remain vested in the Supplier, or, if they are furnished to the Purchaser directly or through the Supplier by any third party, including suppliers of materials, the copyright in such materials shall remain vested in such third party.

6. PATENT RIGHTS:

The Supplier shall indemnify the Purchaser against all third-party claims of infringement of patent, trademark or industrial design rights, copyrights arising from use of the Goods or any part thereof in India.

7. INSPECTIONS AND TEST:

The Supplier shall at its own expense and at no cost to the Purchaser carry out all such tests and/or inspections of the Goods and Related Services or as discussed during the course of finalizing the contract. The Purchaser or its representative shall have the right to inspect and/or to test the Goods to confirm their conformity to the contract specifications at no extra cost to the Purchaser. The Purchaser shall notify the Supplier in writing in a timely manner of the identity of any representatives retained for these purposes. The inspections and tests may be conducted on the premises of the Supplier or its subcontractor(s), at the point of delivery and/or at the Goods final destination. If conducted on the premises of the Supplier or its subcontractor(s), all reasonable facilities and assistance, including access to drawings and production data shall be furnished to the inspectors at no charge to the Purchaser.

8. PACKING INSTRUCTIONS:

Each package will be marked on three sides with proper paint/indelible ink, the following:

- i. Purchaser Name & Address
- ii. Item Nomenclature
- iii. Order/Contract No.
- iv. Country of Origin of Goods
- v. Packing list reference number

9. DELIVERY AND DOCUMENTS:

Delivery of the Goods and completion and related services shall be made by the Supplier in accordance with the terms specified by the Purchaser in the Purchase Order. The details of shipping and / or other documents to be furnished by the supplier will also be specified in Purchase Order.

Delivery of the goods should be made as per the Delivery Schedule incorporated in the Purchase Order. The supplier should immediately intimate the shipment details to enable to clear shipment from custom clearance within free period of time.

The supplier shall notify the purchaser the full details of the shipment including order/contract number, railway receipt number /AWB etc. and date, description of goods, quantity, name of the consignee, invoice etc. The supplier shall e-mail the following documents to the purchaser with a copy to the Clearing Agent.

- i. 3 copies of the Supplier invoice showing Order/contract number, goods, description, quantity, unit price, total amount;
- ii. Acknowledgement of receipt of goods from the consignee(s) by the transporter;
- iii. Certificate of Insurance;
- iv. Manufacturer's/Supplier's test certificate and guarantee;
- v. Inspection Certificate issued by the nominated inspection agency, if any, or the Supplier's factory inspection report;
- vi. Certificate of country of origin of the goods to be issued by the seller or a recognized Chamber of Commerce or another agency designated by the local Government for this purpose;
- vii. Two copies of the packing list identifying the contents of each package;

- viii. Airway Bill / Bill of Lading;
- ix. Certificate issued by the Manufacturer OR Beneficiary declaring that the goods have been manufactured as per the agreed specifications;
- x. Declaration by the Beneficiary that the goods are handed over to the freight forwarder for onward dispatch to the destination port

The above documents should be received by the Purchaser before arrival of the Goods, if not received; the Supplier will be responsible for any consequent expenses.

Please make appropriate commitments in writing that the instrument model being offered is current and is not likely to be obsolete within the next couple of years and that spare parts will be available for it for at least ten years after the installation. The Installation of the equipment is deemed complete only after all the sub-units of the main equipment such as EMI Receivers, Power Amplifiers, Test Generators, Antenna etc., are installed and tested as per the specifications in the offer/brochure/Purchase order and demonstrated to the satisfaction of the end user.

10. INSURANCE:

- a) **For Local Order:** To be arranged by supplier.

All the items shall be delivered to SAMEER-EMC Centre, CBD Belapur Navi Mumbai after obtaining a shipping release in the appropriate pro-forma from the purchaser. The Vendor shall be fully responsible for the safe delivery of all the items from and to SAMEER – EMC Center Navi Mumbai and shall satisfy the purchaser that adequate measures have been taken for the same.

- b) **For Import Order:** Will be arranged by SAMEER from FCA International Airport.

11. INCIDENTAL SERVICES:

The supplier may be required to provide any or all of the services, as discussed during the course of finalizing the contract. User Manual and detailed Service Manual to be supplied along with the equipment.

12. WARRANTY TERMS:

- a) Bidders (OEM/ Agents) must submit offers with at 3(three) years (Standard + Extended) comprehensive and onsite warranty after successful installation of the test system in all respects at Site, i.e., SAMEER-EMC Center, Navi Mumbai
- b) The Supplier should warrant that all the Goods are new, unused, and of the most recent or current models, and that they incorporate all recent improvements in design and materials, unless provided otherwise in the Contract.
- c) The Supplier is further required to warrant that the Goods shall be free from defects arising from any act or omission of the Supplier or arising from design, materials, and workmanship, under normal use in the conditions prevailing in India.
- d) The Purchaser shall give notice to the Supplier stating the nature of any such defects together with all available evidence thereof, promptly following the discovery thereof. The Purchaser shall afford all reasonable opportunity to the Supplier to inspect such

defects. Upon receipt of such notice, the Supplier shall, within a reasonable period of time expeditiously repair or replace the defective Goods or parts thereof, at no cost to the Purchaser.

- e) If during the period of warranty any component or spare part is need to be brought from abroad, all associated cost shall be borne by the supplier including the cost of customs duty. All incidental charges / additional duties incurred for importing warranty replacements are to be borne by the suppliers.
- f) All the costs involved in the replacement of the defective material/goods/parts, including the transportation cost, shall be borne by the supplier.
- g) If having been notified, the Supplier fails to remedy the defect within a reasonable period of time the Purchaser may proceed to take within a reasonable period such remedial action as may be necessary, at the Supplier's risk and expense and without prejudice to any other rights which the Purchaser may have against the Supplier under the Contract.
- h) If within the period of warranty, the equipment is reported by the buyer to have failed to perform as per specification, the seller shall either replace or rectify the same free of charge, maximum within 10-14 working days for spares available in India and 45 working days for spares to be imported after notification of such defects received by the seller. Warranty of equipment would be extended by such duration.

