

**GOVERNMENT OF INDIA  
DEPARTMENT OF SPACE  
VIKRAM SARABHAI SPACE CENTRE (VSSC)  
THIRUVANANTHAPURAM**

**Tender for Design, realization, supply, installation and commissioning  
of hydraulic pressure booster setup**

**Bids to be submitted online**

**Tender No.: VSSC/PURCHASE UNIT III (SPRE)/VS202400233701 dated 14-06-2024**

## A. Tender Details

Tender No :	VSSC/PURCHASE UNIT III (SPRE)/VS202400233701
Tender Date :	14-06-2024
Tender Classification:	GOODS
Purchase Entity :	PURCHASE UNIT III (SPRE)
Centre :	VIKRAM SARABHAI SPACE CENTRE (VSSC)

### **Design, realization, supply, installation and commissioning of hydraulic pressure booster setup.**

This tender is proposed as a DOMESTIC PUBLIC TENDER. This tender is restricted only to Class-I and Class-II Local Suppliers as defined under DPIIT Order dtd 16/09/2020- Preference to Make in India Order-2017 Revision. Non-Local Suppliers need not quote. Foreign OEMs/Agents quoting on behalf of Foreign OEMs are not permitted to quote. High Sea Sales Quotes not permitted. The bids shall be in INR only.

This is a TWO-PART tender i.e. Techno-Commercial Bid (Part-I) and Price Bid (Part-II) shall be submitted separately. All technical and commercial terms and conditions shall be furnished in the Techno-Commercial Bid while price shall be indicated only in the Price Bid. Uploading price details anywhere else other than the price-bid shall lead to unconditional rejection of the tender. Please make note of the same.

Tenderers are advised NOT TO UPLOAD any documents revealing the price of the main equipment, accessories, spares or AMC. They are however, requested to upload UNPRICED BIDS (i.e. Price details masked) showing appropriate break-up of components of main equipment, individual accessories and spares as desired. Purchase preference to eligible vendors are applicable as per extant notifications issued by the Government of India.

The Class-I/Class-II Local suppliers, at the time of submitting their offer, shall also indicate percentage of local content and provide self-certification that the item (s) offered meets the local content requirement for Class-I/Class-II Local Suppliers as the case may be. They shall also give details of location (s) at which the local value addition is made.

In cases if the item(s) offered exceed Rs.10 Crores, the Class-I/Class-II Local Suppliers shall provide a Certificate from the statutory auditor or cost auditor of the company (in 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.

False Declarations will be in breach of the Code of Integrity under Rule 175 (1) (i) (h) of the General Financial Rules for which a bidder or its successors can be debarred for up to two years as per Rule

151 (iii) of the General Financial Rules along with such other actions as may be permissible under law. Technical Bids will be opened at the scheduled due date & time. No further intimation will be sent in this regard. The schedule for price bid opening shown is only indicative. Price bids will only be opened in the case of parties who have been techno-commercially accepted, the details of which will be communicated at a later stage.

## **A.1 Tender Schedule**

Bid Submission Start Date : **14-06-2024 18:00**

Bid Clarification Due Date : **24-06-2024 10:00**

Bid Submission Due Date : **16-07-2024 14:00**

Bid Opening Date : **16-07-2024 14:00**

Price Bid Opening Date : **31-07-2024 14:00**

## B. Tender Attachments

NA

### Instructions To Vendors

#### 1. PROFORMA FOR INSTRUCTIONS TO TENDERERS AND TERMS & CONDITIONS OF TENDER (IG)

1. (a) All available technical literature, catalogues and other data in support of the specifications and details of the items should be furnished along with the offer.
- (b) Samples, if called for, should be submitted free of all charges by the tenderer and the Purchaser shall not be responsible for any loss or damage thereof due to any reason whatsoever. In the event of nonacceptance of tender, the tenderer will have to remove the samples at his own expense.
- (c) Approximate net and gross weight of the items offered shall be indicated in your offer. If dimensional details are available the same should also be indicated in your offer.
- (d) Specifications: Stores offered should strictly confirm to our specifications. Deviations, if any, should be clearly indicated by the tenderer in his quotation. The tenderer should also indicate the Make/Type number of the stores offered and provide catalogues, technical literature and samples, wherever necessary, along with the quotations. Test Certificates, wherever necessary, should be forwarded along with supplies. Wherever options have been called for in our specifications, the tenderer should address all such options. Wherever specifically mentioned by us, the tenderer could suggest changes to specifications with appropriate response for the same.
2. (a) All available technical literature, catalogues and other data in support of the specifications and details of the items should be furnished along with the offer.
- (b) Samples, if called for, should be submitted free of all charges by the tenderer and the Purchaser shall not be responsible for any loss or damage thereof due to any reason whatsoever. In the event of nonacceptance of tender, the tenderer will have to remove the samples at his own expense.
- (c) Approximate net and gross weight of the items offered shall be indicated in your offer. If dimensional details are available the same should also be indicated in your offer.
- (d) Specifications: Stores offered should strictly confirm to our specifications. Deviations, if any, should be clearly indicated by the tenderer in his quotation. The tenderer should also indicate the Make/Type number of the stores offered and provide catalogues, technical literature and samples, wherever necessary, along with the quotations. Test Certificates, wherever necessary, should be forwarded along with supplies. Wherever options have been called for in our specifications, the tenderer should address all such options. Wherever specifically mentioned by us, the tenderer could suggest changes to specifications with appropriate response for the same.

