

**GOVERNMENT OF INDIA
DEPARTMENT OF SPACE
LABORATORY FOR ELECTRO OPTICS SYSTEM (LEOS)
BANGALORE**

**Tender for AMSC FOR TEMPERATURE TEST CHAMBERS, HUMIDITY
CHAMBERS AND THERMAL SHOCK CHAMBERS**

Bids to be submitted online

Tender No.: LEOS/LEOS/LE202200016801 dated 21-06-2022

A. Tender Details

Tender No :	LEOS/LEOS/LE202200016801
Tender Date :	21-06-2022
Tender Classification:	SERVICES
Purchase Entity :	LEOS
Centre :	LABORATORY FOR ELECTRO OPTICS SYSTEM (LEOS)

Procurement of AMSC FOR TEMPERATURE TEST CHAMBERS, HUMIDITY CHAMBERS AND THERMAL SHOCK CHAMBERS

- 1.0 Please provide a copy of Establishment Registration Certificate issued by the Competent Authority.
- 2.0 The Service Provider shall provide a copy of valid Service Tax Registration Certificate issued by the Competent Authority.
- 3.0 The Service Provider shall provide a copy of Sales Tax Registration Certificate issued by the Competent Authority.
- 4.0 Price: The Price mentioned for the AMSC shall be Firm and Fixed during the tenure of the Contract.
- 5.0 The proposal is for entering into Non-Comprehensive Annual Maintenance Service Contract/Comprehensive AMSC for a period of One/Two/Three years as the case may be besides attending to unlimited breakdown calls. The Contract is extendable for One more year upon mutual consent with the same Terms and Conditions.
- 6.0 Security Deposit: The successful Service Provider shall execute Security Deposit [SD] for 3% of the value of the AMSC towards satisfactory execution of the Contract. The Security Deposit shall be executed through Demand Draft/Banker Cheque/ Fixed Deposit Receipts or Bank Guarantee issued by a Nationalized Bank/Scheduled Bank valid till the Contract is completely executed. The BG shall be executed on a Non-Judicial stamp paper of appropriate value as per our specimen.
In case the successful Service Provider fails to furnish the Security Deposit within 20 days after the receipt of Contract or on Signing of the Contract or any extension thereof, the Contract shall be cancelled or terminated and EMD if any, shall be forfeited. Security Deposit will not carry any Interest and will be returned after the completion of the Contract.
- 7.0 Material Bank Guarantee: In case of major repair of the Equipment/Spare Part/Accessory etc., the successful Service Provider shall furnish Bank Guarantee towards the cost of Material to be taken out to Factory/Workshop for carrying out repairs. The BG is to be kept valid till the receipt and acceptance of the repaired unit.
- 8.0 Spare Parts for Non-Comprehensive AMSC: Service Receiver shall arrange to provide Spare Parts as and when required for Repair/Maintenance. In case, Spare Parts are not available with the

Service Receiver, the same shall be provided by the Service Provider against payment including Taxes, if any. The Genuine Spares shall be supplied or incorporated/replaced into the System only after a written confirmation is issued by the Service Receiver. The old/worn out parts replaced by new parts shall be the property of the Service Receiver and hence to be surrendered to the Service Receiver and due acknowledgement to be obtained from the Focal Point, LEOS.

9.0 Spare Parts for Comprehensive AMSC: The Service Provider shall be completely responsible to Supply the required genuine Spare Parts at his Cost covered under the Comprehensive AMSC.

The Travel Expenses, Boarding/Lodging for the Service Engineers shall be borne by the Service Provider only.

10.0 Payment Terms: Advance Payment if any, will not be considered. Only Pro-rata Payment Monthly/Quarterly/Half Yearly etc., will be considered after completion of service supported by an Original Service Report and Invoice backed by a Certificate issued by Focal Point, LEOS and duly approved by Authorized Officer.

11.0 Submission of Bills: Bills should be addressed to Accounts Officer, LEOS, 1st Cross , 1st Stage, Bengaluru-560 058.

12.0 Taxes: Please specify the correct percentage of Applicable Taxes if any.

13.0 Down-Time Compensation: In case, If the Break-Down calls are not attend within 08 Hours of lodging the complaint, Down-Time Compensation @ 0.5% of the Service Charges applicable to the particular Unit/System/Equipment etc., per day shall be recovered from the Service Provider.

14.0 Income Tax: Income Tax will be deducted at source as may be applicable and Accounts Officer, LEOS will issue necessary I.T Certificate. Please mention PAN.

15.0 Termination and short closing of Contract: Under the normal circumstances, termination/ short closing of contract is not foreseen. However, LEOS reserves the right to Terminate the Contract in whole or in part by giving 30 Days prior notice in the following circumstances:-

i. Due to repeated non-performance in the execution of P.O/Contract.

ii. If the Contractor fails to deliver/render the services within the stipulated time schedule or any extension thereof, granted by the Purchaser.

iii. If the Contractor is not in a position to either rectify the defects or offer the Stores conforming to the contracted Quality Standards.

iv. If the Contractor is unable to rectify the defects or offer replacements in lieu of defective items.

v. If the contractor fails to perform any other obligations under this P.O/Contract.

vi. If the Contractor becomes bankrupt or otherwise insolvent.

vii. Owing to deficiency of service, breach of Contract.

viii. For inefficiency, indiscipline, irregularity, insincerity, indifference in work, disobedience, doubtful credentials/integrity, etc., at any point of time during the Contract period.

ix. If the Contractor fails to Honor the whole or any part of PO/Contract including failure to deliver the Contracted Stores/Render services within the time stipulated in the PO/Contract.

x. If the Contractor is found to have made any false or fraudulent declaration or statement to obtain the Contract or he is found to be indulging in unethical or unfair trade practices.

xi. When both the parties agree mutually.

xii. Any special circumstances, which must be recorded to justify the cancellation or termination of PO/Contract.

xiii. Without assigning any reasons.