13. Bank Charges:

All banking charges outside India will be borne by the supplier and inside India charges will be borne by the purchaser.

14. AMENDMENTS:

The Purchaser may at any time, by written order given to the Supplier make changes within the general scope of the Contract at mutually agreed terms.

15. ASSIGNMENT:

The Supplier shall not assign, in whole or in part, its obligations to perform under the Contract, except with the Purchaser's prior written consent.

16. EXTENSION OF TIME:

Delivery of the Goods and performance of the Services shall be made by the Supplier in accordance with the time schedule specified in the contract. If at any time during performance of the Contract, the Supplier or its sub-contractor(s) should encounter conditions impeding timely delivery of the Goods and performance of Services, the Supplier shall promptly notify the Purchaser in writing of the fact of the delay, it's likely duration and its cause(s). As soon as practicable after receipt of the Supplier's notice, the Purchaser shall evaluate the situation and may, at its discretion, extend the Supplier's time for performance with or without penalty, in which case the extension shall be ratified by the parties by amendment of the Contract. Except as provided under the Force Majeure clause, a delay by the Supplier in the performance of its delivery

obligations shall render the Supplier liable to the imposition of penalty pursuant to Penalty Clause unless an extension of time is agreed upon pursuant to above clause without the application of penalty clause.

17. PENALTY CLAUSE:

Subject to clause on Force Majeure, if the Supplier fails to deliver any or all of the Goods or to perform the Services within the period(s) specified in the Purchase order the Purchaser shall, without prejudice to its other remedies under the Contract, deduct from the Contract Price, as penalty, a sum equivalent to 0.5 percent of the order value for each week or part thereof of delay until actual delivery or performance, up to a maximum deduction of 10 Percent. Once the maximum is reached, the Purchaser may consider termination of the Contract for Default.

18. TERMINATION FOR DEFAULT:

The Purchaser may, without prejudice to any other remedy for breach of contract, by written notice of default sent to the Supplier, terminate the Contract in whole or part

- a. If the Supplier fails to deliver any or all of the Goods within the period(s) specified in the contract, or within any extension thereof granted by the Purchaser
- b. If the Supplier fails to perform any other obligation(s) under the Contract.
- c. If the Supplier, in the judgment of the Purchaser has engaged in corrupt or fraudulent or collusive or coercive practices.

In the event the purchaser terminates the contract in whole or in part, he may take recourse to any one or more of the following actions:

- a. The Security deposit is to be forfeited;
- b. The purchaser may procure, upon such terms and in such manner as it deems appropriate, stores similar to those undelivered, and the supplier shall be liable for all available actions against it in terms of the contract.

19. TERMINATION FOR INSOLVENCY:

The Purchaser may at any time terminate the Contract by giving written notice to the Supplier, if the Supplier becomes bankrupt or otherwise insolvent. In this event, termination will be without compensation to the Supplier, provided that such termination will not prejudice or affect any right of action or remedy, which has accrued or will accrue thereafter to the Purchaser.

20. SETTLEMENT OF DISPUTES:

The Purchaser and the supplier shall make every effort to resolve amicably by direct informal negotiation any disagreement or dispute arising between them under or in connection with the Contract. If, after thirty (30) days from the commencement of such informal negotiations, the Purchaser and the Supplier are unable to resolve amicably a Contract dispute, either party may require that the dispute be referred for resolution to the formal mechanisms. These mechanisms may include, but are not limited to

conciliation mediated by a third party, adjudication in an agreed national or international forum, and national or international arbitration.

21. APPLICABLE LAW:

The Contract shall be interpreted in accordance with the laws of India and all disputes shall be subject to jurisdiction of courts located at Mumbai.

22. NOTICES:

Any notice given by one party to the other pursuant to this contract/order shall be sent to the other party in writing and confirmed to the other party's address specified in the Purchase Order.

23. SITE PREPARATION AND INSTALLATION:

The Purchaser is solely responsible for the construction of the equipment sites in compliance with the technical and environmental specifications. The Purchaser will designate the installation sites before the scheduled installation date to allow the Supplier to perform a site inspection to verify the appropriateness of the sites before the installation of the Equipment, if required. The supplier shall inform the purchaser about the site preparation, if any, needed for installation, of the goods at the purchaser's site immediately after placement of Purchase Order.

24. TAXES AND DUTIES:

Suppliers shall be entirely responsible for all taxes, duties, license fees, road permits, etc., incurred until delivery of the ordered Goods to the Purchaser at the final destination.

25. Commercial Invoice produced by Reprographic system or automated computerized system marked as original is not acceptable.

26. Integrity Pact and Contract:

The successful bidder may be required to sign an integrity pact with SAMEER. The integrity pact will commit SAMEER and the successful bidder to take all measures necessary to prevent corruption. The successful bidder will also be required to execute a contract with SAMEER, binding both the parties.

DECLARATION:

I/We _____ have read the entire terms and conditions of this Tender document and are agreeable to the terms and conditions mentioned herein.

Sign. of Bidder

Name:

Designation:

Company's Seal:

SECTION – II
TECHNICAL SPECIFICATIONS

1. Specifications of Automated Radiated Immunity test system as per as per MIL-STD 461 F and IEC 61000-4-3:2010

- The total EMI/EMC System shall be supplied in one phase. A tentative list of equipment and their broad specifications are given in the following sections.
- However, any other equipment/ components(s)/accessory not explicitly indicated in this requirement but is/are considered essential for the system performance, operation and maintenance shall be indicated and included or excluded in the offer.
- It is the sole responsibility of the vendor to prove the performance specifications of the integrated system as per the required standards, irrespective of the constituent equipment and their specifications offered or used in it.

Note: *The successful vendor needs to coordinate with Chamber supplier and electrical department during the installation of the test equipment.*

Note: *The successful vendor shall provide the automation software to carry out ALL the testing mentioned below as per the international standards.*

2. General requirements:

Test and Measurement Equipment of Automated Radiated immunity test system as per MIL-STD 461F and IEC 61000-4-3 need to be provided.