#### 3. ACCEPTANCE OF STORES:

- (a) The stores shall be tendered by the Contractor for inspection at such places as may be specified by

the purchaser at the Contractor's own risk, expense and cost.

(b) It is expressly agreed that the acceptance of the stores Contracted for, is subject to final approval by the purchaser, whose decision shall be final.

(c) If, in the opinion of the purchaser, all or any of the stores do not meet the performance or quality requirements specified in the Purchase Order, they may be either rejected or accepted at a price to be fixed by the purchaser and his decision as to rejection and the prices to be fixed shall be final and binding on the Contractor.

(d) If the whole or any part of the stores supplied are rejected in accordance with Clause No. (c) above, the purchaser shall be at liberty, with or without notice to the Contractor, to purchase in the open market at the expense of the Contractor stores meeting the necessary performance and quality Contracted for in place of those rejected, provided that either the purchase, or the agreement to purchase, from another supplier is made within six months from the date of rejection of the stores as aforesaid.

4. As a Government of India Department, this office is exempted from payment of Octroi and similar local levies. Tenderers shall ensure that necessary Exemption Certificates are obtained by them from the Purchase Officer concerned to avoid any payment of such levies.

5. a) Your offer should be valid for 90 days from the date of opening of the tender.

b) Prices are required to be quoted according to the units indicated in the annexed tender form. When quotations are given in terms of units other than those specified in the tender form, relationship between the two sets of units must be furnished.

6. DESPATCH: The Contractor is responsible for obtaining a clear receipt from the Transport Authorities specifying the goods despatched. The consignment should be despatched with clear Railway Receipt/Lorry Receipt. If sent in any other mode, it shall be at the risk of the Contractor. Purchaser will take no responsibility for short deliveries or wrong supply of goods when the same are booked on 'said to contain' basis. Purchaser shall pay for only such stores as are actually received by them in accordance with the Contract.

7. d) The term "Purchase Order" shall mean the communication signed on behalf of the Purchaser by an Officer duly authorised intimating the acceptance on behalf of the Purchaser on the terms and conditions mentioned or referred to in the said communication accepting the tender or offer of the Contractor for supply of stores or plant, machinery or equipment or part thereof.

#### 8. GUARANTEE & REPLACEMENT:

(a) The Contractor shall guarantee that the stores supplied shall comply fully with the specifications laid down, for material, workmanship and performance.

(b) For a period of twelve months after the acceptance of the stores, if any defects are discovered therein or any defects therein found to have developed under proper use, arising from faulty stores design or workmanship, the Contractor shall remedy such defects at his own cost provided he is called

upon to do so within a period of 14 months from the date of acceptance thereof by the purchaser who shall state in writing in what respect the stores or any part thereof are faulty.

(c) If, in the opinion of the purchaser, it becomes necessary to replace or renew any defective stores such replacement or renewal shall be made by the Contractor free of all costs to the purchaser, provided the notice informing the Contractor of the defect is given by the purchaser in this regard within the said period of 14 months from the date of acceptance thereof.

(d) Should the Contractor fail to rectify the defects, the purchaser shall have the right to reject or repair or replace at the cost of the Contractor the whole or any portion of the defective stores.

(e) The decision of the Purchaser notwithstanding any prior approval or acceptance or inspection thereof on behalf of the Purchaser, as to whether or not the Stores supplied by the Contractor are defective or any defect has developed within the said period of 12 months or any other period or as to whether the nature of defects requires renewal or replacement, shall be final, conclusive and binding on the Contractor.

(f) To fulfill guarantee conditions outlined in (a) to (e) above, the Contractor shall, at the option of the Purchaser, furnish a Bank Guarantee (as prescribed by the Purchaser)

**9. PACKING FORWARDING & INSURANCE:** The Contractor will be held responsible for the stores being sufficiently and properly packed for transport by rail, road, sea or air to withstand transit hazards and ensure safe arrival at the destination. The packing and marking of packages shall be done by and at the expense of the Contractor. The purchaser will not pay separately for transit insurance, all risks in transit being exclusively of the Contractor and the Purchaser shall pay only for such stores as are actually received in good condition in accordance with the Contract.

**10.** Preference will be given to those tenders offering supplies from ready stocks and on the basis of FOR destination/delivery at site.

**11. PRICES:** Tender offering firm prices will be preferred. Where a price variation clause is insisted upon by a tenderer, quotation with a reasonable ceiling should be submitted. Such offers should invariably be supported by the base price taken into account at the time of tendering and also the formula for any such variation/s.

**12. REJECTED STORES:**

Rejected stores will remain at destination at the Contractor's risk and responsibility. If instructions for their disposal are not received from the Contractor within a period of 14 days from the date of receipt of the advice of rejection, the purchaser or his representative has, at his discretion, the right to scrap or sell or consign the rejected stores to Contractor's address at the Contractor's entire risk and expense, freight being payable by the Contractor at actuals.

**13.** Sales Tax and/or other duties/levies legally leviable and intended to be claimed should be mentioned in the price bid template. If nothing is mentioned, then it will be presumed that the rate quoted is inclusive of all taxes/duties.