16.0 Services: Preventive Maintenance Services shall normally be carried out only on working days between 09.00 AM and 04.00 PM. However, the Service Provider shall attend Emergent calls outside office hours and/or even on Holidays and/or as and when required. It shall be the complete responsibility of the Service Provider to keep the Units/Systems/Equipments etc., covered under this Contract in sound and working condition during the tenure of the Contract.

17.0 Removal of Equipment to Service Providers Works: The Service Provider shall make best efforts to repair the Units/Systems/Equipments etc., covered under the Contract at the Service Receiver's premises. However, in case any equipments covered under this Contract are required to be taken out to Service Provider's premises for repair, the same shall be subject to furnishing of Material Bank Guarantee towards the cost of the Units/Systems/Equipments etc., to be taken out for repair.

18.0 Extension of Contract: In case the Preventive Maintenance Service could not be carried out within the specific block period by the Service Provider for reasons beyond their control, the Service Receiver shall have an option to extend the period of Contract proportionately.

19.0 Subletting of Contract: The Contract shall not be Sublet, Transferred or assigned to any other Firm, Person, agencies, etc., without the prior written approval of Service Receiver. In case of violation of this Clause the Service Provider/Contractor shall be solely responsible for any Legal action besides Termination of the Contract.

20.0 Compensation for Damages caused for Persons Goods, Property: The Service Provider shall indemnify and hold harmless, Service Receiver and/or any Officer, Employees or assignee thereof, against any loss, damage or expense resulting from damage to property or personnel injury arising out of willful misconduct or gross negligence of the Service Provider or their personnel in the execution of the work under this Contract. The Service Provider shall, at its expense defend any suit or proceedings brought against Service Receiver on account thereof, and shall satisfy all judgments and pay all expenses, which may be incurred by or rendered against them, or any of them in connection therewith.

Service Receiver shall not be responsible for any damages, loss, claims, financial and other injury for any workforce in course of their performance of their duties or for payment towards any compensation.

21.0 Antecedent Verification: The personnel deployed to Service Receiver premises for carrying out AMSC, Antecedent / Police Verification shall be got done by the successful Service Provider if necessary and such records will have to be produced to Service Receiver on demand.

22.0 Parallel Contract: Service Receiver reserves the right:

To enter into Parallel Contract simultaneously or at any time during the period of the Contract with one or more Service Providers.

To place adhoc Contract[s] simultaneously or at any time during the period of Contract with one or more Service Providers.

23.0 Applicable Law: The Contract shall be Interpreted, Construed and Governed by Laws of India.

24.0 Jurisdiction: The Courts within the jurisdiction of Bangalore shall have to deal with and decide any matter arising out of this contract.

25.0 Secrecy and Non-Disclosure Agreement: All the Drawings, Documents, Specifications, Formats, Equipments Data and Components issued by LEOS Satellite Centre, Bangalore in connection with the execution of the Contract shall be handled with utmost care and caution by the Service Provider and

shall remain the property of Service Receiver and shall not be passed on or sold or disclose to third parties for any exploitation, commercial or otherwise without the express written permission of Service Receiver.

The Service Provider shall indemnify LEOS Centre, Bangalore from infringement of patents and other copy rights to this effect. This is required in order to protect the interest of Service Receiver as far as the Services are concerned. No hard/Photostat copies will be retained by the Service Provider. The Secrecy and Non-Disclosure Agreement is to be executed by the Service Provider while accepting the Contract,

26. Provide BANK DETAILS, contract numbers and Mail ID.

A.1 Tender Schedule

Bid Submission Start Date :	21-06-2022 17:00
Bid Clarification Due Date :	13-07-2022 17:00
Bid Submission Due Date :	14-07-2022 16:00
Bid Opening Date :	15-07-2022 10:30
Price Bid Opening Date :	21-07-2022 10:30

B. Tender Attachments

Technical Write-up/Drawings

Document : Specifications

Instructions To Vendors

1. Tender Terms & Conditions for AMSC

1. All amounts shall be indicated both in words as well as in figures. Where there is difference between amount quoted in words and figures, the amount quoted in words shall prevail over the amount mentioned in figures.
2. Antecedent Verification: The personnel deployed to Service Receiver premises for carrying out AMSC, Antecedent / Police Verification shall be got done by the successful Service Provider if necessary and such records will have to be produced to Service Receiver on demand.
3. Applicable Law: The Contract shall be Interpreted, Construed and Governed by Laws of India.
4. Arbitration: In the event of any dispute or difference relating to the interpretation and application of the contract/work order, such dispute or difference shall be settled amicably by mutual consultations or through the good offices of the respective parties. If such resolution is not possible then the unresolved dispute or difference shall be referred to the Sole Arbitrator in accordance with the Rules and Procedures of the Arbitration and Conciliation Act 1996 or any modification thereof. The decision of the Arbitrator shall be final and binding on the parties. The expenses for the Arbitration shall be paid as may be determined by the Arbitrator.
5. Change in the Name and Address of Supplier: In the event of Change in Name and Address of Supplier, Documentary Proof issued by the appropriate Government Authorities shall be produced for such change.
6. Compensation for Damages caused for Persons Goods, Property: The Service Provider shall indemnify and hold harmless, Service Receiver and/or any Officer, Employees or assignee thereof, against any loss, damage or expense resulting from damage to property or personnel injury arising out of willful misconduct or gross negligence of the Service Provider or their personnel in the execution of the work under this Contract. The Service Provider shall, at its expense defend any suit or proceedings brought against Service Receiver on account thereof, and shall satisfy all judgments and pay all expenses, which may be incurred by or rendered against them, or any of them in connection therewith.

Service Receiver shall not be responsible for any damages, loss, claims, financial and other injury for any workforce in course of their performance of their duties or for payment towards any compensation.