Sr. No.	Test	Details	Standard
1	RS103	Electric field, 2 MHz to 18 GHz, field strength 5V/m to 60V/m at 1m* distance	MIL-STD-461 F
2	Radiated Immunity test	Electric field, 80MHz to 6GHz, field strength 3V/m to 30V/m at 3mdistance	IEC 61000-4-3:2010

*Note: The test distance shall be from 0.5m to 1m in the frequency range of 2MHz to 120 MHz

3. Detailed Technical requirements:

Complete automated radiated Immunity test system to generate electric field strength of 5V/m to 60 V/m from 2 MHz to 18 GHz as per MIL-STD 461 F requirements at a distance of 1m* and 3V/m to 30V/m from 80 MHz to 6 GHz as per IEC 61000-4-3 at distance of 3m from transmitting antenna.

*Note: The test distance shall be from 0.5m to 1.0m in the frequency range of 2MHz to 120MHz.

The Radiated Immunity test system shall be provided in two racks:

a) RF Rack instrumentation - Below 1 GHz

b) Microwave Rack instrumentation - Above 1 GHz

The RF Rack instrumentation shall be kept in amplifier room and the Microwave rack instrumentation shall be kept inside the anechoic chamber.

The rack containing microwave instrumentation should have wheels for easy movement.

Broad specifications of Radiated Immunity Test Equipment (Up to 18 GHz)

Sr. No.	Equipment	Specifications	Remark
1	Microwave Signal Generator		
	Frequency range	10 kHz – 20 GHz	
	Resolution of setting	0.001HZ	
	Aging	<1 x 10 exp ⁽⁻⁷⁾ per year	
	Level	-20dBm to +10dBm or better	
	Level Resolution	0.01dB	
	Sweep	Type: Step and list sweep Frequency range: full band Trigger: Auto/free run, external, remote control	
	SSB Phase Noise	-95dBc or better at 10GHz @ 20kHz offset	
	Harmonics	-20 dBc or better throughout the band	
	Non harmonics	-50dBc or better throughout the band with 10kHz offset and 10dBm power	
	Modulation	AM, FM, PM, Pulse modulation (on/off ratio 40dB min). Built-in modulation source shall be available for all modulations.	
	Interface	USB/ IEEE-488/ LAN	
	Power Requirement	230 V +/-10% AC,50 Hz +/-3%	
	Calibration	Accredited calibration certificate and report containing calibration data for all important parameters as per manufacturer specification from an ISO/IEC 17025 Accredited calibration Laboratory.	
2	RF Power Amplifiers/ Microwave Power Amplifiers		
	RF output power	<ul style="list-style-type: none"> Should not exceed 1 dB compression point to produce field strength 5V/m to 60V/m at the face of EUT when placed at a distance of 1m from transmitting antenna as per MIL-STD-461F standard and 3V/m to 30V/m field at 3 m distance as per IEC-61000-4-3:2010 Std. 	
	Input for rated output	1 mW (0 dBm)	
	Modulation Capability	AM, FM, Pulse.	
	Input / output impedance	50 Ω	
	Remote interfaces	GPIB / IEEE 488/ RS 232	
	Cooling	Forced Air (Self-contained fans)/Liquid cooling	
	Safety and remote inter locks		
	Appropriate Amplifier Load to be provided for Amplifier performance test.		
	Shall come with in-built directional couplers to monitor the forward & reverse power		
2.1	RF Amplifier (10kHz –1000MHz) (*Single or multiple frequency bands to cover frequency up to 1GHz)		
	Frequency range	10kHz to 1.0GHz (or multiple frequency range)	
	Power output @1dB compression point	Frequency: 10kHz to 200MHz Power: 1300W Min. (If required field is not generated by mentioned power, suitable power and Gain of amplifier can be offered to generate 5V/m to 60V/m field at 1 m distance as per MIL-STD-461F standard.)	

		Frequency: 80MHz to 1GHz Power: 250W Min. (If required field is not generated by minimum mentioned power, suitable power and Gain of amplifier can be offered to generate 5V/m to 60V/m field at 1 m distance as per MIL-STD-461F standard and 3V/m to 30V/m field at 3 m distance as per IEC-61000-4-3:2010 Std.)	
	Harmonic Distortion	<- 15dBc	
	* Vendor can offer single or multiple amplifiers to cover the entire frequency band. The amplifier output power at 1 dB compression in each frequency band shall meet the specifications mentioned.		
2.2	Microwave Amplifier (1GHz – 18GHz) (*Single or multiple frequency bands)		
	* Vendor can offer single or multiple amplifiers to cover the entire frequency band to generate field strength from 5V/m to 60V/m field at 1 m distance from transmitting antenna as per MIL-STD-461F standard and 3V/m to 30V/m field at 3 m distance as per IEC-61000-4-3:2010 Std.		
2.2.1	Amplifier (1 GHz- 6 GHz)(*Single or multiple frequency bands)		
	Power output	50W (If required field is not generated by mentioned power, suitable power and Gain of amplifier can be offered to generate 5V/m to 60V/m field at 1 m distance as per MIL-STD-461F standard and 3V/m to 30V/m field at 3 m distance as per IEC-61000-4-3:2010 Std.)	
	Harmonic distortion	< -15dBc	
2.2.2	Amplifier (6 GHz -18 GHz)(*Single or multiple frequency bands)		
	Power output	40W (If required field is not generated by mentioned power suitable power and Gain of amplifier can be offered to generate 5V/m to 60V/m field at 1 m distance as per MIL-STD-461F)	
	Harmonic distortion	< -15dBc	
3	Directional Couplers		
	Frequency Range	10 kHz - 18 GHz (or multiple frequency range)	
	Power rating	3500 W: 10kHz-200 MHz: (If mentioned power handling is not sufficient, suitable power of DDC can be offered with respect to amplifier used in desired frequency band)	
		1000 W: 80MHz -1000 MHz (If mentioned power handling is not sufficient, suitable power of DDC can be offered with respect to amplifier used in desired frequency band)	
		1 GHz- 6 GHz: 250 W (If mentioned power handling is not sufficient, suitable power of DDC can be offered with respect to amplifier used in desired frequency band)	
		6 GHz - 18 GHz: 150 W (If mentioned power handling is not sufficient, suitable power of DDC can be offered with respect to amplifier used in desired frequency band)	
	Insertion loss	0.15dB - 0.5 dB	
	Coupling factor	30 dB - 60 dB	
	Impedance	50 Ω	
	*Vendor can offer single or multiple directional couplers to cover the entire frequency band to generate field strength from 5V/m to 60V/m field at 1 m distance as per MIL-STD-461F standard and 3V/m to 30V/m field at 3 m distance as per IEC-61000-4-3:2010 Std.		
4	Transmit Antennas		
4.1	Field Generator (Broad Band transmission line)		
	Frequency range	10 kHz -100 MHz	
	Minimum input power	3000W	
	Impedance	50Ω	
	Shall provide stand for mounting the field generator for height and polarization adjustments		
4.2	Bi-conical Antenna		
	Frequency range	30 MHz – 200 MHz	
	Minimum input power	3000 W (If Required field is not generated by mentioned input power of	