14. SECURITY DEPOSIT: Wherever, the Purchase Order value is Rs. 5.00 Lakhs or more, on acceptance of the tender, the Contractor shall, at the option of the Purchaser and within the period specified by him, deposit with him, in cash or in any other form as the Purchaser may determine, security deposit not exceeding ten percent of the value of the Contract as the Purchaser shall specify. If the Contractor is called upon by the Purchaser to deposit, 'Security' and the Contractor fails to provide the security within the period specified, such failure shall constitute a breach of the Contract, and the Purchaser shall be entitled to make other arrangements for the re-purchase of the stores Contracted at the risk of the Contractor in terms of Sub-Clause (ii) and (iii) of clause regarding Delivery. (b) hereof and/or to recover from the Contractor, damages arising from such cancellation.

## 15. TERMS & CONDITIONS OF TENDER

16. TEST CERTIFICATE: Wherever required, test certificates should be sent along with the despatch documents.

17. The authority of the person signing the tender, if called for, should be produced.

18. The Purchaser reserves the right to place order on the successful tenderer for additional quantity up to 25% of the quantity offered by them at the rates quoted.

19. The purchaser shall be under no obligation to accept the lowest or any tender and reserves the right of acceptance of the whole or any part of the tender or portions of the quantity offered and the tenderers shall supply the same at the rates quoted.

20. The tenderer should supply along with his tender, the name of his bankers as well as the latest Income-Tax clearance certificate duly countersigned by the Income-Tax Officer of the Circle concerned under the seal of his office, if required by the Purchaser.

21. The term Contractor shall mean, the person, firm or company with whom or with which the order for the supply of Stores is placed and shall be deemed to include the Contractor's successors, representative, heirs, executors and administrators unless excluded by the Contract.

22. The term Purchaser shall mean the President of India or his successors or assigns.

23. The term "Stores" shall mean what the Contractor agrees to supply under the Contract as specified in the Purchase Order including erection of plants & machinery and subsequent testing, should such a condition is included in the Purchase Order.

## 2. Conditions for BIDDER FROM A COUNTRY WHICH SHARES LAND BORDER WITH INDIA

1. Any bidder from a country which shares a land border with India will be eligible to bid in this tender, only if the bidder is registered with the Competent Authority.

Competent Authority for the purpose of registration shall be the Registration Committee constituted by the Department for Promotion of Industry and Internal Trade (DPIIT).

2. Any false declaration and non-compliance of the above would be a ground for immediate rejection of offer or termination of the contract and further legal action in accordance with the laws.

3.

Validity of Registration: Registration should be valid at the time of submission of bids and should be valid at the time of placement of order.

### **3. Specific Terms and Conditions to Tender (MII Compliant)**

1. (I) Please quote applicable GST separately.

2. (II) Our standard delivery term is FOR, VSSC. In case any vendor offers delivery term of Ex-works, Packing and Forwarding charges if any should be indicated separately either as a percentage of the quoted rate or as a Lumpsum amount.

3. (III) Our standard payment term is 100% within 30 days after receipt and acceptance of the items at our site (after installation and commissioning in cases where installation and commissioning is required).

4. (IV) Liquidated Damages: The delivery period quoted should be realistic. The delivery period so quoted and mentioned in the order is the essence of the order/contract. In case of delay in delivery of material as per the delivery schedule, Liquidated Damage @ 0.5% per week or part thereof on the undelivered portion subject to a maximum of 10% of the contract value shall be levied. Wherever, installation and commissioning is also involved, the supply will be deemed to have been completed only when the entire Stores is supplied, installed and accepted.

5. (V) Performance Bank Guarantee: Wherever products offered carry warranty, the warranty should be for one year or as per manufacturers standard warranty term. Against such cases, please confirm submission of Performance Bank Guarantee. The Performance Bank Guarantee should be for 3% of the order value covering the warranty period obtained from any Scheduled Bank on Rs.200/- Non Judicial Stamp Paper and should be valid beyond 2 months from the completion of the warranty period. Alternately vendors can request for withholding 3% payment till completion of the warranty period.

6. (VI) Security Deposit: Wherever the offer value is Rs. 5.00 Lakhs or above, the successful tenderer



should submit Security Deposit @ 3% of the order value by way of Bank Guarantee / FD Receipt. The Bank Guarantee shall be obtained from any Scheduled Bank on Rs.200/- Non Judicial Stamp Paper and should be valid beyond 2 months from the completion of all contractual obligations. If the Contractor is called upon by the Purchaser to deposit, Security and the Contractor fails to provide the security within the period specified, such failure shall constitute a breach of the Contract, and the Purchaser shall be entitled to make other arrangements for the re-purchase of the stores Contracted at the risk of the Contractor. In case if Security Deposit is submitted and the contractor fails to execute the order, then the security deposit will be forfeited.

7. (VII) Note: SD, LD and PBG clauses are mandatory and offers of the vendors who have not agreed for the above conditions will be excluded from the procurement process. Micro and Small Vendors are not exempted from the submission of Security Deposit. Only Govt Departments/PSUs/PSEs can submit Indemnity Bond instead of Bank Guarantee towards SD/PBG.

8. (VIII) Please upload the Technical Details / Catalogue / Data Sheets (wherever applicable)

9. (IX) The offer should be valid for a period of minimum 90 days from the date of opening of Tender and 180 Days for PT Two Part (120 Days for Technical Bid and 60 Days for Price Bid from the date of opening).

10. (X) In order to avail of the benefits extended to by Govt. of India to the Micro and Small Sectors, please submit attested copy of the valid Entrepreneur Memorandum Part-II signed by the General Manager, District Industries Centre / Udyog Adhar / NSIC Registration Certification along with your offer.

11. (XI) If any bidder submits forged / false document along with the tender, offer of such vendors will be summarily rejected and such bidders will be blacklisted for all future tenders.