7. Conditional Discounts/Offer will not be considered.

8. Deletion/Addition of Units/Systems/Equipment's: LEOS reserves the right to delete/add any Units/Systems/Equipments from the Contract.

9. Down-Time Compensation: In case, If the Break-Down calls are not attend within 08 Hours of lodging the complaint, Down-Time Compensation @ 0.5% of the Service Charges applicable to the particular Unit/System/Equipment etc., per day shall be recovered from the Service Provider.

10. Extension of Contract: In case the Preventive Maintenance Service could not be carried out within the specific block period by the Service Provider for reasons beyond their control, the Service Receiver shall have an option to extend the period of Contract proportionately.

11. For e-Procurement Tenders: The Service Provider[s] may log in to <https://eprocure.isro.gov.in> and submit the Offers through Online only. Manual/Postal Courier/Email/Fax Offers will not be considered. Further, it may be noted that no Manual Tender document will be issued by LEOS in the case of Public Tender.

No Tender Fee shall be payable for submission of Tender through e-procurement.

The Service Provider[s] have to provide Open Authorization as per Tender Schedule defined. The Open Authorization will not be extended under any circumstances. In case Open Authorization as per Tender Schedule is not provided, such Offers will not be considered and it will be treated as invalid.

12. For Non-Comprehensive AMSC: Service Provider shall submit Spares List with prices, which shall be valid till completion of AMSC Contract. As and when required LEOS will place separate Purchase Order for spares. The Genuine Spares shall be supplied or integrated/replaced into the System.

13. Implementation of Government Purchase and Price Preference Policy for MSEs: In order to avail of the benefits extended by Government of India to the Micro and Small Enterprises [MSEs], please submit attested copy of the valid Entrepreneur Memorandum Part-II signed by General Manager, District Industries Center or National Small Industries Corporation [NSIC] Registration Certificate along with your offer. The facilities/ benefits will be extended as per orders issued by Ministry of MSME, Government of India, New Delhi or any instructions issued from time to time. The successful MSEs shall execute mandatorily Security Deposit for 3% of the Contract value towards satisfactory execution of the Contract.

14. Income Tax: Income Tax will be deducted at source as may be applicable and Accounts Officer, LEOS will issue necessary I.T Certificate. Please mention PAN.
15. Jurisdiction: The Courts within the jurisdiction of Bangalore shall have to deal with and decide any matter arising out of this contract.
16. Material Bank Guarantee: In case of major repair of the Equipment/Spare Part/Accessory etc., the successful Service Provider shall furnish Bank Guarantee towards the cost of Material to be taken out to Factory/Workshop for carrying out repairs. The BG is to be kept valid till the receipt and acceptance of the repaired unit.
17. Parallel Contract: Service Receiver reserves the right:
To enter into Parallel Contract simultaneously or at any time during the period of the Contract with one or more Service Providers.
To place adhoc Contract[s] simultaneously or at any time during the period of Contract with one or more Service Providers.
18. Payment Terms: Advance Payment if any, will not be considered. Only Pro-rata Payment Monthly/Quarterly/Half Yearly etc., will be considered after completion of service, supported by an Original Service Report and Invoice backed by a Certificate issued by Focal Point, LEOS and duly approved by Authorized Officer.
19. Please provide a copy of Establishment Registration Certificate issued by the Competent Authority.
20. Price: The Price mentioned for the AMSC shall be Firm and Fixed during the tenure of the Contract.
21. Provide BANK DETAILS, contract numbers and Mail ID.
22. PUBLICITY: No publicity of any kind whatsoever in case of PURCHASE ORDER shall be given by the Supplier without prior permission of the Purchaser.
23. Relocation/Shifting of Units/Systems/Equipments: LEOS reserves the right to relocate/shift the Units/Systems/Equipments as and when necessary.
24. Removal of Equipment to Service Providers Works: The Service Provider shall make best efforts to repair the Units/Systems/Equipments etc., covered under the Contract at the Service Receivers premises. However, in case any equipments covered under this Contract is required to be taken out to Service Providers premises for repair, the same shall be subject to furnishing of Material Bank Guarantee towards the cost of the Units/Systems/Equipments etc., to be taken out for repair.

25. Secrecy and Non-Disclosure Agreement: All the Drawings, Documents, Specifications, Formats, Equipments Data and Components issued by LEOS Satellite Centre, Bangalore in connection with the execution of the Contract shall be handled with utmost care and caution by the Service Provider and shall remain the property of Service Receiver and shall not be passed on or sold or disclose to third parties for any exploitation, commercial or otherwise without the express written permission of Service Receiver.

The Service Provider shall indemnify LEOS Centre, Bangalore from infringement of patents and other copy rights to this effect. This is required in order to protect the interest of Service Receiver as far as the Services are concerned. No hard/Photostat copies will be retained by the Service Provider. The Secrecy and Non-Disclosure Agreement is to be executed by the Service Provider while accepting the Contract,

26. **SECRECY:** The technical information, drawings, specification and other related documents, forming part of the CONTRACT, are the property of the Purchaser and shall not be used for any other purpose, except for execution of the CONTRACT. All rights, including rights in the event of grant of patent and registration of designs are reserved. The technical information, drawings, specifications, records and other documents shall not be copied, transcribed, traced or reproduced in any other form or otherwise in whole and/or duplicated, modified, divulged and/or disclosed to a third party nor misused in any other form whatsoever without Purchasers consent in writing except to the extent required for the execution of this CONTRACT. These technical informations, drawings, specification and other related documents shall be returned to the Purchaser with

27. **Security Deposit:** The successful Service Provider shall execute Security Deposit [SD] for 3% of the value of the AMSC towards satisfactory execution of the Contract. The Security Deposit shall be executed through Demand Draft/Banker Cheque/ Fixed Deposit Receipts or Bank Guarantee issued by a Nationalized Bank/Scheduled Bank valid till the Contract is completely executed. The BG shall be executed on a Non-Judicial stamp paper of appropriate value as per our specimen.