		antenna, suitable input power of antenna can be offered to generate 5V/m to 60V/m field at 1 m distance as per MIL-STD-461F standard and 3V/m to 30V/m field at 3 m distance as per IEC-61000-4-3:2010 Std.)	
	Gain	Suitable for generating field from 5V/m to 60 V/m as per MIL-STD-461F and 3V/m to 30V/m field at 3 m distance as per IEC-61000-4-3:2010 Std.	
	Shall provide stand for mounting the field generator for height and polarization adjustments.		
4.3	Bi-coni log Antenna		
	Frequency range	80MHz -1000MHz	
	Minimum input power	1000 W (If Required field is not generated by mentioned input power of antenna, suitable input power of antenna can be offered generate field from 3V/m to 30V/m at 3 m distance as per IEC-61000-4-3:2010 Std.)	
	Gain	Suitable for generating field from 3V/m to 30V/m at 3 m distance as per IEC-61000-4-3:2010 Std.	
	Impedance	50Ω	
	Shall provide Antenna mount adapters to accommodate different manufacturer Antenna masts (Qty: 2Nos.)		
4.4	Horn Antenna		
	Frequency range	200 MHz – 1000 MHz	
	Gain	Suitable for generating field from 5V/m to 60V/m at 1 m distance as per MIL-STD 461 F Std.	
	VSWR	< 2	
	Minimum input power	1000 W (If Required field is not generated by mentioned input power of antenna, suitable input power of antenna can be offered to generate field from 5V/m to 60V/m at 1 m distance as per MIL-STD 461 F Std.)	
	Impedance	50 Ω	
	Shall provide dedicated Antenna Mast for mounting the antenna for height and polarization adjustments		
4.5	Horn Antenna		
	Frequency range	1GHz – 6 GHz (* single and multiple frequency band)	
	Minimum input power	250W (If Required field is not generated by mentioned input power of antenna, suitable input power of antenna can be offered to generate field from 5V/m to 60V/m at 1 m distance as per MIL-STD 461 F Standard and 3V/m to 30V/m at 3 m distance as per IEC-61000-4-3:2010 Std.)	
	Gain	Suitable for generating field from 5V/m to 60V/m at 1 m distance as per MIL-STD 461 F Standard and 3V/m to 30V/m at 3 m distance as per IEC-61000-4-3:2010 Std.	
	VSWR	typ.2	
	Impedance	50 Ω	
	Shall provide dedicated tripod for mounting the antenna for height and polarization adjustments.		
	Vendor can offer single or multiple high gain horn antenna to cover the entire frequency band to generating field from 5V/m to 60V/m at 1 m distance as per MIL-STD 461 F Standard and 3V/m to 30V/m at 3 m distance as per IEC-61000-4-3:2010 Std.		
4.6	Horn Antenna		
	Frequency range	6 – 18 GHz (* single and multiple frequency band)	
	Minimum input power	250W (If Required field is not generated by mentioned input power of antenna, suitable input power of antenna can be offered to generate field from 5V/m to 60V/m at 1 m distance as per MIL-STD 461 F Standard.)	
	Gain	Suitable for generating field from 5V/m to 60V/m at 1 m distance as per MIL-STD 461 F Standard.	
	VSWR	typ. 2.0	
	Impedance	50 Ω	
	Shall provide dedicated tripod for mounting the antenna for height and polarization adjustments.		
	*Vendor can offer single or multiple high gain horn antenna to cover the entire frequency band to generating field from 5V/m to 60V/m at 1 m distance as per MIL-STD 461 F Standard.		

	Note:	
	<ul style="list-style-type: none"> i. Variation in the individual frequency band of the horn antennas is allowed to cover the frequency range from 1GHz-18 GHz ii. Antennas above 1GHz should be fixed in a mobile antenna rack that can be attached to the Microwave rack instrumentation which is kept inside the EMC chamber. iii. Antennas below 1GHz are to be supplied with tripod. 	
5	FIELD STRENGTH (V/m) MONITORING SYSTEM WITH ADJUSTABLE NON CONDUCTING PROBE STANDS	
5.1	Field Monitor	
	Frequency Range	10 kHz to 40 GHz
	Input	4 independent probes (minimum)
	Resolution:	1 V/ m or better
	Remote Control	IEEE 488, RS 232, USB
	Qty.	02 Nos.
5.2	Electric Field Probes (Compatible with the above field monitor)	
	Frequency Range	10 kHz to 40 GHz (The frequency may be split into multiple bands according to supplier's capability to cover the entire frequency range)
	Level Range	2V/m – 500 V/ m or better
	Qty.	02 Nos.
	Shall provide Field Probe Stand for each of the above Field probes with variable height adjustment	
6	MONITORING OF FORWARD AND REFLECTED POWER	
6.1	Dual Channel power meter with power sensors (Must be supplied to allow simultaneous monitoring of forward and reflected power of power amplifier during test.)	
	Frequency range	10 kHz to 40 GHz
	No. of channels	2
	Power Range	As per the power requirements from sensing port of directional couplers connected with Power Amplifier
	Impedance	50 Ω
	Range selection	Automatic / Manual
	Remote control operation IEEE 488/ USB / Ethernet (LAN)	
	Note:	
	<ul style="list-style-type: none"> i. Power meters and Power sensors shall have capability to measure unmodulated (CW) and broadband modulated power (average power, pulse power, peak envelop power, AM, reflected power). ii. Power meter should have good matching, low insertion loss and excellent inter modulation characteristics. 	
7	LISNs	
	Shall fulfill the requirements of MIL STD 461 F	
	RF Output Socket	50 Ω, BNC/ N
	Frequency range	9kHz - 50 MHz
	Impedance	50 Ω
	Inductance	50 μH
	Current rating	70Amp
	Quantity	04 Nos.
8	RF Cables, Interconnecting cables, adapters and terminations etc.	
	All the necessary RF cables, internal interconnecting cable assemblies of required length, adaptors and terminations shall be provided.	
9	Automation of Radiated Immunity test	
	RF test system controller (signal routing switch matrices of suitable power handling capability) to allow switching of all signal generators, all power amplifiers, all directional couplers, different RF loads. The controller should have system interlock capability.	
9.1	System controller	