12. (XII) Wherever samples are required to be submitted along with the quotation, offer without sample will not be considered.

13. (XIII) The other attached forms are our standard terms and conditions, which are to be complied with. If any conflict arise between the specific terms and standard terms, then in those cases, the specific terms will prevail over the standard terms.

14. (XIX) Purchase preference to eligible vendors are applicable as per extant notifications issued by the Government of India.

15. (XV) Foreign OEMs/Agents quoting on behalf of Foreign OEMs are not permitted to quote. High Sea Sales Quotes not permitted. The bids shall be in INR only.

16. (XVI) Definitions: A supplier or service provider, whose goods, services or works offered for procurement, has local content: a) Equal to or more than 50% : Class-I local supplier. b) Minimum 20% but less than 50% : Class-II local supplier. c) Less than 20% : Non-local supplier.

17. (XVII) Local content means the amount of value added in India (i.e. indigenous items/services added in the offered products/services/works) be the total value of the item offered (excluding net domestic indirect taxes) minus the value of imported content in the item (including all customs duties/IGST) as a proportion of the total value (excluding net domestic indirect taxes), in percent. Indicate extent of Minimum Local Content in offered product/service and location of such value additions.

18. (XVIII) The Class-I & II local supplier should provide a Self Certification along with your offer in PDF format indicating that the item offered meets the minimum local content as called for in the tender as mentioned above and provide the % of local content along with details of the location(s) at which the local value addition is made. In case of two part tenders, it is mandatory to indicate compliance to MLC(minimum local content) in technical bid itself.

19. (XIX) The Class-I/Class-II Local suppliers, at the time of submitting their offer, shall also indicate percentage of local content and provide self-certification that the item (s) offered meets the local content requirement for Class-I/Class-II Local Suppliers as the case may be. They shall also give details of location (s) at which the local value addition is made.

20. (XX) In cases if the item(s) offered exceed Rs. 10 Crores, the Class-I/Class-II Local Suppliers shall provide a Certificate from the statutory auditor or cost auditor of the company (in 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.

21. (XXI) False Declarations will be in breach of the Code of Integrity under Rule 175 (1) (i) (h) of the General Financial Rules for which a bidder or its successors can be debarred for up to two years as per Rule 151 (iii) of the General Financial Rules along with such other actions as may be permissible under law.

22. (XXII) Purchase Preference Policy:- Goods/Works which are divisible in nature (required quantity is greater than 1 or not a package basis): i. If L1 is 'Class-1 local supplier', the order/contract for full quantity shall be awarded to L1 bidder. ii. If L1 bid is not from a 'Class-I local supplier', 50% of the order quantity shall be awarded to L1. Thereafter, the lowest bidder among the 'Class-I local supplier' will be invited to match the L1 price for the remaining 50% quantity subject to the Class-I local supplier's quoted price falling within the margin of purchase preference (i.e. 20%) and contract for that quantity shall be awarded to such Class-I local supplier subject to matching the L1 price (inclusive of duties, taxes and freight & insurance). iii. In case such lowest eligible 'Class-I local supplier' fails to match the L1 price or accepts less than the offered quantity, the next higher 'Class-I local supplier'

within the margin of purchase 'preference shall be invited to match the L1 price for remaining quantity and so on, and contract shall be awarded accordingly. In cases where none of the 'Class-I local supplier' within the margin of purchase agree to match L1 price, in such cases 100% quantity shall be ordered on original L1 bidder. iv. In case no offers are received from 'Class-I local supplier' or none of the 'Class-I local supplier' falls within the margin of purchase preference of 20%, the order shall be processed on L1 vendor. v. In case L1 bidder (not a 'Class-I local supplier') is not accepting splitting of order on 50:50 basis, in that case the order/contract shall be awarded to such 'Class-I local supplier' for full quantity subject to matching the L1 price. vi. Regarding MSEs (Indian vendors): a) The following additional aspect as indicated below would be applicable for procurement which are falls under divisible category (i.e., not applicable for indivisible category), in case of participation of MSEs in the tendering who are also complying to the Minimum Local Content (MLC) stipulated in the tender. b) If any Indian vendor satisfies the requirement of MSEs stipulation and also falls within the purchase preference margin as called for in MSME policy (in case of matching L1 price) will be considered for ordering 25% of tendered quantity, the balance quantity / works will be considered for distribution amongst all bidders (including MSEs) as per the purchase preference policy. c) In case no MSEs qualifies for purchase preference or do not match with L1 price then the total tendered quantity will be distributed amongst all bidders as per the purchase preference policy.

**23. Purchase Preference Policy:-** Goods/Works which are not divisible in nature (required quantity is 1 or on a package basis):

(i). If L1 is 'Class-1 local supplier', the order/contract for full quantity shall be awarded to L1 bidder. (ii). If L1 bid is not from a 'Class-I local supplier', then, the lowest bidder among the 'Class-I local supplier' will be invited to match the L1 price subject to the Class-I local supplier's quoted price falling within the margin of purchase preference (i.e. 20%) and contract for that quantity shall be awarded to such Class-I local supplier subject to matching the L1 price (inclusive of duties, taxes and freight & insurance). (iii). In case such lowest eligible 'Class-I local supplier' fails to match the L1 price , the next higher 'Class-I local supplier' within the margin of purchase 'preference shall be invited to match the L1 price and so on, and contract shall be awarded accordingly. In cases where none of the 'Class-I local supplier' within the margin of purchase agree to match L1 price, in such cases the contract shall be placed on original L1 bidder. (iv). In case no offers are received from 'Class-I local supplier' or none of the 'Class-I local supplier' falls within the margin of purchase preference of 20%, the order shall be processed on L1 vendor.