In case the successful Service Provider fails to furnish the Security Deposit within 20 days after the receipt of Contract or on Signing of the Contract or any extension thereof, the Contract shall be cancelled or terminated and EMD if any, shall be forfeited. Security Deposit will not carry any Interest and will be returned after the completion of the Contract.

28. **Services:** Preventive Maintenance Services shall normally be carried out only on working days between 09.00 AM and 04.00 PM. However, the Service Provider shall attend Emergent calls outside office hours and/or even on Holidays and/or as and when required. It shall be the complete responsibility of the Service Provider to keep the Units/Systems/Equipments etc., covered under this Contract is sound and working condition during the tenure of the Contract.

29. **Spare Parts for Comprehensive AMSC:** The Service Provider shall be completely responsible to

Supply the required genuine Spare Parts at his Cost covered under the Comprehensive AMSC.

The Travel Expenses, Boarding/Lodging for the Service Engineers shall be borne by the Service Provider only.

30. Subletting of Contract: The Contract shall not be Sublet, Transferred or assigned to any other Firm, Person, agencies, etc., without the prior written approval of Service Receiver. In case of violation of this Clause the Service Provider/Contractor shall be solely responsible for any Legal action besides Termination of the Contract.

31. Submission of Bills: Bills should be addressed to Accounts Officer, LEOS, 1st Cross , 1st Stage, Bengaluru-560 058, with a copy to Purchase & Stores Officer(Stores) for information.

32. Taxes: Please specify the correct percentage of Applicable, if any.

33. Termination and short closing of Contract: Under the normal circumstances, termination/ short closing of contract is not foreseen. However, LEOS reserves the right to Terminate the Contract in whole or in part by giving 30 Days prior notice in the following circumstances:-

- i. Due to repeated non-performance in the execution of P.O/Contract.
- ii. If the Contractor fails to deliver/render the services within the stipulated time schedule or any extension thereof, granted by the Purchaser.
- iii. If the Contractor is not in a position to either rectify the defects or offer the Stores conforming to the contracted Quality Standards.
- iv. If the Contractor is unable to rectify the defects or offer replacements in lieu of defective items.
- v. If the contractor fails to perform any other obligations under this P.O/Contract.
- vi. If the Contractor becomes bankrupt or otherwise insolvent.
- vii. Owing to deficiency of service, breach of Contract.
- viii. For inefficiency, indiscipline, irregularity, insincerity, indifference in work, disobedience, doubtful credentials/integrity, etc., at any point of time during the Contract period.
- ix. If the Contractor fails to Honor the whole or any part of PO/Contract including failure to deliver the Contracted Stores/Render services within the time stipulated in the PO/Contract.
- x. If the Contractor is found to have made any false or fraudulent declaration or statement to obtain the Contract or he is found to be indulging in unethical or unfair trade practices.
- xi. When both the parties agree mutually.
- xii. Any special circumstances, which must be recorded to justify the cancellation or termination of PO/Contract.
- xiii. Without assigning any reasons.

34. The Authority of person signing the Tender, if called for shall be produced.

35. The proposal is for entering into Non-Comprehensive Annual Maintenance Service Contract/Comprehensive AMSC for a period of One/Two/Three years as the case may be besides attending to unlimited breakdown calls. The Contract is extendable for One more year upon mutual consent with the same Price, Terms and Conditions.

36. The Service Provider shall provide a copy of valid GST Certificate issued by the Competent Authority.

37. Validity of Offer: The offer should be valid for a minimum period of 180 days from the date of opening of the tender.

C. Bid Templates

C.1 Technical Bid - AMSC FOR TEMPERATURE TEST CHAMBERS, HUMIDITY CHAMBERS AND THERMAL SHOCK CHAMBERS

1. AMSC

AMC FOR TEMPERATURE TEST CHAMBERS -7 Nos as per detailed specifications enclosed.

Item specifications for AMSC

Sl No	Specification	Value	Compliance	Offered Specification	Remark
1	Chamber details and scope of work		-		
2	Temperature test chamber: Model VT 7010: Sl. No. 58566046620020	Make: M/s. Votsch, Germany	Yes / No / Explain		
3	Temperature test chamber: Model VTM 7004: Sl. No.58566078870010	Make: M/s. Votsch, Germany	Yes / No / Explain		
4	Temperature test chamber: Model VT 7011: Sl. No. 58566133430010	Make: M/s. Votsch, Germany	Yes / No / Explain		
5	Temperature test chamber: Model WT 64/75: Sl. No. 59226141600010	Make: M/s. Weiss Technique, Germany	Yes / No / Explain		
6	Temperature test chamber: Model. VT7011: Sl. No. 58566179910010	Make:M/s. Votsch, Germany	Yes / No / Explain		
7	Temperature test chamber: Model WT 110/70 Sl.No. 58226159780010	Make: M/s. Weiss Technique, Germany	Yes / No / Explain		
8	Temperature test chamber: Model WT 110/70 Sl.No. 58226192520010	Make: M/s. Weiss Technique, Germany	Yes / No / Explain		

9	Scope of work for temperature test chamber:		-		
10	1. Inspection of the test chamber		-		
11	2.General cleaning		-		
12	3. Verification of chamber performance: heating/cooling rate and circuits as per manual		-		
13	4. Checking Pressure of refrigerants in respective stages. In case of gas leakages, identify leak points, pressure test and evacuate the line and refrigerant charging		-		
14	5. Checking and cleaning oil separator and filters		-		
15	6. Refrigerants filling and topping up		-		
16	7. Inter stage radiators / heat exchangers cleaning		-		
17	8. Compressors oil check and replacement/ topping up if required		-		
18	9. Gaskets/O-rings checking and replacement if required		-		
19	10. Checking electrical circuits operation and correction/replacement if required		-		
20	11. Check the sensors such as temperature sensors & safety temperature sensors Pt 100		-		

2. AMSC

AMC FOR HUMIDITY CHAMBERS- 2 Nos as per detailed specifications enclosed.