	<p>All the necessary software, hardware and accessories including the interconnecting cable assemblies for fully automated Radiated immunity testing as per MIL STD 461F, IEC 61000-4-3 or any other customer specified requirement.</p> <p>The software should have the following features.</p> <ol style="list-style-type: none"> 1. Windows based, menu-driven, user friendly interactive operation 2. Modular and flexible enough to allow the user to adapt the system to new Regulations / Standards or extend or modify the hardware due to new test requirements. 3. User's selection of MIL STD 461F, IEC 61000- 4-3 STD or other Regulation test limits or EUT susceptibility threshold levels. 4. Program listing shall be provided for modification/up gradation 5. User's option to modify / debug/ update the program. 6. Software program should comply with any make of USB/RS232C/ IEEE 488 Compatible instruments. 7. Enable the system to calibrate the test equipment 8. Generating test reports in graphical and tabulated data format. 9. Ability to export reports to RTF, PDF or HTML 10. The software should have the feature of detecting the change of status of the EUT during testing, using the camera monitoring system (to be supplied by bidder). For example, it should detect changes in EUT status via Camera such as Light on / light off, Object in / object out, Analog indicator, Color change, Intensity change, Flashing lights, Motion freeze etc. 11. Measurements may be stopped during testing runtime to evaluate signals or repeat individual measurements while working in the semi – automatic mode. After evaluation the measurement can be resumed. 12. Graphical representation of the results on computer screen. 13. Download the results /data in internal / external memory. 	
10	RF Switching Unit	
	RF Signal Switching Unit with suitable power rating shall be provided between the signal generator and the Power amplifiers, between Power amplifier and antennas and any other RF path from 2MHz to 18 GHz. Terminations from 2MHz to 18 GHz with suitable power rating cable, adaptor, termination and attenuator set necessary to conduct test shall be provided. Test rack with power distribution system, Heat dissipation fans and all necessary cables shall be provided.	
11.	Accredited Calibration	
	Accredited calibration certificate and report containing calibration data for all important parameters each equipment as per manufacturer specification from an ISO/IEC 17025 Accredited calibration Laboratory shall be provided.	
12	Any other item considered desirable (Please OFFER)	

4. Technical Terms and Conditions

Sr. No.	Description	Description/Details
1.	System Engineering and Installation:	<ul style="list-style-type: none"> • The system shall have complete menu driven and operate or interactive software for automatic operation of the system for performing EMI/EMC tests as per MIL STD 461F and IEC 61000-4-3 standard. • The system must be configured and demonstrated in the manual mode also. • The system design should be divided into two parts <ul style="list-style-type: none"> a) Amplifiers from 10 KHz to 1 GHz to be placed in Amplifier Room. b) Amplifiers from 1 GHz to 18 GHz along with antennas mounted or movable rack to be placed inside the Chamber. • Supplier shall provide along with quotation theoretical calculations of meeting the field strength of 5V/m to 60 V/m at 1m distance from 2 MHz to 18 GHz as per MIL- STD-461 F and 3V/m to 30V/m at 3m distance as per IEC 61000-4-3 with the amplifiers, antennas with complete signal chain in place etc. quoted in the proposal. • Supplier should demonstrate the defined field strength with complete signal chain in place. • The system shall have the facility for self-calibration, Self- checks, self-diagnostic functions using USB /LAN/ RS232/ IEEE-488, bus compatible equipment, transducers and cables. • Standard, low loss, MIL rated coaxial cables with low RF leakage are to be used for interfacing / cabling of the system and these cables shall be insulated, abrasion resistant, flame retardant and terminated at appropriate connectors mating with those on the equipment, probes and adapters/bulkheads of the system. • The system shall be configured and engineered such that all the constituent equipment required for EMI/EMC testing as per MIL-STD-461F and IEC61000-4-3 Standard requirement is assembled in 19" system racks with lockable castor wheels. • Each 19" rack shall be provided with fans and internal cabling. It must include the following accessories apart from equipment: <ul style="list-style-type: none"> • Relay switch unit for automatic switching off signal paths to eliminate change of connectors manually. Relay switch unit should cover entire frequency range up to 18 GHz. This switching unit path should be operated through system controller. Power distribution unit which should include power line filter to eliminate conducted noise. <ul style="list-style-type: none"> • GPIB Bus extender for use when rack moves in the chamber. • POWER SUPPLY: The System with all its constituent equipment shall operate on single phase, 230V AC±10%, 50Hz±10%. • The equipment plugs shall be compatible to the Indian type socket.
2.	MANUALS:	<p>Two sets of hard copies and one set of soft copies for the following are to be supplied</p> <ul style="list-style-type: none"> • Detailed System operation • Detailed block diagrams with cable layouts for the system • Maintenance manuals