#### **4. Instructions to Vendors**

1. Last minute clarification on tenders will not be entertained.
2. This is an E Tender. Hence Postal/Fax/Email tenders will not be accepted.

#### **5. PPP Make in India(Non- Divisible Items-Class I & II Local Suppliers Only)**

1. In line with Public Procurement (Preference to Make in India), Order 2017 & its amendments issued by Govt. of India from time to time with a view to support the Indian industries, ISRO has implemented "Purchase Preference Policy". The "Purchase Preference" is applicable for the "Class-I Local Supplier" for the goods/ services/ works covered in this tender, subject to the following terms & conditions:-

2. a) The subject item falls under Non-divisible category. b) The offers sought only from Class-I & Class-II local suppliers

3. Definitions: A supplier or service provider, whose goods, services or works offered for procurement, has local content: a) Equal to or more than 50% : Class-I local supplier. b) Minimum 20% but less than 50% : Class-II local supplier. c) Less than 20% : Non-local supplier.

4. 'Local content' means the amount of value added in India (i.e. indigenous items/services added in the offered products/ services/ works) be the total value of the item offered (excluding net domestic indirect taxes) minus the value of imported content in the item (including all customs duties/IGST) as a proportion of the total value (excluding net domestic indirect taxes), in percent.

5. The margin of Purchase Preference shall be up to 20%.

6. 'Margin of purchase preference' means the maximum extent to which the price quoted by the "Class-I local supplier" above the L1 (landed cost).

7. 'L1' means the lowest technically accepted tender / bid / quotation (i.e. lowest landed cost including duties, taxes and freight & Insurance).

8. Works means all works as per Rule 130 of GFR- 2017, and will also include 'turnkey works'. Works includes Engineering, Procurement and Construction (EPC) contracts and services include System Integrator (SI) contracts.

9. Purchase Preference Policy:- Goods/Works which are not divisible (ie., required quantity is 1 or as a package) and Services:

a) If L1 is from a 'Class-I local supplier', the contract will be awarded to L1 bidder.

b) If L1 is not from a 'Class-I local supplier', the lowest bidder among the 'Class-I local supplier' will be invited to match the L1 price subject to local supplier's quoted price falling within the margin of purchase preference (i.e. 20%) and the contract shall be awarded to such 'Class-I local supplier' subject to matching the L1 price (inclusive of duties, taxes and freight & insurance).

c) In case such lowest eligible 'Class-I local supplier' fails to match the L1 price, the 'Class-I local supplier' with the next higher bid within the margin of purchase preference shall be invited to match the L1 price and so on, and order/contract shall be awarded accordingly. In case where none of the 'Class-I local supplier' within the margin of purchase preference agree to match the L1 price, then the order/contract shall be awarded to the original L1 Bidder.

10. The 'Class-I & II local supplier' should provide a "Self Certification" along with technical offer indicating that the item offered meets the minimum local content [as per Sl. No.(3)] as called for in the tender and provide the percentage of local content along with details of the location(s) at which the local value addition is made. In case of two bid tenders, it is mandatory to indicate compliance to MLC(minimum Local Content) in technical bid zone.

11. The ink-signed certificate shall be provided on vendors letter head along with the offer (in case of online tender, copy of ink-signed certificate shall be uploaded along with your offer under concerned tab. Original in Hard copy shall be produced on request). In case of non-submission of certificate, the purchase preference shall not apply.

12. A committee (with an external expert from a practicing cost accountant or practicing chartered accountant, if required) constituted for independent verification shall verify the self-declarations & auditor's / accountant's certificates on random basis, as per the requirements.

13. In cases the quoted price is in excess of Rs.1000 Lakhs (including duties, taxes and freight & Insurance) the 'Class-I & II local supplier shall 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 case of suppliers other than companies) giving the percentage of local content.

14. In case of a complaint received from any local supplier indicating a need for review / verification of Local content of successful vendor / awarded vendor, for accepting a complaint from such complainant (w.r.t the false declaration given by the successful vendor on the local content), a complaint fee of Rs.2Lakhs or 1% of the locally manufactured items being procured (subject to a maximum Rs. 5Lakhs), whichever was higher, to be paid by demand draft by the complainant. In case, the complaint is found to be incorrect, the complaint fee shall be forfeited. In case, the complaint is upheld and found to be substantially correct, deposited fee of the complainant would be refunded without any interest.

15. False declarations will be in breach of code of the integrity for which a bidder or its successor's will not be eligible/debarred for purchase preference from further tenders / pending tenders for two years along with other actions as may be applicable.

16. The Public Procurement (Preference to Make in India), Order 2017 issued by Govt. of India indicates that if there are any general or specific restrictive clauses to restrict participation of Indian companies in those countries procurement tenders, reciprocity clause need to be invoked as per the order. Hence, if ISRO or Govt. of India come across that Indian suppliers of an item are not allowed to participate and / or compete in procurement by your government, the bid submitted by you will be not be considered and excluded from eligibility for procurement. Please note this point.