Item specifications for AMSC

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Humidity test chambers:	Make:	Yes / No / Explain		
2	Humidity test chamber: Model VCL 7010: SI No. 58546007640010	Make: M/s. Votsch, Germany	Yes / No / Explain		
3	Humidity test chamber: Model. VCL 7010: SI. No. 56566133440010	Make: M/s. Votsch, Germany	Yes / No / Explain		
4	Scope of work for temperature test chamber		-		
5	1. Inspection of the test chamber		-		
6	2. General cleaning		-		
7	3. Verification of chamber performance: heating/cooling rate and circuits as per manual		-		
8	4. Checking Pressure of refrigerants in respective stages. In case of gas leakages, identify leak points, pressure test and evacuate the line and refrigerant charging		-		
9	5. Checking and cleaning oil separator and filters		-		
10	6. Checking of humidifier/dehumidifier circuit /system		-		
11	7. Checking water level, replacement/topping up if required		-		
12	8. Refrigerants filling and topping up		-		
13	9. Condenser cleaning		-		
14	10. Compressors oil check and replacement/ topping up if required		-		

15	11. Gaskets/O-rings checking and replacement if required		-		
16	12. Checking electrical system operation and correction/replacement if required		-		
17	13. Check the sensors such as temperature sensors & safety temperature sensors Pt 100 and humidity - temperature sensor for functioning		-		

3. AMSC

AMC FOR THERMAL SHOCK CHAMBER (Weiss Technik) - 1 No as per detailed specifications enclosed

Item specifications for AMSC

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Thermal shock chambers: Model: Shock Event T/60/V2 (capacity 60 liters), Air cooled two stage refrigeration system	Make: M/s. Weiss Technik, Germany	Yes / No / Explain		
2	Scope of work for temperature test chamber:		-		
3	1. Complete chamber functioning and restoration of system in case of any fault		-		
4	2. Inspection of the test chamber		-		
5	3. General cleaning		-		
6	4. Verification of chamber performance: heating/cooling rate and circuits as per manual		-		

7	5. Checking Pressure of refrigerants in respective stages. In case of gas leakages, identify leak points, pressure test and evacuate the line and refrigerant charging		-		
8	6. Checking and cleaning oil separator and filters		-		
9	7. Checking of refrigerants levels, filling and topping up if required		-		
10	8. Compressors oil check and replacement/ topping up if required		-		
11	9. Gaskets/O-rings checking and replacement if required		-		
12	10. Checking electrical circuits operation and correction/replacement if required		-		
13	11. Following are the major checkpoints that shall be carried out during service visits as and when required:		-		
14	11.1 Cleaning of condenser		-		
15	11.2 Checking condition for compressors and other components in the refrigeration system and rectification or replacement, if found faulty or abnormal		-		
16	11.3 Checking of compressor for suction, discharge pressure etc.		-		
17	11.4 Checking of compressors and fans for current draw		-		
18	11.5 Checking components in the electrical & control panels, safety devices, sensors etc.		-		

19	11.6 Refrigeration plum lines checking, insulation replacement if required		-		
20	12. Checking of Display, controller, interlock and control system and ensuring normal function.		-		
21	13. Checking of Test Room (basket) and Inner components		-		
22	14. Check the sensors such as temperature sensors and pressure sensors		-		
23	15. Checking of Frosting and Defrosting circuit		-		

4. AMSC

AMC FOR THERMAL SHOCK CHAMBER (ATT)- 1 No as per detailed specifications enclosed

Item specifications for AMSC

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Thermal shock chamber: M. No: CST/110/3t3/LN2 SI.No.60844 (Capacity 120 liters), water cooled, two stage refrigeration system with LN2 provision	Make: M/s. ATT, Italy	Yes / No / Explain		
2	Scope of work for temperature test chamber:		-		
3	1. Inspection of the test chamber		-		
4	2. General cleaning		-		
5	3. Verification of chamber performance: heating/cooling rate and circuits as per manual		-		

6	4. Checking Pressure of refrigerants in respective stages. In case of gas leakages, identify leak points, pressure test and evacuate the line and refrigerant charging.		-		
7	5. Checking and cleaning oil separator and filters		-		
8	6. Checking of refrigerants levels, filling and topping up if required		-		
9	7. Compressors oil check and replacement/ topping up if required		-		
10	8. Gaskets/O-rings checking and replacement if required		-		
11	9. Checking electrical circuits operation and correction/replacement if required		-		
12	10. Following are the major checkpoints that shall be carried out during service visits as and when required:		-		
13	11. Cleaning of condenser		-		
14	12. Checking condition for compressors and other components in the refrigeration system and rectification or replacement, if found faulty or abnormal.		-		
15	13. Checking of compressor for suction, discharge pressure etc.		-		
16	14. Checking of compressors and fans for current drawl		-		

17	15.Checking components in the electrical & control panels, safety devices, sensors etc. sensors etc.		-		
18	16.Refrigeration plum lines checking, insulation replacement if required		-		
19	17.Checking of Display, controller, interlock and control system and ensuring normal function.		-		
20	18.Checking of Test Room (basket) and Inner components		-		
21	19.Check the sensors such as temperature sensors and pressure sensors		-		
22	20.Checking of Frosting and Defrosting circuit		-		
23	21.Maintenance of the thermal shock chamber should be carried out along with its accessory Chiller (Make: Werner Finley, SI No: 1410810, Capacity: 30000Kcal/Hr, Refrigerant: R407C). This is not applicable for chamber Model: Shock Event T/60/V2 (capacity 60 liters)		-		