		<ul style="list-style-type: none"> • Manual for GPIB commands for test equipments • Service manuals for each constituent equipment along with block diagrams • Software support for future upgradation. • Calibration Certificates for Equipment/Accessories.
3.	References	<p>The supplier shall provide following reference cases as information along with technical offer:</p> <ul style="list-style-type: none"> • A minimum of three similar test systems with similar test instrumentation has successfully executed and installed by the vendor. • The vendor shall produce corresponding address and names to be contacted. • The vendor shall produce at least three reference of end customer for the successful supply and installation of test system of similar specifications.
4.	Local service support	<ul style="list-style-type: none"> • Calibration, maintenance and repair/service facilities should be available in India. • Supplier shall provide required spare parts and service support for each equipment for 10 years.
5.	Factory acceptance test	<p>Two or Three scientists will be deputed from the SAMEER for carrying out acceptance test procedure at firm's premises for 5 working days for Factory Acceptance Test. Travel and Lodging expenses will be borne by SAMEER. In case no one is deputed from SAMEER due to unforeseen problems, an integrated test report shall be submitted by the vendor before dispatching the system.</p>
6.	Training at Vendor/Customer Sites	<p>The supplier should provide detailed onsite training at SAMEER-EMC Centre Navi Mumbai at free of cost, after installation and commissioning of the said AUTOMATED TEST SYSTEMS at SAMEER-EMC Centre.</p>
	Acceptance of facility	<p>a) Factory Acceptance Test: Test plan for FAT and training program shall be sent for acceptance by SAMEER before inviting for FAT. All instruments and accessories shall be verified during the factory acceptance test at vendor's site prior to its delivery to the purchaser. The results of these tests shall be provided. The supplier shall intimate at least 60 days in advance for FAT so as to make travel plans by SAMEER scientists.</p> <p>b) Installation & Commissioning in Labs and Acceptance Test: All instruments and accessories shall be installed, commissioned and demonstrated at SAMEER. All the acceptance tests shall be performed as per required specifications for the full power and field levels required by the regulations.</p>
7	Delivery schedule	<ul style="list-style-type: none"> • The total System shall be supplied in one phase and within eight months after rereleasing of purchase order • However, any other equipment/ components(s)/accessory not explicitly indicated in this requirement but is/are considered essential for the system performance, operation and maintenance shall be indicated and included or excluded in the offer

		<ul style="list-style-type: none"> • Onsite installation and acceptance tests will be made within about 3 months after the system arrives at customer site.
8	Warranty	<p>a) The supplier shall warrant that the equipment to be supplied shall be new and free from all defects and faults in materials used workmanship and manufacture and shall perform in full conformity with the specifications and applicable standards.</p> <p>b) The system supplied shall be covered by a warranty of three 3years (Standard + Extended) from the date of acceptance after I&C in labs as mentioned above including for the equipment manufactured by 3rd party <u>suppliers</u>.</p> <p>c) If within the period of warranty, the equipment is reported by the buyer to have failed to perform as per specification, the seller shall either replace or rectify the same free of charge, maximum within 10-14 working days for spares available in India and 45 working days for spares to be imported after notification of such defects received by the seller. Warranty of equipment would be extended by such duration.</p> <p>d) If any customs duty or any other Govt. levy is to be paid including the freight charges on the replacement components/modules, it will be to the supplier's accounts only during warranty period.</p>

SECTION – III

COMMERCIAL & OTHER TERMS AND CONDITIONS

1. Commercial & Other Terms and Conditions

Vendor to state Complied / Not Complied – Deviations if any in the given column

Sr. No.	DESCRIPTION	DESCRIPTION	Comply /Not comply /Deviation
1	PRICES	<p>a) For Import Order: Prices quoted should be on the basis of FCA (nearest Int. Airport at shipper’s country), Name of the Airport should be mentioned clearly.</p> <p>b) For Local Order: Prices should include delivery charges up to SAMEER EMC Center, CBD Belapur, Navi Mumbai. Any additional charges, taxes and levies should be clearly mentioned. In the event of a Purchase Order, it will be the responsibility of the supplier to pay whatever charges are payable to different agencies in their country. The purchaser will not pay any charges other than the agreed price as per the contract.</p>	
2	TAXES, DUTIES AND LEVIES APPLICABLE	<p>(Existing applicable rates should be mentioned)</p> <p>1.</p> <p>2.</p> <p>3.</p> <p>4.</p> <p>5.</p>	
3	PACKING	<p>The Supplier shall provide such packing of the Goods as is required to prevent their damage or deterioration during transit to their final destination. The packing shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit and open storage. Packing case size and weights shall take into consideration, where appropriate, the remoteness of the Goods' final destination and the absence of heavy handling facilities at all points in transit. In order to maintain safety of the equipment, we prefer to have wooden crating with adequate cushion inside for transportation of any goods. The Material to be dispatched with International standard packing to withstand Rigors, and to avoid any transit damages.</p>	

4	FREIGHT AND INSURANCE	<p>a) For Local Order: To be arranged by supplier. All the items shall be delivered to SAMEER-EMC Centre, CBD Belapur Navi Mumbai after obtaining a shipping release in the appropriate pro-forma from the purchaser. The Vendor shall be fully responsible for the safe delivery of all the items from and to SAMEER – EMC Center Navi Mumbai and shall satisfy the purchaser that adequate measures have been taken for the same.</p> <p>b) For Import Order: Will be arranged by SAMEER from FCA International Airport.</p>	
5	ANY OTHER APPLICABLE CHARGES	SUPPLIER TO SPECIFY	
6	MODE OF DELIVERY	<p>a) For Local Order: By road</p> <p>b) For Import Order: By Air</p>	
7	DELIVERY SCHEDULE	<p>All the material needs to be delivered within six months from the date of purchase order.</p> <p>The installation, commissioning and handing over of all the deliverables under the scope of purchase order need to be completed within eight months from the date of purchase order.</p>	
8	WARRANTY	<p>3 Years (Comprehensive onsite warranty)</p> <p>If standard warranty does not cover 3 years period, additional charges to comply the 3 years warranty should be quoted in price bid under warranty section</p>	
9	PAYMENT TERMS	<p>a. For Import order: 90 % against Irrevocable Letter of Credit or Sight Draft and balance 10 % through wire transfer after acceptance of material at SAMEER EMC Centre Navi Mumbai.</p> <p>b. For Local order: 75 % after delivery followed by inspection balance 25 % against Test, Installation & acceptance (whichever is applicable) of material / consignment, at SAMEER- EMC Centre Navi Mumbai.</p>	
10	VALIDITY OF QUOTATION	180 DAYS MIN FROM THE DUE DATE.	
11	Tender Fee (Including GST)	<p>Tender document may be purchased from the Accounts Section of SAMEER, Mumbai on cash payment or by Demand Draft from any commercial bank of India, drawn in favour of “Society for Applied Microwave Electronics Engineering and Research”.</p> <p>If the Tender document is downloaded from website, then the Tender Fee is not applicable.</p>	