## C. Bid Templates

### C.1 Technical Bid - Design, realization, supply, installation and commissioning of hydraulic pressure booster setup

#### 1. HYDRAULIC PRESSURE BOOSTER

##### Item specifications for HYDRAULIC PRESSURE BOOSTER

Sl No	Specification	Value	Compliance	Offered Specification	Remark
1	1.0 Scope of work	Design, realization, supply, installation and commissioning of hydraulic pressure booster setup at STED/ASOE/VSSC as per specifications listed below.	Yes / No / Explain		

2	2.0 Description	<p>Hydraulic pressure booster system shall be realized as per the schematic layout shown in specification document. This system shall have two modes of operation - manual mode and auto mode. Manual mode of operation shall be provided using regulated drive air pressure supply. In this mode of operation, all valves are switched ON/OFF manually. Auto mode of operation shall be provided through two electro pneumatic regulator / equivalent systems, one each for drive air control and for booster outlet pressure control. In auto mode of operation, booster shall be controlled based on test pressure (DUT pressure). The operation sequence of all the valves, regulator etc. shall be fully automatic based on the DUT pressure. Hydraulic booster shall be controlled through a SCADA/PLC based control system. Features for plotting real time pressure vs time plots shall be provided for both modes of operation. The SCADA system shall permit interchangeability of control pressure transducer (0-100 bar &amp; 0-1000 bar). The overall system shall be integrated in a caster wheel type console for easy movement.</p>	Yes / No / Explain		
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3	3.0 General specification		-		
4	3.1 Mode of Operation	Fully automated with manual over ride provision.	Yes / No / Explain		
5	3.2 Test pressure	Test pressure shall be settable between 20 - 1000 bar for fully auto mode & 0 - 1000 bar for manual mode.	Yes / No / Explain		
6	3.3 Volume of specimen	25 Litre (Maximum)	Yes / No / Explain		
7	3.4 Hydraulic medium	Distilled water	Yes / No / Explain		
8	3.5 Reservoir capacity	50 Litre	Yes / No / Explain		
9	3.6 Accumulator capacity	2 Litre (minimum)	Yes / No / Explain		
10	3.7 Minimum settable incremental pressure	5 bar	Yes / No / Explain		
11	3.8 Accuracy of settable pressure	+/-1 bar in the range of 500 bar and +/-3 bar in the range of 500 to 1000 bar	Yes / No / Explain		
12	4.0 Instrumentation and control system		-		
13	4.1 Mode of operation	The equipment offered shall work in fully automated mode of operation.	Yes / No / Explain		
14	4.2 PLC controller	Standard PLC controller having provisions for pressure control and programming shall be used.	Yes / No / Explain		
15	4.3 To be controlled by PLC controller	The following shall be controlled by PLC: i. Electronic pressure regulator ii. Electro pneumatic valves iii. Pressure transducers iv. Digital pressure gauges (real time plotting of pressure vs time graph)	Yes / No / Explain		



16	4.4 Changing the pressure set point	Feature for dynamically changing the pressure set point (whenever the booster is in operation in auto mode) shall be provided.	Yes / No / Explain		
17	4.5 Make and model of pressure transducer	Party shall mention the make and model number of the proposed pressure transducer used in the booster along with supporting documents.	Yes / No / Explain		
18	4.6 Software for PC based operation and remote control	Software for PC based operation and remote control shall be provided. This software shall be license free to enable adding multiple pressure transducers. Support for the software including future updates etc. shall be provided free of cost. An extra copy of all necessary software (installable) shall be provided preferably in CDR media, so that it can be reinstalled in case of any exigency arising due to corruption of loaded software.	Yes / No / Explain		
19	5.0 Data logging		-		

20	5.1 Provision for data logging	Provision for real time monitoring / trend display generation and printing of pressure vs time plot (for all pressure transducers) using external PC interface via LAN shall be provided. The basic configuration of this external PC shall be as follows - Processor type : Intel® Core™ i7-10700 or better RAM : 8GB (minimum) Hard disk : SATA 1TB (minimum) Monitor : LED 32 inch	Yes / No / Explain		
21	5.2 Connectivity to PC	Ethernet connectivity to PC shall be available with provision for remote operation (minimum 25 meter from Hydraulic booster).	Yes / No / Explain		
22	5.3 Downloading test data	USB port shall be provided for downloading test data. Feature for saving data in the PC during the test with settable data sample rate and provision for data retrieval at a later stage shall be provided. Internal memory storage shall be sufficient for storing test data for minimum 1000 hours.	Yes / No / Explain		
23	6.0 Trouble shooting / servicing	Real time mimic diagram of full system shall be displayed on the screen so that the fault conditions are visible to the operator. Audible and visual alarm system shall be provided for warning the operator about any malfunction / variation in service conditions.	Yes / No / Explain		

24	7.0 Calibration	Party shall provide valid calibration certificates for all transducers and digital pressure gauges used in the system.	Yes / No / Explain		
25	8.0 Inspection and Acceptance Test Plan at factory and VSSC	Demonstration of all specifications & performance shall be done during factory acceptance test for various test profiles (Sample test profiles will be providing by VSSC during PDI) in manual and auto mode of operations.	Yes / No / Explain		
26	9.0 Safety		-		
27	9.1 Functioning of interlocks	Functioning of all interlocks shall be demonstrated.	Yes / No / Explain		
28	9.2 Safe shut down & revival in the event of electrical power failure	Safe shut down & revival in the event of electrical power failure shall be demonstrated.	Yes / No / Explain		
29	9.3 Safety alarms	All Safety alarms & it's acknowledgment shall be demonstrated	Yes / No / Explain		
30	9.4 Emergency push stop button	Emergency push stop button shall be provided.	Yes / No / Explain		
31	9.5 Operating procedure	A detailed operating procedure for manual and auto mode operation of the system shall be provided along with the system.	Yes / No / Explain		
32	10.0 Detailed specifications of various sub systems		-		
33	10.1 Drive air filter regulator with pressure gauge (PR)		-		
34	10.1.1 Pressure Regulation	8-175 psig	Yes / No / Explain		
35	10.1.2 Quantity	As per the system requirement	Yes / No / Explain		
36	10.2 Drive Air Ball Valves		-		