24	21.1 * Checking Operational Healthiness, * Cleaning of all equipment's, * Checking protection circuit and control circuit, * Refrigerant Pressure Checking, top up and Replacement, * Water Level Checking, top up /Replacement, * Compressor checking for healthiness and maintenance.		-		
----	---	--	---	--	--

Common Specifications (Applicable for all items)

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Annual Maintenance Service Contract (AMSC) for Temperature test chambers, humidity test chambers and thermal shock chamber from the qualified and experienced service providers as per the following specifications, terms and conditions.		-		
2	Works Terms and conditions:		-		

3	1. During AMSC, The party should ensure chambers satisfactory functioning and restore of systems to their performance specifications in case of any fault/breakdown		-		
4	2. Quality of the work: Work shall be carried out under the directions of the DGM, LETF/ Engineer,		-		
5	3. Visits during the pendency of the AMSC a. Two preventive maintenance in 12 months period. b. And to attend unlimited breakdown maintenance during period of AMSC on notice of two working days		-		
6	4. The AMSC cost quoted shall not include the spares and refrigeration gas needed for servicing / Repairs		-		

7	5.In case, some spares are required for servicing / Repairs, we may directly procure spares from the supplier of the temperature test chambers /local agents /dealers.		-		
8	6.Initially the AMSC shall be for a period of two years, and shall be extendable for one more year at the same price, if agreed mutually.		-		
9	7.General		-		
10	7.1.Complete chamber functioning and restoration of system in case of any fault.		-		
11	7.2.Equipment performance verification: before and after servicing.		-		
12	7.3.Issue of Specification Compliance Certificate.		-		
13	7.4.The scope of work during regular maintenance is described in Clause B. Chamber details.		-		
14	7.5.Any repair/rectification/service of the chambers during contract period, is in complete scope of party.		-		

15	7.5 The tools/equipment such as welding/brazing set and gases such as oxygen, Dissolved acetylene, brazing rod, brazing wax, etc. required for repair work are in the scope of the party		-		
16	7.6.LEOS, ISRO will provide the spares parts/components, refrigeration gases, nitrogen gas and compressed Air.		-		
17	8.Safety Clause:		-		
18	i.Vendor should employ suitable technical personnel to carry out the work		-		
19	ii.The Vendor should provide requisite personal safety equipment / gadgets to their personnel, and also the contractor's personnel should observe all safety precautions to avoid any kind of accidents.		-		

20	iii. In case of any accident occurring due to any reasons while carrying out the work at LEOS premises, Department will not be responsible in any way for the same.		-		
21	Note :		-		
22	1. Chambers Assessment: The party may visit LEOS, to assess the chambers conditions. The AMSC shall be carried out at LEOS at existing conditions.		-		
23	2. Offer submission: Incomplete specification and non-compliance offers shall be rejected.		-		
24	3. Partial Offer: Qualified Partial offers shall be considered. Party can submit partial offer / complete offer for the scope of AMSC. PO may be placed onto the lowest bidder of the individual items at LEOS discretion.		-		

25	4. Compliance statement: Point-by-Point Compliance statement for all of our specifications should be provided along with the quote. Offer without compliance statement will not be considered.		-		
26	5. Vendors' heritage: Reference of two customers for whom similar service provided with email Id and contact details should be provided along with the quote. Without reference and heritage, the offer shall not be considered		-		
27	6. Payment: On half yearly basis on satisfactory completion of AMSC.		-		
28	7. Chambers failure: In case of failure of any chambers beyond repair during AMSC, the failed chamber with its proportionate amount in the purchase order will be removed.		-		

Supporting Documents required from Vendor

1. Vendor's experience on service of temperature, humidity and thermal shock chambers or similar cascaded refrigeration systems

2. Compliance statement

5 additional documents can be uploaded by the vendor

C.2 Commercial Terms / Bid

Sl. No.	Description	Compliance	Vendor Terms
1	Please provide a copy of Establishment Registration Certificate issued by the Competent Authority.	Yes / No / Explain	
2	The Service Provider shall provide a copy of valid GST Registration Certificate issued by the Competent Authority.	Yes / No / Explain	
3	Price: The Price mentioned for the AMSC shall be Firm and Fixed during the tenure of the Contract.	Yes / No / Explain	
4	The proposal is for entering into Non-Comprehensive Annual Maintenance Service Contract/Comprehensive AMSC for a period of One/Two/Three years as the case may be besides attending to unlimited breakdown calls. The Contract is extendable for One more year upon mutual consent with the same Terms and Conditions.	Yes / No / Explain	
5	<p>Security Deposit: The successful Service Provider shall execute Security Deposit [SD] for 3% of the value of the AMSC towards satisfactory execution of the Contract. The Security Deposit shall be executed through Demand Draft/Banker Cheque/ Fixed Deposit Receipts or Bank Guarantee issued by a Nationalized Bank/Scheduled Bank valid till the Contract is completely executed. The BG shall be executed on a Non-Judicial stamp paper of appropriate value as per our specimen.</p> <p>In case the successful Service Provider fails to furnish the Security Deposit within 20 days after the receipt of Contract or on Signing of the Contract or any extension thereof, the Contract shall be cancelled or terminated and EMD if any, shall be forfeited. Security Deposit will not carry any Interest and will be returned after the completion of the Contract.</p>	Yes / No / Explain	