12	EARNEST MONEY DEPOSIT (EMD)	<p>a. Earnest Money Deposit (EMD) should be submitted in the form of Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque or Bank Guarantee from any commercial bank of India, drawn in favour of "Society for Applied Microwave Electronics Engineering and Research".</p> <p>b. For exemption, please refer SECTION I, 2 d</p> <p>c. In lieu of EMD, vendor may submit "Bid security Declaration" on their letterhead. (vendor should mention the applicable option from above in the Remark column)</p>	
13	PERFORMANCE SECURTY	<p>The successful bidder has to give Security Deposit in the form of an Account Payee Demand Draft / Fixed Deposit Receipt from an Indian commercial bank / Bank Guarantee from an Indian commercial bank / a counter Letter of Credit (LC) from our bankers (in case of foreign order), for 3 % of Order Value, immediately after receiving the purchase order. Performance Security should remain valid for a period of sixty days beyond the date of all contractual obligations including warranty obligations.</p>	
14	EXEMPTION FOR Custom Duty and Excise Duty	<p>SAMEER is registered with Department of Scientific and Industrial Research (DSIR) for the purpose of availing custom duty exemption in terms of Government of India Notification No. 51/96-customs amended to 24/2007-customs dated 1st March 2007. {approx. 5.20% duty is applicable under this notification (5 % Basic + cess / surcharge)} and central excise duty exemption in terms of Government Notification no. 10/97-central excise amended to 16/2007-central excise dated 1st March 2007.</p>	
15	SHARING LAND BORDER WITH INDIA	<p>a. Yes / No b. If Yes, whether necessary valid registration certificate is attached along with Technical bid.</p>	
16	JURISDICTION	MUMBAI	

SECTION – IV

FORMATS FOR PRICE BID AND FORMS

SECTION- IV

Format for Price Bid (in INR)

IMPORTANT

Vendor is required to submit the price bid in the given format on their LETTER HEAD.
One copy of the price bid without the financial figure should be enclosed along with the Technical Bid.

1. Format for Price Bid (in INR)

IMPORTANT

Vendor is required to submit the price bid in the given format on their LETTER HEAD.
One copy of the price bid without the financial figure should be enclosed along with the Technical Bid.

ITEM	DESCRIPTION	QUANTITY	RATE IN INR	PRICE IN INR
I	Supply, Installation, Commissioning, performance testing and validation of Automated Radiated Immunity Test System comply with Section-II (Technical specifications), Technical terms and conditions and Section-III (Commercial & other terms and conditions).			
II	Additional charges to comply three years warranty (If standard warranty does not cover 3 years period)			
III	OTHER CHARGES			
1.	TAXES AND DUTIES APPLICABLE ON TEMS			
	I			
	II			
	III			
	IV			
2.	FREIGHT from Vendor's manufacturing facility to SAMEER-EMC Centre Navi Mumbai			
3.	INSURANCE			
4.	ADDITIONAL CHARGES IF ANY			
	TOTAL AMOUNT			
	TOTAL AMOUNT (IN WORDS)			
Vendor's Signature:		Seal:		

2. Format for Price Bid (in Foreign currency)

IMPORTANT

Vendor is required to submit the price bid in the given format on their LETTER HEAD.
One copy of the price bid without the financial figure should be enclosed along with the Technical Bid.

ITEM	DESCRIPTION	QUANTITY	RATE IN (Name of currency)	PRICE IN (Name of currency)
I	Supply, Installation, Commissioning, performance testing and validation of Automated Radiated Immunity Test System comply with Section-II (Technical specifications), Technical terms and conditions and Section-III (Commercial & other terms and conditions).			
II	Additional charges to comply three years warranty (If standard warranty does not cover 3 years period)			
III	ADDITIONAL CHARGES IF ANY			
IV	FCA CHARGES (Name of the Int. Airport) (From Vendor's manufacturing/shipping facility to Manufacturer's country's Intl. Airport			
	TOTALAMOUNT			
	TOTAL AMOUNT (IN WORDS)			
	<p style="text-align: center;">Vendor's Signature: Seal:</p>			

Annexure – I

1. Company Details

1	Name of the Company	
2.	Detailed Address for Correspondence	
3.	Contact Person's Name with Telephone and Email Details (To whom all references shall be made regarding this Tender)	
4.	Year of Registration/ Incorporation	
5.	Date of Commencement of Business	
6.	Address of the Headquarters	
7.	Number of Employees as on tender submitting date	
8.	List of similar projects/systems developed for other clients	
9.	Other Relevant Information	
10.	Mandatory Supporting Documents a) Enclose a copy of Registration document (in case of a company not being a government body/undertaking/PSU), Certificate of Incorporation from Registrar of Companies (ROC) b) Relevant sections of Memorandum of Association of the company or filings to the stock exchanges to indicate the nature of business of the company	

2. Financial Details of the Organization

	FY 2018-19	FY 2019-20	FY 2020-21
Revenue (in INR Crores)			
Profit before Tax (in INR Crores)			
Revenue from similar Project/system Developed/delivered (In INR Crores)			
Other Relevant Information			
Mandatory Supporting Documents: a. Auditor Certified financial statements for the Last three financial years; 2018-19, 2019-20, and 2020-21 (Please include only the sections on P&L, revenue and the assets, not the entire balance sheet.) b. Audited financial statements certified by the Company auditor for the 2020-21 (in case the auditor certified statement for 2019-20 is not available)			

Annexure – II

1. Prior Experiences

Following details for each similar project/system developed/delivered should be attached. The photograph of the product/system developed and feedback letter from client may be also be attached.