37	10.2.1 Working Pressure	200 psig (approx.)	Yes / No / Explain		
38	10.2.2 Quantity	As per the system requirement	Yes / No / Explain		
39	10.3 Reservoir (Water storage tank)		-		
40	10.3.1 Volume	30 Litres	Yes / No / Explain		
41	10.3.2 MOC	SS 304 /SS304L with Liquid Level Digital Indicator, Drain Valve, Strainer and Isolation Valve	Yes / No / Explain		
42	10.3.3 Quantity	1 No.	Yes / No / Explain		
43	10.4 High pressure pumps (Liquid booster)		-		
44	10.4.1 Minimum Suction Pressure	Atmospheric	Yes / No / Explain		
45	10.4.2 Maximum Gas Outlet Pressure	1380 bar	Yes / No / Explain		
46	10.4.3 Flow rate	As per system requirement	Yes / No / Explain		
47	10.4.4 Quantity	1 No.	Yes / No / Explain		
48	10.5 Accumulator (Pulsation Dampener)		-		
49	10.5.1 Working pressure	1380 bar	Yes / No / Explain		
50	10.5.2 volume	2-3 Litres	Yes / No / Explain		
51	10.5.3 Design code	ASME	Yes / No / Explain		
52	10.5.4 Material of construction	SS 316	Yes / No / Explain		
53	10.5.5 Quantity	1 No.	Yes / No / Explain		
54	10.6 Outlet Pressure Gauges(PG-1 to PG-3)		-		
55	10.6.1 Range	1380 bar	Yes / No / Explain		

56	10.6.2 Accuracy	0.5% FS	Yes / No / Explain		
57	10.6.3 Quantity	As per system requirement	Yes / No / Explain		
58	10.7 Outlet Ball Valves (BV-1 to BV-5)		-		
59	10.7.1 Working Pressure	1380 bar	Yes / No / Explain		
60	10.7.2 MOC	SS 316	Yes / No / Explain		
61	10.7.3 Quantity	As per system requirement	Yes / No / Explain		
62	10.8 Electro-Pneumatic valves (EPV-1 to EPV-4)		-		
63	10.8.1 Working Pressure	1380 bar	Yes / No / Explain		
64	10.8.2 Quantity	As per system requirement	Yes / No / Explain		
65	10.9 Outlet Pr. Transducer (PT-3 & PT-4)	Appropriate transducer shall be selected for meeting the pressure control of +/-1 bar in the range of 500 bar and +/-3 bar in the range of 500 to 1000 bar.	Yes / No / Explain		
66	10.9.1 Pressure Range	1380 bar (approx.)	Yes / No / Explain		
67	10.9.2 Accuracy	As per system requirement	Yes / No / Explain		
68	10.10 Safety Relief Valve (SRV)	Adequate number of safety relief valves shall be provided in the system.	Yes / No / Explain		
69	10.11 Gas Outlet Electronic Pr. Regulator (EPR)		-		
70	10.11.1 Control Range	1380 bar	Yes / No / Explain		
71	10.11.2 Accuracy	+/-1 bar in the range of 500 bar and +/-3 bar in the range of 500 to 1000 bar	Yes / No / Explain		
72	10.11.3 Quantity	As per system requirement	Yes / No / Explain		

73	10.12 Digital Pressure Gauge (DPG)		-		
74	10.12.1 Working Range	1000 bar	Yes / No / Explain		
75	10.12.2 Accuracy	0.1% FS,	Yes / No / Explain		
76	11.0 General Terms and Conditions		-		
77	11.1 Safety	All statutory safety requirements for the equipment shall be compiled. Details of safety features incorporated in the equipment like relief valve, shutoff valve, etc. and safety procedures to be followed during the operation shall be explained. Safety interlocks shall be provided wherever feasible	Yes / No / Explain		
78	11.2 Ergonomic design	Machine and the control panel are to be ergonomically designed.	Yes / No / Explain		
79	11.3 Delivery schedule	Time schedule for the completion of work shall be clearly mentioned in the offer.	Yes / No / Explain		
80	11.4 Pre delivery inspection	VSSC engineers will inspect the machine at party's site for its performance before dispatching. Clearance will be based on the successful demonstration of the system at factory. Party shall give training to VSSC Engineers for the operation and maintenance of the equipment.	Yes / No / Explain		

81	11.5 Packing and forwarding	After the initial acceptance, party shall properly pack and forward the equipment to our site at VSSC, Trivandrum for final installation and commissioning.	Yes / No / Explain		
82	11.6 Installation and commissioning	Party shall be responsible for the installation and commissioning of the equipment at VSSC.	Yes / No / Explain		
83	11.7 Warranty	Total equipment shall have comprehensive warranty for a period of 12 months from the date of final acceptance at VSSC.	Yes / No / Explain		
84	11.8 Requirements of items not mentioned in tender	Any other items those are essential for realisation of the equipment conforming to all specification requirements, installation and for the regular operation but are not referred herein, may also be included in the offer.	Yes / No / Explain		
85	11.9 Previous experience	Supplier shall provide the details of similar system supplied to Government/PSU/Private industries highlighting/indicating the date of supply and contact details including telephone number and email address.	Yes / No / Explain		