6	Material Bank Guarantee: In case of major repair of the Equipment/Spare Part/Accessory etc., the successful Service Provider shall furnish Bank Guarantee towards the cost of Material to be taken out to Factory/Workshop for carrying out repairs. The BG is to be kept valid till the receipt and acceptance of the repaired unit.	Yes / No / Explain	
7	Spare Parts for Non-Comprehensive AMSC: The service provider shall be completely responsible to supply the required genuine spare parts at his cost covered under the comprehensive AMSC. The travel expenses,boarding/lodging for the service engineers shall be borne by the service provider only.	Yes / No / Explain	
8	Spare Parts for Comprehensive AMSC: The Service Provider shall be completely responsible to Supply the required genuine Spare Parts at his Cost covered under the Comprehensive AMSC. The Travel Expenses, Boarding/Lodging for the Service Engineers shall be borne by the Service Provider only.	Yes / No / Explain	
9	Payment Terms: Advance Payment if any, will not be considered. Only Pro-rata Payment Monthly/Quarterly/Half Yearly etc., will be considered after completion of service supported by an Original Service Report and Invoice backed by a Certificate issued by Focal Point, LEOS and duly approved by Authorized Officer.	Yes / No / Explain	
10	Submission of Bills: Bills should be addressed to Accounts Officer, LEOS, 1st Cross , 1st Stage, Bengaluru-560 058.	Yes / No / Explain	
11	Taxes: Please specify the correct percentage of Applicable Taxes if any.	Yes / No / Explain	
12	Down-Time Compensation: In case, If the Break-Down calls are not attend within 08 Hours of lodging the complaint, Down-Time Compensation @ 0.5% of the Service Charges applicable to the particular Unit/System/Equipment etc., per day shall be recovered from the Service Provider.	Yes / No / Explain	

13	Income Tax: Income Tax will be deducted at source as may be applicable and Accounts Officer, LEOS will issue necessary I.T Certificate. Please mention PAN.	Yes / No / Explain	
14	<p>Termination and short closing of Contract: Under the normal circumstances, termination/ short closing of contract is not foreseen. However, LEOS reserves the right to Terminate the Contract in whole or in part by giving 30 Days prior notice in the following circumstances:-</p> <p>i. Due to repeated non-performance in the execution of P.O/Contract.</p> <p>ii. If the Contractor fails to deliver/render the services within the stipulated time schedule or any extension thereof, granted by the Purchaser.</p> <p>iii. If the Contractor is not in a position to either rectify the defects or offer the Stores conforming to the contracted Quality Standards.</p> <p>iv. If the Contractor is unable to rectify the defects or offer replacements in lieu of defective items.</p> <p>v. If the contractor fails to perform any other obligations under this P.O/Contract.</p> <p>vi. If the Contractor becomes bankrupt or otherwise insolvent.</p> <p>vii. Owing to deficiency of service, breach of Contract.</p> <p>viii. For inefficiency, indiscipline, irregularity, insincerity, indifference in work, disobedience, doubtful credentials/integrity, etc., at any point of time during the Contract period.</p> <p>ix. If the Contractor fails to Honor the whole or any part of PO/Contract including failure to deliver the Contracted Stores/Render services within the time stipulated in the PO/Contract.</p> <p>x. If the Contractor is found to have made any false or fraudulent declaration or statement to obtain the Contract or he is found to be indulging in unethical or unfair trade practices.</p> <p>xi. When both the parties agree mutually.</p> <p>xii. Any special circumstances, which must be recorded to justify the cancellation or termination of PO/Contract.</p> <p>xiii. Without assigning any reasons.</p>	Yes / No / Explain	

15	<p>Services: Preventive Maintenance Services shall normally be carried out only on working days between 09.00 AM and 04.00 PM. However, the Service Provider shall attend Emergent calls outside office hours and/or even on Holidays and/or as and when required. It shall be the complete responsibility of the Service Provider to keep the Units/Systems/Equipments etc., covered under this Contract is sound and working condition during the tenure of the Contract.</p>	Yes / No / Explain	
16	<p>Removal of Equipment to Service Providers Works: The Service Provider shall make best efforts to repair the Units/Systems/Equipments etc., covered under the Contract at the Service Receivers premises. However, in case any equipments covered under this Contract is required to be taken out to Service Providers premises for repair, the same shall be subject to furnishing of Material Bank Guarantee towards the cost of the Units/Systems/Equipments etc., to be taken out for repair.</p>	Yes / No / Explain	
17	<p>Extension of Contract: In case the Preventive Maintenance Service could not be carried out within the specific block period by the Service Provider for reasons beyond their control, the Service Receiver shall have an option to extend the period of Contract proportionately.</p>	Yes / No / Explain	
18	<p>Subletting of Contract: The Contract shall not be Sublet, Transferred or assigned to any other Firm, Person, agencies, etc., without the prior written approval of Service Receiver. In case of violation of this Clause the Service Provider/Contractor shall be solely responsible for any Legal action besides Termination of the Contract.</p>	Yes / No / Explain	

19	<p>Compensation for Damages caused for Persons Goods, Property: The Service Provider shall indemnify and hold harmless, Service Receiver and/or any Officer, Employees or assignee thereof, against any loss, damage or expense resulting from damage to property or personnel injury arising out of willful misconduct or gross negligence of the Service Provider or their personnel in the execution of the work under this Contract. The Service Provider shall, at its expense defend any suit or proceedings brought against Service Receiver on account thereof, and shall satisfy all judgments and pay all expenses, which may be incurred by or rendered against them, or any of them in connection therewith.</p> <p>Service Receiver shall not be responsible for any damages, loss, claims, financial and other injury for any workforce in course of their performance of their duties or for payment towards any compensation.</p>	Yes / No / Explain	
20	<p>Antecedent Verification: The personnel deployed to Service Receiver premises for carrying out AMSC, Antecedent / Police Verification shall be got done by the successful Service Provider if necessary and such records will have to be produced to Service Receiver on demand.</p>	Yes / No / Explain	
21	<p>Parallel Contract: Service Receiver reserves the right: To enter into Parallel Contract simultaneously or at any time during the period of the Contract with one or more Service Providers. To place adhoc Contract[s] simultaneously or at any time during the period of Contract with one or more Service Providers</p>	Yes / No / Explain	
22	<p>Applicable Law: The Contract shall be Interpreted, Construed and Governed by Laws of India.</p>	Yes / No / Explain	
23	<p>Jurisdiction: The Courts within the jurisdiction of Bangalore shall have to deal with and decide any matter arising out of this contract.</p>	Yes / No / Explain	