1	Name of Client / Firm:	
2	Address and contact details	
3	Nature of Assignment	
4	Description of Project / system along with technical specs	
5	Current Status	
6.	Approx. value of the Assignment /job provided by your firm under the contract (in Rupees):	
7.	Mandatory Supporting Documents: a) Letter from the client duly indicating the salient points like cost, period, scope of project and successful completion of the projects	
8.	Complete details of the scope of the project shall be provided to indicate the relevance to the Qualification criterion.	

Annexure – III

1. Declaration Letter

(Company letterhead)

[Date]

To,

Director General,
SAMEER, IIT Campus, Powai
Mumbai – 400 076

Dear Sir,

Ref: Tender Notice for Selection of Service Provider for supplying of **Supply, Installation, Commissioning, performance testing and validation of Automated Radiated Immunity Test System** at SAMEER-EMC Centre, Navi Mumbai.

Having examined the Tender document, the receipt of which is hereby duly acknowledged, we, the undersigned, intend to submit qualification requirements in response to the Tender document for **Supply, Installation, Commissioning, performance testing and validation of Automated Radiated Immunity Test System**

We attach hereto the response as required by the tender, which constitutes our proposal.

Primary and Secondary contacts for our company are:

	Primary	Secondary
Contact person Name		
Title		
Company Name		
Address		
Phone No.		
Mobile No.		
Email id		

We confirm that the information contained in this response or any part thereof, including its exhibits and other documents or instruments delivered or to be delivered to SAMEER is true, accurate verifiable and complete. This response includes all information necessary to ensure that the statements therein do not in whole or in part mislead the department in its short-listing process.

We fully understand and agree to comply that on verification, if any of the information provided here is found to be misleading the short-listing process, we are liable to be dismissed from the selection

process or termination of the contract during the project, if selected to do so, for Supply, Install and Commission of EMI/ EMC Test Equipment as per MIL-STD 461F.

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

We are not black-listed by any Government Organization/ Public Sector Undertaking

We agree for unconditional acceptance of all the terms and conditions set out in the Tender document.

It is hereby confirmed that I/We are entitled to act on behalf of our company/ corporation/ firm/ organization and empowered to sign this document as well as such other documents, which may be required in this connection.

Dated this Day of 2021

(Signature)

(In the capacity of)

(Name)

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

(Name and Address of Company) Seal/Stamp of bidder

Witness Signature:

Witness Name:

Witness Address:

Annexure – IV

1. Board Resolution form

CERTIFICATE AS TO AUTHORISED SIGNATORIES

I,, the Company Secretary
of....., certify that who signed
the above Bid is authorized to do so and bind the company by authority of its board/ governing body.

Date:

Signature:

(Name)

(Company Seal)

Annexure – V

Bid Security Declaration Form

Dated:

To,

Registrar,
Society for Applied Microwave Electronics Engineering and Research
IIT Campus, Powai,
Mumbai 400076

Sir,

I, the undersigned, declare that:

1. I am duly authorized to submit bid and undertakings in response to your tender No._____.
2. I understand that the bidders are required to submit Bid Security of the prescribed amount, while submitting bids in response to tender enquiries of the Society for Applied Microwave Electronics Engineering and Research (SAMEER).
3. As an alternative to the Bid Security, I hereby declare that my firm, which is submitting the current bid, will be suspended for the period of time specified in the request for bid document or for a period of three years if no such period of time is specified in the request for bid document, from being eligible to submit bids for contracts with SAMEER,
 - i. if we withdraw or modify the bid during the period of validity (including the extended period of validity) **or**
 - ii. If we fail to sign the contract, or to submit the performance security before the deadline prescribed in the request for bid document or in the communication sent by SAMEER.

Signature with seal:

Name: _____

Designation _____

Name of the firm _____

Place _____

Annexure - VI

Self-Certification for Local Content
(Should be on the letter head of the bidder)

*We [name of manufacturer] hereby confirm in respect of quoted item(s) that Local Content is equal to or more than 50% and we come under 'Class-I Local Supplier' Category. Being 'Class-I Local Supplier', we are eligible for Purchase Preference in accordance with Department of Promotion of Industry and Internal Trade's Order No. P45021/2/2017-PP (B.E.-II) dated 15.06.2017, as modified, vide the said Department's orders No. P-45021/2/2017-PP(BE-II) dated 28/05/2018, No. P-45021/2/2017-PP(BE-II) dated 29/05/2019 and No. P-45021/2/2017-PP(BE-II) dated 04/06/2020

OR

*We [name of manufacturer] hereby confirm in respect of quoted items(s) that Local Content is more than 20% but less than 50% and we come under 'Class-II Local Supplier' Category, as per the said order of Department of Promotion of Industry and Internal Trade

OR

*We [name of manufacturer] hereby confirm in respect of quoted items(s) that Local Content is less than or equal to 20% and we come under 'Non Local Supplier' Category.

The details of the location (s) at which the local value addition made is /are as under:

- 1.....
- 2.....
- 3.....

*Strike out whichever is not applicable

Date:

Seal & Signature of the Bidder

NOTE: -

- 1 Bidder should submit Self-certification that the item offered meets the minimum local content (as above) giving details of the location(s) at which the local value addition is made in case the bidder wishes to avail the benefits under the make in India policy, if applicable.
2. In cases of procurement for a value in excess of Rs. 10 crores, the local supplier shall be required to provide a certificate from the statutory auditor or cost auditor of the company (in the case of companies) or from a practicing cost accountant or practicing chartered accountant (in respect of suppliers other than companies) giving the percentage of local content to avail the benefits under the make in India policy, if applicable.
3. The orders quoted above are available on our website (<https://www.sameer.gov.in/tenders.asp#page>).