86	Note	Conceptual drawing is provided in Fig.-I for reference. Party is free to suggest modification where ever it is essential to achieve the test pressure settable between low pressure range (0 to 100 bar) & high pressure range (0 to 1000 bar) with an accuracy of +/-1 bar in the range of 500 bar and +/-3 bar in the range of 500 to 1000 bar to the maximum and minimum test volumes. However, the party has to submit the detailed drawing for verification by VSSC prior to fabrication.	Yes / No / Explain		
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## Document : Specifications

### Supporting Documents required from Vendor

1. Cost split up for various sub systems for offered hydraulic booster (Price Bid Related)
2. Overall cost of hydraulic booster including warranty, installation and commissioning (Price Bid Related)
3. Product catalog indicating all technical parameters
4. Unpriced offer with techno-commercial details in pdf format is mandatory
5. Local content declaration

5 additional documents can be uploaded by the vendor



## C.2 Commercial Terms / Bid

Sl. No.	Description	Compliance	Vendor Terms
1	Equipment shall be supplied and installed at VSSC as per tender specifications.	Yes / No / Explain	
2	Taxes and other costs, [Note:- We are eligible for GST concession @ 5% as per Ministry of Finance, Dept. of Revenue Notification No. 25/2018 Integrated Tax (Rate) Schedule-I; Sl.No.243B dated 31.12.2018 (Amendment to Notification No. 7/2018 - Integrated Tax (Rate) dated 25.01.2018 and Notification No. 1/2017 - Integrated Tax (Rate) dated 28.06.2017].	Yes / No / Explain	
3	Security Deposit (Applicable if Offer Value is Rs. 5 Lakhs or above. MSME/NSIC Units are NOT EXEMPTED from the payment of SD. Bank Guarantee @ 3% of Order Value valid till 60 days from the date of supply to be submitted. Mandatory compliance required. Only Government Bodies/PSUs/PSEs can submit Indemnity Bond in lieu of BG. In the event of non-performance of contractual obligations, SD will be forfeited).	Yes / No / Explain	
4	Delivery Terms. (FOR VSSC)	Yes / No / Explain	
5	Delivery Period (a) Please specify the period for submitting the drawing for approval from VSSC on receipt of PO.	Yes / No / Explain	
6	(b) Please specify the period required for the item to be ready on receipt of drawing approval from VSSC for conducting PDI. Readiness of the item shall be intimated to VSSC well in advance.	Yes / No / Explain	
7	(c) Please specify the period required for the supply on receipt of PDI clearance from VSSC.	Yes / No / Explain	
8	(d) Please specify the period required for completing Installation work on Intimation from VSSC on site readiness.	Yes / No / Explain	

9	Liquidated Damages (Applicable beyond the delivery period mentioned in this tender @ 0.5% per week or part thereof on the undelivered portion subject to a maximum of 10% of the contract value. Mandatory compliance required).	Yes / No / Explain	
10	Warranty (1 Year)	Yes / No / Explain	
11	Performance Bank Guarantee (PBG) Bank Guarantee @ 3% of Order Value valid till the completion of warranty period plus 2 months claim period to be submitted. Mandatory compliance required. Only Government Bodies/PSUs/PSEs can submit Indemnity Bond in lieu of BG. In the event of non-performance of warranty obligations, PBG will be forfeited).	Yes / No / Explain	
12	Payment Term: (Our Default payment term: For indigenous orders: 100% within 30 days after receipt and acceptance of item at our site. NOTE: CONSEQUENT TO COVID 19 PANDEMIC AND AS PER EXTANT GUIDELINES FROM DEPARTMENT OF SPACE, NO ADVANCE PAYMENT IS PAYABLE TO THIS TENDER).	Yes / No / Explain	
13	Definitions: A supplier or service provider, whose goods, services or works offered for procurement, has local content: a) Equal to or more than 50% : Class-I local supplier. b) More than 20% but less than 50% : Class-II local supplier. c) Less than or equal to 20% : Non-local supplier. Mention your category.	Yes / No / Explain	
14	Local content means the amount of value added in India (i.e. indigenous items/services added in the offered products/services/works) be the total value of the item offered (excluding net domestic indirect taxes) minus the value of imported content in the item (including all customs duties/IGST) as a proportion of the total value (excluding net domestic indirect taxes), in percent. Indicate extent of Minimum Local Content in offered product/service and location of such value additions.	Yes / No / Explain	

15	The Class-I & II local supplier should provide a Self Certification along with your offer in PDF format indicating that the item offered meets the minimum local content as called for in the tender as mentioned above and provide the % of local content along with details of the location(s) at which the local value addition is made. In case of two part tenders, it is mandatory to indicate compliance to MLC(minimum local content) in technical bid itself. Confirm attachment of Self declaration along with the offer.	Yes / No / Explain	
16	PO Placement Address (with Name and Contact Details of sales person concerned).	Yes / No / Explain	
17	Any Other Terms	Yes / No / Explain	
18	Offer Validity (180 days)	Yes / No / Explain	

### C.3 Price Bid

Sl. No.	Item	Quantity	Unit Price	Currency	Total Price	Remark
1	HYDRAULIC PRESSURE BOOSTER	1.00 Nos.		-		

### Common charges (Applicable for all items)

Freight charge	
P&F Charges	