24	<p>Secrecy and Non-Disclosure Agreement: All the Drawings, Documents, Specifications, Formats, Equipments Data and Components issued by LEOS Satellite Centre, Bangalore in connection with the execution of the Contract shall be handled with utmost care and caution by the Service Provider and shall remain the property of Service Receiver and shall not be passed on or sold or disclose to third parties for any exploitation, commercial or otherwise without the express written permission of Service Receiver.</p> <p>The Service Provider shall indemnify LEOS Centre, Bangalore from infringement of patents and other copy rights to this effect. This is required in order to protect the interest of Service Receiver as far as the Services are concerned. No hard/Photostat copies will be retained by the Service Provider. The Secrecy and Non-Disclosure Agreement is to be executed by the Service Provider while accepting the Contract,</p>	Yes / No / Explain	
25	<p>Arbitration: In the event of any dispute or difference relating to the interpretation and application of the contract/work order, such dispute or difference shall be settled amicably by mutual consultations or through the good offices of the respective parties. If such resolution is not possible then the unresolved dispute or difference shall be referred to the Sole Arbitrator in accordance with the Rules and Procedures of the Arbitration and Conciliation Act 1996 or any modification thereof. The decision of the Arbitrator shall be final and binding on the parties. The expenses for the Arbitration shall be paid as may be determined by the Arbitrator.</p>	Yes / No / Explain	
26	<p>Deletion/addition of Units/Systems/Equipments: LEOS reserves the right to delete any Units/Systems/Equipments from the Contract.</p>	Yes / No / Explain	
27	<p>Relocation/Shifting of Units/Systems/Equipments: LEOS reserves the right to relocate/shift the Units/Systems/Equipments as and when necessary.</p>	Yes / No / Explain	

28	Change in the Name and Address of Supplier: In the event of Change in Name and Address of Supplier, Documentary Proof issued by the appropriate Government Authorities shall be produced for such change.	Yes / No / Explain	
29	Implementation of Government Purchase and Price Preference Policy for MSEs: In order to avail of the benefits extended by Government of India to the Micro and Small Enterprises [MSEs], please submit attested copy of the valid Entrepreneur Memorandum Part-II signed by General Manager, District Industries Center or National Small Industries Corporation [NSIC] Registration Certificate along with your offer. The facilities/ benefits will be extended as per orders issued by Ministry of MSME, Government of India, New Delhi or any instructions issued from time to time. The successful MSEs shall execute mandatorily Security Deposit for 10% of the Contract value towards satisfactory execution of the Contract.	Yes / No / Explain	
30	<p>For e-Procurement Tenders: The Service Provider[s] may log in to https://eprocure.isro.gov.in and submit the Offers through Online only. Manual/Postal Courier/Email/Fax Offers will not be considered. Further, it may be noted that no Manual Tender document will be issued by LEOS in the case of Public Tender.</p> <p>No Tender Fee shall be payable for submission of Tender through e-procurement.</p> <p>The Service Provider[s] have to provide Open Authorization as per Tender Schedule defined. The Open Authorization will not be extended under any circumstances. In case Open Authorization as per Tender Schedule is not provided, such Offers will not be considered and it will be treated as invalid.</p>	Yes / No / Explain	
31	Validity of Offer: The offer should be valid for a minimum period of 120 days from the date of opening of the tender.	Yes / No / Explain	

32	All amounts shall be indicated both in words as well as in figures. Where there is difference between amount quoted in words and figures, the amount quoted in words shall prevail over the amount mentioned in figures.	Yes / No / Explain	
33	The Authority of person signing the Tender, if called for shall be produced.	Yes / No / Explain	
34	Conditional Discounts/Offeres will not be considered.	Yes / No / Explain	
35	SECURITY: The technical information, drawings, specification and other related documents, forming part of the CONTRACT, are the property of the Purchaser and shall not be used for any other purpose, except for execution of the CONTRACT. All rights, including rights in the event of grant of patent and registration of designs are reserved. The technical information, drawings, specifications, records and other documents shall not be copied, transcribed, traced or reproduced in any other form or otherwise in whole and/or duplicated, modified, divulged and/or disclosed to a third party nor misused in any other form whatsoever without Purchasers consent in writing except to the extent required for the execution of this CONTRACT. These technical informations, drawings, specification and other related documents shall be returned to the Purchaser with	Yes / No / Explain	
36	PUBLICITY: No publicity of any kind whatsoever in case of PURCHASE ORDER shall be given by the Supplier without prior permission of the Purchaser.	Yes / No / Explain	
37	Provide BANK DETAILS, contact numbers and Mail ID.	Yes / No / Explain	
38	Spare list shall be submitted along with the offers and the rate should be valid during the AMSC period	Yes / No / Explain	

C.3 Price Bid

Sl. No.	Item	Quantity	Unit Price	Currency	Total Price	Remark
---------	------	----------	------------	----------	-------------	--------

1	AMSC AMC FOR TEMPERATURE TEST CHAMBERS -7 Nos as per detailed specifications enclosed.	2.00 Years					
2	AMSC AMC FOR HUMIDITY CHAMBERS- 2 Nos as per detailed specifications enclosed.	2.00 Years					
3	AMSC AMC FOR THERMAL SHOCK CHAMBER (Weiss Technic) - 1 No as per detailed specifications enclosed	2.00 Years					
4	AMSC AMC FOR THERMAL SHOCK CHAMBER (ATT)- 1 No as per detailed specifications enclosed	2.00 Years					